ARCADIS
Infrastructure · Water · Environment · Buildings

Imagine the result

Ford Motor Company

Remedial Investigation Report for Cannon Mine Pit Area

Ringwood Mines/Landfill Site,
Ringwood, New Jersey

June 2013

206792

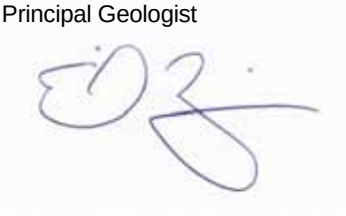
R2-0005129

ARCADIS

Remedial Investigation Report for
Cannon Mine Pit Area

Ringwood Mines Landfill Site,
Ringwood, New Jersey

Gregory R. Albright, P.G.
Principal Geologist



Erich Zimmerman, P.E.
Account Manager

Prepared for:
Ford Motor Company

Prepared by:
ARCADIS U.S., Inc.
17-17 Route 208 North
2nd Floor
Fair Lawn
New Jersey 07410
Tel 201.797.7400
Fax 201.797.4399

Our Ref.:
NJ000604.0035

Date:
April 2012
Revised January 2013
Revised June 2013

This document is intended only for the use of the individual or entity for which it was prepared and may contain information that is privileged, confidential and exempt from disclosure under applicable law. Any dissemination, distribution or copying of this document is strictly prohibited.

Table of Contents

Executive Summary ES-1

1. Introduction 1

1.1 Site Background 1

1.1.1 Cannon Mine Pit Area 1

1.1.2 Regional Geology/Hydrogeology 2

1.1.3 Site Geology/Hydrogeology 3

2 Study Area Investigation 5

2.1 Surface Soil Characterization 5

2.2 Fill Material Characterization 6

2.2.1 Test Pit Excavation 6

2.2.2 Rotosonic Boring Results 8

2.2.2.1 Soil Boring Sample Analytical Results 9

2.2.2.2 Comparison of Soil Boring Data to RDCSRS 10

2.2.2.3 Comparison of Soil Boring Data to IGWDSSL 11

2.3 Groundwater Characterization 12

2.3.1 Bedrock Borehole Installation 13

2.3.2 Geophysical Investigation 14

2.3.3 Packer Testing 15

2.3.4 Well Installation 15

2.3.4.1 Installation of Monitoring Well SC-2 15

2.3.4.2 Installation of Multi-Level Zone Isolation Bedrock Wells 16

2.3.5 Water Level Monitoring 17

2.3.6 Monitoring Well Sampling 18

2.3.7 Supplemental 2012 Investigation Activities 19

2.3.7.1 Carbon-14 (14C) and Tritium 20

2.3.7.2 Radon-222 20

2.3.7.3 Stable Oxygen and Hydrogen Isotopes of Water 20

R2-0005131

2.3.7.4 Chlorofluorocarbons 20
2.3.7.5 Sulfur Hexafluoride 21
2.3.7.6 Geochemical Parameters 21
2.3.7.7 Ambient Flow Characterization 22
2.3.7.8 Transducer and Surface Water Measuring Stations 22
2.4 CMP Area Investigation Results 23
2.4.1 Horizontal Groundwater Flow 23
2.4.2 Vertical Groundwater Flow 24
2.4.3 Evaluation of Groundwater Recharge 24
2.4.4 Transducer and Surface Water Elevation Results 24
2.4.5 Groundwater Analytical Results 25
2.4.6 CMP Groundwater Geochemical Results 27
2.5 Cannon Mine Shaft Investigation 28
2.5.1 Cannon Mine Video Investigation 28
2.5.2 Ambient Flow Monitoring within the Cannon Mine Shaft 30
2.5.3 Groundwater Sampling within the Cannon Mine Shaft 31
3 Nature and Extent of Contamination 32
3.1 Constituents of Concern and Sources 32
4 Conceptual Site Model 34
4.1 Exposure Setting 34
4.1.1 Physical Setting 34
4.1.2 Vegetation 35
4.1.3 Geology 36
4.1.4 Surface Hydrology 36
4.1.5 Groundwater Hydrology 37
4.1.6 Zoning 37
4.1.7 Demographics 38

4.1.8 Current Land Use 38

4.1.9 Exposure Pathways and Potential Receptors 39

5 CMP Baseline Human Health Risk Assessment 41

5.1 Human Health Evaluation 41

5.1.1 Exposure Setting 42

5.1.2 Zoning 43

5.1.3 Demographics 43

5.1.4 Current Land Use 44

5.2 Environmental Evaluation 45

6 Findings and Conclusions 45

References 50

Tables

1 Summary of Surface Soil Sample Analytical Results

2 Summary of Soil Boring Sampling Intervals

3 Comparison of Soil Analytical Results to the Residential Direct Contact Soil Remediation Standards

4 Comparison of Soil Analytical Results to the Impact to Groundwater Soil Cleanup Criteria and the 2008 Impact to Groundwater Default Soil Screening Levels

5 Summary of Packer Testing Intervals for RW-8, RW-9 and RW-10

6 Summary of Well Construction Information

7 ZIST Well Construction Information

8 Summary of April/May 2012 Depth to Groundwater Information for Site Wells

9 Summary of Groundwater Field Sampling Parameters

10 Supplemental RI Analytical and Monitoring Program

11 Summary of Isotope and Anthropogenic Gas Analytical Results

12 Summary of Geochemical Water Types

13 Summary of Stream Gauge Measurements, June-Aug 2012

R2-0005133

14 Summary of April/May 2012 Groundwater Analytical Results

15 Summary of 2004 - 2011 Groundwater Analytical Results

16 Video Log of the CM Shaft Down-hole Investigation

Figures

1 Site Location

2 CMP Area Investigation Locations/ 2A SR-6 and CM Geophysical Investigation

2A SR-6 and CM Geophysical Investigation

3 Cross-sectional View of the CMP, Cross Section A-A'

4 Cross-sectional View of the CMP, Cross Section B-B'

5 Soil Boring Results

6 Shallow Bedrock Groundwater Elevations, April/May 2012

6A Deep Bedrock Groundwater Elevations, April/May 2012

7 Supplemental Groundwater RI Well Network CM Area

8 Surface Water and Groundwater Sampling Locations

9 CMP Area Piper Diagram

10 CMP Area Stiff Diagrams

11 Summary of Detected Bedrock Groundwater Analytical Results from 2006 through 2012

Appendices

A Memorandums regarding closure of the CM and New London Pit by the New Jersey Mine Safety Bureau Statement of Work

B Surface Soil Sampling Logs

C Test Pit Logs and Photographs

D Drum Logs and Photographs

E Soil Boring Logs and Core Photographs

F Well Boring and Construction Logs

G Groundwater Sampling Logs

H Borehole Geophysical Logs

Executive Summary

ARCADIS US, Inc. (ARCADIS), on the behalf of Ford Motor Company, is submitting this Draft Remedial Investigation Report (RIR) for the Cannon Mine Pit (CMP) to the United States Environmental Protection Agency (USEPA). This Draft RIR has been prepared in accordance with the *Guidance for Conducting Remedial Investigations and Feasibility Studies under CERCLA*, EPA/540/G-89/004 dated October 1988 and the Administrative Order on Consent for the Ringwood Mines/Landfill Site located in the Borough of Ringwood in Passaic County, New Jersey (Site).

The USEPA and Ford Motor Company entered into an Administrative Order on Consent (AOC) in 2005 to conduct supplemental investigations at the Site. In May 2010, the 2005 AOC was superseded by a new AOC. This revised AOC separated the Site into four Areas of Concern (AC) which include the Peters Mine Pit (PMP) Area, the CMP Area, the O'Connor Disposal Area (OCDA) and Site-related Groundwater. The 2010 AOC required the preparation of separate RIRs and a number of additional submittals leading up to a final Feasibility Study (FS) for each AC. Additional significant submittals required for each AC include a Pathway Analysis Report (PAR), a Baseline Human Health Risk Assessment (BHHRA), and a Baseline Ecological Risk Assessment (BERA).

The purpose of this RIR is to provide the geologic and hydrogeologic background information generated during implementation of the RI activities at the Site, outline the results of previous investigations at the CMP AOC, and discuss the required deliverables, including BHHRA and a BERA which will be provided under separate cover. In conjunction with the BHHRA and BERA, this RIR determines the nature and extent of impacts and any threat to public health, welfare, or the environment caused by the release or potential release of Site-related constituents at or from the CMP Area.

The scope of the RI activities at the CMP has included test pit and test trench excavations, drilling and rock coring; soil sample collection and analysis, installation and development of monitoring wells, collection of groundwater elevation measurements, monitoring well and surface-water sampling and analysis, and down-hole video logging of the CM Shaft. In addition, a Supplemental RI was conducted at the Site in accordance with the Proposed Supplemental Site-Related Groundwater Remedial Investigation Work Plan dated June 22, 2012 (ARCADIS 2012). Since the Supplemental RI work scope included additional investigation of groundwater quality, geochemistry, and groundwater and surface water hydrology within the CMP, including verification of groundwater quality within the Shaft, the findings have been incorporated into this RIR. The results of the supplemental RI were used to estimate the age of groundwater, evaluate the origin and movement of groundwater, including groundwater discharge pathways, as part of the overall assessment of groundwater and surface water occurrence, movement and connectivity in the CMP Area.

R2-0005135

All data generated during the RI of the CMP was utilized in the development of a Conceptual Site Model (CSM) for the CMP portion of the CSM.

The RIR concludes that:

- There were no exceedances of the RDCSRS in any of the surface soil samples collected within the CMP Area;
- The results of investigation indicate that the CMP is filled with blast rock and rubble followed by municipal-type waste and industrial waste, some of which was identified as originating from the Ford Mahwah Assembly Plant. The uppermost portion of the CMP contains the waste material at a thickness that ranges from 10 to 47 feet; and
- Paint sludge was not identified within the CMP fill materials, however, drums and drum remnants were encountered with some drum contents containing PCB and metals-containing materials at concentrations above their respective RDCSRS.
- The results of the RI indicate that fill material within the CMP contains detectable concentrations of certain VOCs, SVOCs, metals, pesticides/herbicides, and PCBs but not in any discernible pattern, specifically:
  - The VOCs benzene and chlorobenzene were detected at concentrations above NJDEP Impact to Groundwater Default Screening Levels (IGWDSSL) and chlorobenzene was detected at concentrations above the NJDEP Residential Direct Contact Soil Remediation Standard (RDCSRS);
  - SVOCs were detected at concentrations above the NJDEP RDCSRS, including benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, bis(2-ethelhexl)phthalate and naphthalene;
  - Metals were detected at concentrations above their respective IGWDSSL, including aluminum, antimony, arsenic, barium, beryllium, cadmium, lead, mercury, manganese, nickel, silver, thallium and zinc;
  - Metals were detected at concentrations above their respective RDCSRS, including antimony, arsenic, barium, cadmium, chromium, copper, lead, and vanadium; and
  - PCBs were detected above the IGWDSSL and RDCSRS, including Aroclor 1248 and Aroclor 1254. The pesticide Aldrin was also reported at concentrations above its IGWDSSL and RDCSRS.
- Groundwater was encountered within the CMP at a depth below the waste materials and the results of the RI indicate that groundwater quality is unaffected by the contents of the CMP with constituents of concern either not detected (ND) or reported at concentrations below their respective Groundwater Quality Standards (GWQS) and Maximum Contaminant Levels (MCLs).
- Specifically, there are no SVOCs, pesticides or PCBs reported in groundwater within the CMP Area, and only sporadic detections of total, and to a lesser extent, dissolved-phase

R2-0005136

metals. With the exception of groundwater samples collected as part of selective zone packer testing at RW-2, RW-8 and RW-9, lead has only been detected at a concentration above the GWQS at monitoring well SC-02 in May 2011.

- VOCs have not been detected in groundwater within the CMP, with the exception of low concentrations of trichloroethene (TCE) detected at concentrations above the GWQS at monitoring well OB-3 in September 2008 and October 2009.

- With the exception of lead and arsenic detected at a concentration above the NJDEP Surface Water Quality Standards (SWQS) in May 2012 at surface water sample SW-MRB-01 and bis(2-ethylhexyl)phthalate detected at a concentration above the NJDEP SWQS in May 2012 at surface water sample SW-MRB-02, no constituents of concern have been detected in surface water within the Mine Brook. In addition, a review of surface water sample results collected at locations further downstream (SW-02 and SW-MRB-03) do not identify constituents of concern; therefore, the data indicate that there is no constituents of concern migration from the CMP Area toward Ringwood Creek and therefore no migration towards the Wanaque Reservoir where surface water from the Site ultimately discharges.

R2-0005137

1 Introduction

ARCADIS U.S. Inc. (ARCADIS), on the behalf of Ford Motor Company, has prepared this Remedial Investigation Report (RIR) for the Cannon Mine Pit (CMP) Area at the Ringwood Mines/Landfill Site located in Ringwood, New Jersey (Site). A Site location map is provided as Figure 1 and the CMP Area and investigation locations are shown on Figure 2. The details of previous investigation activities and findings, along with summaries of all field data and analytical results, are provided in the CMP Investigation Technical Memorandum, dated June 22, 2010. The investigation activities were conducted in accordance with the United States Environmental Protection Agency (USEPA) approved work plan, Investigation of the CMP Area, dated August 30, 2007, as supplemented on November 14, 2007.

Groundwater sampling activities associated with the RI were conducted during July 2008 with subsequent groundwater sampling events conducted in 2009, 2010, 2011, and 2012. In addition, a Supplemental RI was conducted for the Site-Related Groundwater Area of Concern (AC) in accordance with the Proposed Supplemental Site-Related Groundwater Workplan dated June 22, 2012 (ARCADIS 2012). The work scope included supplemental investigation of groundwater quality, geochemistry, and groundwater and surface water hydrology within the CMP and the findings are therefore incorporated into this RIR and the Conceptual Site Model (CSM) for the CMP Area.

1.1 Site Background

The entire Site consists of approximately 500 acres and is 0.5 mile wide and approximately 1.5 miles long. The Site as a whole includes forested areas, abandoned mine shafts, landfills, industrial refuse disposal areas, a municipal recycling center, the Borough of Ringwood Garage, residential lots, and a portion of Ringwood State Park. A number of investigations have taken place at the Site and those investigations have resulted in the removal of Ford-related waste materials from several isolated areas within the Site.

1.1.1 Cannon Mine Pit Area

The CMP is located in the southwestern-most portion of the Ringwood Mines/Landfill Site to the west of the OCDA and near the cul-de-sac at the end of Van Dunk Lane. The location and features of the CMP are shown on Figure 2 and 2A. As shown, the CMP is located west of Van Dunk Lane and east/southeast of Sludge Removal Area 6 (SR-6). The pit is approximately 150 feet wide by 300 feet long. The CMP Area is mostly an open field surrounded by a chain-link fence, but includes disturbed areas such as access roads and piles of rock.

As shown on Figure 2, the Cannon Mine (CM) shaft is located approximately 500 feet east of the CMP at the intersection of Van Dunk Lane and Milligan Lane. The shaft is currently sealed with railroad ties and a 6-inch thick concrete slab. The concrete slab is approximately three feet below the ground surface.

Based on historical records, the CMP was excavated to a depth of approximately 140 to 180 feet below ground surface (bgs). The mined ore bodies pitched northeast at an angle of approximately 45 degrees. Review of existing information regarding the CMP indicates that there was a shaft at the base of the pit. At the surface, the combined CMP and London Mine Pit opening was approximately 200 feet by 140 feet. The CMP was connected to other mine pits, including the blue pit, little blue pit, hard pit and mule pit, in the vicinity through a series of tunnels completed within two levels of the mine. Level one could be accessed through an opening at the bottom of the CMP, and both could be accessed through a lift within the CM shaft located at the intersection of Van Dunk Lane and Milligan Lane.

As part of the RI for the CMP, historic records regarding mining activities and mine closure were reviewed. Memorandums regarding closure of the CM and New London Pit by the New Jersey Mine Safety Bureau are attached in Appendix A. Review of these records indicates that the CMP was backfilled to grade with a combination of rock blasted from the sides of the pit wall, municipal-type and industrial solid waste, and imported fill soil. The historical records indicate that three blasting events took place close to the CMP that began on September 21, 1965 and were completed by November 16, 1965. The quantity of rock rubble generated from blasting the mine pit walls was only sufficient to partially backfill the CMP. Imported fill material, consisting of solid waste and cover soil, was placed on top of the rock rubble to backfill the pit to grade. Based on the fact that the blast rock is encountered beneath the waste and fill material, the blasting of the mines predate disposal of waste material by Ford in the CMP

The historical records also indicate that the New London Pit, located immediately northwest of the CMP as shown on Figure 2, was closed in a similar manner by blast rock and that “the small slope at the bottom of the pit is well blocked with massive rock” (See Memorandum titled The Safeguarding of Abandoned Mine Holes, Ringwood, Passaic County, September 21, 1965, in Appendix A of this RIRCMP). ARCADIS conducted a supplemental test pit investigation within the New London Pit during March 2011 and confirmed that the pit was filled to the surface with blast rock.

1.1.2 Regional Geology/Hydrogeology

The Site is located in the southeastern extension of the New England Highlands Physiographic Province. The portion located in New Jersey is known as the New Jersey Highlands. In areas of well-foliated gneiss, the topography of the Highlands consists of northeast-southwest trending

parallel ridges. The more common, less foliated gneiss forms rounded or broad-topped topographic highs. Granite gneiss and pegmatite form sharp ridges separated by narrow troughs underlain by less resistant gneiss. Major cross faults are visible as trench-like features which interrupt drainage. Those faults strike approximately east-west across the predominant northeast strike of the major ridges and valleys (Hotz 1953).

Structural features of the Highlands, which are regionally related either spatially or tectonically, include folds, faults, lineation trends, and jointing. The Highlands has experienced a complex history of folding and faulting, the result of both Precambrian and post-Precambrian tectonism. The formation of the Highlands and the associated faulting and folding which produced structural complexities in the region occurred during the closing periods of the Paleozoic Era concurrently with the formation of the Appalachian Mountains.

The Highlands in Passaic County are drained by the Pequannock, Wanaque, and Ramapo Rivers which ultimately join to form the Pompton River, a tributary of the Passaic River. The drainage pattern north of the terminal moraine in the New Jersey Highlands is classified as deranged, and is marked by many poorly drained areas of lakes and swamps. Greenwood Lake and Lake Hopatcong are large lakes that were formed by the blocking of preglacial drainage courses. South of the terminal moraine, stream drainage generally follows structural valleys toward the southwest (Woodward-Clyde Consultants 1988).

1.1.3 Site Geology/Hydrogeology

The site terrain is mountainous with peaks up to 900 feet above sea level and valleys are generally below 500 feet in elevation. The bedrock at the Site consists primarily of Precambrian gneiss and some amphibolites and pegmatite. Bedrock in the valleys and other topographic low areas is generally covered by overburden, which consists of unconsolidated and reworked glacial deposits and weathered bedrock. In some areas, the overburden is overlain by excavated rock, mine tailings, refuse, and fill soil.

The iron ore found in Ringwood is thought to be hydrothermal deposits consisting primarily of magnetite that replaced pyroxene amphibolite and skarn rocks. The iron ore formed around the same time as emplacement of granite and pegmatite, which was about 950 million years ago.

Unconsolidated soil and sediment deposits are primarily confined to the stream valleys and corridors. The unconsolidated deposits appear to have greatest thickness in the eastern and southern parts of the Site. Glacial deposits blanket the lower slopes of ridges and hills and consist of heterogeneous mixtures of silt, sand and gravel with boulders; typical of a ground moraine. The stream deposits are observed within the floodplains of the creeks and swamps and consist of clay

and silt with some sand and gravel. These stream deposits are thought to be primarily derived from reworking of the glacial sediments.

As shown on Figure 2A, the CMP Area is located on a small ridge, characterized by shallow bedrock conditions (less than 10 feet below grade), and occupies a small topographic high that slopes steeply to the west and gently to the south and east. Cross-sections of the CMP prepared based on data generated during the RI are provided as Figures 3 and 4. The lines of cross-section, or transect, are shown on Figure 2. As shown on Figures 3 and 4, bedrock is encountered at shallow depths in the areas surrounding the CMP, generally less than 10 feet below grade and overburden and fill soil with some refuse overlie the bedrock (Woodward-Clyde Consultants 1988).

The CMP shaft is vertical and it extends to a depth of approximately 504 feet below ground level. Stopes occur at various levels, and they extend outward to the south and west for approximately 400 feet (Woodward-Clyde Consultants 1984a). The CMP and New London Pit are surface pits located at the western end of the CM. The base of both pits reportedly intersected stopes from the Cannon Shaft at a depth of approximately 200 feet below ground level. A geophysical investigation was conducted as part of the RI during August 2006 to assess the location of pits and other subsurface anomalies and is discussed in Section 2.3.2.

There are four drainage basins within the Site and as a result, there are four primary surface water streams that essentially drain the Site. They include Mine Brook, Peters Mine Brook, North Brook and Park Brook. Peters Mine Brook joins Mine Brook along the southern Site boundary. Mine Brook flows into Ringwood Creek, just upstream of the Wanaque Reservoir. Park Brook flows into Ringwood Creek about one mile upstream of its confluence with the Wanaque Reservoir as does North Brook.

Groundwater in the CMP Area occurs in shallow and deeper bedrock. Groundwater in the shallow bedrock is monitored at depth intervals on the order of tens of feet bgs and the deeper bedrock groundwater is monitored on the order of several hundreds of feet bgs of the Site. Based on the low yield of monitoring wells as documented during the multiple groundwater sampling events conducted at the Site, the data indicate that the horizontal and vertical hydraulic conductivity of the bedrock in the shallow to deeper monitoring zones is limited due to poor vertical permeability as indicated by the low yield of the monitoring wells observed during groundwater sampling. This was further evaluated during the Supplemental RI for the Site-related Groundwater AC that includes key monitoring wells and the CMP Shaft and the results will be discussed in the Site-related Groundwater RIR which will be submitted under separate cover.

Based on topography and groundwater elevation data generated during the RI, the data indicate that groundwater in the shallow bedrock discharges to the Mill Brook to the west and south of the

CMP creating base-flow in the perennial streams which ultimately discharge to the Wanaque Reservoir (Woodward-Clyde Consultants 1988).

2 Study Area Investigation

The investigation locations included in the RI for the CMP Area are shown on Figure 2. The scope of work completed during the CMP RI included the following:

- Surface soil quality characterization
- Fill Material characterization;
- Trench and test pit excavation;
- Drilling and coring program;
- Sample collection and analysis;
- Groundwater and surface water characterization;
- Generation of hydrogeological data in support of the CSM;
- Installation and development of monitoring wells;
- Water-level monitoring program; and
- Monitoring well and surface-water sampling and analysis.

2.1 Surface Soil Characterization

Surface soil samples were collected on October 23, 2007 to characterize surface soil quality within the CMP Area. Sampling locations are shown on Figure 2 and the analytical results are summarized in Table 1. Surface soil sampling logs are in Appendix B. A total of ten (10) surface soil samples were collected and analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), polychlorinated bi-phenyls (PCBs), Target Analyte List (TAL) metals, and total petroleum hydrocarbons (TPHC). QA/QC samples, including one duplicate sample (from CMI-SS-10), one trip, and one field blank were also collected. Soil samples were obtained from a depth of 0 and 6 inches below ground surface (bgs) for non-volatile compounds and 18 and 24 inches for VOCs.

The findings of the RI for surface soil indicate the following:

- Surface soils in the vicinity of the CMP Area are predominately soil intermixed with solid waste (plastic, paper, wood, and scrap metal).
- There was no indication of paint sludge during the soil sample collection.
- As summarized in Table 1, no VOCs, SVOCs, PCBs, metals, or TPHC were reported above the New Jersey Department of Environmental Protection's (NJDEP's) Residential Direct Contact Soil Remediation Standards (RDCSRS). Of the 23 metals on the TAL, six were detected at concentrations above their respective NJDEP Impact to Groundwater Default Soil Screening Levels (IGWDSSL). Metals detected above their IGWDSSL included aluminum (8,130 mg/kg to 16,100 mg/kg), beryllium (0.51 mg/kg to 0.65 mg/kg), cadmium (1.5 mg/kg), lead (59.5 mg/kg to 246 mg/kg), manganese (300 mg/kg to 2,020 mg/kg), and mercury (0.2 mg/kg to 0.34 mg/kg).

2.2 Fill Material Characterization

As part of the RI, fill material in the CMP was investigated via a combination of surface soil sampling, test pit/test trench excavation, and rotosonic boreholes. The fill material characterization activities were performed to provide the following specific information:

- Types of fill materials. The fill materials were thought to potentially include mine tailings, construction and demolition debris, general manufacturing wastes, general municipal-type wastes, paint sludge, drum remnants, and miscellaneous fill;
- Fill layering characteristics (e.g., intermingling or segregation of fill materials, presence of soil cover layers).

Fill and waste materials were field screened for VOCs using a photoionization detector (PID) to guide the collection of samples for laboratory analysis and for health and safety purposes. The results of the fill material investigation activities are discussed below.

2.2.1 Test Pit Excavation

As part of the RI scope of work, a total of twelve (12) test pits were excavated within and around the perimeter of the CMP to characterize shallow fill materials and delineate the limits of the pit and/or fill material. The test pit locations are shown on Figure 2. Test pits were excavated with a tracked excavator to bedrock, rock rubble, groundwater, or a maximum depth of 15 feet bgs. Two test pits (CMI-TP-10 and 12) were excavated within the CMP boundaries and 10 test pits (CMI-TP-01, -02, -03, -04, -05, -06, -07, -08, -09, and -11), were excavated around the perimeter of the pit.

As shown on Figure 2, the test pits excavated along the inferred perimeter of the CMP verified the CMP boundaries, showing clear indications of steepening bedrock slopes with the thickness of fill

material increasing toward the central part of the pit. As described below, soil borings drilled within the CMP confirmed the findings of the test pit work. Test pit logs, including photos of the test pits, are provided in Appendix C. The test pit investigation findings are summarized as follows:

- Organic soils with leaf litter, roots, sands, and granules were observed at the surface from 0.5 to 2.0 feet below ground surface (bgs).
- The cover soil was intermixed with debris that included timber fragments, aluminum cans, clear glass, plastic lining, ceramics, plastic bags, plastic cups, bottles, carpet, thread spools, fabric, rubber sole shoes, phone books, styrofoam, commercial paint, cloth, toys, newspapers (dated 1971), other miscellaneous refuse, tires, and scrap metal.
- The solid waste described above was observed from the surface to depths of approximately 13 feet bgs. Some of the solid waste was mixed with coarse grained soils and contained intermittent layers of soil fill mixed with some mine tailings ranging in thickness from 0.5 to 2 feet.
- An unidentified black, semi-solid, tar-like to grease-like substance mixed with soil was observed in TP-01 and TP-02 from 2 to 4 feet bgs.
- Intact drums and drum remnants were observed in TP-01 at a depth of 5 to 6 feet bgs. Ten drums were removed from TP-01 as part of the test pit excavation work. These drums were staged on-site, sampled for disposal characterization via the Toxicity Characterization Leachate Procedure (TCLP), and transported for proper off-site disposal. Descriptions of the drums removed from test pit TP-01 are provided in Appendix D along with photographs, the TCLP analytical results from samples collected from the drum contents.

Materials observed in the drums ranged from an elastic black tar-like substance to dry, hard unknown materials. Interior PID readings ranged from 0.0 parts per million (ppm) to 800 ppm. The results of TCLP analyses performed on the contents of the drums indicated the following:

- As summarized in Appendix D, several VOCs, including 2-butanone (MEK), benzene, tetrachloroethylene, chloroform, trichloroethylene and/or vinyl chloride, were identified at very low to trace concentrations in TCLP samples obtained from eight of the ten drums. Specifically, the data indicate the following:
  - MEK was reported in a sample from one drum at a concentration of 0.0558 mg/l.
  - Benzene was reported at concentrations ranging from 0.0017 mg/l to 0.302 mg/l in samples from eight drums.
  - Chloroform was reported at concentrations of 0.0107 mg/l and 0.0143 mg/l in samples from two drums.

  - Tetrachloroethene was reported at concentrations ranging from 0.0037 mg/l to 0.0093 mg/l in samples from six drums.
  - Trichloroethylene was reported at concentrations of 0.0026 mg/l and 0.0034 mg/l in samples from two drums.
  - Vinyl chloride was reported at a concentration of 0.0078 mg/l in a sample from one drum.
- SVOCs were not identified in any of the TCLP samples collected from the drums;
- Total PCB concentrations were reported in samples from five drums, with detected concentrations ranging from 0.0615 mg/l to 3.3 mg/l;
- No pesticides or herbicides were detected in the TCLP analyses from any of the samples collected from the drums;
- Total metals, including barium, cadmium and lead, were reported at generally low TCLP concentrations; however, two separate drum samples failed the TCLP for lead, with concentrations of 24.5 mg/l and 5.9 mg/l within Drum 1 and Drum 3, respectively. One drum sample exceeded TCLP limits for barium with a reported concentration of 456 mg/l.

Drum remnants were also observed in TP-08 at 7 and 13 feet bgs, in TP-09 at 6-7 feet bgs, and in TP-10 at 0.5 to 5 feet bgs. These drum remnants were removed from the excavations and disposed with the drums identified above.

2.2.2 Rotosonic Boring Results

A total of six borings (CMI-S1, -S2, -S3, -S4, -S5, and S6) were advanced within the limits of CMP to characterize the deeper fill material used to backfill the pit using rotary vibro-sonic boring techniques. The boring locations are shown on Figure 2 and the boring logs and core photographs are provided in Appendix E.

The 6-inch diameter borings were drilled between December 6 and December 13, 2007. Total boring depths ranged from 27 to 77 feet bgs. All borings were completed within the blast rock to confirm the bottom of fill material placement within the pit.

A 4-inch diameter core barrel was advanced first to sample the waste at 10-foot intervals, followed by advancement of a 5.5-inch outer steel casing to stabilize the borehole for recovery of the core and advancement of the next core section. The core barrel and outer casing were advanced dry, or with high pressure water where coring was difficult. The drilling system recovered 10-foot length cores in a single stroke and the sample recovery was collected into 5-foot length core liners. This allowed wastes in the pit to be field screened and visually inspected. The boring locations are shown on Figure 2.

Conceptual cross-sections of the CMP based on all available boring logs depicting the estimated depth and width of the CMP, angle of repose for the blast rock, and general fill type characterization is provided on Figures 3 and 4. The lines of section are shown on Figure 2. As shown on Figures 3 and 4, the CMP contents consisted mainly of miscellaneous solid waste intermixed with fill cover soils, some minor amounts of mine tailings of various size fractions ranging from coarse sand to very fine sand and mine waste rock overlying rock rubble. The solid waste and cover soils ranged in thickness from less than one foot at the edges of the pit to 47 feet in the central part of the pit (see the log for boring CMI-S4 provided in Appendix E). Solid waste was underlain in some parts of the pit by a layer of fines, sands, gravels, and mine tailings that was approximately 5 to 18 feet thick. Soil features observed through the upper fill material of the CMP were characteristic of periodic rain infiltration and poor drainage. These features included very damp to wet materials and light to very dark gray color mottling or blotching against a brown background. Groundwater was encountered in the deeper soil borings at a depth of approximately 50 feet bgs.

The rock rubble forming the basal layer of pit fill material consisted of large cobble- to boulder-sized pieces of rock with a sand and gravel matrix, and with the exception of borings S-1 and S-2, this layer was free of debris. The rock rubble was observed at depths ranging from 10 feet in boring S1 to 53 feet in boring S4.

In 1965, rock was blasted from the walls of the pit to partially backfill the pit (Pustay, 1992). The closure of the CMP and the other pits in the CMP Area were documented in memorandums by Albert Getz of New Jersey's Mine Safety Bureau, which are provided in Appendix A of this RIR. This process generated the rock rubble layer that was encountered within the CMP at depths of between10 to 53 feet bgs as stated above. Based on the CMP boring logs, the rock rubble layer is estimated to fill more than 75% of the pit.

2.2.2.1 *Soil Boring Sample Analytical Results*

A soil/solid waste sample was collected from each 10-foot core recovered during the advancement of the borings through the fill material in the CMP. Samples for laboratory analysis were collected based on visual appearance and screening for VOCs using a PID. Sample recovery from the cores was close to 100% in unsaturated fill, and averaged 65% in saturated fill material. The sampling intervals are summarized in Table 2; larger sampling intervals are indicative of situations in which poor core recovery necessitated sample collection over a longer core length. Samples were not collected from core recovery of rock rubble.

A total of 31 soil samples were collected and analyzed for VOCs, SVOCs, metals, and PCBs. Analytical results were compared to both the Residential Direct Contact Soil Cleanup Criteria (RDCSCC) and Impact to Groundwater Soil Cleanup Criteria (IGWSCC) and the 2008 NJDEP RDCSRS and IGWDSSL. The analytical results for samples collected within the pit as compared to

the RDCSCC/RDCSRS and the IGWSCC/IGWDSSL are summarized in Tables 3 and 4, respectively.

2.2.2.2 *Comparison of Soil Boring Data to RDCSRS*

As previously stated, Table 3 compares the analytical results to both the previous RDCSSC and the 2008 RDCSRS. In comparison to the RDCSRS, which are in effect as of the date of this revised RIR, the results indicate the following:

- VOCs were not detected at concentrations above their respective RDCSRS
- The SVOC analytical results indicate that two of the 31 samples had SVOC constituents reported at concentrations greater than their respective NJDEP RDCSRS, specifically:
  - Benzo(a)anthracene (1.16 mg/kg), benzo(a)pyrene (0.63 mg/kg), benzo(b)fluoranthene (1.2 mg/kg) and bis(2-Ethylhexyl)phthalate (177 mg/kg) were reported at concentrations above their respective RDCSRS at sample CMI-S2, at a depth of 14.5-15 feet bgs; and
  - Naphthalene and Bis(2-Ethylhexyl)phthalate (367 mg/kg) was also reported at a concentration above its RDCSRS of 35 mg/kg at sample CMI-S4 at depths of 5-5.5 feet bgs and 35-35.5 feet bgs, respectively.
- Pesticide analytical results indicate that Aldrin was reported at a concentration of 0.0465 mg/kg in boring CMI-S4 at a depth of 35.0-35.5 feet bgs, which exceeds the RDCSRS of 0.04 mg/kg.
- PCBs were reported in one sample each from borings CMI-S2 and CMI-S4 at concentrations above its RDCSRS of 0.2 mg/kg, with concentrations of 1.14 mg/kg and 4.01 mg/kg at depths of 14.5-15.0 feet bgs and 35.0-35.5 feet bgs, respectively.
- Of the 23 TAL metals, one or more were detected at concentrations above their respective RDCSRS in 15 of the 31 soil/solid waste samples collected. Metals that were reported above their RDCSRS included antimony, arsenic, lead, and vanadium. Concentrations were not specific to any boring or depth interval, with one or more metals reported in each boring and across various depth intervals within the fill material. Specifically, the data indicate the following:
  - Antimony was reported above its RDCSRS of 31 mg/kg in sample CMI-S3 (39.7 mg/kg) at a depth of 31.5-32.0 feet bgs and at a concentrationof185 mg/kg in boring CMI-S6 at a depth of 36.5-37.0 feet bgs.
  - Arsenic was reported above its RDCSRS of 19 mg/kg with concentrations of 19.6 mg/kg at soil boring CMI-S3 at a depth of 31.5-32.0 bgs, 27 mg/kg at boring CMI-S4 at a depth of 43.5-44.0 feet bgs, and 56.7 mg/kg at boring CMI-S6 at a depth of 36.5-37.0 feet bgs.
  - Lead was reported above its RDCSRS of 400 mg/kg at soil borings CMI-S1 at a depth of 8.5-9.0 feet bgs (1,360 mg/kg), CMI-S2, 14.5-15.0 feet bgs (951 mg/kg), CMI-S3, 31.5-32.0 feet bgs (1,880 mg/kg), CMI-S4, 35.0-35.5 feet bgs (1,010 mg/kg), CMI-S4, 43.5-44.0 feet bgs (1,360

mg/kg), CMI-S4, 51.0-51.5 feet bgs (428 mg/kg), CMI-S5, 26.5-27.0 feet bgs (474 mg/kg), CMI-S5, 45.5-46.0 feet bgs (622 mg/kg), CMI-S6, 36.5-37.0 feet bgs (9,030 mg/kg) and CMI-S6, 41.5-42.0 feet bgs (5,660 mg/kg).

- Vanadium was reported at a concentration above its RDCSRS of 78 mg/kg at soil borings CMI-S1, 3.5-4.0 feet bgs (80.2 mg/kg), CMI-S1, 31.0-31.5 feet bgs (87.5 mg/kg), CMI-S3, 45.5-46.0 feet bgs (98.3 mg/kg), CMI-S5, 45.5-46.0 feet bgs (81.3 mg/kg) and CMI-S6, 61.5-62.0 feet bgs (81.4 mg/kg).

2.2.2.3 *Comparison of Soil Boring Data to IGWDSSL*

As previously stated, Table 4 compares the analytical results to both the previous IGWSCC and the 2008 IGWDSSL. In comparison to the IGWDSSL which are in effect as of the date of this revised RIR, the results indicate the following:

- The VOC analytical results indicate that three of the 31 samples exhibited VOC constituents at a concentration greater than their respective NJDEP IGWDSSL. All three samples were collected at the boring CMI-S4 location shown on Figure 5. Specifically, the data indicate:
  - Chlorobenzene was reported at a concentration of 62.9 mg/kg at a depth of 14.0-14.5 feet bgs, which is above the IGWDSSL of 0.4 mg/kg;
  - Ethylbenzene was reported at a concentration of 333 mg/kg at a depth of 14.0-14.5 feet bgs, which is above the IGWDSSL of 8 mg/kg, and at a concentration of 13.1 mg/kg at a depth of 35.0-35.5 feet bgs;
  - Benzene was reported at concentrations of 0.19 mg/kg, 0.0069 mg/kg, and 0.16 mg/kg at depths of 14.0-14.5, 20-20.5, and 35.0-35.5 feet bgs, respectively, all of which is above the IGWDSSL of 0.005 mg/kg;
  - Toluene was reported at a concentration of 5.09 mg/kg at a depth of 35.0-35.5 feet bgs, which is above the IGWDSSL of 4 mg/kg; and
  - Total xylenes were reported at a concentration of 80 mg/kg at a depth of 35.0-35.5 feet bgs, which is above the IGWDSSL of 12 mg/kg.
- The SVOC analytical results indicate that two PAHs, specifically benzo(a)anthracene and benzo(a)pyrene, were reported at concentrations of 1.16 mg/kg and 0.63, respectively, at the boring CMI-S2 location at a depth of 14.5-15 feet bgs, which exceeds the IGWDSSL of 0.5 mg/kg 0.2 mg/kg, respectively.
- Total PCBs were reported in one soil sample each from borings CMI-S2 and CMI-S4 at concentrations above the IGWDSSL of 0.2 mg/kg, at concentrations of 1.14 mg/kg and 4.01 mg/kg at depths of 14.5-15.0 feet bgs and 35.0-35.5 feet bgs, respectively.
- Of the 23 TAL metals, one or more were reported at concentrations above their respective IGWDSSL in all 31 soil/solid waste samples collected. Metals that were reported above their IGWSCC include aluminum, antimony, arsenic, barium, beryllium, cadmium, lead, manganese, mercury, nickel, silver, thallium and zinc. Concentrations

were not specific to any boring or depth interval, with one or more metals reported in each boring and across various depth intervals within the fill material. Specifically:

- Aluminum was reported at concentrations ranging from 5,301 to 34,300 mg/kg, which is above the IGWDSSL of 3,900 mg/kg in 27 of the 31 soil samples.
- Antimony was reported at concentrations ranging from 6.2 to 18.5 mg/kg, which is above the IGWDSSL of 6 mg/kg in 11 of the 31 soil samples.
- Arsenic was reported at concentrations ranging from 19.6 to 56.7 mg/kg, which is above the IGWDSSL of 19 mg/kg in three of the 31 soil samples.
- Barium was reported in one sample at a concentration of 4,080 mg/kg, which is above the IGWDSSL of 1,300 mg/kg.
- Beryllium was reported at concentrations ranging from 0.51 to 0.77 mg/kg, which is above the IGWDSSL of 0.5 mg/kg in nine of the 31 soil samples.
- Cadmium was reported at concentrations ranging from 1.2 to 60.6 mg/kg, which is above the IGWDSSL of 1 mg/kg in 17 of the 31 soil samples.
- Lead was reported at concentrations ranging from 79 to 9,030 mg/kg, which is above the IGWDSSL of 59 mg/kg in 13 of the 31 soil samples.
- Manganese was reported at concentrations ranging from 137 to 1,110 mg/kg, which is above the IGWDSSL of 42 mg/kg in 29 of the 31 soil samples.
- Mercury was reported at concentrations ranging from 0.12 to 5.9 mg/kg, which is above the IGWDSSL of 0.1 mg/kg.in five of the 31 soil samples.
- Nickel was reported at concentrations ranging from 31.9 to 71.7 mg/kg, which is above the IGWDSSL of 31 mg/kg in 13 of the 31 samples.
- Silver was reported at concentrations ranging from 1.1 to 3.6 mg/kg, which is above the IGWDSSL of 1 mg/kg in three of the 31 samples.
- Thallium was reported in one sample at a concentration of 3.4 mg/kg, which is slightly above the IGWDSSL of 3 mg/kg.
- Zinc was reported at concentrations ranging from 624 to 17,100 mg/kg, which is above the IGWDSSL of 600 mg/kg in 12 of the 31 samples.

2.3 Groundwater Characterization

As part of the CMP RI, ARCADIS conducted a groundwater investigation in the vicinity of the CMP to characterize groundwater occurrence, movement, and quality within fill materials and the adjacent shallow and deeper bedrock. The RI work scope included the following:

- Monitoring well boreholes RW-8, RW-9 and RW-10 were advanced into the bedrock around the perimeter of the CMP from December 10 through 14, 2007 to characterize groundwater quality proximate to the pit. The monitoring well boreholes were then logged with down-hole geophysical tools from March 12 through 13, 2008 to identify potential water bearing fractures in the bedrock. Additionally, soil boring S-5 was converted into monitoring well SC-2 within the CMP.

- A total of 12 packer testing intervals, were selected within boreholes RW-8, RW-9 and RW-10 based on the results of the geophysical data. The intervals were proposed to USEPA in a letter dated June 13, 2008 and are discussed in detail in Section 2.3.3 below. The USEPA approved the packer testing intervals via email on June 17, 2008.

- Packer testing of bedrock monitoring well boreholes RW-8, RW-9, and RW-10 located around the CMP was conducted from July 21 through 31, 2008 to characterize water-bearing fractures identified by the down-hole geophysical survey. Groundwater samples were also collected from the packer intervals. Details regarding the installation of boreholes, the selection of intervals, and the results of packer testing are provided in the following sections.

- Groundwater levels were initially measured and samples were collected from the monitoring wells around the CMP from April 28 through May 5, 2008 to assess the quality of water that is in contact with the fill materials. Groundwater sampling and water level monitoring continued annually and then semi-annually through May 2012 when RI field activities were completed.

- As part of the Supplemental RI for Site-Related Groundwater, a supplemental groundwater investigation was conducted in 2012 that included geochemical and natural tracer studies, flow meter installation, and transducer and surface water staff gauge monitoring within the CMP Area and CM Shaft to further evaluate groundwater occurrence, movement, flow patterns and Pit/Shaft and bedrock interconnectivity. The supplemental RI included:

  - Geochemical studies included sampling and analysis for radioactive and stable isotopes, major cations/anions, and anthropogenic gases. The supplemental RI activities performed within the CMP Area are discussed in Section 2.3.7 of this RIR.
  - Ambient flow measurements using spinner and heat pulse flow meters installed within the CM Shaft in order to measure groundwater flow within the Shaft at depths of 50, 100, and 160 feet bgs. Flow measurements could not be obtained from deeper within the Shaft due to debris obstructing the Shaft. The results of the flow characterization are presented in Section 2.3.7.4 of this RIR.
  - Transducers were installed in several of the key CMP monitoring wells, and groundwater levels were monitored for seven weeks. The scope of this transducer study is further discussed in Sections 2.3.7.8 and 2.4.3 of this RIR.
  - Surface water staff gauges were installed at a location within the Mine Brook and water levels measured manually twice a week for a period of seven weeks. The staff gauge locations are shown in Figure 8 and the surface water elevation data generated by staff gauge monitoring are generally discussed in Section 2.4.3 of this RIR.

2.3.1 Bedrock Borehole Installation

Three bedrock monitoring well boreholes, RW-8, RW-9, and RW-10, were installed at locations adjacent to and down gradient from the pit to investigate groundwater quality and flow direction at

the locations shown on Figure 2. The bedrock borehole locations and installation details were proposed to USEPA in a letter dated August 13, 2007 and approved via e-mail on August 15, 2007. The borehole boring logs are provided in Appendix F.

The boreholes were installed using air rotary drilling techniques. To prevent overburden collapse and storm-water infiltration, a 10-inch secondary steel casing was placed in the boreholes through the overburden to a minimum of 10 feet into the competent rock immediately beneath the overburden fill material whether it was blast rock or refuse. A 6-inch borehole was then advanced through the 10 inch casing to the completion depth. The boreholes were terminated approximately 17 to 45 feet below the fill and rubbish. Continuous cuttings were logged for lithology and field screened via PID, olfactory, and visual methods.

Inspection of the borehole cores indicated that the bedrock was primarily foliated gneiss which is consistent with historic geologic information at the Site. There were no elevated PID readings or odors during advancement of any of the three boreholes. Fractures and lithology changes were documented in the boring logs provided in Appendix F. As shown, there were no apparent transmissive fractures identified during the installation of these three bedrock boreholes. .

2.3.2 Geophysical Investigation

A geophysical investigation was conducted by Vibra-Tech Engineers, Inc. in the vicinity of the CMP Area from July 26 through July 28, 2006 to identify potential subsurface voids in the vicinity of the CMP through the use of geophysical techniques. The geophysical investigation report is provided in Appendix G. The geophysical investigation consisted of an automated electrical resistivity sounding scan and a seismic refraction survey conducted along three investigation lines. These investigation lines were located along an intersecting network of dirt roadways/trails that traverse the location of the CMP and New London Pit Area. In general, the results of the geophysical investigation confirmed the locations of potential voids consistent with the review of aerial photographs and historical literature.

Downhole geophysical surveys were also performed on March 12 and 13, 2008 in each of the three bedrock boreholes RW-8, RW-9, and RW-10. Geophysical logs are provided in Appendix H. The purpose of the geophysical investigation was to identify potential groundwater transmissive fractures for groundwater level monitoring and sampling through packer testing. The geophysical methods utilized included an acoustic televiewer, heat pulse flow meter, caliper, fluid resistivity, fluid temperature, and spontaneous potential.

The geophysical results were used to determine the potential packer testing intervals. Although the caliper and acoustic televiewer logs suggested that a number of fractures may be present in the boreholes, the fluid resistivity and temperature logs, and spontaneous potential readings indicated

that the number of potentially transmissive fractures was small. Moreover, the heat pulse flow meter results indicated that groundwater yield in fractures was very limited. Based on the above, a total of 12 packer test intervals were selected, including three in borehole RW-8, four in borehole RW-9, and five in borehole RW-10. The packer testing is discussed in detail in Section 2.3.3 below.

2.3.3 Packer Testing

Using the down-hole geophysical data, a total of twelve packer testing intervals were selected, including three in borehole RW-8, four in borehole RW-9, and five in borehole RW-10. The 12 selected packer testing intervals are summarized in Table 5. The intervals were proposed to USEPA in a letter dated June 13, 2008 and approved by USEPA in an e-mail on June 17, 2008. The packer testing was performed in July 2008. The purpose of the packer testing was to test targeted water bearing fractures within the boreholes for possible long-term monitoring.

The selected intervals were isolated using packers inflated with nitrogen with pressures up to 300 pounds per square inch (psi). The vertical and horizontal hydraulic gradients were also interpreted within packer testing intervals by monitoring water levels with pressure transducers. Low-flow groundwater sampling of the packer intervals was conducted in July 2008 on 11 of the 12 proposed test intervals because the shallowest interval (22 to 42 feet) in borehole RW-10 did not yield sufficient water for sample collection.

The 11 groundwater samples and a duplicate sample were collected from the bedrock boreholes and analyzed for VOCs, SVOCs, PCBs, and TAL Metals. The groundwater analytical results were compared to the NJDEP GWQS and the USEPA MCLs as further discussed in Section 2.3.6.

2.3.4 Well Installation

2.3.4.1 *Installation of Monitoring Well SC-2*

Following completion of the rotosonic borings within the CMP fill materials, a monitoring well was constructed at boring location S-5 and the well was designated SC-2. The monitoring well was installed to assess the groundwater quality and water table elevation within the pit. Boring logs and monitoring well construction logs are in Appendix F. Well construction information is provided in Table 6.

As shown in Table 6, monitoring well SC-2 was constructed with a 20-foot screen that was installed from 47 to 67 feet bgs based on the groundwater level observed during drilling. The screen is positioned below the solid waste material starting in the sand/silt fill zone and extending approximately 17 feet into the rock rubble zone.

The monitoring well consists of a 2-inch inside diameter, Schedule 40 PVC riser, with 20 feet of screen placed across the water table. Following construction, the monitoring well location and elevation was surveyed by a New Jersey-licensed surveyor.

2.3.4.2 *Installation of Multi-Level Zone Isolation Bedrock Wells*

Because the constituents of concern reported in groundwater at the Site are typically very low in concentration (less than 10 parts per billion) and detected somewhat sporadically, analytical results are sensitive to artifacts potentially being introduced during packer testing. Prior experience has shown that various materials used during packer testing could introduce low concentrations of VOCs and/or phthalates. Additionally, during six groundwater sampling events conducted at the Site, the use of packers was shown to be impractical and inefficient for targeting discrete water bearing fracture intervals in the bedrock.

As a result, ARCADIS conducted a thorough evaluation of commercially available groundwater sampling systems that would allow for monitoring groundwater at multiple discrete and isolated bedrock intervals. Based on the outcome of this evaluation, the Zone Isolation Sampling Technology (ZIST™) with multi-port/multi-level screens was chosen. The ZIST™ wells system dedicates pumps seated in PVC receptacles to purge and sample the isolated zones. The ZIST™ system reduces purging/sampling time as well as cost throughout the life of the project. The simultaneous control unit allows purging and sampling of each different zone at the same time.

In a letter dated December 2, 2009, ARCADIS submitted Well Construction Deviation Requests to the NJDEP's Well Permitting & Regulation Division of Water Supply for approval of the ZIST™ multi-level system installation in the open-rock boreholes at RW-2, RW-4, RW-8, RW-9, and RW-10. The request sought approval for the installation of up to three one-inch casings in the existing 6-inch boreholes. However, NJDEP was opposed to the installation of more than two one-inch wells into an open borehole and additional companion boreholes were needed to add more sampling intervals.

ARCADIS installed the ZIST™ system within bedrock wells RW-2, RW-3, RW-8, RW-8A, RW-9, RW-9A, RW-10, and RW-10A during the period from April 13-29, 2010. The well construction logs are attached in Appendix B. Table 7 summarizes the ZIST™ construction intervals. Note that the ZIST™ wells do not contain transducers and water levels are recorded by undocking the pumps, allowing at least 24 hours for groundwater to equilibrate, and then measuring the depth to groundwater with a water level meter. Water level monitoring, depth to groundwater, and the groundwater flow gradient are discussed in Section 2.3.5 below.

2.3.5 Water Level Monitoring

A water level monitoring program was implemented to evaluate groundwater flow vertically and horizontally within and adjacent to the CMP. As shown on Figures 2, 3 and 4, bedrock outcrops at the surface or is encountered at a depth of less than 10 feet bgs in the area immediately surrounding the pit. Groundwater was not encountered in the discontinuous layer of overburden that occurs in the vicinity of the CMP during the RI activities and, therefore, an overburden groundwater investigation was not warranted or conducted.

Water level monitoring has been conducted on multiple occasions over the course of the RI. The most recent water level monitoring within the CMP Area was during the April/May 2012annual groundwater sampling event. Supplemental water level monitoring was also conducted as part of the Supplemental RI for Site-related Groundwater. A summary of depth to water information generated during the April/May 2012 annual groundwater sampling event is provided in Table 8. Groundwater contours for the April/May 2012 annual monitoring event are shown on Figures 6 and 6A.

Groundwater elevations were calculated and used to construct contour maps for the shallow bedrock during sampling events conducted from 2006 through 2012. The shallow bedrock contour map uses groundwater elevation data that represents first water encountered in the bedrock. Transducer data from the shallowest packer interval within each of the bedrock wells around the mine pit, specifically the 20 ft to 66 ft bgs interval, were used to prepare the shallow bedrock groundwater contours prior to their conversion into ZIST^{TM} monitoring well systems. In addition, groundwater elevations measured using a water level meter from shallow bedrock wells OB-2, OB-3, OB-4, OB-5, OB-12, and OB-13 were also used.

Based on the most recent water level monitoring event conducted in April/May 2012, the depth of first water in the shallow bedrock is between approximately seven to 59 feet below the top of rock. The range in the depth to first water is primarily a function of the ground surface and topographic elevation changes within the CMP Area. Note that evaluation of the groundwater elevation data indicates that the depth to groundwater measured at bedrock well OB-3 and the monitoring well located within the CMP itself, well SC-2, are influenced by surface water flow volumes and this was taken into consideration while constructing the groundwater elevation contours shown in Figures 6 and 6A.

The data indicate that the influence of surface water on groundwater in the CMP Area is due to shallow groundwater discharges to the Mine Brook to the west-southwest and to Peters Mine Brook to the east-southeast. This is broadly reflected in the groundwater elevation contours interpreted over the course of the RI from 2006 through 2012. The volume of water in the surface water bodies typically affects the volume of discharge downstream so that, in the vicinity of the CMP, low volumes

of water in Mine Brook and Peters Mine Brook will increase groundwater discharge from storage in the CMP. Hence, the low groundwater level observed at CMP monitoring well SC-2 during the October 2009 monitoring event when base flow in the brooks was low. The data also indicate that the water level in Mine Brook has some bearing on whether or not artesian conditions are observed at well OB-3 located adjacent to the Mine Brook and southwest of the CMP. The groundwater flow gradient as determined based on monitoring wells installed in the shallow bedrock is discussed in Section 2.4 of this RIR.

Groundwater elevation data from the monitoring wells installed in the deeper bedrock at depths ranging from 185 to 216 feet bgs was also used to construct contours representing the groundwater flow gradient in the deeper bedrock during the April/May 2012 monitoring event. The groundwater contour maps are shown on Figures 6 and 6A. The groundwater flow gradient as determined based on monitoring wells installed in the deeper bedrock is discussed in Section 2.4 of this RIR.

2.3.6 Monitoring Well Sampling

Pursuant to the USEPA-approved Post-Environmental Monitoring Program Sampling Work Plan, approved on August 24, 2004, the August 8, 2006 Work Plan, and the Proposed Supplemental Site-Related Groundwater RI Work Plan (ARCADIS 2012) ARCADIS performed groundwater sampling at monitoring wells located across the Site. The sampling included the recently installed wells located within the CMP Area. Specifically, these wells included well SC-2 located within the CMP and shallow bedrock and deeper bedrock wells at locations RW-8 at (42 ft to 62 ft bgs), RW-8 at (158 ft to178 ft bgs), RW-8 at (199 ft to219 ft bgs), RW-9 at (20 ft to 40 ft bgs), RW-9 at (80 ft to100 ft bgs), and RW-9 at (134 ft to154 ft bgs), and RW-10 at (46 ft to 66 ft bgs), RW-10 at (70 ft to 90 ft bgs), RW-10 at (115 ft to 135 ft bgs) and RW-10 at (180 ft to 201 ft bgs).

ARCADIS collected groundwater samples from each well using the groundwater sampling and analytical procedures documented in the Quality Assurance Project Plan (QAPP). As specified in the Post-Environmental Monitoring Program Sampling Work Plan, each sample was analyzed for TAL inorganic compounds, Target Compound List (TCL) organic constituents, and major anions, including chloride, sulfate, carbonate and bicarbonate, nitrate and phosphate. The samples were analyzed at Accutest Laboratories in Dayton, NJ using the following SW-846 methodology as described in the USEPA-approved QAPP (May 2004):

- TCL VOCs – USEPA Method 8260B
- TCL Semi-VOCs – USEPA Method 8270C
- TAL Metals – USEPA Methods 6010B/7470A

As approved by the USEPA, pesticides were deleted from the analytical protocols for routine groundwater sampling since they have not been detected in groundwater at the Site. Both unfiltered (total metals) groundwater samples and filtered samples (dissolved metals) were analyzed. All sample results were reviewed and validated in accordance with the QAPP. Validation qualifiers and comments were added to the data tables as appropriate. No data were invalidated.

The groundwater field sampling parameters for monitoring wells are provided in Table 9. Groundwater sampling logs are provided within Appendix G.

2.3.7 Supplemental 2012 Investigation Activities

Supplemental groundwater and surface water investigation activities were conducted in April through August 2012 in accordance with the Proposed Supplemental Site-Related Groundwater RI Work Plan (ARCADIS 2012) and in response to correspondence between the USEPA and Ford regarding an expanded environmental tracer study in the vicinity of the PMP and the CMP. The USEPA approved the supplemental Work Plan in their August 15, 2012 correspondence.

The purpose of the supplemental RI activities was to further characterize the groundwater flow pathways and connectivity between bedrock, overburden, surface water, and mine shafts to further develop the CSM for the Site. The analytical results were used to estimate the age of groundwater, evaluate the origin of groundwater, and evaluate groundwater flow, and constituent migration, and discharge pathways as part of the overall assessment of groundwater and surface water occurrence, movement and connectivity in the CMP Area.

Samples were collected from the CM Shaft, the SC-02 angled well and key CMP Area bedrock monitoring wells and surface water locations across the CMP Area monitoring network. The sample locations for the CMP are shown on Figure 7 and the analytical program is described in Table 10. Groundwater and surface water samples were collected from each sample location using the sampling and analytical procedures documented in the May 2004 and June 2009 project-specific QAPP. Sampling procedures not included in the QAPP and analytical methods that differed from those established in the QAPP are summarized below.

The analytical suite included key geochemical parameters, radioactive and stable environmental isotopes, and anthropogenic gases and the parameters are summarized in Table 11. The following subsections describe each component of the supplemental RI groundwater and surface water sampling and analytical program.

2.3.7.1 *Carbon-14 (14C) and Tritium*

One liter of water was collected with no headspace for the analysis of carbon-14 (^{14}C) and tritium. Care was taken to avoid exposure of samples to fluorescent displays, and bottles were flushed with sample water prior to filling. Samples were shipped at ambient temperature in coolers according to standard chain-of-custody procedures. Samples were analyzed for ^{14}C and tritium content at the Isotope Tracer Technologies, Inc. laboratory located in Waterloo, Ontario, Canada using accelerator mass spectrometry (AMS) radiocarbon dating and Method TP 1.0 Rev.02, respectively.

2.3.7.2 *Radon-222*

Samples for radon-222 (^{222}Rn) analysis were collected in three 40 mL glass vials with Teflon-lined septa and were shipped at ambient temperature in coolers according to standard chain-of-custody procedures. Samples were analyzed for ^{222}Rn content at the ALS Environmental Laboratory located in Fort Collins, Colorado using Method SM7500-RNB.

2.3.7.3 *Stable Oxygen and Hydrogen Isotopes of Water*

Samples for analysis of stable oxygen and hydrogen isotopic composition of water were collected into 30 milliliter (mL) high density polyethylene bottles with no headspace. Samples were shipped at ambient temperature in coolers according to standard chain-of-custody procedures. Samples were analyzed for stable oxygen and hydrogen isotopic composition at the Isotope Tracer Technologies, Inc. laboratory on a Picarro cavity ring down spectroscopy analyzer.

2.3.7.4 *Chlorofluorocarbons*

CFC samples were collected according to the procedures provided by the USGS Reston Chlorofluorocarbon Laboratory. Bottles and caps were thoroughly rinsed with sample water prior to filling. Dedicated tubing was used for each sample location. Four CFC samples were collected per location into Boston round clear glass bottles (125 mL) with aluminum-lined caps and no headspace. Bottles were filled and capped underwater in a 4 L beaker after at least 2 to 3L of water were allowed to flow through the bottle and out of the beaker. Caps were secured using black electrical tape, and samples were stored and shipped inverted to the University of Utah Dissolved and Noble Gas Lab located in Salt Lake City, Utah.

Samples were analyzed for CFCs using Method GCE23, which includes purge-and-trap gas chromatography with an electron capture detector. The CFC data were corrected for salinity, recharge elevation, and recharge temperature using a standard calculation tool provided by the laboratory.

2.3.7.5 *Sulfur Hexafluoride*

SF_6 samples were collected in two 1 L plastic safety-coated amber glass bottles with polyseal cone-lined caps. The pump tubing was placed at the bottom of the 1 L bottle and allowed to fill and overflow such that approximately 3 L of the water to be sampled flowed through the bottle. The tubing was slowly removed from the bottle while the water was flowing, and the bottle was capped tightly without any headspace. Caps were secured to the bottle using tape. The bottles were placed in a cooler and shipped at ambient temperatures according to standard chain-of-custody procedures to the University of Utah Dissolved and Noble Gas Laboratory located in Salt Lake City, Utah.

Samples were analyzed for SF_6 using vacuum extraction gas chromatography on Shimadzu GC8a gas chromatograph with an electron capture detector. The SF_6 data were corrected for salinity, recharge elevation, recharge temperature, headspace losses, and excess air using a standard calculation tool provided by the laboratory.

2.3.7.6 *Geochemical Parameters*

Geochemical samples were collected from monitoring wells and the CM Shaft using standard low-flow groundwater collection methods. The samples were collected into a variety of vessels for the analytical parameters described below. Samples were shipped on ice according to standard chain of custody procedures. Samples were analyzed at Accutest Laboratories in Dayton, New Jersey, using the SW-846 methodology as described in the USEPA-approved QAPP (ARCADIS 2004b). The geochemical analytical suite included the following:

- Calcium, potassium, magnesium, and sodium using USEPA Method 6010B
- Total and dissolved iron and manganese using USEPA Method 6010B
- Sulfate and chloride using USEPA Method 300 and SW846 Method 9056A
- Nitrate using USEPA Method 353.2
- Alkalinity using SM20 Methods 4500CO2D and 2320B
- Fluoride using USEPA Method 300 and SW846 Method 9056A
- Silica using USEPA Method 6010B
- Benzene using SW846 Method 8260B
- TOC using SM20 Methods 5310B and 9060 M
- Total phosphorus using USEPA Method 365.3

- Methane and carbon dioxide using Method RSK-175

In addition, general field parameters, including pH, conductivity, DO, ORP (as Eh), and TDS, were measured prior to sample collection.

Major ion concentrations, including calcium, sodium, potassium, magnesium, chloride, sulfate, and bicarbonate, were evaluated using Piper and Stiff diagrams to display different water types and assist in determining patterns in the data which can be evidence of potential connections between different water sources. The Piper and Stiff diagrams were assessed for potential similarities, or absence thereof, between groundwater in the CMP, the CM Shaft, the down gradient bedrock wells, and the adjacent surface waters. Piper and Stiff diagrams for the CMP Area are provided on Figures 8 and 9. Based on the major ion data, the dominant water type for each monitoring location was also determined and these data are summarized in Table12 of this RIR.

2.3.7.7 *Ambient Flow Characterization*

Ambient flow measurements were collected within the CM Shaft in an effort to determine groundwater flow within the Shaft under existing conditions at the Site. Geophysical Applications, Inc. performed the logging suite in May 2012, which included the following fluid-property logs: fluid temperature (F_{Temp}), fluid conductivity (F_{Cond}), dissolved oxygen (O_2), pH, and ORP (redox). Variations in these fluid properties may represent hydraulically active zones. Spinner and heat-pulse flowmeter probes were also used within the CM Shaft. A copy of the final flow measurement report will be included in the Site-Related Groundwater RIR which will be submitted under separate cover.

Flow measurements within the CM Shaft were limited to the top 170 feet bgs due to debris and obstructions within the Shaft. Discrete flow characterization intervals were limited to 50, 100, and 160 feet bgs.

2.3.7.8 *Transducer and Surface Water Measuring Stations*

As part of the supplemental 2012 RI activities, continuous water level data were collected using pressure transducers installed in wells screened at various depths within the bedrock and within the CM Shaft in the CMP Area. These water level data were used to assess horizontal and vertical hydraulic gradients, the effect of precipitation on observed water levels, and connectivity between the groundwater within the CMP, the bedrock, the CM Shaft, and surface water.

Within the CMP Area, pressure transducers were installed at key monitoring well locations and within the CM Shaft to monitor and document the fluctuation of groundwater levels over the course of the Supplemental Groundwater RI activities. Pressure transducers were installed in six deeper bedrock wells (RW-1(64-74), RW-1(131-141), RW-2(279-289), RW-2(452-462), RW-8(163-173),

RW-8(204-214)), five shallow bedrock wells (OB-1, OB-2, OB-3, OB-4, and OB-5), the CMP (SC-2), as well as the CM Shaft. Water levels were monitored from June 21 through August 17, 2012.

In addition, a surface water gauging station was installed within Mine Brook at location SW/SD-MRB-01 shown in Figure 8. The surface water elevation measuring stations consist of land-based surveyed pins from which water levels were measured with staff gauges. Synoptic surface water levels were manually measured at the gauging station twice per week for the duration of the supplemental RI activities. The surface water data are summarized in Table 13. Water levels were converted to surface water and groundwater elevations by referencing measured elevations of gauge tops and tops of well casings to allow for direct comparison. Daily precipitation totals measured at the Ringwood, New Jersey Remote Automatic Weather Station were compiled to assess recharge dynamics in groundwater and surface water. These data were used in lieu of site-specific rain gauges because they represent daily precipitation totals, where the rain gauges were visited less frequently and only provide the total precipitation between site visits.

The surface water elevation data were used in conjunction with the groundwater elevation data from key monitoring wells and the CM Shaft generated during the pressure transducer study to evaluate groundwater to surface water discharge patterns and pathways, as further discussed below in Section 2.4.

2.4 CMP Area Investigation Results

2.4.1 Horizontal Groundwater Flow

Groundwater contours for the April/May 2012 monitoring event are shown on Figures 6 and 6A. As shown on Figure 6, contours of equal groundwater elevation for the shallow bedrock wells were developed from the measured depth to groundwater data and, overall, indicate that the groundwater flow gradient within the shallow bedrock east of the CMP is generally to the southeast. To the west of the CMP, the shallow bedrock flow gradient is generally to the southwest.

The groundwater elevation data indicate a localized flow gradient towards the CMP in the shallow bedrock surrounding the pit with the exception of the area directly west of the pit. To the west of the pit, the groundwater elevation data indicate that flow is from the pit through the shallow bedrock to the west towards shallow bedrock monitoring well OB-3. As previously stated, groundwater was not encountered in the thin layer of overburden in the vicinity of the CMP therefore there are no overburden monitoring wells within the CMP Area.

As also shown on Figure 6A, the groundwater flow gradient in the deeper bedrock based on the April/May 2012 monitoring event is to the southwest in the area south of the CMP. This flow gradient is generally consistent with previous monitoring events from 2006 through 2011.

2.4.2 Vertical Groundwater Flow

Based on the groundwater level measurements from the packer testing conducted in 2008 at bedrock wells RW-8, RW-9 and RW-10, the data indicate that vertical gradients are slight or non-existent. The maximum hydraulic gradients calculated from water elevation data are 0.002 ft/ft in well RW-8, 0.061 ft/ft in well RW-9, and 0.019 ft/ft in well RW-10. The heat pulse flow meter results for these bedrock wells indicate a slight (<0.1 gpm) upward flow throughout each borehole from a depth of 20 to 221 ft. bgs, with the exception of a slight (<0.1 gpm) downward flow documented within well RW-10 at a depth of 28 ft bgs.

2.4.3 Evaluation of Groundwater Recharge

The shallowest groundwater intervals within bedrock boreholes RW-8 and RW-9, specifically 47 to 57 ft bgs and 25 to 35 ft bgs, were initially dry on July 21 and 23, 2008 during the first attempt to sample groundwater. There was approximately 3.52 inches of rain recorded between July 21 and July 30, 2008. On July 25, 2008, water levels were measured again and an increase in the depth to groundwater of approximately 3 feet was documented in well RW-8 and over 18 feet in well RW-9. The increase in depth to groundwater at all other CMP well locations (including wells RW-10, SC-2, OB-2, and OB-12) was minimal. Following this precipitation event, the shallow monitoring intervals within wells RW-8 and RW-9 had sufficient groundwater yield for sample collection, which occurred on July 30 and July 31, 2008.

The documented response of bedrock wells RW-8 and RW-9 to the significant rainfall event that occurred between July 21 and July 30, 2008 reflects that recharge is occurring in close proximity to these wells and that there is minimal storage of groundwater in the shallower portions of bedrock monitored by these wells. The relationship between groundwater and precipitation events in key monitoring wells in the CMP and PMP Areas was further evaluated as part of the Supplemental Site-Related Groundwater RI Workplan implemented in 2012 as further discussed in Section 2.4.3 below.

2.4.4 Transducer and Surface Water Elevation Results

In the vicinity of the CMP, an upward vertical gradient was observed for OB-1 and the RW-1 well cluster (Figure 7). The water level of the CM Shaft was approximately 8 feet higher than the water level at the nearest shallow bedrock well location, OB-4,indicating an upward hydraulic gradient from deeper bedrock to shallow bedrock. Downward vertical gradients were observed for groundwater in the vicinity of the CMP from wells OB-2 and RW-8S (163-173) towards well SC-2 suggesting that mine workings in the CMP Area act as groundwater drains.

The CM Shaft is completed to a total depth of at least 380 feet, where previous inspections were stopped due to shaft blockage. Within the CMP Area, the CMP, and the CM Shaft are connected by tunnels and underground workings. Groundwater levels in the CMP at well SC-2 were typically greater than 4 feet higher in elevation than in the CM Shaft.

Horizontal hydraulic gradients were calculated for wells screened at similar depths within a given hydrologic unit. The horizontal hydraulic gradient between wells OB-4 and OB-5 in the CMP Area was 0.09 ft/ft toward the southeast, suggesting shallow bedrock groundwater discharges to Mine Brook. The topographic surface gradient between these two wells is 0.13 ft/ft, consistent with the calculated hydraulic gradient. The CMP Area is situated on a ridge and, based on measured groundwater and surface water elevations, the data indicate that groundwater in the CMP Area flows towards and ultimately discharges to Mine Brook. The data indicate that the hydraulic connection between groundwater in the shallower portions of the bedrock and the deep regional bedrock is not as strong in the CMP Area as was observed within the Peters Mine Pit Area during the supplemental 2012 investigation.

2.4.5 Groundwater Analytical Results

Bedrock Groundwater Analytical Results

The results of the CMP Area monitoring wells sampled as part of the April 2012 Site-Wide Groundwater Sampling event in comparison to their respective NJDEP GWQS are summarized in Table 14. The analytical results of recent monitoring are consistent with those of previous monitoring events conducted during the period from 2006 through 2011. The analytical results of sampling conducted during the period from 2006 through 2012 are provided in Table 15 and are shown on Figure 10.

Specifically, the data indicate the following:

- With respect to VOCs, benzene was reported during sampling conducted on packer test intervals in open bedrock boreholes during July 2008, which is believed to have been a result of improper sampling methods[1].

[1] These apparent anomalous results were further evaluated by collecting field blanks from materials used during the packer testing of the boreholes, including the packers themselves. This issue was previously evaluated and explained in the Site-related Groundwater Sampling Technical Memorandum dated September 28, 2009. An excerpt from that Memorandum is reiterated as follows:

"All sample results were reviewed and validated by ARCADIS in accordance with the QAPP. Validation qualifiers and comments were added to the data tables as appropriate. No data that included detected target compounds were invalidated. Bis(2-ethylhexyl)phthalate was detected in field blanks PFB (070109), PFB (070209), and PFB (071409) (field blank water in

- As detailed in the footnote provided in this Section, benzene was reported in monitoring well borehole RW-9 at concentrations of 7µg/L and 1.5 µg/L in samples obtained from the 20-40 ft and 201-221 ft depth intervals, respectively, during sampling conducted during July 2008.
  - Benzene was not reported in groundwater samples collected from monitoring well boreholes RW-8 and RW-10 during the same monitoring event.
  - Benzene was not detected in groundwater samples collected from any of the monitoring wells within the vicinity of the CMP Area during subsequent sampling events conducted between 2009 and 2012 thus confirming that the benzene reported in July 2008 was anomalous and not reflective of groundwater quality.
- Trichloroethene was reported in groundwater at the monitoring well OB-3 location at a concentration of 13.7 µg/l during the September 2008 sampling event, and at a concentration of 2.1 µg/l during the October 2009 sampling event but has not been reported in subsequent monitoring events, including the most recent April/May 2012 event.
- With the exception of the aforementioned sporadic benzene and trichloroethene exceedances, VOCs have not been detected in groundwater within any of the shallow or deeper bedrock monitoring wells at concentrations greater than the NJDEP GWQS or the USEPA MCLs.
- As shown in Tables 14 and 15, with the exception of sporadic concentrations of bis(2-ethylhexyl)phthalate, and low-level concentrations of the PAHs (benzo(a)anthracene and

---

contact with inflatable packers) at concentrations of 2.1 micrograms per liter (µg/L), 2.7 µg/L, and 1.4 µg/L, respectively. These sample results may be influencing sporadic detections of low concentrations of the semi-volatile organic compound in samples collected from bedrock wells where packers were used as part of the groundwater sample collection process.

Table 6 provides a comparison of benzene, ethylbenzene, toluene, xylenes (BTEX), and bis(2-ethylhexyl)phthalate concentrations from sampling events during the April 2007, April and September 2008 as well as the current event. The current groundwater sampling event (July 2009) analytical results showed no packer intervals had detectable benzene concentrations present (reporting limits below the GWQS).

These results clearly show that the black electrical-type tape previously used contains sufficient leachable quantities of BTEX compounds to have caused the observed anomalous results during the October 2008 sampling event. Moreover, blank testing of new (decontaminated prior to use) packers indicated that packers could be a source of trace concentrations of toluene and xylenes, especially given that only very low purge rates are possible at many of the sampling intervals. Additional training has been provided to sampling personnel and future groundwater sampling events will only use project approved sampling equipment to minimize potential for cross contamination.

Table 7 provides analytical results (BTEX and phthalates) for field blank samples collected during packer testing for the October 2008 and July 2009 groundwater sampling events.

When combined; the fact that benzene was not detected and toluene, ethylbenzene, and xylenes were not detected or detected at only trace concentrations in July 2009 and that BTEX was historically detected in blank water that was in contact with the electrical tape; it is apparent that the observed previous detections were artifacts introduced by the packer assemblies during sample collection."

Since the implementation of new procedures to insure the use of proper materials during packer testing anomalous detections of BTEX have not occurred. Furthermore, the introduction of the ZIST wells has resulted in the elimination of anomalous detections of BTEX and bis-2-ethylhexyl phthalate.

benzo(b)fluoranthene) detected at monitoring well SC-02 in April 2011, SVOCs were not reported at concentrations that exceeded the NJDEP GWQS or the USEPA MCLs during sampling conducted during the period from 2008 through 2012.

  - Bis(2-Ethylhexyl)phthalate was reported in groundwater at each of the three bedrock well locations, RW-8, RW-9, and RW-10, and in six of the eleven packer intervals during the October 2008 sampling event at concentrations that met or exceeded the GWQS; however, it was also detected in two of the three field blank samples at concentrations that exceed the GWQS during that same event. The data indicate that the bis(2-Ethylhexyl)phthalate reflects effects of testing materials such as transducer cable and packers and therefore is not representative of actual groundwater quality.
  - This was confirmed by the findings of subsequent rounds of sampling from 2009 to 2012 which indicate that bis(2-Ethylhexyl)phthalate is not reported above detection or above its GWQS.

- With respect to the TAL Metals, total metal concentrations above the GWQS were limited to aluminum, arsenic, iron, lead, manganese, and zinc which were reported in unfiltered samples as summarized in Table 15. In filtered samples, the data indicate dissolved metal concentrations were below their respective GWQS with the exception of arsenic, manganese, and zinc; however, the reported dissolved concentrations are generally consistent with the concentrations reported in groundwater at upgradient, background well locations.

- With respect to the most recent April/May 2012 groundwater sampling event, the data indicate concentrations of total arsenic, iron, manganese and sodium reported above their respective GWQS. Specifically:

  - Arsenic was reported at concentrations slightly above its 3 µg/l GWQS at bedrock well RW-10 at depths of 120-130 feet and 189-195 feet bgs at estimated concentrations of 3.7 µg/l and 3.6 µg/l, respectively.

    - Iron was reported at concentrations above the 300 µg/L GWQS at wells OB-3, OB-4, OB-5, RW-9 (206-216) and SC-2 at concentrations of 819 µg/l, 15,700 µg/l, 59,000 µg/l, 60,800 µg/l, 535 µg/l, and 1,660 µg/l, respectively.
    - Concentrations of manganese were reported above its 50 µg/L GWQS at wells OB-4, OB-5, RW-9 (206-216) and SC-2 at concentrations of 1,300 µg/l, 1,850 µg/l, 183 µg/l, and 219 µg/l, respectively.
    - Sodium was reported at concentrations above the 50,000 µg/l GWQS at wells OB-4, RW-2 (279-289), RW-2 (452-462), RW-8(163-173), RW-9 (206-216), RW-10 (185-195) and RW-10 (120-130) at concentrations of 94,900 µg/l, 122,000 µg/l, 373,000 µg/l, 59,900 µg/l, 116,00 µg/l, 61,500 µg/l, and 82,700 µg/l, respectively.
    - Lead was not reported at a concentration above the NJDEP GWQS of 5 µg/L.

2.4.6 CMP Groundwater Geochemical Results

Results of the geochemical tracer study indicated the following with respect to the CMP Area:

- There is more overlap in the $d^{18}O$ and dD values for bedrock, the CMP, and the CMP Mine Shaft than observed for groundwater within the PMP Area. This suggests potential hydraulic communication between many of the groundwater monitoring locations within the CMP Area;
- CFC-12 concentrations for most samples exceeded the maximum atmospheric concentration with concentrations generally decreasing with distance from well SC-02 located within the Pit; the highest CFC-12 concentration is in groundwater at well OB-2 located at the edge of the Pit;
- CFC-12 was also reported in CM Mine Shaft groundwater samples at concentrations well above the atmospheric maximum;
- The major cation/anion data indicate no significant similarity between the geochemical signature of groundwater within the CMP Mine Shaft, the CMP, and the surrounding overburden and bedrock monitoring wells.
  - For example, elevated dissolved iron and manganese are only reported in the CM Shaft and two monitoring wells located in the vicinity of the Borough Municipal Landfill where moderately to strongly reducing groundwater conditions occur.
  - Since fill materials within the CMP are not in direct contact with groundwater, the data indicates that they do not impose an overriding geochemical "signature" on the groundwater. The variability in the cation/anion composition of groundwater within and downgradient of the CMP is likely reflective of the differential geochemical patterns based on the native bedrock and other mine workings and pits located downgradient and in the vicinity of the CMP monitoring network.

2.5 Cannon Mine Shaft Investigation

Based on historic records, the CM Shaft was utilized for several purposes, including ventilation of the mine and movement of equipment and personnel utilizing a hydraulically-operated elevator, the remnants of which remain within the shaft. ARCADIS conducted a series of investigations within the Shaft during 2010 and 2012, and the results of these investigations are outlined below.

2.5.1 Cannon Mine Video Investigation

ARCADIS uncovered the cap to the CMP shaft for the purposes of conducting a video inspection on March 16, 2010. The cap over the CM Shaft was located approximately three feet below the ground surface and measured approximately 18 feet in length by eight feet in width. The cap was constructed of a 4-inch thick chain-linked reinforced concrete slab supported by railroad rails placed 8 to 10 inches apart over the shaft opening. A 6-inch steel riser pipe, visible at the ground surface, penetrated the concrete cover and continued into the water beneath the cover. The pipe appeared to be supported on two sides by angle iron laid on top of the rails. The pipe was approximately 30 feet long, and swung freely in the water below (approximately 6 feet below the cap).

A visual inspection of the cap indicated that it was in poor condition. The concrete appeared to be heavily oxidized, and broke easily at the edges. There were also numerous holes in the cap. The largest hole was located adjacent to the 6-inch steel pipe.

Subsequent to exposing the shaft cap, ARCADIS and Royal Environmental placed plywood sheeting over the concrete to minimize the potential hazard associated with the physical condition of the cap and the Borough of Ringwood erected chain link fencing around the area to limit access

A down-hole video log of CMP shaft was conducted on April 22-23, 2010. ARCADIS used a Geovision Model #GVJR H-D M2 camera to perform the down-hole video work in the shaft. The Geovision camera was equipped with a high-resolution, low-light black and white lens, and fitted with auxiliary LED Lighting for use in an underwater environment. The camera was supported on a "pipe string" constructed of 1-inch steel rods to allow rotation of the camera at various depths. Due to the weight of the rods, ARCADIS subcontracted with Summit Drilling to provide labor and equipment to attach the rods in 20-foot lengths and lower pipe string into the shaft. Video was fed to a television equipped with an integrated VCR to allow simultaneous viewing and recording of features within the shaft.

Prior to surveying the shaft, Summit drilling removed the 6-inch riser pipe to provide additional clearance. ARCADIS then lowered the camera into the shaft through the hole in the cap located at the former riser pipe. This hole was near the center of the shaft, but biased slightly toward the shaft wall facing the CMP. It was not possible to lower the camera through the cap at any other location. Where possible, a 360-degree pan was performed at approximately 50-foot intervals during the descent. The findings of the video inspection are discussed in Section 2.6 below.

A log of the video obtained during this work is attached as Table 16. As indicated in this table, ARCADIS was able to reach a total depth of approximately 379 feet within the shaft. The depth to groundwater as measured in the shaft was approximately six feet below the concrete cap surface. Groundwater within the shaft appeared clear throughout; however, cables and other debris within the shaft associated with historic elevator equipment were coated with grease that smeared onto the camera and cable upon removal. Based on the lack of movement of suspended particles within the water column, little or no water movement was detected throughout the decent to the base of the shaft suggesting that the water within the shaft is stagnant.

Based on review of the video conducted within the shaft, ARCADIS has drawn the following conclusions:

- There was no indication of paint sludge or Ford-related debris within the shaft or water column;

- The total accessible depth of the shaft was limited by steel and cable debris to a depth of approximately 379 feet below the water surface, or approximately 385 feet below the top of the concrete collar around the shaft. Note that, based on P.E. Hotz's Geological Survey Bulletin 982-F (USGS 1952) the total reported depth of the shaft is approximately 506 feet);
- The shaft appears to be lined with concrete across the entire cross section. Wood cribbing was observed at several locations within the concrete;
- The shaft contained numerous obstructions, increasing with depth, including a steel cable, piping, wood beams, and other debris, which is likely associated with the former elevator operations within the shaft;
- Only one distinct horizontal tunnel was identified within the shaft. The tunnel was visible within the southwestern wall within a depth interval of approximately 115 to136 ft as determined based on the presence of support beams and a shelf at the base of the tunnel. This tunnel was encountered at a shallower depth than either of the tunnels identified in the literature which were reported to range from 205-273 ft bgs and 305-373 ft bgs, respectively see Hotz, USGS Bulletin 982-F, 1952); however, support beams and ledges observed within these depth intervals may correspond to the presence of the former tunnels (See log intervals 220 to 255 ft and 318 ft in Table 27);
- Silty sediment and leafy debris were observed throughout the water column, and on ledges at several depths along the wall of the shaft;
- No water movement was observed within the shaft; and
- The lowest accessible point in the shaft was approximately 379 feet at which point the shaft was obstructed with cable and other debris that is likely associated with the base of the former hoist apparatus.

2.5.2 Ambient Flow Monitoring within the Cannon Mine Shaft

Ambient flow was measured within the CM Shaft as part of the 2012 supplemental investigation in an effort to determine groundwater flow within the Shaft under existing conditions at the Site. Geophysical Applications, Inc, performed the logging suite in May 2012, which included the following fluid-property logs: fluid temperature (F_{Temp}), fluid conductivity (F_{Cond}), dissolved oxygen (O_2), pH, and ORP (redox). Variations in these fluid properties may represent hydraulically active zones. Spinner and heat-pulse flowmeter probes were also used. A copy of the final flow measurement report will be included in the Site-Related Groundwater RIR which will be submitted under separate cover.

Flow measurements within the Shaft were limited to the top 170 feet bgs due to debris and obstructions within the shaft. Discrete flow characterization intervals were limited to 50, 100, and 160 feet bgs.

Ambient flow measurements collected within the Shaft using the heat pulse flowmeter identified an upward ambient flow originating at a depth of greater than 177 feet, and a potential upward flow increasing between depths of 50 to 60 feet, 110 to 130 feet, 130 to 140 feet, and 140 to 170 feet. The largest increase in the upward ambient flow was observed at a depth of between 70 and 100 feet. Similar to findings within the PMP Air Shaft, the spinner flowmeter observations at discrete depths within the Shaft of 50, 60, 70, 100, 110, 130, 140, 160, 175, and 177 feet reported no flow above instrument detection limits.

2.5.3 Groundwater Sampling within the Cannon Mine Shaft

ARCADIS collected groundwater samples from the CM Shaft during the period from May 7 through May 9, 2012. Samples were collected from depths within the Shaft of 50 feet, 100 feet, 160 feet and 275 feet below the top of the Shaft. Sampling equipment could not be lowered further due to obstructions within the Shaft.

All samples were submitted to Accutest Laboratories in Dayton, New Jersey and analyzed in accordance with the approved August 8, 2006 Groundwater Sampling Work Plan (pursuant to the USEPA's April 7, 2006 request, and the requested modifications approved by USEPA's May 7, 2009 letter), for the following suite of compounds:

- TCL VOCs – USEPA Method 8260B
- TCL Semi-VOCs – USEPA Method 8270C
- TAL Metals – USEPA Methods 6010B/7470A
- PCBs – USEPA Method 8082
- Alkalinity, total (as CaCO3) – USEPA Method SM20 2320B
- Chloride – USEPA Methods 300/9056
- Sulfate – USEPA Methods 300/9056

The CM Shaft groundwater analytical results are summarized in Table 14 and indicate the following:

- No VOCs, SVOCs or PCBs were detected in any of the groundwater samples.

- For total (unfiltered) TAL metals, only iron, manganese, sodium and zinc were reported at a concentration above their respective NJDEP GWQS. Note that neither arsenic nor lead was detected in any of the samples collected from within the CM Shaft.

3 Nature and Extent of Contamination

This section of the RIR provides a description of the nature and extent of impacts in the CMP. Analytical results generated during the RI for the CMP were used to assess the nature and extent of any impacts at the Site and are discussed in previous sections of this report, and summarized in Tables 1 through 15. The locations of sampling points, soil borings, test pits, test trenches and monitoring wells are shown on Figure 2 and the results of the RI for the CMP Area are shown on Figures 3 through 11.

3.1 Constituents of Concern and Sources

Constituents of concern were not consistently reported within the CMP Area in fill materials or in groundwater. The fill analytical results are discussed in detail in Section 2.2.3 and the groundwater analytical results are discussed in Section 2.4.4 of this RIR. Several drums were encountered within the fill material and are also discussed below.

Drums

Several drums removed from the CMP during the excavation of test pits contained PCB Aroclors 1242 and 1260 at concentrations above the Total PCB RDCSRS of 0.2 mg/kg; however, these same Arochlors were not reported in samples obtained from fill material in soil borings within the pit. Three of the drums removed from the pit also contained barium or lead at concentrations that exceeded the criteria for characterization as a hazardous waste when analyzed via the Toxicity Characteristic Leachate procedure (TCLP).

Fill (Surface and Subsurface)

With respect to surface soil quality, the results of the RI indicate no VOCs, SVOCs, PCBs, or metals at concentrations above their respective RDCSRS.

With respect to soil borings conducted within the CMP, there were no VOCs reported above their respective RDCSRS, however, several SVOCs were reported, including benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, bis(2-ethylhexyl)phthalate, chlorobenzene, ethylbenzene and PCBs. Antimony, arsenic, lead, and vanadium were also detected sporadically at concentrations above the RDCSRS. Each of these constituents was detected randomly, rather than in a consistent pattern, and at concentrations only moderately above NJDEP RDCSRS. This is

indicative of isolated, low-level impacts associated with heterogeneous fill of the type placed within the CMP.

Subsurface Soil (Blast material)

Blast material samples collected from the soil borings that consisted of fine sand to cobble-sized particles did not have VOCs, SVOCs, PCBs or metals detected above NJDEP soil standards.

Groundwater

As with fill materials, constituents of concern have not been detected on a consistent basis in groundwater within the CMP Area. The results indicate the following:

- Benzene was the only VOC reported in groundwater within several packer test intervals within well RW-9 during sampling conducted in July 2008; however, the data indicate that it was a result of improper sampling techniques. This is confirmed by the fact that benzene has not been detected in groundwater at well RW-9 or any other well location in subsequent sampling conducted in 2009 through 2012 after completion of the open borehole as a screened well.
- TCE was the only VOC reported in groundwater samples collected from monitoring wells within the CMP. Specifically, TCE was detected at concentrations above the GWQS at monitoring well OB-3 during the September 2008 and October 2009 sampling events. TCE was not detected in groundwater samples collected at OB-03 during the May 2011 or April 2012 sampling events.
- Bis(2-ethylhexyl)phthalate was also detected during the same sampling event within all wells in the CM Area at concentrations above GWQS and has not been reported in subsequent annual sampling events from 2009 through 2012.
- There were no pesticides or PCBs reported in groundwater at any well location during any of the sampling events within the CMP.
- With respect to TAL Metals, total (unfiltered) aluminum, arsenic, iron, manganese, and lead have been reported sporadically in groundwater at bedrock wells in the CMP Area at concentrations above their respective GWQS. With the exception of some of these exceedances, groundwater is generally consistent with upgradient, background groundwater quality.

4 Conceptual Site Model

4.1 Exposure Setting

The Site background is briefly discussed above in Section 1.1. The Site is located along the northern side of Margaret King Avenue about a half a mile west of Sloatsburg Road in the Borough of Ringwood, Passaic County, New Jersey. Figure 1 shows the location of the Site and Figure 2 presents the CMP Area sampling locations. The Site is bordered on the south by Mine Brook, which flows south of Margaret King Avenue, on the east by the utility right-of-way sold to PSE&G in 1970, on the west by property owned by Tuxedo Homes, Inc. and on the north by part of the Wanaque Wildlife Refuge. The Site consists of rugged forested areas, open areas overgrown with brush, abandoned mine structures, sealed mine shafts, filled mine pits (including the PMP and the CMP), the former Borough of Ringwood Landfill, the former OCDA, miscellaneous areas surficial land deposition, a municipal recycling center, the Ringwood Borough Garage, and 48 private residences located north of Margaret King Avenue in Ringwood, New Jersey.

4.1.1 Physical Setting

The Site is located on the western side of a valley, which has Ringwood Creek as its principal drainage. The Site itself is bounded by mountainous ridges to the west, including Whaleback Mountain and Mine Hill. and north, including Hope Mountain and a non-named Mountain, and lower hills and ridges to the east and south. There are four surface water drainages within the Site and these include Mine Brook (western and southern areas), Peters Mine Brook (a drainage swale in the central part of the Site), Park Brook (north-central area), and North Brook (north area). These surface water drainages are tributaries to Ringwood Creek, which in turn flows into the Wanaque Reservoir. There are numerous wetlands areas along the stream corridors, some of which are enhanced by beaver dams.

There are paved roads in the residential areas and leading to the former Peters Mine. These streets are Peters Mine Road, CM Road, Van Dunk Lane, Sheehan Drive, Milligan Drive, Horseshoe Bend Road and Petzold Avenue. In addition to the paved roads, there are many former mine roads and trails, some covered with gravel or mine tailings and some which are dirt surfaces. A few of the trails and former mine roads are in various states of natural reclamation.

The Borough of Ringwood Public Works Garage is located near the intersection of Peters Mine Road and Margaret King Avenue and the Recycling Center is located about a half mile north on Peters Mine Road along the west side. There is a PSE&G power sub-station on the east side of Peters Mine Road approximately 400 yards north of the intersection with Margaret King Avenue.

The PMP Area is in the north-central portion of the Site and the former OCDA is located just to the southeast of the PMP. As shown on Figure 1, the CMP Area is located the southern part of the Site. The former Borough of Ringwood Landfill is located in the southern part of the Site to the east of the CMP and Hard Pit and Blue Pit area.

There are a number of former mine workings at the Site, which include former open pits that are now filled, closed shafts and tunnels, and prospect diggings. The former mining operations resulted in the disposal of mine tailings and mine waste rock in the CMP and PMP areas. Part of the former OCDA was used as a "slime" tailings disposal area prior to becoming a landfill.

Elevations at the Site range from approximately 425 feet to more than 950 feet above mean sea level.

4.1.2 Vegetation

Both wetland and upland habitats are present at the Site. Historically, the Site area has been logged, including as part of the former mining operations. Soil surfaces consist primarily of dense leaf litter, downed tree branches and cobble to boulder-sized rock. Most of the vegetation at the Site has developed over the past 50 years.

Tree species present at the Site include: red and white oak, chestnut oak, tulip poplar, black and yellow birch, American beech, sugar maple, green and white ash, eastern cottonwood, slippery elm, and sassafras. The present composition of mature trees 50 to 60 feet high with a closed canopy is dominated by tulip poplar, black and yellow birch, American beech, sugar maple, chestnut oak, white oak and red oak. The understory is composed of trees of the same species along with ironwood, serviceberry, and sassafras.

The shrub layer is composed of staghorn sumac, multiflora rose, wineberry, autumn olive, black raspberry, winged euonymus, buckhorn, witch hazel, spicebush, and maple leaf viburnum. The herbaceous layer is composed of succession species including: deer-tongue panicum, pokeberry, garlic mustard, joe-pye-weed, bracken fern, goldenrods, mullein, and a number of other grass species. Poison ivy, fox grape, Virginia creeper, mile-a minute, and Asiatic bittersweet are major woody vine species.

Wetlands vegetation consists of skunk cabbage, jewelweed, cinnamon fern, Christmas fern, sensitive fern, tear-thumb, and fringed loosestrife. Additional shrub species include sweet pepperbush, winterberry and multiflora rose.

Much of the shrub vegetation appears to have indications of heavy browsing by deer, especially the fringed loosestrife and jewelweed.

4.1.3 Geology

The Site Geology is also discussed in Section 1.2 of this RIR. The Ringwood Mines Landfill Site is located within the southeastern extension of the Highlands of the New England Physiographic Province. Prominent ridges of crystalline bedrock that trend northeast-southwest form the Highlands. Valleys found between the ridges contain glacial and stream sediment deposits. The topographic relief is moderate.

The rocks underlying the Ringwood area are chiefly pre-Cambrian age gneisses with granitic rocks also present. There are four general types of rocks found at the Site; garnetiferous quartz-biotite gneiss, quartz-oligoclase gneiss, hornblende granite, and granite pegmatite. Accessory rock types include pyroxene amphibolite, quartzite, magnetite (iron ore), and skarn. The bedrock is folded in places and has pronounced foliations and jointing.

The iron ore found in Ringwood is thought to be hydrothermal deposits consisting primarily of magnetite that replaced pyroxene amphibolite and skarn rocks. The iron ore formed around the same time as emplacement of granite and pegmatite, which was about 950 million years ago.

Unconsolidated soil and sediment deposits are primarily confined to the stream valleys and corridors. The unconsolidated deposits appear to have greatest thickness in the eastern and southern parts of the Site. Glacial deposits blanket the lower slopes of ridges and hills and consist of heterogeneous mixtures of silt, sand and gravel with boulders; typical of a ground moraine. The stream deposits are observed within the floodplains of the creeks and swamps and consist of clay and silt with some sand and gravel. These stream deposits are thought to be primarily derived from reworking of the glacial sediments.

4.1.4 Surface Hydrology

The Site Hydrogeology is also discussed in Section 1.2.2. Generally, surface water at the Site flows from the north and northwest via wetlands and shallow streams to the south and southwest. The four flowing surface water bodies at the Site are North Brook, Park Brook, Peters Mine Brook and Mine Brook. Wetland areas are mostly located in the vicinity of the surface waters in the northeastern, east central and southwestern parts of the Site.

The surface water bodies are recharged directly by precipitation and from groundwater discharge. During times of extended or heavy precipitation the streams are high-energy types. Stream flow is perennial in the lower elevation parts of the Site. Stream flow is ephemeral in the narrow stream corridors north of the PMP Area, with little to no surface water observed during dry summer and early fall months.

The surface water bodies eventually drain to Ringwood Creek and are part of the Wanaque watershed. All of the surface water bodies are classified as freshwater, trout maintenance (FW-2-TM) by the NJDEP.

Some of the surface water hydrology of the area has been altered by historical development, such as road construction activities along Peters Mine Road which have turned Peters Mine Brook into a drainage ditch. Park Brook, which flows through the PMP Area had its channel re-routed by the miners over 150 years ago so that the mine pit could be excavated.

4.1.5 Groundwater Hydrology

Groundwater hydrology is also discussed in Section 2.3. Groundwater levels vary at the Site depending upon topography with groundwater shallower on the slopes of hills and ridges and becoming deeper towards the valley center. Depths to groundwater as determined by the water table surface range from several feet up to approximately 60 feet.

Overall, groundwater at the Site, both in the unconsolidated overburden material and in bedrock, flows down the valley in a southeasterly direction towards Mine Brook and Ringwood Creek. Because the Site is directly adjacent to recharge areas, including Whaleback Mountain and Hope Mountain, the volumes of groundwater flow vary based on the amount and durations of precipitation. Based on historical data that indicates only limited effort was needed to dewater the Peters and CM and low recharge rates observed during monitor well purging, the data indicate that bedrock at the Site, including in the vicinity of the CMP Area, is a limited groundwater resource.

As previously discussed in Section 1.2, groundwater in the CMP Area is only found in bedrock because the overburden soil cover forms a thin veneer on bedrock where present and is too thin to sustain saturated conditions.

Groundwater at the Site is not currently used as a potable water source, but is classified by NJDEP as Class IIA and was historically used as a potable resource.

4.1.6 Zoning

The Site occupies portions of blocks 600, 601, 602, 603, and 604 in the Borough of Ringwood. Various exempted lots belong to the Borough of Ringwood, the State of New Jersey (Ringwood State Park), and PSE&G. Orange & Rockland Electric Company has a utility corridor easement that runs through portions of the Site.

The Borough of Ringwood owns land in the southern and central parts of the Site while Ringwood State Park occupies the northwestern corner of the Site. PSE&G's property is primarily located on the eastern side of the site, but is also on the southwestern part of the Site.

About one half of the Site is zoned Conservation space (C-200) and includes Ringwood State Park and part of the PSE&G property. The lots along Peters Mine Road, Cannon Mine Road, and Van Dunk Lane that are not developed are zoned single family residential (R-20 and RT-40). Land to the west of the residential properties along Van Dunk Lane is zoned Industrial (I-60). Land zoned single family residential at the Site includes the CMP Area, the former OCDA, the Borough of Ringwood Recycling Center, and the former Borough of Ringwood Landfill.

4.1.7 Demographics

Demographic information documents the age and size of populations and identifies potentially sensitive populations, such as young children, women of child-bearing age, the chronically ill and the elderly. The United States Census Bureau reports that in 2000 the Borough of Ringwood had a total population of 866 people living within one mile of the Site (209 total housing units). Approximately 200 people are believed to live in the 48 residences within the Site boundaries. According to the U.S. Census Bureau, 87 children under the age of 6 (10% of the population), 168 females between the ages of 15 and 44 (19.4% of the population) and 103 adults over the age of 65 (11.9% of the population) comprise the sensitive population within one mile of the Site.

Residential properties located within and near the Site consist primarily of single-family dwellings. Lot sizes are typically less than half an acre and there is substantial open space at the Site. Demographically, the Site area is considered sparsely populated.

There are no hospitals within one mile of the Site. There is one school within the one mile site radius; the Eleanor Hewitt School (local elementary – 4th and 5th grades) located southeast of the Site on Sloatsburg Road. There is a private school (Ringwood Christian School – K through 8th grade) approximately 1.2 miles southeast from the Site on Carletondale Road.

4.1.8 Current Land Use

Current land use at the Site (excluding the embedded residential parcels) includes Borough of Ringwood facilities (Department of Public Works yard, Recycling Center), State of New Jersey parkland (Ringwood Manor section of Ringwood State Park), utility corridors (PSE&G and Orange and Rockland Electric Company) that include a power sub-station, and open space (Borough of Ringwood property). Future development of open space at the Site is not considered likely because of conservation zoning, the presence of unbuildable slopes and wetlands, former landfills, extensive

mine tailings deposits and potential physical mine hazards (former pits and shafts). It is anticipated that some mine hazard mitigation work will be conducted in the future.

Public drinking water is supplied to residents in the Borough of Ringwood from well fields located within a different watershed approximately two miles southeast of the Site. Public drinking water is also supplied from the Wanaque Reservoir, located approximately one-half mile southeast of the Site. Groundwater and surface water is not used for potable purposes and future uses are doubtful given the high naturally-occurring iron and manganese concentrations found in ground water in historically mined areas as well as at upgradient, background well locations and the low groundwater volumes and yield.

Paved roads at the Site are traveled by residents, mail carriers, delivery trucks, garbage and refuse haulers, utility workers and visitors. The Recycling Center is open to the public on Wednesdays. Utility workers are periodically on-site to clear brush in the utility corridors and to perform maintenance on the power transmission towers and at the sub-station.

Known recreational uses of the land include hiking in Ringwood State Park, hunting, and riding all-terrain vehicles (ATVs). Although there is a pond at the PMP, a water-filled former concrete fire-water reservoir, and several ponds created by beaver dams, fishing has not been observed. Swimming also appears to be an unlikely activity given the presence of dead tree snags, tree stumps and/or debris in these areas, and/or inaccessibility due to the presence of heavy vegetation in the warmer months.

Areas of the Site where removal actions have occurred, and the former landfill areas, including the PMP, CMP, and OCDA, are typically inaccessible during warmer months because of heavy vegetation at ground level (shrubs, vines, briars). Restoration of these areas in the future will result in similar re-vegetation. Areas of sedimentation at the Site are typically inaccessible because of ponded water or swampy ground.

4.1.9 Exposure Pathways and Potential Receptors

Potential exposure pathways and potential receptors were selected based on current and potential future land uses for the non-residential areas of the Site, zoning and demographic information, and observations made during the Reconnaissance Survey and other field activities (wetland delineation, site investigations, etc.). The exposure pathways and potential receptors are discussed below.

Under current conditions, access to the Site by the public is limited. This CSM assumes that exposure within the CMP Area is limited to soils, plants and animals present within the CMP, the

PMP and the OCDA. At the direction of the USEPA, exposures scenarios within the HHRA do not anticipate that residents may travel outside these three ACs into other areas of the site.

An exposure pathway consists of the following four elements: (1) a source and mechanism of constituent release to the environment, (2) a retention or transport medium for the released constituent, (3) a point of potential contact by the receptor with the impacted medium (the exposure point), and (4) a route of exposure to the receptor at the exposure point (e.g., ingestion, inhalation, or dermal contact). If any of these elements do not exist, the exposure pathway is considered incomplete and will not be further evaluated.

The following outlines current and future potential exposure pathways and potential receptors selected for evaluation at the Site.

Current

- The potential exists for off-site receptors (adult and adolescent) to gain access to the Site and be exposed via direct contact (e.g., incidental ingestion, inhalation, and dermal contact) to constituents in surface soil during hunting and/or recreational activities. In addition, those who hunt wild game and/or gather plants (such as wild carrots) from the Site could be potentially exposed to site-related constituents via ingestion of these food sources.

Future

- The potential exists for off-site receptors (adult and adolescent) to gain access to the Site and be exposed via direct contact (e.g., incidental ingestion, inhalation, and dermal contact) to constituents in surface soil during hunting and/or recreational activities. In addition, those who hunt wild game and/or gather plants (such as wild carrots) from the Site could be potentially exposed to site-related constituents via ingestion of these food sources.

- The potential exists for future hypothetical construction workers to be exposed via incidental ingestion, inhalation, and dermal contact to Site-related constituents remaining in surface soil and sub-surface soil during future construction activities.

- The potential exists for future hypothetical residents to be exposed via ingestion, inhalation, and dermal contact to Site-related constituents in surface soil if the Site were to be used for residential land re-use.

- The potential exists for future hypothetical commercial/industrial workers to be exposed via incidental ingestion, inhalation, and dermal contact to Site-related constituents in surface soil if the Site were to be used for commercial/industrial land re-use.

5 CMP Baseline Human Health Risk Assessment

5.1 Human Health Evaluation

A draft Baseline Human Health Risk Assessment (BHHRA) was prepared, and was submitted to the USEPA under separate cover on April 20, 2012 as a requirement established in the Statement of Work.

The BHHRA for the CMP Area assumes that a Walker/Hiker/Dog Walker, Dirt Biker/ATV Rider, Hunter, Current Outdoor Worker, Future Resident, and Future Outdoor Worker could be exposed to media from the CMP Area. The Walker/Hiker/Dog Walker is assumed to be exposed to surface soil via incidental ingestion, dermal contact, and inhalation of dust. The Dirt Biker/ATV Rider is assumed to be exposed to surface soil via incidental ingestion, dermal contact, and inhalation of dust. The Hunter is assumed to be exposed to game and plant tissue collected from the PMP and OCDA via ingestion. The Current Outdoor Worker is assumed to be exposed to surface soil via incidental ingestion, dermal contact, and inhalation of dust. The Future Resident is assumed to be exposed to surface soil via incidental ingestion, dermal contact, and inhalation of dust. The Future Outdoor Worker is assumed to be exposed to surface soil via incidental ingestion, dermal contact, and inhalation of dust. Conservative exposure estimates were used to estimate the exposure of each receptor.

The potential cancer and non-cancer risks for the Walker/Hiker/Dog Walker, Dirt Biker/ATV Rider, and Outdoor Worker RME scenarios are all within or below USEPA's benchmarks. Only the Hunter RME scenario exceeds USEPA's cancer risk range and target hazard index. The estimated lifetime cancer risk for the Hunter receptor is driven by risks posed by the hypothetical ingestion of arsenic from wild caught game and wild collected plants. Non-cancer risks for the Hunter are driven by risks posed by the hypothetical ingestion of cadmium, copper, and zinc from wild caught game and wild collected plants. According to USEPA (2010b), arsenic, cadmium, copper, and zinc concentrations in both plants and game are not elevated compared to the concentrations detected in their reference samples. When average CT exposure assumptions are applied, all receptors are below USEPA's benchmarks for potential cancer and non-cancer risk. Additionally, when the apportionment factor of 23% for the CMP Area is applied to the RME scenarios, all receptors are below USEPA's benchmarks for potential cancer and non-cancer risk.

The estimated lifetime cancer risk from all pathways and all receptors is driven by arsenic. The EPC in soil (95th Upper Confidence Limit on the mean) was 6.5 mg/kg. However, as noted in ARCADIS (2008c), it is Ford's position that arsenic concentrations at the Site are dominated by naturally occurring minerals and mine tailings from historical mining activities, not residues from paints. ARCADIS analyzed samples of mine tailings and found that non-magnetic mine tailings contained 21-50 mg/kg arsenic, which is greater than the EPC for arsenic at the CMP Area. Given that

naturally occurring iron ore is abundant at the Site and iron mine tailing are encountered at various locations at the Site and were present there before any waste materials from Ford were disposed at the Site, the estimated lifetime cancer risk reported in the BHHRA is the background risk associated with the mineralogy of the area and is not attributable to Ford's historical activities on the Site.

The estimated lifetime cancer risk for the Hunter receptor is comprised of risks posed by the hypothetical ingestion of arsenic from wild caught game and wild collected plants. USEPA (2010b) collected 33 Site game samples and 30 reference game samples, as well as 70 Site plant samples and 23 reference plant samples, although none of these samples were collected within the CMP Area. The EPC for arsenic in game tissue was 0.1 mg/kg (wet weight), and the EPC for plant tissue was 0.4 mg/kg (wet weight). According to USEPA (2010b), these arsenic concentrations are not elevated compared to the concentrations detected in their reference samples. Accordingly, the estimated lifetime cancer risk reported in the BHRRA for the CMP Area is the background risk posed by typical concentrations of arsenic in wild game and plants, and is not attributable to Ford's historical activities on the Site.

Lead concentrations in soil result in estimated fetal blood lead concentrations that are predicted to be below USEPA's benchmark for all the Walker/Hiker/Dog Walker, Dirt Biker/ATV Rider, Current Outdoor Worker, Future Resident, and Future Outdoor Worker scenarios. Lead concentrations in game and plant tissue result in estimated fetal blood lead concentrations that are predicted to exceed USEPA's benchmark for the young child Hunter RME scenario. When average CT assumptions are applied, lead concentrations in game and plant tissue result in estimated fetal blood lead concentrations that are predicted to be below USEPA's benchmark for the young child Hunter scenario.

5.1.1 Exposure Setting

The Site and the CMP Area background is briefly discussed above in Section 1.1. The Site is located along the northern side of Margaret King Avenue about a half a mile west of Sloatsburg Road in the Borough of Ringwood, Passaic County, New Jersey. The Site is bordered on the south by Mine Brook, which flows south of Margaret King Avenue, on the east by the utility right-of-way sold to PSE&G in 1970, on the west by property owned by Tuxedo Homes, Inc. and on the north by part of the Wanaque Wildlife Refuge. Figure 1 shows the location of the Site and Figure 2 presents the location of the CMP Area within the Site.

The geographic area covered in the *Exposure Scenarios and Assumptions Technical Memorandum* comprises the non-residential areas, which includes all portions of the Site that could have potentially received waste materials. This area consists of approximately 198 acres. The CMP Area encompasses approximately 5 acres within this larger area of the Site.

Based on the combined activities undertaken to date during the RI and various phases of Supplemental Investigation, paint sludge and related wastes were identified at sixteen limited locations. When the two larger landfills that contain the presence of paint sludge in the northern area of the Site (including the PMP Area and the OCDA) are excluded from the calculation, only 6.5 acres, or slightly less than 1.5 percent of the total Site area ever had surficial paint sludge present. Surficial paint sludge deposits have now been removed from each of these areas as documented in the various Technical Memorandums submitted to USEPA over the past several years.

5.1.2 Zoning

The Site occupies portions of tax blocks 600, 601, 602, 603, and 604 in the Borough of Ringwood. Various exempted tax lots belong to the Borough of Ringwood, the State of New Jersey (Ringwood State Park), and PSE&G. Orange and Rockland Electric Company have a utility corridor easement that runs through portions of the Site.

The Borough of Ringwood owns land in the southern and central parts of the Site and the State of New Jersey owns the land in the northwestern part of the Site. PSE&G's property is primarily located on the eastern side of the site, but is also on the southwestern part of the Site.

About one half of the Site is zoned Conservation space (C-200) and includes Ringwood State Park and part of the PSE&G property. The lots along Peters Mine Road, CM Road, and Van Dunk Lane that are not developed are zoned single-family residential (R-20 and RT-40). Land to the west of the residential properties along Van Dunk Lane is zoned Industrial (I-60). Land zoned single family residential at the Site includes the CM area, the former OCDA, the Borough of Ringwood Recycling Center, and the former Borough of Ringwood Landfill.

5.1.3 Demographics

Demographic information documents the age and size of populations and identifies potentially sensitive populations, such as young children, women of child-bearing age, the chronically ill and the elderly. The United States Census Bureau reports that in 2000 the Borough of Ringwood had a total population of 866 people living within one mile of the Site (209 total housing units). Approximately 200 people are believed to live in the 48 residences within the Site boundaries. According to the U.S. Census Bureau, 87 children under the age of 6 (10% of the population), 168 females between the ages of 15 and 44 (19.4% of the population) and 103 adults over the age of 65 (11.9% of the population) comprise the sensitive population within one mile of the Site.

Residential properties located within and near the site consist primarily of single-family dwellings. Lot sizes are typically less than half an acre and there is substantial open space at the Site. Demographically, the Site area is considered sparsely populated.

There are no hospitals within one mile of the Site. There is one school within the one mile site radius, specifically, the Eleanor Hewitt School (a local elementary – 4th and 5th grades) located southeast of the Site on Sloatsburg Road. There is also a private school (Ringwood Christian School – K through 8th grade) approximately 1.2 miles southeast from the Site on Carletondale Road.

5.1.4 Current Land Use

Current land use at the Site (excluding the embedded residential parcels) includes Borough of Ringwood facilities (Department of Public Works yard, Recycling Center), State of New Jersey parkland (Ringwood Manor section of Ringwood State Park), utility corridors (PSE&G and Orange and Rockland Electric Company) that include a power sub-station, and open space (Borough of Ringwood property). Future development of open space at the Site is not considered likely because of conservation zoning, the presence of unbuildable slopes and wetlands, former landfills, extensive mine tailings deposits and potential physical mine hazards (former pits and shafts). It is anticipated that some mine hazard mitigation work will be conducted in the future.

Public drinking water is supplied to residents in the Borough of Ringwood from well fields located within a different watershed approximately 2 miles southeast of the Site. Groundwater and surface water is not used at the Site and future uses are doubtful given the high iron and manganese content found in the groundwater, and given the low yields obtained. The NJDEP current Class IIA classification of groundwater at the Site indicates that it may be a potential potable source; however, this is highly unlikely given the elevated natural metals concentrations in groundwater, including levels documented in overburden and bedrock wells located upgradient of the land AOCs where concentrations of several metals exceed their respective GWQS.

Paved roads at the Site are traveled by residents, mail carriers, delivery trucks, garbage and refuse haulers, utility workers, and visitors. The Recycling Center is open to the public on Wednesdays, Saturdays and Sundays. Utility workers are periodically on-site to clear brush in the utility corridors and to perform maintenance on the power transmission towers and at the sub-station.

Known recreational uses of the land include hiking in Ringwood State Park, hunting, and riding all-terrain vehicles (ATVs). Although there is a pond at PMP, a water-filled former concrete fire-water reservoir, and several ponds created by beaver dams, fishing has not been observed. Swimming also appears to be an unlikely activity given the presence of dead tree snags, tree stumps and/or debris in these areas, and/or inaccessibility due to the presence of heavy vegetation in the warmer months.

Areas of the Site where removal actions have occurred and the former landfill areas (including the, CMP, PMP, and the OCDA) are typically inaccessible during warmer months because of heavy

vegetation at ground level (shrubs, vines, briars). Areas of sedimentation at the Site are typically inaccessible because of ponded water or swampy ground.

5.2 Environmental Evaluation

A revised Screening-Level Ecological Risk Assessment (SLERA) for the CMP Area of Concern was submitted to the USEPA under separate cover during April 2012, and subsequently on December 7, 2012. The SLERA provided a comparison of the maximum contaminant concentrations in each media of concern to appropriate conservative ecotoxicity screening values, and used conservative exposure estimates.

The SLERA (ARCADIS 2012) conducted for the CMP Area concluded that there are constituents of potential ecological concern (COPECs) in soil that are present at concentrations greater than screening levels indicating a potential risk to plants, soil invertebrates, and reptiles. However, as discussed in the SLERA, the soil concentrations at the site are similar to concentrations in reference samples collected from Ringwood State Park, indicating that risks to plants and invertebrates are not likely greater than those associated with ambient conditions.

Dose modeling to evaluate exposures to upper trophic-level species demonstrated that potential ecological risks within the CMP Area were associated with dietary exposures of metal COPEC in soil to the American robin, meadow vole, and short-tailed shrew. All other potential exposure pathways were determined to have negligible risk.

Based on a review of the SLERA document submitted by ARCADIS during April 2012, the USEPA requested that ARCADIS prepare a Baseline Ecological Risk Assessment (BERA) to further assess risks to upper trophic-level species. The specific objective of the BERA was to provide a refined analysis of the potential risks associated with the ingestion pathway using more realistic exposure assumptions.

The results of the refined dose modeling for soil demonstrated that risks associated with potential exposures to ecological receptors including the short-tailed shrew, meadow vole, and American robin in the CMP Area are low. The data further indicated that risks to ecological receptors within the CMP Area are low and no further evaluation is warranted.

6 Findings and Conclusions

The results of the investigation conducted within the CMP Area indicate the following:

Surface Soil Quality

- Surface soils in the vicinity of the CMP Area are predominately soil intermixed with solid waste, including plastic, paper, wood, and scrap metal;
- There was no indication of paint sludge during the soil sample collection;
- There were no VOCs, SVOCs, PCBs, metals, or TPHC were reported above the NJDEP's RDCSRS in any of the surface soil samples; and
- Of the 23 metals on the TAL, one or more were detected at each sample location at concentrations above their respective NJDEP IGWDSSL, including aluminum, beryllium, cadmium, lead, manganese, and mercury.

Fill Material Content and Quality

- Conceptual cross-sections of the CMP based on all available boring logs depicting the estimated depth and width of the CMP, angle of repose for the blast rock, and general fill type characterization were prepared and are provided on Figures 3 and 4;
- As shown, the CMP contents consist mainly of miscellaneous solid waste intermixed with fill cover soils, some minor amounts of mine tailings of various size fractions ranging from coarse sand to very fine sand and mine waste rock overlying rock rubble;
- The solid waste, including municipal and non-municipal fill as well as industrial waste from the Mahwah Assembly Plant, and cover soils ranged in thickness from less than one foot at the edges of the pit to up to 47 feet in the central part of the pit;
- Solid waste is underlain in some parts of the pit by a layer of fines, sands, gravels, and mine tailings that was approximately 5 to 18 feet thick;
- There was no paint sludge identified within the fill materials; however, drums and drum remnants were encountered. Several of the drums removed had concentrations of Total PCBs and/or TAL Metals at concentrations above their respective RDCSRS;
- Fill material within the pit also contains detectable concentrations of VOCs, SVOCs, Metals, pesticides/herbicides, and PCBs, although the data indicate a sporadic distribution with no recognizable pattern;
- Groundwater was encountered in the deeper soil borings at a depth of approximately 50 feet bgs therefore the groundwater is not in direct contact with the solid waste; and
- The rock rubble located underneath the pit fill material consisted of large cobble- to boulder-sized pieces of rock with a sand and gravel matrix and is generally free of debris. The rock rubble was documented at depths ranging from 10 feet to 53 feet and is estimated to fill more than 75% of the pit volume.

Groundwater Occurrence and Movement

- Groundwater occurs within the rock rubble at the CMP at seasonal fluctuating depths of approximately 53 ft to 60 ft bgs and within wells constructed in the shallow bedrock near the CMP at depths typically ranging from approximately 9 to 19 ft bgs;
- Groundwater is also encountered at monitoring wells screened in deeper water-bearing fractures at depths typically ranging between approximately 26 to 61 ft bgs;
- Groundwater was not encountered in the thin layer of overburden in the vicinity of the CMP therefore there are no overburden monitoring wells within the CMP Area;
- Groundwater elevation data from shallow bedrock wells monitored over the course of the RI indicate a localized flow gradient towards the CMP in the shallow bedrock surrounding the pit with the exception of the area directly west of the pit;
- To the west of the pit, the data indicate that flow is from the pit through the shallow bedrock to the west towards shallow bedrock monitoring well OB-3.
- Groundwater elevation data from wells screened in the deeper bedrock indicate a groundwater flow gradient to the southwest in the area south of the CMP. This flow gradient has been generally consistent from 2006 through the most recent monitoring event in 2012.

Groundwater Analytical Results

- The analytical results from groundwater sampling events conducted over the course of the RI indicate no SVOCs, pesticides or PCBs in groundwater within and downgradient of the CMP at concentrations above the NJDEP GWQS or the USEPA MCLs;
- A one-time detection of benzene and bis-2(ethylhexyl)phthalate during the July 2008 sampling event is attributed to sampling bias as confirmed by the analytical results from 2009 through 2012 which confirm these VOCs were not detected;
- Trichloroethene was detected only twice at concentrations above the NJDEP GWQS, during 2008 and 2009. It was not detected prior to 2008, and has not been detected since 2009, including during the April/May 2012 sampling event;
- Various concentrations of total metals have been reported in unfiltered samples at concentrations above their respective GWQS, including aluminum, arsenic, iron, lead, manganese and zinc and only dissolved-phase (filtered) arsenic, manganese and zinc were reported above their respective GWQS in any groundwater sample.

- During the most recent sampling event in April/May 2012, neither total nor dissolved lead was detected at a concentration above its NJDEP GWQS.
- Total arsenic was reported in groundwater at monitoring well RW-10 at two deeper bedrock intervals at concentrations above its NJDEP GWWS of 3 µg/l; however, these concentrations do not exceed the USEPA MCL of 10 µg/l for this constituent.

Supplemental RI Findings

- The results of the supplemental groundwater and surface water investigations conducted within the CMP Area during 2012 indicate the following:
- An upward vertical gradient is documented at upgradient bedrock well clusters in the vicinity of the CMP Area;
- A downward vertical gradient is documented for groundwater in the immediate vicinity of the CMP from shallow and deeper bedrock perimeter wells towards well SC-2 within the pit. These data suggest that groundwater in the immediate vicinity of the pit flows to the pit;
- The flow gradient of shallow groundwater within the CMP mine workings follows the ground surface topography from the pit towards the Mine Brook;
- The major cation/anion data indicate no significant similarity between the geochemical signature of groundwater within the CMP, the CM Mine Shaft, and the surrounding bedrock monitoring well locations. This variability reflects the differential geochemical patterns that change with distance radially from the CMP;
- Because fill materials within the CMP are not in direct contact with groundwater, fill materials within the CMP do not generate a geochemical “footprint” that overrides the geochemical “signature” from the native bedrock and the other mine workings or pits located within the CMP Area;
- There are no SVOCs, pesticides or PCBs reported in groundwater within the CMP Area, and only sporadic detections of total, and to a lesser extent, dissolved-phase metals. With the exception of groundwater samples collected as part of selective zone packer testing at RW-2, RW-8 and RW-9, lead was only detected at a concentration above the GWQS at monitoring well SC-02 in May 2011;
- VOCs have not been detected in groundwater within the CMP, with the exception of low concentrations of trichloroethene (TCE) detected at concentrations above the GWQS at monitoring well OB-3 in September 2008 and October 2009; and
- With the exception of lead and arsenic detected in May 2012 at surface water sample SW-MRB-01 and bis(2-ethylhexyl)phthalate detected in May 2012 at surface water sample SW-MRB-02, no constituents of concern have been detected in surface water

within the Mine Brook. In addition, no constituents of concern have been identified at locations further downstream (SW-02 and SW-MRB-03). The data therefore indicate that there are no constituents of concern migrating from the CMP Area toward Ringwood Creek and therefore no migration towards the Wanaque Reservoir where surface water from the Site ultimately discharges.

References

ARCADIS. 1984. Interim Report Phase I Investigations, Ringwood Mines Landfill Site.

ARCADIS. 2004a. Post-Environmental Monitoring Program Sampling Work Plan, Ringwood Mines/Landfill Site, Ringwood, New Jersey. July 26, 2004

ARCADIS. 2004b. Plan for the Investigation of the Ringwood Mines/Landfill Site, Module 1: Work Plan for the Field Reconnaissance Survey. 23 November 2004

ARCADIS. December 2004c. Paint Sludge and Drum Remnant Removal Work Plan, Ringwood Mines/Landfill Site, Ringwood, New Jersey. December 14, 2004

ARCADIS. 2008a. Technical Memorandum – Site-Wide Groundwater Sampling. February 14, 2008

ARCADIS. 2008b. Draft Technical Memorandum – Site-Wide Groundwater Sampling April/May 2008 Sampling Event. October 29, 2008.

ARCADIS. 2009a. Draft Technical Memorandum – Site-Wide Groundwater Sampling September 2008 Sampling Event. January 14, 2009.

ARCADIS. 2009b. Draft Technical Memorandum – Site-Wide Groundwater Sampling July 2009 Sampling Event. September 25, 2009.

ARCADIS 2010a. Draft Technical Memorandum – Site-Wide Groundwater Sampling October 2009 Sampling Event. February 19, 2010.

ARCADIS 2010b. Draft Technical Memorandum - CMP Investigation. June 22, 2010.

ARCADIS 2012. Proposed Supplemental Site-Related Groundwater Remedial Investigation Work Plan. April 22, 2012.

ARCADIS. 2012a. Proposed Supplemental Site-Related Groundwater Remedial Investigation Work Plan. Ringwood Mines/Landfill Site, Ringwood, New Jersey. March 14.

ARCADIS. 2012b. Revised Screening-Level Ecological Risk Assessment for the Pit Area. Ringwood Mines/Landfill Site, Ringwood, New Jersey. March.

ARCADIS. 2012c. Revised Baseline Human Health Risk Assessment for the Peters Mine Pit Area. Ringwood Mines/Landfill Site, Ringwood, New Jersey. March 24.

ARCADIS. 2012d. DRAFT Remedial Investigation Report for the Pit Area. Ringwood Mines/Landfill Site, Ringwood, New Jersey. April.

ARCADIS. 2012e. Revised Baseline Human Health Risk Assessment for the Pit Area. Ringwood Mines/Landfill Site, Ringwood, New Jersey. June 1.

Hotz, Preston, E. 1952. Magnetite deposits of the Sterling Lake, N. Y. - Ringwood, N.J. Area. Geological Survey Bulletin 982-F.

New Jersey Department of Environmental Protection and Energy. 1992a. Field Sampling Procedures Manual, Appendix 7-1. May 1992.

New Jersey Department of Environmental Protection and Energy. 1992b. Field Sampling Procedures Manual, Chapter 7-F, 7-H. May 1992

Pustay, M.R. 1992. Abandoned Iron Mines of Ringwood, Wanaque, and West Milford Townships, State of New Jersey, Department of Labor, Division of Occupational Safety and Health.

Ransom, James M. 1966. Vanishing Ironworks of the Ramapos: The Story of the Forges, Furnaces, and Mines of the New Jersey—New York Boarder Area, Rutgers University Press.

United States Environmental Protection Agency. 1988. Guidance for Conducting Remedial Investigations and Feasibility Studies Under CERCLA, Interim Final. October 1988.

United States Environmental Protection Agency. 1997. Ecological Risk Assessment Guidance for Superfund, Process for Designing and Conducting Ecological Risk Assessments.

Vibra-Tech Engineers, Inc. 2006. Geophysical Investigation Ringwood Mines/ Landfill Site Cannon Mine Ringwood, New Jersey. August 2006.

Woodward-Clyde Consultants. 1988. Final Remedial Investigation Report, Ringwood Mines/Landfill Site, Ringwood, New Jersey. September 1988.

ARCADIS

Tables

Table 1. Summary of Surface Soil Analytical Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Sample Name Sample Date Validation Status	NJ Residential Direct Contact Soil (NJAC 7: 26D 6/08)	NJ Default Impact to Groundwater Soil Screening (NJAC 7:26D 12/08)	CMI-SS-01 10/23/2007 Final	CMI-SS-02 10/23/2007 Final	CMI-SS-03 10/23/2007 Final	CMI-SS-04 10/23/2007 Final	CMI-SS-05 10/23/2007 Final	CMI-SS-06 10/23/2007 Final	CMI-SS-07 10/23/2007 Final
VOC									
1,1,1-Trichloroethane	290	0.2	< 0.00038	< 0.00041	< 0.00039	< 0.00035	< 0.00038	< 0.00036	< 0.00034
1,1,2,2-Tetrachloroethane	1	0.005	< 0.0003	< 0.00032	< 0.0003	< 0.00027	< 0.00029	< 0.00028	< 0.00027
1,1,2-Trichloroethane	2	0.01	< 0.0003	< 0.00032	< 0.0003	< 0.00027	< 0.00029	< 0.00028	< 0.00027
1,1-Dichloroethane	8	0.2	< 0.0007	< 0.00075	< 0.00071	< 0.00063	< 0.00069	< 0.00065	< 0.00063
1,1-Dichloroethene	11	0.005	< 0.00047	< 0.0005	< 0.00048	< 0.00043	< 0.00046	< 0.00044	< 0.00042
1,2,4-Trichlorobenzene	73	0.4	< 0.00036	< 0.00038	< 0.00036	< 0.00032	< 0.00035	< 0.00033	< 0.00032
1,2-Dibromo-3-Chloropropane (DBCP)	0.08	0.005	< 0.00095	< 0.001	< 0.00096	< 0.00086	< 0.00094	< 0.00089	< 0.00085
1,2-Dibromoethane	0.008	0.005	< 0.00029	< 0.00032	< 0.0003	< 0.00027	< 0.00029	< 0.00028	< 0.00026
1,2-Dichlorobenzene	5300	11	< 0.00028	< 0.0003	< 0.00028	< 0.00025	< 0.00028	< 0.00026	< 0.00025
1,2-Dichloroethane	0.9	0.005	< 0.00024	< 0.00026	< 0.00024	< 0.00022	< 0.00024	< 0.00022	< 0.00021
1,2-Dichloropropane	2	0.005	< 0.00042	< 0.00045	< 0.00042	< 0.00038	< 0.00041	< 0.00039	< 0.00037
1,3-Dichlorobenzene	5300	12	< 0.00037	< 0.0004	< 0.00038	< 0.00034	< 0.00037	< 0.00035	< 0.00033
1,4-Dichlorobenzene	5	1	< 0.0003	< 0.00033	< 0.00031	< 0.00028	< 0.0003	< 0.00028	< 0.00027
2-Butanone (MEK)	3100	0.6	< 0.0029	< 0.0031	< 0.0029	< 0.0026	< 0.0028	< 0.0027	< 0.0026
2-Hexanone	NS	NS	< 0.0017	< 0.0019	< 0.0018	< 0.0016	< 0.0017	< 0.0016	< 0.0016
4-methyl-2-pentanone (MIBK)	NS	NS	< 0.002	< 0.0022	< 0.002	< 0.0018	< 0.002	< 0.0019	< 0.0018
Acetone	70000	12	< 0.0041	< 0.0045	< 0.0042	< 0.0038	< 0.0041	< 0.0039	< 0.0037
Benzene	2	0.005	< 0.00073	< 0.00079	< 0.00074	< 0.00067	< 0.00073	< 0.00069	< 0.00066
Bromodichloromethane	1	0.005	< 0.00025	< 0.00027	< 0.00026	< 0.00023	< 0.00025	< 0.00024	< 0.00023
Bromoform	81	0.02	< 0.00083	< 0.00089	< 0.00084	< 0.00075	< 0.00082	< 0.00077	< 0.00074
Bromomethane	25	0.03	< 0.00049	< 0.00053	< 0.0005	< 0.00045	< 0.00049	< 0.00046	< 0.00044
Carbon disulfide	7800	4	< 0.00029	< 0.00032	< 0.0003	< 0.00027	< 0.00029	< 0.00028	< 0.00026
Carbon tetrachloride	0.6	0.005	< 0.00025	< 0.00027	< 0.00026	< 0.00023	< 0.00025	< 0.00024	< 0.00023
Chlorobenzene	510	0.4	< 0.00056	< 0.00061	< 0.00057	< 0.00051	< 0.00056	< 0.00053	< 0.00051

Footnotes on page 11

Table 1. Summary of Surface Soil Analytical Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Sample Name Sample Date Validation Status	NJ Residential Direct Contact Soil (NJAC 7: 26D 6/08)	NJ Default Impact to Groundwater Soil Screening (NJAC 7:26D 12/08)	CMI-SS-01 10/23/2007 Final	CMI-SS-02 10/23/2007 Final	CMI-SS-03 10/23/2007 Final	CMI-SS-04 10/23/2007 Final	CMI-SS-05 10/23/2007 Final	CMI-SS-06 10/23/2007 Final	CMI-SS-07 10/23/2007 Final
VOC									
Chloroethane	220	NS	< 0.00052	< 0.00057	< 0.00053	< 0.00048	< 0.00052	< 0.00049	< 0.00047
Chloroform	0.6	0.2	< 0.0004	< 0.00043	< 0.00041	< 0.00036	< 0.0004	< 0.00038	< 0.00036
Chloromethane	4	NS	< 0.00053	< 0.00057	< 0.00054	< 0.00048	< 0.00053	< 0.0005	< 0.00048
cis-1,2-Dichloroethene	230	0.2	< 0.00019	< 0.00021	< 0.0002	< 0.00018	< 0.00019	< 0.00018	< 0.00017
cis-1,3-Dichloropropene	2	0.005	< 0.00051	< 0.00055	< 0.00051	< 0.00046	< 0.0005	< 0.00047	< 0.00045
Cyclohexane	NS	NS	< 0.0004	< 0.00043	< 0.0004	< 0.00036	< 0.00039	< 0.00037	< 0.00036
Dibromochloromethane	3	0.005	< 0.00021	< 0.00023	< 0.00022	< 0.00019	< 0.00021	< 0.0002	< 0.00019
Dichlorodifluoromethane	490	25	< 0.00041	< 0.00044	< 0.00042	< 0.00037	< 0.00041	< 0.00039	< 0.00037
Ethylbenzene	7800	8	< 0.00049	< 0.00053	< 0.0005	< 0.00044	< 0.00048	< 0.00046	< 0.00044
Freon 113	NS	NS	< 0.00038	< 0.0004	< 0.00038	< 0.00034	< 0.00037	< 0.00035	< 0.00034
Isopropylbenzene	NS	NS	< 0.0003	< 0.00033	< 0.00031	< 0.00027	< 0.0003	< 0.00028	< 0.00027
Methyl acetate	78000	14	< 0.0031	< 0.0034	< 0.0032	< 0.0029	< 0.0031	< 0.0029	< 0.0028
Methyl tert butyl ether	110	0.2	< 0.00064	< 0.00069	< 0.00065	< 0.00058	< 0.00063	< 0.0006	< 0.00057
Methylcyclohexane	NS	NS	< 0.00051	< 0.00055	< 0.00052	< 0.00046	< 0.0005	< 0.00048	< 0.00046
Methylene chloride	34	0.007	< 0.00048	< 0.00051	< 0.00048	< 0.00043	< 0.00047	< 0.00045	< 0.00043
o-Xylene	NS	NS	< 0.00026	< 0.00028	< 0.00027	< 0.00024	< 0.00026	< 0.00024	< 0.00023
Styrene	90	2	< 0.00023	< 0.00025	< 0.00023	< 0.00021	< 0.00023	< 0.00022	< 0.00021
Tetrachloroethene	2	0.005	< 0.00034	< 0.00036	< 0.00034	< 0.00031	< 0.00033	< 0.00032	< 0.0003
Toluene	6300	4	< 0.00042	< 0.00046	< 0.00043	< 0.00039	< 0.00042	< 0.0004	< 0.00038
Trans-1,2-dichloroethene	300	0.4	< 0.00056	< 0.0006	< 0.00057	< 0.00051	< 0.00055	< 0.00052	< 0.0005
trans-1,3-Dichloropropene	2	0.005	< 0.00081	< 0.00088	< 0.00083	< 0.00074	< 0.00081	< 0.00076	< 0.00073
Trichloroethene	7	0.007	< 0.00033	< 0.00035	< 0.00033	< 0.0003	< 0.00032	< 0.00031	< 0.00029
Trichlorofluoromethane	23000	22	< 0.00047	< 0.00051	< 0.00048	< 0.00043	< 0.00047	< 0.00044	< 0.00043
Vinyl Chloride	0.7	0.005	< 0.00056	< 0.0006	< 0.00057	< 0.00051	< 0.00056	< 0.00053	< 0.0005
Xylene, -m,p	NS	NS	< 0.00049	< 0.00053	< 0.0005	< 0.00045	< 0.00049	< 0.00046	< 0.00044
Xylenes	12000	12	< 0.00026	< 0.00028	< 0.00027	< 0.00024	< 0.00026	< 0.00024	< 0.00023
Total TIC, Volatile	NS	NS	0	0	0	0	0.0052 J	0	0

Footnotes on page 11

Table 1. Summary of Surface Soil Analytical Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Sample Name Sample Date Validation Status	NJ Residential Direct Contact Soil (NJAC 7: 26D 6/08)	NJ Default Impact to Groundwater Soil Screening (NJAC 7:26D 12/08)	CMI-SS-01 10/23/2007 Final	CMI-SS-02 10/23/2007 Final	CMI-SS-03 10/23/2007 Final	CMI-SS-04 10/23/2007 Final	CMI-SS-05 10/23/2007 Final	CMI-SS-06 10/23/2007 Final	CMI-SS-07 10/23/2007 Final
SVOC									
1,1'-Biphenyl	3100	90	< 0.01	< 0.011	< 0.011	< 0.0097	< 0.0098	< 0.0097	< 0.0098
2,4,5-Trichlorophenol	6100	44	< 0.073	< 0.08	< 0.076	< 0.068	< 0.068	< 0.068	< 0.068
2,4,6-Trichlorophenol	19	0.2	< 0.077	< 0.085	< 0.08	< 0.072	< 0.072	< 0.072	< 0.073
2,4-Dichlorophenol	180	0.2	< 0.04	< 0.044	< 0.041	< 0.037	< 0.037	< 0.037	< 0.037
2,4-Dimethylphenol	1200	0.7	< 0.047	< 0.051	< 0.049	< 0.044	< 0.044	< 0.044	< 0.044
2,4-Dinitrophenol	120	0.3	< 0.042 J	< 0.046 J	< 0.044 J	< 0.039 J	< 0.039 J	< 0.039 J	< 0.04 J
2,4-Dinitrotoluene	0.7	NS	< 0.012	< 0.014	< 0.013	< 0.012	< 0.012	< 0.012	< 0.012
2,6-Dinitrotoluene	0.7	NS	< 0.015	< 0.017	< 0.016	< 0.014	< 0.014	< 0.014	< 0.014
2-Chloronaphthalene	NS	NS	< 0.012	< 0.013	< 0.012	< 0.011	< 0.011	< 0.011	< 0.011
2-Chlorophenol	310	0.5	< 0.024	< 0.027	< 0.025	< 0.023	< 0.023	< 0.023	< 0.023
2-Methylnaphthalene	230	5	< 0.034	< 0.038	< 0.036	< 0.032	< 0.032	< 0.032	< 0.032
2-Methylphenol	310	NS	< 0.037	< 0.041	< 0.039	< 0.035	< 0.035	< 0.035	< 0.035
2-Nitroaniline	39	NS	< 0.024	< 0.027	< 0.025	< 0.023	< 0.023	< 0.023	< 0.023
2-Nitrophenol	NS	NS	< 0.044	< 0.049	< 0.046	< 0.042	< 0.042	< 0.041	< 0.042
3&4-Methylphenol	NS	NS	< 0.047	< 0.052	< 0.049	< 0.044	< 0.044	< 0.044	< 0.045
3,3'-Dichlorobenzidine	1	0.2	< 0.028	< 0.03	< 0.029	< 0.026	< 0.026	< 0.026	< 0.026
3-Nitroaniline	NS	NS	< 0.025	< 0.028	< 0.027	< 0.024	< 0.024	< 0.024	< 0.024
4,6-Dinitro-2-methylphenol	6	0.3	< 0.07	< 0.077	< 0.073	< 0.066	< 0.066	< 0.065	< 0.066
4-Bromophenyl phenyl ether	NS	NS	< 0.017	< 0.018	< 0.017	< 0.016	< 0.016	< 0.016	< 0.016
4-Chloro-3-Methylphenol	NS	NS	< 0.052	< 0.057	< 0.054	< 0.049	< 0.049	< 0.049	< 0.049
4-Chloroaniline	NS	NS	< 0.014	< 0.015	< 0.014	< 0.013	< 0.013	< 0.013	< 0.013
4-Chlorophenyl phenyl ether	NS	NS	< 0.011	< 0.012	< 0.011	< 0.01	< 0.01	< 0.01	< 0.01
4-Nitroaniline	NS	NS	< 0.022	< 0.024	< 0.023	< 0.021	< 0.021	< 0.02	< 0.021
4-Nitrophenol	NS	NS	< 0.067 J	< 0.074 J	< 0.07 J	< 0.063 J	< 0.063 J	< 0.063 J	< 0.063 J
Acenaphthene	3400	74	< 0.012	< 0.013	< 0.013	< 0.011	< 0.011	< 0.011	< 0.011
Acenaphthylene	NS	NS	< 0.0077	< 0.0085	< 0.0081	< 0.0073	< 0.0073	< 0.0073	< 0.0073
Acetophenone	2	2	0.0304 J	< 0.013	< 0.012	< 0.011	< 0.011	< 0.011	< 0.011
Anthracene	17000	1500	< 0.035	< 0.039	< 0.037	< 0.033	< 0.033	< 0.033	< 0.033
Atrazine	210	0.2	< 0.022	< 0.024	< 0.023	< 0.021	< 0.021	< 0.021	< 0.021
Benzaldehyde	6100	NS	< 0.0072 J	< 0.008 J	< 0.0075 J	< 0.0068 J	< 0.0068 J	< 0.0068 J	< 0.0068 J
Benzo(a)anthracene	0.6	0.5	0.0897	< 0.0087	< 0.0082	0.0183 J	< 0.0074	0.0193 J	< 0.0075
Benzo(a)pyrene	0.2	0.2	0.105	< 0.021	< 0.02	0.0192 J	< 0.018	0.0222 J	< 0.018
Benzo(b)fluoranthene	0.6	2	0.106	< 0.014	< 0.013	0.016 J	< 0.012	0.0209 J	< 0.012
Benzo(g,h,i)perylene	380000	NS	0.0879	< 0.017	< 0.016	0.0173 J	< 0.014	0.015 J	< 0.014
Benzo(k)fluoranthene	6	16	0.0794	< 0.018	< 0.017	< 0.015	< 0.015	0.0171 J	< 0.016
Benzyl butyl phthalate	1200	150	0.156 J	< 0.015 J	< 0.014 J	< 0.013 J	< 0.013 J	< 0.013 J	< 0.013 J
bis(2-Chloroethoxy)methane	NS	NS	< 0.015	< 0.016	< 0.015	< 0.014	< 0.014	< 0.014	< 0.014
bis(2-Chloroethyl)ether	0.4	0.2	< 0.017	< 0.019	< 0.018	< 0.016	< 0.016	< 0.016	< 0.017
bis(2-Chloroisopropyl)ether	23	3	< 0.022	< 0.025	< 0.023	< 0.021	< 0.021	< 0.021	< 0.021
bis(2-Ethylhexyl)phthalate	35	790	0.28	0.0614 J	< 0.024	< 0.022	0.0749	< 0.022	< 0.022

Footnotes on page 11

Table 1. Summary of Surface Soil Analytical Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Sample Name Sample Date Validation Status	NJ Residential Direct Contact Soil (NJAC 7: 26D 6/08)	NJ Default Impact to Groundwater Soil Screening (NJAC 7:26D 12/08)	CMI-SS-01 10/23/2007 Final	CMI-SS-02 10/23/2007 Final	CMI-SS-03 10/23/2007 Final	CMI-SS-04 10/23/2007 Final	CMI-SS-05 10/23/2007 Final	CMI-SS-06 10/23/2007 Final	CMI-SS-07 10/23/2007 Final
SVOC									
Caprolactam	31000	8	< 0.02 J	< 0.022 J	< 0.021 J	< 0.019 J	< 0.019 J	< 0.019 J	< 0.019 J
Carbazole	24	NS	< 0.013	< 0.014	< 0.013	< 0.012	< 0.012	< 0.012	< 0.012
Chrysene	62	52	0.0929	< 0.017	< 0.016	0.0225 J	< 0.015	0.0218 J	< 0.015
Dibenzo(a,h)anthracene	0.2	0.5	< 0.0098	< 0.011	< 0.01	< 0.0092	< 0.0092	< 0.0092	< 0.0093
Dibenzofuran	NS	NS	< 0.0075	< 0.0083	< 0.0078	< 0.0071	< 0.0071	< 0.007	< 0.0071
Diethyl phthalate	49000	57	< 0.013	< 0.015	< 0.014	< 0.013	< 0.013	< 0.013	< 0.013
Dimethyl phthalate	NS	NS	< 0.01	< 0.011	< 0.011	< 0.0097	< 0.0097	< 0.0097	< 0.0098
di-n-butyl phthalate	6100	620	0.18	< 0.012	< 0.011	< 0.01	< 0.01	< 0.0099	< 0.01
di-n-octylphthalate	2400	3300	< 0.016	< 0.017	< 0.016	< 0.015	< 0.015	< 0.015	< 0.015
Fluoranthene	2300	840	0.15	0.0229 J	0.0247 J	0.0274 J	< 0.0067	0.0236 J	< 0.0067
Fluorene	2300	110	< 0.0077	< 0.0085	< 0.008	< 0.0072	< 0.0072	< 0.0072	< 0.0073
Hexachlorobenzene	0.3	0.2	< 0.019	< 0.02	< 0.019	< 0.017	< 0.017	< 0.017	< 0.017
Hexachlorobutadiene	6	0.6	< 0.018	< 0.02	< 0.018	< 0.017	< 0.017	< 0.017	< 0.017
Hexachlorocyclopentadiene	45	210	< 0.018 J	< 0.02 J	< 0.019 J	< 0.017 J	< 0.017 J	< 0.017 J	< 0.017 J
Hexachloroethane	35	0.2	< 0.016	< 0.018	< 0.017	< 0.015	< 0.015	< 0.015	< 0.015
Indeno(1,2,3-cd)pyrene	0.6	5	0.0774	< 0.039	< 0.037	< 0.033	< 0.033	< 0.033	< 0.034
Isophrone	510	0.2	< 0.012	< 0.014	< 0.013	< 0.012	< 0.012	< 0.012	< 0.012
Naphthalene	6	16	< 0.0086	< 0.0095	< 0.009	< 0.0081	0.0142 J	< 0.0081	< 0.0081
Nitrobenzene	31	0.2	< 0.013	< 0.014	< 0.013	< 0.012	< 0.012	< 0.012	< 0.012
N-Nitroso-di-n-Propylamine	0.2	0.2	< 0.013	< 0.014	< 0.014	< 0.012	< 0.012	< 0.012	< 0.012
N-Nitrosodiphenylamine	99	0.2	< 0.0084	< 0.0093	< 0.0088	< 0.0079	< 0.0079	< 0.0079	< 0.0079
Pentachlorophenol	3	0.3	< 0.04	< 0.044	< 0.042	< 0.038	< 0.038	< 0.038	< 0.038
Phenanthrene	NS	NS	0.0547 J	< 0.011	< 0.0099	0.0178 J	< 0.009	< 0.0089	< 0.009
Phenol	18000	5	< 0.036 J	< 0.039 J	< 0.037 J	< 0.034 J	< 0.034 J	< 0.033 J	< 0.034 J
Pyrene	1700	550	0.133	0.0219 J	0.0207 J	0.0322 J	< 0.012	0.0206 J	< 0.013
Total TIC, Semi-Volatile	NS	NS	7.36 J	13.32 J	2.58 J	0.72 J	1.38 J	2.06 J	1.87 J
PCBs									
PCB 1016	0.2	0.2	< 0.0073	< 0.008	< 0.0076	< 0.0067	< 0.0069	< 0.0068	< 0.0068
PCB 1221	0.2	0.2	< 0.023	< 0.025	< 0.024	< 0.021	< 0.022	< 0.022	< 0.021
PCB 1232	0.2	0.2	< 0.021	< 0.023	< 0.022	< 0.019	< 0.02	< 0.02	< 0.019
PCB 1242	0.2	0.2	< 0.012	< 0.013	< 0.013	< 0.011	< 0.012	< 0.011	< 0.011
PCB 1248	0.2	0.2	< 0.013	< 0.015	< 0.014	< 0.012	< 0.013	< 0.012	< 0.012
PCB 1254	0.2	0.2	0.175	< 0.02	< 0.019	< 0.017	0.156	< 0.017	< 0.017
PCB 1260	0.2	0.2	< 0.0077	< 0.0085	< 0.0081	< 0.0071	< 0.0073	< 0.0072	< 0.0072
Total PCBs	0.2	0.2	0.175	0	0	0	0.156	0	0

Footnotes on page 11

Table 1. Summary of Surface Soil Analytical Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Sample Name Sample Date Validation Status	NJ Residential Direct Contact Soil (NJAC 7: 26D 6/08)	NJ Default Impact to Groundwater Soil Screening (NJAC 7:26D 12/08)	CMI-SS-01 10/23/2007 Final	CMI-SS-02 10/23/2007 Final	CMI-SS-03 10/23/2007 Final	CMI-SS-04 10/23/2007 Final	CMI-SS-05 10/23/2007 Final	CMI-SS-06 10/23/2007 Final	CMI-SS-07 10/23/2007 Final
Metals - Total									
Aluminum	78000	3900	12000	15600	16100	8130	9480	10400	9020
Antimony	31	6	< 0.79 J	< 0.8 J	< 0.76 J	< 0.69 J	< 0.68 J	< 0.69 J	< 0.7 J
Arsenic	19	19	11.2	5	3.7	4.8	4.8	5.3	3.8
Barium	16000	1300	60.2	42.8	62.2	27.7	24	31.2	29.4
Beryllium	16	0.5	0.47 BJ	0.58 BJ	0.55 BJ	0.5 BJ	0.54 J	0.51 BJ	0.54 J
Cadmium	78	1	1.5	0.37 B	0.32 B	0.25 B	0.27 B	0.29 B	0.29 B
Calcium	NS	NS	4910 J	1140 J	2120 J	1410 J	951 J	1280 J	989 J
Chromium	NS	NS	56.4 J	18 J	23.9 J	14.1 J	13.6 J	16.9 J	10.9 J
Cobalt	1600	59	10 J	7.9 J	11.2 J	7.2 J	18.3 J	9.2 J	9.7 J
Copper	3100	7300	48.8	15.8	15.9	16.2	18.1	15.8	20.3
Iron	NS	NS	28900 J	20900 J	22600 J	18300 J	19800 J	24600 J	19800 J
Lead	400	59	91	38.4	14.2	18	14.2	8.9	11.7
Magnesium	NS	NS	4100 J	3120 J	3660 J	3010 J	3410 J	3390 J	3440 J
Manganese	11000	42	304 J	355 J	884 J	361 J	300 J	445 J	424 J
Mercury	23	0.1	0.2	0.082	0.048	< 0.022	0.03 B	0.026 B	< 0.022
Nickel	1600	31	17	14.3	18.3	16.5	21.2	17	15.7
Potassium	NS	NS	1250 J	858 BJ	973 BJ	887 BJ	728 BJ	758 BJ	810 BJ
Selenium	390	7	2.8	2.3 B	2.6	1.9 B	2.5	2.8	2.4
Silver	390	1	< 0.55	< 0.55	< 0.53	< 0.47	< 0.47	< 0.48	< 0.49
Sodium	NS	NS	< 110	< 110	< 100	< 95	< 94	< 95	< 97
Thallium	5	3	1.1 B	1.1 B	< 0.86	< 0.78	0.88 B	< 0.78	0.81 B
Vanadium	78	NS	42.9	33.4	43.9	28.9	16.4	31.6	18.1
Zinc	23000	600	197 J	56.8 J	48.9 J	53.3 J	57.3 J	43.9 J	51.8 J
Other									
Total PHC	NS	NS	145	49.1	21.5	23.1	22.7	19.4	16.2
Percent Moisture	NS	NS	14.1	21.6	16.8	7	8.6	8.3	7.5
Solids, Percent	NS	NS	85.9	78.4	83.2	93	91.4	91.7	92.5

Footnotes on page 11

Table 1. Summary of Surface Soil Analytical Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Sample Name Sample Date Validation Status	NJ Residential Direct Contact Soil (NJAC 7: 26D 6/08)	NJ Default Impact to Groundwater Soil Screening (NJAC 7:26D 12/08)	CMI-SS-08 10/23/2007 Final	CMI-SS-09 10/23/2007 Final	CMI-SS-10 10/23/2007 Final	CMI-SS-10 Dup 10/23/2007 Final	Field Blank 10/23/2007 Final	TRIP BLANK 10/23/2007 Final
VOC								
1,1,1-Trichloroethane	290	0.2	< 0.00043	< 0.00036	< 0.00049	< 0.00045	< 0.3	< 0.3
1,1,2,2-Tetrachloroethane	1	0.005	< 0.00034	< 0.00028	< 0.00038	< 0.00035	< 0.8	< 0.8
1,1,2-Trichloroethane	2	0.01	< 0.00034	< 0.00028	< 0.00038	< 0.00035	< 0.49	< 0.49
1,1-Dichloroethane	8	0.2	< 0.0008	< 0.00065	< 0.00089	< 0.00082	< 0.2	< 0.2
1,1-Dichloroethene	11	0.005	< 0.00053	< 0.00044	< 0.0006	< 0.00055	< 0.28	< 0.28
1,2,4-Trichlorobenzene	73	0.4	< 0.00041	< 0.00033	< 0.00045	< 0.00042	< 0.41	< 0.41
1,2-Dibromo-3-Chloropropane (DBCP)	0.08	0.005	< 0.0011	< 0.00089	< 0.0012	< 0.0011	< 0.8	< 0.8
1,2-Dibromoethane	0.008	0.005	< 0.00034	< 0.00028	< 0.00038	< 0.00035	< 0.45	< 0.45
1,2-Dichlorobenzene	5300	11	< 0.00032	< 0.00026	< 0.00036	< 0.00033	< 0.2	< 0.2
1,2-Dichloroethane	0.9	0.005	< 0.00027	< 0.00022	< 0.0003	< 0.00028	< 0.29	< 0.29
1,2-Dichloropropane	2	0.005	< 0.00047	< 0.00039	< 0.00053	< 0.00049	< 0.24	< 0.24
1,3-Dichlorobenzene	5300	12	< 0.00042	< 0.00035	< 0.00047	< 0.00043	< 0.21	< 0.21
1,4-Dichlorobenzene	5	1	< 0.00034	< 0.00028	< 0.00039	< 0.00036	< 0.17	< 0.17
2-Butanone (MEK)	3100	0.6	< 0.0032	< 0.0027	< 0.0036	< 0.0033	< 2.7	< 2.7
2-Hexanone	NS	NS	< 0.002	< 0.0016	< 0.0022	< 0.002	< 0.94	< 0.94
4-methyl-2-pentanone (MIBK)	NS	NS	< 0.0023	< 0.0019	< 0.0026	< 0.0023	< 1.4	< 1.4
Acetone	70000	12	< 0.0047	< 0.0039	< 0.0053	0.0196	< 2.9	< 2.9
Benzene	2	0.005	< 0.00083	< 0.00069	< 0.00093	< 0.00086	< 0.19	< 0.19
Bromodichloromethane	1	0.005	< 0.00029	< 0.00024	< 0.00032	< 0.00029	< 0.15	< 0.15
Bromoform	81	0.02	< 0.00094	< 0.00078	< 0.0011	< 0.00097	< 0.34	< 0.34
Bromomethane	25	0.03	< 0.00056	< 0.00046	< 0.00063	< 0.00058	< 0.38	< 0.38
Carbon disulfide	7800	4	< 0.00033	< 0.00028	< 0.00037	< 0.00034	< 0.14	< 0.14
Carbon tetrachloride	0.6	0.005	< 0.00029	< 0.00024	< 0.00032	< 0.00029	< 0.19	< 0.19
Chlorobenzene	510	0.4	< 0.00064	< 0.00053	< 0.00072	< 0.00066	< 0.19	< 0.19

Footnotes on page 11

Table 1. Summary of Surface Soil Analytical Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Sample Name Sample Date Validation Status	NJ Residential Direct Contact Soil (NJAC 7: 26D 6/08)	NJ Default Impact to Groundwater Soil Screening (NJAC 7:26D 12/08)	CMI-SS-08 10/23/2007 Final	CMI-SS-09 10/23/2007 Final	CMI-SS-10 10/23/2007 Final	CMI-SS-10 Dup 10/23/2007 Final	Field Blank 10/23/2007 Final	TRIP BLANK 10/23/2007 Final
VOC								
Chloroethane	220	NS	< 0.0006	< 0.00049	< 0.00067	< 0.00062	< 0.67	< 0.67
Chloroform	0.6	0.2	< 0.00046	< 0.00038	< 0.00051	< 0.00047	< 0.25	< 0.25
Chloromethane	4	NS	< 0.0006	< 0.0005	< 0.00068	< 0.00062	< 0.3	< 0.3
cis-1,2-Dichloroethene	230	0.2	< 0.00022	< 0.00018	< 0.00025	< 0.00023	< 0.27	< 0.27
cis-1,3-Dichloropropene	2	0.005	< 0.00058	< 0.00047	< 0.00064	< 0.00059	< 0.13	< 0.13
Cyclohexane	NS	NS	< 0.00045	< 0.00037	< 0.00051	< 0.00047	< 0.85	< 0.85
Dibromochloromethane	3	0.005	< 0.00024	< 0.0002	< 0.00027	< 0.00025	< 0.28	< 0.28
Dichlorodifluoromethane	490	25	< 0.00047	< 0.00039	< 0.00052	< 0.00048	< 1	< 1
Ethylbenzene	7800	8	< 0.00056	< 0.00046	< 0.00062	< 0.00057	< 0.21	< 0.21
Freon 113	NS	NS	< 0.00043	< 0.00035	< 0.00048	< 0.00044	< 1.2	< 1.2
Isopropylbenzene	NS	NS	< 0.00034	< 0.00028	< 0.00038	< 0.00035	< 0.54	< 0.54
Methyl acetate	78000	14	< 0.0036	< 0.003	< 0.004	< 0.0037	< 1.6	< 1.6
Methyl tert butyl ether	110	0.2	< 0.00072	< 0.0006	< 0.00081	< 0.00075	< 0.2	< 0.2
Methylcyclohexane	NS	NS	< 0.00058	< 0.00048	< 0.00065	< 0.0006	< 0.5	< 0.5
Methylene chloride	34	0.007	< 0.00054	< 0.00045	< 0.00061	< 0.00056	< 0.21	< 0.21
o-Xylene	NS	NS	< 0.0003	< 0.00025	< 0.00033	< 0.00031	< 0.2	< 0.2
Styrene	90	2	< 0.00026	< 0.00022	< 0.00029	< 0.00027	< 0.2	< 0.2
Tetrachloroethene	2	0.005	< 0.00038	< 0.00032	< 0.00043	< 0.00039	< 0.28	< 0.28
Toluene	6300	4	< 0.00048	< 0.0004	< 0.00054	< 0.0005	< 0.21	< 0.21
Trans-1,2-dichloroethene	300	0.4	< 0.00064	< 0.00052	< 0.00071	< 0.00066	< 0.32	< 0.32
trans-1,3-Dichloropropene	2	0.005	< 0.00093	< 0.00076	< 0.001	< 0.00095	< 0.17	< 0.17
Trichloroethene	7	0.007	< 0.00037	< 0.00031	< 0.00042	< 0.00038	< 0.26	< 0.26
Trichlorofluoromethane	23000	22	< 0.00054	< 0.00044	< 0.0006	< 0.00056	< 0.26	< 0.26
Vinyl Chloride	0.7	0.005	< 0.00064	< 0.00053	< 0.00072	< 0.00066	< 0.22	< 0.22
Xylene, -m,p	NS	NS	< 0.00056	< 0.00046	< 0.00063	< 0.00058	< 0.35	< 0.35
Xylenes	12000	12	< 0.0003	< 0.00025	< 0.00033	< 0.00031	< 0.2	< 0.2
Total TIC, Volatile	NS	NS	0	0	0.0139 J	0	0	0

Footnotes on page 11

Table 1. Summary of Surface Soil Analytical Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Sample Name Sample Date Validation Status	NJ Residential Direct Contact Soil (NJAC 7: 26D 6/08)	NJ Default Impact to Groundwater Soil Screening (NJAC 7:26D 12/08)	CMI-SS-08 10/23/2007 Final	CMI-SS-09 10/23/2007 Final	CMI-SS-10 10/23/2007 Final	CMI-SS-10 Dup 10/23/2007 Final	Field Blank 10/23/2007 Final	TRIP BLANK 10/23/2007 Final
SVOC								
1,1'-Biphenyl	3100	90	< 0.011	< 0.01	< 0.011	< 0.012	< 0.33	NA
2,4,5-Trichlorophenol	6100	44	< 0.076	< 0.07	< 0.078	< 0.081	< 1.9	NA
2,4,6-Trichlorophenol	19	0.2	< 0.081	< 0.074	< 0.083	< 0.086	< 1.3	NA
2,4-Dichlorophenol	180	0.2	< 0.042	< 0.038	< 0.043	< 0.044	< 1.6	NA
2,4-Dimethylphenol	1200	0.7	< 0.049	< 0.045	< 0.05	< 0.052	< 1.7	NA
2,4-Dinitrophenol	120	0.3	< 0.044 J	< 0.041 J	< 0.045 J	< 0.047 J	< 0.9	NA
2,4-Dinitrotoluene	0.7	NS	< 0.013	< 0.012	< 0.013	< 0.014	< 0.87	NA
2,6-Dinitrotoluene	0.7	NS	< 0.016	< 0.015	< 0.016	< 0.017	< 0.56	NA
2-Chloronaphthalene	NS	NS	< 0.012	< 0.011	< 0.012	< 0.013	< 0.99	NA
2-Chlorophenol	310	0.5	< 0.026	< 0.024	< 0.026	< 0.027	< 0.96	NA
2-Methylnaphthalene	230	5	< 0.036	< 0.033	< 0.037	< 0.038	< 0.41	NA
2-Methylphenol	310	NS	< 0.039	< 0.036	< 0.04	< 0.041	< 1.4	NA
2-Nitroaniline	39	NS	< 0.026	< 0.023	< 0.026	< 0.027	< 0.67	NA
2-Nitrophenol	NS	NS	< 0.047	< 0.043	< 0.047	< 0.049	< 1.8	NA
3&4-Methylphenol	NS	NS	< 0.05	< 0.046	< 0.051	< 0.053	< 1.3	NA
3,3'-Dichlorobenzidine	1	0.2	< 0.029	< 0.027	< 0.03	< 0.031	< 1.2	NA
3-Nitroaniline	NS	NS	< 0.027	< 0.025	< 0.027	< 0.028	< 1.3	NA
4,6-Dinitro-2-methylphenol	6	0.3	< 0.074	< 0.067	< 0.075	< 0.078	< 0.73	NA
4-Bromophenyl phenyl ether	NS	NS	< 0.018	< 0.016	< 0.018	< 0.019	< 0.3	NA
4-Chloro-3-Methylphenol	NS	NS	< 0.055	< 0.05	< 0.056	< 0.058	< 1.2	NA
4-Chloroaniline	NS	NS	< 0.015	< 0.013	< 0.015	< 0.015	< 0.4	NA
4-Chlorophenyl phenyl ether	NS	NS	< 0.011	< 0.011	< 0.012	< 0.012	< 0.44	NA
4-Nitroaniline	NS	NS	< 0.023	< 0.021	< 0.023	< 0.024	< 0.73	NA
4-Nitrophenol	NS	NS	< 0.071 J	< 0.065 J	< 0.072 J	< 0.075 J	< 0.85	NA
Acenaphthene	3400	74	< 0.013	< 0.012	< 0.013	< 0.013	< 0.35	NA
Acenaphthylene	NS	NS	< 0.0082	< 0.0075	< 0.0083	< 0.0086	< 0.38	NA
Acetophenone	2	2	< 0.012	< 0.011	< 0.012	< 0.013	< 0.38	NA
Anthracene	17000	1500	< 0.037	< 0.034	< 0.038	< 0.039	< 0.4	NA
Atrazine	210	0.2	< 0.023	< 0.021	< 0.023	< 0.024	< 0.16	NA
Benzaldehyde	6100	NS	< 0.0076 J	< 0.007 J	< 0.0077 J	< 0.008 J	< 0.27	NA
Benzo(a)anthracene	0.6	0.5	< 0.0083	< 0.0076	0.0321 J	0.0463 J	< 0.36	NA
Benzo(a)pyrene	0.2	0.2	< 0.02	< 0.018	0.041 J	0.0633 J	< 0.37	NA
Benzo(b)fluoranthene	0.6	2	< 0.013	< 0.012	0.0413 J	0.0587 J	< 0.6	NA
Benzo(g,h,i)perylene	380000	NS	< 0.016	< 0.015	0.0335 J	0.0481 J	< 0.43	NA
Benzo(k)fluoranthene	6	16	< 0.017	< 0.016	0.0326 J	0.0517 J	< 0.43	NA
Benzyl butyl phthalate	1200	150	< 0.015 J	< 0.013 J	0.168 J	< 0.015 J	< 0.6	NA
bis(2-Chloroethoxy)methane	NS	NS	< 0.016	< 0.014	< 0.016	< 0.016	< 0.66	NA
bis(2-Chloroethyl)ether	0.4	0.2	< 0.018	< 0.017	< 0.019	< 0.019	< 0.54	NA
bis(2-Chloroisopropyl)ether	23	3	< 0.023	< 0.022	< 0.024	< 0.025	< 0.75	NA
bis(2-Ethylhexyl)phthalate	35	790	0.0842	0.0596 J	0.0828	0.0825 J	< 0.67	NA

Footnotes on page 11

Table 1. Summary of Surface Soil Analytical Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Sample Name Sample Date Validation Status	NJ Residential Direct Contact Soil (NJAC 7: 26D 6/08)	NJ Default Impact to Groundwater Soil Screening (NJAC 7:26D 12/08)	CMI-SS-08 10/23/2007 Final	CMI-SS-09 10/23/2007 Final	CMI-SS-10 10/23/2007 Final	CMI-SS-10 Dup 10/23/2007 Final	Field Blank 10/23/2007 Final	TRIP BLANK 10/23/2007 Final
SVOC								
Caprolactam	31000	8	< 0.021 J	< 0.02 J	< 0.022 J	< 0.023 J	< 0.32	NA
Carbazole	24	NS	< 0.014	< 0.012	< 0.014	< 0.014	< 0.37	NA
Chrysene	62	52	< 0.016	< 0.015	0.0336 J	0.0497 J	< 0.25	NA
Dibenzo(a,h)anthracene	0.2	0.5	< 0.01	< 0.0095	< 0.011	< 0.011	< 0.55	NA
Dibenzofuran	NS	NS	< 0.0079	< 0.0073	< 0.0081	< 0.0084	< 0.35	NA
Diethyl phthalate	49000	57	< 0.014	< 0.013	< 0.014	< 0.015	< 0.39	NA
Dimethyl phthalate	NS	NS	< 0.011	< 0.01	< 0.011	< 0.011	< 0.33	NA
di-n-butyl phthalate	6100	620	< 0.011	< 0.01	< 0.011	< 0.012	< 0.6	NA
di-n-octylphthalate	2400	3300	< 0.016	< 0.015	< 0.017	< 0.017	< 0.57	NA
Fluoranthene	2300	840	0.0186 J	< 0.0069	0.0519 J	0.0755 J	< 0.25	NA
Fluorene	2300	110	< 0.0081	< 0.0074	< 0.0083	< 0.0086	< 0.45	NA
Hexachlorobenzene	0.3	0.2	< 0.019	< 0.018	< 0.02	< 0.021	< 0.54	NA
Hexachlorobutadiene	6	0.6	< 0.019	< 0.017	< 0.019	< 0.02	< 0.18	NA
Hexachlorocyclopentadiene	45	210	< 0.019 J	< 0.017 J	< 0.019 J	< 0.02 J	< 0.41	NA
Hexachloroethane	35	0.2	< 0.017	< 0.015	< 0.017	< 0.018	< 0.29	NA
Indeno(1,2,3-cd)pyrene	0.6	5	< 0.037	< 0.034	< 0.038	0.0472 J	< 0.31	NA
Isophrone	510	0.2	< 0.013	< 0.012	< 0.013	< 0.014	< 0.59	NA
Naphthalene	6	16	< 0.0091	< 0.0083	< 0.0092	< 0.0096	< 0.32	NA
Nitrobenzene	31	0.2	< 0.014	< 0.012	< 0.014	< 0.014	< 0.42	NA
N-Nitroso-di-n-Propylamine	0.2	0.2	< 0.014	< 0.013	< 0.014	< 0.015	< 0.47	NA
N-Nitrosodiphenylamine	99	0.2	< 0.0088	< 0.0081	< 0.009	< 0.0093	< 0.52	NA
Pentachlorophenol	3	0.3	< 0.042	< 0.039	< 0.043	< 0.045	< 1.9	NA
Phenanthrene	NS	NS	< 0.01	< 0.0092	< 0.01	0.022 J	< 0.37	NA
Phenol	18000	5	< 0.038 J	< 0.034 J	< 0.038 J	< 0.04 J	< 0.5	NA
Pyrene	1700	550	< 0.014	< 0.013	0.0497 J	0.0664 J	< 0.34	NA
Total TIC, Semi-Volatile	NS	NS	14.23 J	4.41 J	8.95 J	11.72 J	NA	NA
PCBs								
PCB 1016	0.2	0.2	< 0.0076	< 0.0069	< 0.0077	< 0.0081	< 0.1	NA
PCB 1221	0.2	0.2	< 0.024	< 0.022	< 0.024	< 0.026	< 0.52	NA
PCB 1232	0.2	0.2	< 0.022	< 0.02	< 0.022	< 0.023	< 0.43	NA
PCB 1242	0.2	0.2	< 0.013	< 0.012	< 0.013	< 0.013	< 0.18	NA
PCB 1248	0.2	0.2	< 0.014	< 0.013	< 0.014	< 0.015	< 0.17	NA
PCB 1254	0.2	0.2	< 0.019	< 0.017	0.0805	0.0778	< 0.12	NA
PCB 1260	0.2	0.2	< 0.0081	< 0.0074	< 0.0082	< 0.0086	< 0.13	NA
Total PCBs	0.2	0.2	0	0	0.0805	0.0778	0	NA

Footnotes on page 11

Table 1. Summary of Surface Soil Analytical Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Sample Name Sample Date Validation Status	NJ Residential Direct Contact Soil (NJAC 7: 26D 6/08)	NJ Default Impact to Groundwater Soil Screening (NJAC 7:26D 12/08)	CMI-SS-08 10/23/2007 Final	CMI-SS-09 10/23/2007 Final	CMI-SS-10 10/23/2007 Final	CMI-SS-10 Dup 10/23/2007 Final	Field Blank 10/23/2007 Final	TRIP BLANK 10/23/2007 Final
Metals - Total								
Aluminum	78000	3900	11400	10800	14200	15400	< 26	NA
Antimony	31	6	< 0.83 J	< 0.69 J	< 0.79 J	< 0.83 J	< 5.7	NA
Arsenic	19	19	2.8	4.7	4.9	5.3	< 6	NA
Barium	16000	1300	50.9	35.6	79.3	89.8	< 2.9	NA
Beryllium	16	0.5	0.43 BJ	0.65 J	0.49 BJ	0.52 BJ	< 0.36 J	NA
Cadmium	78	1	0.59 B	0.36 B	0.59 B	0.64	< 0.5	NA
Calcium	NS	NS	2190 J	1010 J	2690 J	2730 J	< 150	NA
Chromium	NS	NS	22 J	16 J	27.7 J	28 J	< 9	NA
Cobalt	1600	59	13.6 J	10.1 J	12.1 J	12.9 J	< 10	NA
Copper	3100	7300	35.2	19.1	48	51.4	< 2.2	NA
Iron	NS	NS	24800 J	26600 J	28200 J	27600 J	< 70	NA
Lead	400	59	59.5	18.7	226	246	< 3	NA
Magnesium	NS	NS	4520 J	3850 J	3700 J	3950 J	< 25	NA
Manganese	11000	42	441 J	799 J	328 J	2020 J	< 1.5	NA
Mercury	23	0.1	0.055	0.034 B	0.31	0.34	< 0.15	NA
Nickel	1600	31	18.7	23.7	17.8	20.1	< 5.1	NA
Potassium	NS	NS	1400 J	772 BJ	1470 J	1510 J	< 260	NA
Selenium	390	7	3	2.4	3.2	2.7	< 9.3	NA
Silver	390	1	< 0.57	< 0.48	< 0.55	< 0.57	< 6.3	NA
Sodium	NS	NS	< 110	< 96	< 110	< 110	< 560	NA
Thallium	5	3	1.2 B	< 0.79	1.1 B	< 0.94	< 6	NA
Vanadium	78	NS	43.7	19.8	49.1	48.3	< 1.8	NA
Zinc	23000	600	80.5 J	72.4 J	148 J	172 J	< 2.9	NA
Other								
Total PHC	NS	NS	69.5	36.6	50.3	56.3	< 0.016	NA
Percent Moisture	NS	NS	17.6	9.9	18.8	NA	NA	NA
Solids, Percent	NS	NS	82.4	90.1	81.2	78.6	NA	NA

Footnotes on page 11

Table 1. Summary of Surface Soil Analytical Results, J74846, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Results are reported in milligrams per kilogram (mg/kg), except for trip blanks which are in micrograms per liter (ug/l).

<	Not detected.
NA	Not analyzed.
NS	No standard.
B	Inorganic B: Result is between the detection and quantification limit.
J	Estimated result.
PCB	Polychlorinated biphenyls.
SVOC	Semi-volatile organic compound.
VOC	Volatile organic compound.
Bold	Exceedances of NJ Residential Direct Contact Soil (NJAC 7: 26D 6/08)
Underline	Exceedances of NJ Default Impact to Groundwater Soil Screening (NJAC 7:26D 12/08)

Table 2. Summary of Soil Boring Sampling Intervals, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Soil Boring Location	Sampling Intervals
CMI-S1	3.5-4.0 8.5-9.0 21.5-22 31.0-31.5
CMI-S2	2.5-3.0 14.5-15.0 17.5-18
CMI-S3	6.0-6.5 16.0-16.5 21.5-22.0 31.5-32.0 45.5-46.0
CMI-S4	5.0-5.5 14.0-14.5 20.0-20.5 35.0-35.5 43.5-44.0 51.0-51.5
CMI-S5	5.0-5.5 14.0-14.5 26.5-27.0 35.0-35.5 45.5-46.0
CMI-S6	5.5-6.0 20.5-21.0 36.5-37.0 41.5-42 49.5-50.0 61.5-62.0

Table 3. Comparison of Soil Analytical Results to the RDC Soil Cleanup Criteria and the 2008 Residentail Direct Contact Soil Remediation Standards, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location			CMI-S1				
Sample Name	NJ Residential	NJ Residential	CMI-S1(3.5-4.0)	CMI-S1(3.5-4.0) Dup	CMI-S1(8.5-9)	CMI-S1(31-31.5)	CMI-S1(21.5-22)
Sample Date	Direct Contact Soil	Soil Criteria	12/13/2007	12/13/2007	12/13/2007	12/13/2007	12/13/2007
Validation Status	(NJAC 7: 26D 6/08)	(NJAC 7:26D	Final	Final	Final	Final	Final
VOC							
1,1,1-Trichloroethane	290	210	< 0.00033	< 0.00035	< 0.00037	< 0.00023	< 0.00034
1,1,2,2-Tetrachloroethane	1	34	< 0.00026	< 0.00028	< 0.00029	< 0.00018	< 0.00027
1,1,2-Trichloroethane	2	22	< 0.00026	< 0.00028	< 0.00029	< 0.00018	< 0.00027
1,1-Dichloroethane	8	570	< 0.0006	< 0.00065	< 0.00067	< 0.00043	< 0.00063
1,1-Dichloroethene	11	8	< 0.00041	< 0.00044	< 0.00045	< 0.00029	< 0.00042
1,2,4-Trichlorobenzene	73	68	< 0.00031	< 0.00033	< 0.00034	< 0.00022	< 0.00032
1,2-Dibromo-3-Chloropropane (DBCP)	0.08	NS	< 0.00082	< 0.00088	< 0.00091	< 0.00058	< 0.00085
1,2-Dibromoethane	0.008	NS	< 0.00026	< 0.00027	< 0.00028	< 0.00018	< 0.00027
1,2-Dichlorobenzene	5300	5100	< 0.00024	< 0.00026	< 0.00027	< 0.00017	< 0.00025
1,2-Dichloroethane	0.9	6	< 0.00021	< 0.00022	< 0.00023	< 0.00015	< 0.00022
1,2-Dichloropropane	2	10	< 0.00036	< 0.00039	< 0.0004	< 0.00025	< 0.00038
1,3-Dichlorobenzene	5300	5100	< 0.00032	< 0.00035	< 0.00036	< 0.00023	< 0.00034
1,4-Dichlorobenzene	5	570	< 0.00026	< 0.00028	< 0.00029	< 0.00018	< 0.00027
2-Butanone (MEK)	3100	1000	< 0.0025	< 0.0027	< 0.0027	< 0.0017	< 0.0026
2-Hexanone	NS	NS	< 0.0015	< 0.0016	< 0.0017	< 0.0011	< 0.0016
4-methyl-2-pentanone (MIBK)	NS	1000	< 0.0017	< 0.0019	< 0.0019	< 0.0012	< 0.0018
Acetone	70000	1000	< 0.0036	< 0.0039	0.0294	0.0215	< 0.0037
Benzene	2	3	< 0.00063	< 0.00068	< 0.00071	< 0.00045	< 0.00066
Bromodichloromethane	1	11	< 0.00022	< 0.00023	< 0.00024	< 0.00015	< 0.00023
Bromoform	81	86	< 0.00071	< 0.00077	< 0.0008	< 0.0005	< 0.00075
Bromomethane	25	79	< 0.00042	< 0.00046	< 0.00047	< 0.0003	< 0.00044
Carbon disulfide	7800	NS	< 0.00025	0.00097 J	< 0.00028	< 0.00018	< 0.00027
Carbon tetrachloride	0.6	2	< 0.00022	< 0.00023	< 0.00024	< 0.00015	< 0.00023
Chlorobenzene	510	37	< 0.00049	< 0.00053	< 0.00054	< 0.00034	< 0.00051
Chloroethane	220	NS	< 0.00045	< 0.00049	< 0.00051	< 0.00032	< 0.00047
Chloroform	0.6	19	< 0.00035	< 0.00037	< 0.00039	< 0.00024	< 0.00036
Chloromethane	4	520	< 0.00046	< 0.00049	< 0.00051	< 0.00032	< 0.00048
cis-1,2-Dichloroethene	230	79	< 0.00017	< 0.00018	< 0.00019	< 0.00012	< 0.00018
cis-1,3-Dichloropropene	2	4	< 0.00044	< 0.00047	< 0.00049	< 0.00031	< 0.00046
Cyclohexane	NS	NS	< 0.00034	< 0.00037	< 0.00038	< 0.00024	< 0.00036
Dibromochloromethane	3	110	< 0.00018	< 0.0002	< 0.0002	< 0.00013	< 0.00019
Dichlorodifluoromethane	490	NS	< 0.00036	< 0.00038	< 0.0004	< 0.00025	< 0.00037
Ethylbenzene	7800	1000	< 0.00042	< 0.00046	< 0.00047	< 0.0003	0.00055 J
Freon 113	NS	NS	< 0.00032	< 0.00035	< 0.00036	< 0.00023	< 0.00034
Isopropylbenzene	NS	NS	< 0.00026	< 0.00028	< 0.00029	< 0.00018	< 0.00027
Methyl acetate	78000	NS	< 0.0027	< 0.0029	< 0.003	< 0.0019	< 0.0028
Methyl tert butyl ether	110	NS	< 0.00055	< 0.00059	< 0.00061	< 0.00039	< 0.00058
Methylcyclohexane	NS	NS	< 0.00044	< 0.00047	< 0.00049	< 0.00031	< 0.00046
Methylene chloride	34	49	< 0.00041	< 0.00044	< 0.00046	< 0.00029	< 0.00043
o-Xylene	NS	NS	< 0.00023	< 0.00024	< 0.00025	< 0.00016	< 0.00024
Styrene	90	23	< 0.0002	< 0.00021	< 0.00022	< 0.00014	< 0.00021
Tetrachloroethene	2	4	< 0.00029	< 0.00031	< 0.00032	< 0.00021	< 0.0003
Toluene	6300	1000	< 0.00037	< 0.0004	< 0.00041	< 0.00026	< 0.00038
Trans-1,2-dichloroethene	300	1000	< 0.00048	< 0.00052	< 0.00054	< 0.00034	< 0.00051
trans-1,3-Dichloropropene	2	4	< 0.0007	< 0.00076	< 0.00078	< 0.0005	< 0.00074
Trichloroethene	7	23	< 0.00028	< 0.00031	< 0.00032	< 0.0002	< 0.0003
Trichlorofluoromethane	23000	NS	< 0.00041	< 0.00044	< 0.00046	< 0.00029	< 0.00043
Vinyl Chloride	0.7	2	< 0.00049	< 0.00052	< 0.00054	< 0.00034	< 0.00051
Xylene, -m,p	NS	NS	< 0.00043	< 0.00046	< 0.00048	< 0.0003	< 0.00045
Xylenes	12000	410	< 0.00023	< 0.00024	< 0.00025	< 0.00016	< 0.00024
Total TIC, Volatile	NS	NS	0	0	0.0075 J	0.011 J	0

Table 3. Comparison of Soil Analytical Results to the RDC Soil Cleanup Criteria and the 2008 Residentail Direct Contact Soil Remediation Standards, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location			CMI-S1				
Sample Name	NJ Residential	NJ Residential	CMI-S1(3.5-4.0)	CMI-S1(3.5-4.0) Dup	CMI-S1(8.5-9)	CMI-S1(31-31.5)	CMI-S1(21.5-22)
Sample Date	Direct Contact Soil	Soil Criteria	12/13/2007	12/13/2007	12/13/2007	12/13/2007	12/13/2007
Validation Status	(NJAC 7: 26D 6/08)	(NJAC 7:26D	Final	Final	Final	Final	Final

Footnote on last page

R2-0005203

Table 3. Comparison of Soil Analytical Results to the RDC Soil Cleanup Criteria and the 2008 Residentail Direct Contact Soil Remediation Standards, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location			CMI-S1				
Sample Name	NJ Residential	NJ Residential	CMI-S1(3.5-4.0)	CMI-S1(3.5-4.0) Dup	CMI-S1(8.5-9)	CMI-S1(31-31.5)	CMI-S1(21.5-22)
Sample Date	Direct Contact Soil	Soil Criteria	12/13/2007	12/13/2007	12/13/2007	12/13/2007	12/13/2007
Validation Status	(NJAC 7: 26D 6/08)	(NJAC 7:26D	Final	Final	Final	Final	Final
SVOC							
1,1'-Biphenyl	3100	NS	< 0.011	< 0.01	< 0.011	< 0.0097	< 0.0093
2,4,5-Trichlorophenol	6100	5600	< 0.073	< 0.073	< 0.075	< 0.068	< 0.065
2,4,6-Trichlorophenol	19	62	< 0.078	< 0.077	< 0.08	< 0.072	< 0.069
2,4-Dichlorophenol	180	170	< 0.04	< 0.04	< 0.041	< 0.037	< 0.036
2,4-Dimethylphenol	1200	1100	< 0.047	< 0.047	< 0.048	< 0.044	< 0.042
2,4-Dinitrophenol	120	110	< 0.043	< 0.042	< 0.044	< 0.039	< 0.038
2,4-Dinitrotoluene	0.7	1	< 0.013	< 0.012	< 0.013	< 0.012	< 0.011
2,6-Dinitrotoluene	0.7	1	< 0.015	< 0.015	< 0.016	< 0.014	< 0.014
2-Chloronaphthalene	NS	NS	< 0.012	< 0.012	< 0.012	< 0.011	< 0.01
2-Chlorophenol	310	280	< 0.025	< 0.024	< 0.025	< 0.023	< 0.022
2-Methylnaphthalene	230	NS	< 0.035	< 0.034	0.0374 J	< 0.032	< 0.031
2-Methylphenol	310	2800	< 0.037	< 0.037	< 0.038	< 0.035	< 0.033
2-Nitroaniline	39	NS	< 0.025	< 0.024	< 0.025	< 0.023	< 0.022
2-Nitrophenol	NS	NS	< 0.045	< 0.044	< 0.046	< 0.041	< 0.04
3&4-Methylphenol	NS	NS	< 0.048	< 0.047	< 0.049	< 0.044	< 0.043
3,3'-Dichlorobenzidine	1	2	< 0.028	< 0.028	< 0.029	< 0.026	< 0.025
3-Nitroaniline	NS	NS	< 0.026	< 0.026	< 0.026	< 0.024	< 0.023
4,6-Dinitro-2-methylphenol	6	NS	< 0.071	< 0.07	< 0.073	< 0.065	< 0.063
4-Bromophenyl phenyl ether	NS	NS	< 0.017	< 0.017	< 0.017	< 0.016	< 0.015
4-Chloro-3-Methylphenol	NS	10000	< 0.053	< 0.052	< 0.054	< 0.049	< 0.047
4-Chloroaniline	NS	230	< 0.014	< 0.014	< 0.014	< 0.013	< 0.012
4-Chlorophenyl phenyl ether	NS	NS	< 0.011	< 0.011	< 0.011	< 0.01	< 0.0098
4-Nitroaniline	NS	NS	< 0.022	< 0.022	< 0.023	< 0.02	< 0.02
4-Nitrophenol	NS	NS	< 0.068	< 0.067	< 0.07	< 0.063	< 0.06
Acenaphthene	3400	3400	< 0.012	< 0.012	< 0.013	< 0.011	< 0.011
Acenaphthylene	NS	NS	< 0.0078	< 0.0078	< 0.0081	< 0.0072	< 0.007
Acetophenone	2	NS	< 0.012	< 0.012	< 0.012	< 0.011	< 0.01
Anthracene	17000	10000	< 0.036	< 0.035	< 0.037	< 0.033	< 0.032
Atrazine	210	NS	< 0.022	< 0.022	< 0.023	< 0.02	< 0.02
Benzaldehyde	6100	NS	< 0.0073 R	< 0.0072 R	< 0.0075 R	< 0.0067 R	< 0.0065 R
Benzo(a)anthracene	0.6	0.9	< 0.008	< 0.0079	0.0322 J	0.0185 J	< 0.0071
Benzo(a)pyrene	0.2	0.66	< 0.019	< 0.019	< 0.019	< 0.018	< 0.017
Benzo(b)fluoranthene	0.6	0.9	< 0.013	< 0.013	0.0477 J	0.0155 J	< 0.011
Benzo(g,h,i)perylene	380000	NS	< 0.015	< 0.015	0.0458 J	0.0145 J	< 0.014
Benzo(k)fluoranthene	6	0.9	< 0.017	< 0.017	< 0.017	< 0.015	< 0.015
Benzyl butyl phthalate	1200	1100	< 0.014	< 0.014	< 0.014	< 0.013	< 0.012
bis(2-Chloroethoxy)methane	NS	NS	< 0.015	< 0.015	< 0.015	< 0.014	< 0.013
bis(2-Chloroethyl)ether	0.4	0.66	< 0.018	< 0.018	< 0.018	< 0.016	< 0.016
bis(2-Chloroisopropyl)ether	23	2300	< 0.023	< 0.022	< 0.023	< 0.021	< 0.02
bis(2-Ethylhexyl)phthalate	35	49	2.99 J	4.77 J	1.6	< 0.021	< 0.021
Caprolactam	31000	NS	< 0.021	< 0.02	< 0.021	< 0.019	< 0.018
Carbazole	24	NS	< 0.013	< 0.013	< 0.013	< 0.012	< 0.012
Chrysene	62	9	< 0.016	< 0.015	0.0736 J	0.0204 J	< 0.014
Dibenzo(a,h)anthracene	0.2	0.66	< 0.0099	< 0.0098	< 0.01	< 0.0092	< 0.0088
Dibenzofuran	NS	NS	< 0.0076	< 0.0075	< 0.0078	< 0.007	< 0.0068
Diethyl phthalate	49000	10000	< 0.014	< 0.013	< 0.014	< 0.012	< 0.012

Footnote on last page

Table 3. Comparison of Soil Analytical Results to the RDC Soil Cleanup Criteria and the 2008 Residentail Direct Contact Soil Remediation Standards, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location			CMI-S1				
Sample Name	NJ Residential	NJ Residential	CMI-S1(3.5-4.0)	CMI-S1(3.5-4.0) Dup	CMI-S1(8.5-9)	CMI-S1(31-31.5)	CMI-S1(21.5-22)
Sample Date	Direct Contact Soil	Soil Criteria	12/13/2007	12/13/2007	12/13/2007	12/13/2007	12/13/2007
Validation Status	(NJAC 7: 26D 6/08)	(NJAC 7:26D	Final	Final	Final	Final	Final
SVOCs continued							
Dimethyl phthalate	NS	10000	< 0.01	< 0.01	< 0.011	< 0.0097	< 0.0093
di-n-butyl phthalate	6100	5700	< 0.011	< 0.011	< 0.011	< 0.0099	< 0.0095
di-n-octylphthalate	2400	1100	< 0.016	< 0.016	< 0.016	< 0.015	< 0.014
Fluoranthene	2300	2300	< 0.0072	< 0.0071	0.0984	0.0197 J	< 0.0064
Fluorene	2300	2300	< 0.0078	< 0.0077	< 0.008	< 0.0072	< 0.0069
Hexachlorobenzene	0.3	0.66	< 0.019	< 0.019	< 0.019	< 0.017	< 0.017
Hexachlorobutadiene	6	1	< 0.018	< 0.018	< 0.018	< 0.017	< 0.016
Hexachlorocyclopentadiene	45	400	< 0.018	< 0.018	< 0.018	< 0.017	< 0.016
Hexachloroethane	35	6	< 0.016	< 0.016	< 0.017	< 0.015	< 0.014
Indeno(1,2,3-cd)pyrene	0.6	0.9	< 0.036	< 0.036	< 0.037	< 0.033	< 0.032
Isophrone	510	1100	< 0.012	< 0.012	< 0.013	< 0.011	< 0.011
Naphthalene	6	230	< 0.0087	< 0.0086	< 0.009	< 0.0081	< 0.0077
Nitrobenzene	31	28	< 0.013	< 0.013	< 0.013	< 0.012	< 0.012
N-Nitroso-di-n-Propylamine	0.2	0.66	< 0.013	< 0.013	< 0.014	< 0.012	< 0.012
N-Nitrosodiphenylamine	99	140	< 0.0085	< 0.0084	< 0.0087	< 0.0079	< 0.0075
Pentachlorophenol	3	6	< 0.041	< 0.04	< 0.042	< 0.037	< 0.036
Phenanthrene	NS	NS	< 0.0097	< 0.0096	0.0851	< 0.0089	< 0.0086
Phenol	18000	10000	< 0.036	< 0.036	< 0.037	< 0.033	< 0.032
Pyrene	1700	1700	< 0.013	< 0.013	0.114	0.0228 J	< 0.012
Total TIC, Semi-Volatile	NS	NS	0.71 J	1.57 J	11.92 J	0.14 J	0
Pesticides / Herbicides							
4,4-DDD	3	3	0.0047 J	0.003	< 0.00038	0.0027	< 0.00033
4,4-DDE	2	2	0.0062	0.0031 J	0.0029 J	0.0023	< 0.00034
4,4-DDT	2	2	< 0.00047	< 0.00046	< 0.00049	0.0036 J	< 0.00042
Aldrin	0.04	0.04	< 0.00034	< 0.00033	< 0.00035	< 0.00031	< 0.0003
alpha-BHC	0.1	NS	< 0.00028	< 0.00028	< 0.00029	< 0.00026	< 0.00025
alpha-Chlordane	0.2	NS	NA	NA	NA	NA	NA
beta-BHC	0.4	NS	< 0.00033	< 0.00033	< 0.00035	< 0.00031	< 0.0003
Chlordane	0.2	NS	< 0.0099	< 0.0098	< 0.01	< 0.0093	< 0.0089
delta-BHC	NS	NS	< 0.00056	< 0.00056	< 0.00059	< 0.00053	< 0.00051
Dieldrin	0.04	0.042	< 0.00039	< 0.00038	0.0023	< 0.00036	< 0.00035
Endosulfan I (alpha)	470	NS	< 0.00041	< 0.00041	< 0.00043	< 0.00038	< 0.00037
Endosulfan II (beta)	470	NS	< 0.0004	< 0.0004	< 0.00042	< 0.00038	< 0.00036
Endosulfan sulfate	470	NS	< 0.00041	< 0.00041	< 0.00043	< 0.00039	< 0.00037
Endrin	23	17	< 0.00038	< 0.00038	< 0.0004	< 0.00036	< 0.00034
Endrin Aldehyde	NS	NS	< 0.00036	< 0.00036	< 0.00037	< 0.00034	< 0.00032
Endrin ketone	NS	NS	NA	NA	NA	NA	NA
gamma-Chlordane	0.2	NS	NA	NA	NA	NA	NA
Heptachlor	0.1	0.15	< 0.0004	< 0.00039	< 0.00041	< 0.00037	< 0.00036
Heptachlor epoxide	0.07	NS	< 0.00042	< 0.00042	< 0.00044	< 0.00039	< 0.00038
Lindane	0.4	0.52	< 0.00031	< 0.00031	< 0.00032	< 0.00029	< 0.00028
Methoxychlor	390	280	< 0.00051	< 0.0005	< 0.00053	< 0.00047	< 0.00046
Toxaphene	0.6	0.1	< 0.0073	< 0.0072	< 0.0076	< 0.0068	< 0.0065

Footnote on last page

R2-0005205

Table 3. Comparison of Soil Analytical Results to the RDC Soil Cleanup Criteria and the 2008 Residentail Direct Contact Soil Remediation Standards, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location			CMI-S1				
Sample Name	NJ Residential	NJ Residential	CMI-S1(3.5-4.0)	CMI-S1(3.5-4.0) Dup	CMI-S1(8.5-9)	CMI-S1(31-31.5)	CMI-S1(21.5-22)
Sample Date	Direct Contact Soil	Soil Criteria	12/13/2007	12/13/2007	12/13/2007	12/13/2007	12/13/2007
Validation Status	(NJAC 7: 26D 6/08)	(NJAC 7:26D	Final	Final	Final	Final	Final
PCBs							
PCB 1016	0.2	0.49	< 0.0073	< 0.0072	< 0.0075	< 0.0068	< 0.0065
PCB 1221	0.2	0.49	< 0.023	< 0.023	< 0.024	< 0.021	< 0.021
PCB 1232	0.2	0.49	< 0.021	< 0.021	< 0.022	< 0.019	< 0.019
PCB 1242	0.2	0.49	< 0.012	< 0.012	< 0.013	< 0.011	< 0.011
PCB 1248	0.2	0.49	0.0651	0.0589	< 0.014	< 0.012	< 0.012
PCB 1254	0.2	0.49	< 0.018	< 0.018	< 0.019	< 0.017	< 0.016
PCB 1260	0.2	0.49	0.133 J	0.0832 J	0.121	< 0.0072	< 0.0069
Total PCBs	0.2	0.49	0.1981	0.1421	0.121	0	0
Metals - Total							
Aluminum	78000	NS	14300	12700	14600 J	18800	13700
Antimony	31	14	1.9 BJ	2.4 J	22.1 J	< 0.59 J	1.6 BJ
Arsenic	19	20	3 J	4.2 J	13.5	12.8	< 0.7
Barium	16000	700	52.6	62.2	4080 J	54.4 B	76.8
Beryllium	16	2	0.27 B	0.33 B	0.48 B	0.5 B	0.16 B
Cadmium	78	39	0.99 J	1.6 J	56.7 J	0.53 B	0.3 B
Calcium	NS	NS	8880 J	2470 J	7190 J	11200	11800
Chromium	NS	240	20.3	17.1	45.8 J	29.5	50.3
Cobalt	1600	NS	8.5	8.8	13.3 J	24.7 B	29.3
Copper	3100	600	43.3 J	29.4 J	80.3 J	8.1 B	6.3
Iron	NS	NS	20800	24600	42300 J	32500	23900
Lead	400	400	51.1 J	79 J	**1360 J**	6.6 B	2
Magnesium	NS	NS	4650 J	3770 J	4110 J	21800 J	19700 J
Manganese	11000	NS	278 J	392 J	458 J	466	619
Mercury	23	14	0.05	0.05	0.12 J	0.033	< 0.02
Nickel	1600	250	24.9 J	17.2 J	35.8 J	56.1	43.6
Potassium	NS	NS	953 BJ	1010 BJ	1400 J	8450 J	6180 J
Selenium	390	63	< 1.3	< 1.3	< 1.3	< 0.84	< 1.1
Silver	390	110	< 0.25	< 0.25	< 0.26	< 0.39	< 0.22
Sodium	NS	NS	1050 BJ	719 BJ	1310	< 7.2	1240
Thallium	5	2	< 0.85	< 0.85	1 B	< 0.85	< 0.74
Vanadium	78	370	**80.2 J**	40.6 J	62.9 J	**87.5**	69.2
Zinc	23000	1500	159 J	108 J	2860 J	25.8	48.7
Other							
Solids, Percent	NS	NS	86.2	86.3	83.5	93.4	96.6

Footnote on last page

Table 3. Comparison of Soil Analytical Results to the RDC Soil Cleanup Criteria and the 2008 Residentail Direct Contact Soil Remediation Standards, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location			CMI-S2			
Sample Name	NJ Residential	NJ Residential	CMI-S2(2.5-3.0)	CMI-S2(14.5-15)	CMI-S2(17.5-18)	CMI-S2(17.5-18) Dup
Sample Date	Direct Contact Soil	Soil Criteria	12/12/2007	12/12/2007	12/12/2007	12/12/2007
Validation Status	(NJAC 7: 26D 6/08)	(NJAC 7:26D	Final	Final	Final	Final
VOC						
1,1,1-Trichloroethane	290	210	< 0.00038	< 0.00088	< 0.00037	< 0.00029
1,1,2,2-Tetrachloroethane	1	34	< 0.00029	< 0.00069 J	< 0.00029	< 0.00023
1,1,2-Trichloroethane	2	22	< 0.00029	< 0.00069	< 0.00029	< 0.00023
1,1-Dichloroethane	8	570	< 0.00069	< 0.0016	< 0.00068	< 0.00054
1,1-Dichloroethene	11	8	< 0.00047	< 0.0011	< 0.00046	< 0.00036
1,2,4-Trichlorobenzene	73	68	< 0.00035	< 0.00083 J	< 0.00035	< 0.00027
1,2-Dibromo-3-Chloropropane (DBCP)	0.08	NS	< 0.00094	< 0.0022 J	< 0.00092	< 0.00073
1,2-Dibromoethane	0.008	NS	< 0.00029	< 0.00068	< 0.00029	< 0.00023
1,2-Dichlorobenzene	5300	5100	< 0.00028	< 0.00065 J	< 0.00027	< 0.00022
1,2-Dichloroethane	0.9	6	< 0.00024	< 0.00055	< 0.00023	< 0.00018
1,2-Dichloropropane	2	10	< 0.00041	< 0.00097	< 0.0004	< 0.00032
1,3-Dichlorobenzene	5300	5100	0.0014 J	< 0.00086 J	< 0.00036	< 0.00029
1,4-Dichlorobenzene	5	570	< 0.0003	< 0.0007 J	< 0.00029	< 0.00023
2-Butanone (MEK)	3100	1000	< 0.0028	< 0.0066	< 0.0028	< 0.0022
2-Hexanone	NS	NS	< 0.0017	< 0.0041	< 0.0017	< 0.0013
4-methyl-2-pentanone (MIBK)	NS	1000	< 0.002	< 0.0046	< 0.0019	< 0.0015
Acetone	70000	1000	0.0184	< 0.0096	< 0.004	< 0.0032
Benzene	2	3	< 0.00073	< 0.0017	< 0.00071	< 0.00056
Bromodichloromethane	1	11	< 0.00025	< 0.00058	< 0.00024	< 0.00019
Bromoform	81	86	< 0.00082	< 0.0019	< 0.0008	< 0.00064
Bromomethane	25	79	< 0.00049	< 0.0011	< 0.00048	< 0.00038
Carbon disulfide	7800	NS	< 0.00029	< 0.00068	< 0.00029	< 0.00023
Carbon tetrachloride	0.6	2	< 0.00025	< 0.00058	< 0.00024	< 0.00019
Chlorobenzene	510	37	< 0.00056	0.0047 J	< 0.00055	< 0.00043
Chloroethane	220	NS	< 0.00052	< 0.0012	< 0.00051	< 0.0004
Chloroform	0.6	19	< 0.0004	< 0.00093	0.00064 J	0.00035 J
Chloromethane	4	520	< 0.00053	< 0.0012	< 0.00052	< 0.00041
cis-1,2-Dichloroethene	230	79	< 0.00019	< 0.00045	0.00061 J	0.00054 J
cis-1,3-Dichloropropene	2	4	< 0.0005	< 0.0012	< 0.00049	< 0.00039
Cyclohexane	NS	NS	< 0.0004	< 0.00092	< 0.00039	< 0.00031
Dibromochloromethane	3	110	< 0.00021	< 0.00049	< 0.00021	< 0.00016
Dichlorodifluoromethane	490	NS	< 0.00041	< 0.00095	< 0.0004	< 0.00032
Ethylbenzene	7800	1000	< 0.00049	< 0.0011	< 0.00047	< 0.00038
Freon 113	NS	NS	< 0.00037	< 0.00087	< 0.00037	< 0.00029
Isopropylbenzene	NS	NS	< 0.0003	0.0024 J	< 0.00029	< 0.00023
Methyl acetate	78000	NS	< 0.0031	< 0.0073	< 0.0031	< 0.0024
Methyl tert butyl ether	110	NS	< 0.00063	< 0.0015	< 0.00062	< 0.00049
Methylcyclohexane	NS	NS	< 0.00051	< 0.0012	< 0.00049	< 0.00039
Methylene chloride	34	49	< 0.00047	< 0.0011	< 0.00046	< 0.00037
o-Xylene	NS	NS	< 0.00026	< 0.00061	< 0.00025	< 0.0002
Styrene	90	23	< 0.00023	< 0.00053	< 0.00022	< 0.00018
Tetrachloroethene	2	4	< 0.00033	0.0018 J	< 0.00033	< 0.00026
Toluene	6300	1000	< 0.00042	< 0.00098	< 0.00041	< 0.00033
Trans-1,2-dichloroethene	300	1000	< 0.00056	< 0.0013	< 0.00054	< 0.00043
trans-1,3-Dichloropropene	2	4	< 0.00081	< 0.0019	< 0.00079	< 0.00063
Trichloroethene	7	23	< 0.00033	< 0.00076	< 0.00032	< 0.00025
Trichlorofluoromethane	23000	NS	< 0.00047	< 0.0011	< 0.00046	< 0.00036
Vinyl Chloride	0.7	2	< 0.00056	< 0.0013	< 0.00055	< 0.00043
Xylene, -m,p	NS	NS	< 0.00049	< 0.0011	< 0.00048	< 0.00038
Xylenes	12000	410	< 0.00026	< 0.00061	< 0.00025	< 0.0002
Total TIC, Volatile	NS	NS	0	0.452 J	0	0

Table 3. Comparison of Soil Analytical Results to the RDC Soil Cleanup Criteria and the 2008 Residentail Direct Contact Soil Remediation Standards, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location			CMI-S2			
Sample Name	NJ Residential	NJ Residential	CMI-S2(2.5-3.0)	CMI-S2(14.5-15)	CMI-S2(17.5-18)	CMI-S2(17.5-18) Dup
Sample Date	Direct Contact Soil	Soil Criteria	12/12/2007	12/12/2007	12/12/2007	12/12/2007
Validation Status	(NJAC 7: 26D 6/08)	(NJAC 7:26D	Final	Final	Final	Final

Footnote on last page

R2-0005208

Table 3. Comparison of Soil Analytical Results to the RDC Soil Cleanup Criteria and the 2008 Residentail Direct Contact Soil Remediation Standards, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location			CMI-S2			
Sample Name	NJ Residential	NJ Residential	CMI-S2(2.5-3.0)	CMI-S2(14.5-15)	CMI-S2(17.5-18)	CMI-S2(17.5-18) Dup
Sample Date	Direct Contact Soil	Soil Criteria	12/12/2007	12/12/2007	12/12/2007	12/12/2007
Validation Status	(NJAC 7: 26D 6/08)	(NJAC 7:26D	Final	Final	Final	Final
SVOC						
1,1'-Biphenyl	3100	NS	< 0.01	0.236 J	< 0.01	< 0.01
2,4,5-Trichlorophenol	6100	5600	< 0.073	< 0.67	< 0.07	< 0.07
2,4,6-Trichlorophenol	19	62	< 0.078	< 0.71	< 0.074	< 0.075
2,4-Dichlorophenol	180	170	< 0.04	< 0.37	< 0.038	< 0.038
2,4-Dimethylphenol	1200	1100	< 0.047	< 0.43	< 0.045	< 0.045
2,4-Dinitrophenol	120	110	< 0.042	< 0.39	< 0.041	< 0.041
2,4-Dinitrotoluene	0.7	1	< 0.012	< 0.11	< 0.012	< 0.012
2,6-Dinitrotoluene	0.7	1	< 0.015	< 0.14	< 0.015	< 0.015
2-Chloronaphthalene	NS	NS	< 0.012	< 0.11	< 0.011	< 0.011
2-Chlorophenol	310	280	< 0.025	< 0.22	< 0.023	< 0.024
2-Methylnaphthalene	230	NS	< 0.035	< 0.32	< 0.033	< 0.033
2-Methylphenol	310	2800	< 0.037	< 0.34	< 0.036	< 0.036
2-Nitroaniline	39	NS	< 0.024	< 0.22	< 0.023	< 0.023
2-Nitrophenol	NS	NS	< 0.045	< 0.41	< 0.043	< 0.043
3&4-Methylphenol	NS	NS	< 0.048	< 0.44	< 0.046	< 0.046
3,3'-Dichlorobenzidine	1	2	< 0.028	< 0.26	< 0.027	< 0.027
3-Nitroaniline	NS	NS	< 0.026	< 0.24	< 0.025	< 0.025
4,6-Dinitro-2-methylphenol	6	NS	< 0.071	< 0.64	< 0.067	< 0.068
4-Bromophenyl phenyl ether	NS	NS	< 0.017	< 0.15	< 0.016	< 0.016
4-Chloro-3-Methylphenol	NS	10000	< 0.052	< 0.48	< 0.05	< 0.05
4-Chloroaniline	NS	230	< 0.014	< 0.13	< 0.013	< 0.013
4-Chlorophenyl phenyl ether	NS	NS	< 0.011	< 0.1	< 0.011	< 0.011
4-Nitroaniline	NS	NS	< 0.022	< 0.2	< 0.021	< 0.021
4-Nitrophenol	NS	NS	< 0.068	< 0.62	< 0.065	< 0.065
Acenaphthene	3400	3400	< 0.012	< 0.11	< 0.012	< 0.012
Acenaphthylene	NS	NS	< 0.0078	< 0.071	< 0.0075	< 0.0075
Acetophenone	2	NS	< 0.012	< 0.11	< 0.011	< 0.011
Anthracene	17000	10000	< 0.036	0.407 J	< 0.034	< 0.034
Atrazine	210	NS	< 0.022	< 0.2	< 0.021	< 0.021
Benzaldehyde	6100	NS	< 0.0073 R	< 0.067 R	< 0.007 R	< 0.007 R
Benzo(a)anthracene	0.6	0.9	< 0.008	**1.16**	< 0.0076	< 0.0076
Benzo(a)pyrene	0.2	0.66	< 0.019	**0.631 J**	< 0.018	< 0.018
Benzo(b)fluoranthene	0.6	0.9	< 0.013	**1.2**	< 0.012	< 0.012
Benzo(g,h,i)perylene	380000	NS	< 0.015	< 0.14	< 0.015	< 0.015
Benzo(k)fluoranthene	6	0.9	< 0.017	0.162 J	< 0.016	< 0.016
Benzyl butyl phthalate	1200	1100	< 0.014	< 0.13	< 0.013	< 0.013
bis(2-Chloroethoxy)methane	NS	NS	< 0.015	< 0.14	< 0.014	< 0.014
bis(2-Chloroethyl)ether	0.4	0.66	< 0.018	< 0.16	< 0.017	< 0.017
bis(2-Chloroisopropyl)ether	23	2300	< 0.023	< 0.21	< 0.022	< 0.022
bis(2-Ethylhexyl)phthalate	35	49	0.841	**177 J**	0.0418 J	0.0737 J
Caprolactam	31000	NS	< 0.021	< 0.19	< 0.02	< 0.02
Carbazole	24	NS	< 0.013	< 0.12	< 0.012	< 0.012
Chrysene	62	9	< 0.016	3.54	< 0.015	< 0.015
Dibenzo(a,h)anthracene	0.2	0.66	< 0.0099	< 0.091	< 0.0095	< 0.0095
Dibenzofuran	NS	NS	< 0.0076	0.415 J	< 0.0073	< 0.0073
Diethyl phthalate	49000	10000	< 0.014	< 0.12	< 0.013	< 0.013

Footnote on last page

Table 3. Comparison of Soil Analytical Results to the RDC Soil Cleanup Criteria and the 2008 Residentail Direct Contact Soil Remediation Standards, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location			CMI-S2			
Sample Name	NJ Residential	NJ Residential	CMI-S2(2.5-3.0)	CMI-S2(14.5-15)	CMI-S2(17.5-18)	CMI-S2(17.5-18) Dup
Sample Date	Direct Contact Soil	Soil Criteria	12/12/2007	12/12/2007	12/12/2007	12/12/2007
Validation Status	(NJAC 7: 26D 6/08)	(NJAC 7:26D	Final	Final	Final	Final
SVOCs continued						
Dimethyl phthalate	NS	10000	< 0.01	< 0.095	< 0.01	< 0.01
di-n-butyl phthalate	6100	5700	< 0.011	16	< 0.01	< 0.01
di-n-octylphthalate	2400	1100	< 0.016	< 0.14	< 0.015	< 0.015
Fluoranthene	2300	2300	< 0.0072	1.51	< 0.0069	< 0.0069
Fluorene	2300	2300	< 0.0078	0.191 J	< 0.0074	< 0.0075
Hexachlorobenzene	0.3	0.66	< 0.019	< 0.17	< 0.018	< 0.018
Hexachlorobutadiene	6	1	< 0.018	< 0.16	< 0.017	< 0.017
Hexachlorocyclopentadiene	45	400	< 0.018	< 0.16	< 0.017	< 0.017
Hexachloroethane	35	6	< 0.016	< 0.15	< 0.015	< 0.015
Indeno(1,2,3-cd)pyrene	0.6	0.9	< 0.036	< 0.33	< 0.034	< 0.034
Isophrone	510	1100	< 0.012	< 0.11	< 0.012	< 0.012
Naphthalene	6	230	< 0.0087	0.156 J	< 0.0083	< 0.0084
Nitrobenzene	31	28	< 0.013	< 0.12	< 0.012	< 0.012
N-Nitroso-di-n-Propylamine	0.2	0.66	< 0.013	< 0.12	< 0.013	< 0.013
N-Nitrosodiphenylamine	99	140	< 0.0085	< 0.077	< 0.0081	< 0.0081
Pentachlorophenol	3	6	< 0.041	< 0.37	< 0.039	< 0.039
Phenanthrene	NS	NS	< 0.0096	3.09	< 0.0092	< 0.0092
Phenol	18000	10000	< 0.036	< 0.33	< 0.034	< 0.035
Pyrene	1700	1700	< 0.013	2.63	< 0.013	< 0.013
Total TIC, Semi-Volatile	NS	NS	0.21 J	416.6 J	2 J	0.21 J
Pesticides / Herbicides						
4,4-DDD	3	3	< 0.00036	< 0.0018	< 0.00035	< 0.00035
4,4-DDE	2	2	< 0.00038	< 0.0018	< 0.00036	< 0.00036
4,4-DDT	2	2	< 0.00046	< 0.0022	< 0.00045	< 0.00044
Aldrin	0.04	0.04	< 0.00033	< 0.0016	< 0.00032	< 0.00032
alpha-BHC	0.1	NS	< 0.00028	< 0.0014	< 0.00027	< 0.00027
alpha-Chlordane	0.2	NS	< 0.00041	NA	NA	NA
beta-BHC	0.4	NS	< 0.00033	< 0.0016	< 0.00032	< 0.00032
Chlordane	0.2	NS	NA	< 0.048	< 0.0095	< 0.0094
delta-BHC	NS	NS	< 0.00056	< 0.0027	< 0.00054	< 0.00053
Dieldrin	0.04	0.042	< 0.00038	< 0.0019	< 0.00037	< 0.00037
Endosulfan I (alpha)	470	NS	< 0.00041	< 0.002	< 0.00039	< 0.00039
Endosulfan II (beta)	470	NS	< 0.0004	< 0.0019	< 0.00039	< 0.00038
Endosulfan sulfate	470	NS	< 0.00041	< 0.002	< 0.00039	< 0.00039
Endrin	23	17	< 0.00038	< 0.0018	< 0.00036	< 0.00036
Endrin Aldehyde	NS	NS	< 0.00036	< 0.0017	< 0.00034	< 0.00034
Endrin ketone	NS	NS	< 0.00042	NA	NA	NA
gamma-Chlordane	0.2	NS	< 0.00041	NA	NA	NA
Heptachlor	0.1	0.15	< 0.00039	< 0.0019	< 0.00038	< 0.00038
Heptachlor epoxide	0.07	NS	< 0.00042	< 0.002	< 0.0004	< 0.0004
Lindane	0.4	0.52	< 0.0003	< 0.0015	< 0.00029	< 0.00029
Methoxychlor	390	280	< 0.0005	< 0.0024	< 0.00048	< 0.00048
Toxaphene	0.6	0.1	< 0.0072	< 0.035	< 0.0069	< 0.0069

Footnote on last page

Table 3. Comparison of Soil Analytical Results to the RDC Soil Cleanup Criteria and the 2008 Residentail Direct Contact Soil Remediation Standards, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location			CMI-S2			
Sample Name	NJ Residential	NJ Residential	CMI-S2(2.5-3.0)	CMI-S2(14.5-15)	CMI-S2(17.5-18)	CMI-S2(17.5-18) Dup
Sample Date	Direct Contact Soil	Soil Criteria	12/12/2007	12/12/2007	12/12/2007	12/12/2007
Validation Status	(NJAC 7: 26D 6/08)	(NJAC 7:26D	Final	Final	Final	Final
PCBs						
PCB 1016	0.2	0.49	< 0.0072	< 0.035	< 0.0069	< 0.0069
PCB 1221	0.2	0.49	< 0.023	< 0.11	< 0.022	< 0.022
PCB 1232	0.2	0.49	< 0.021	< 0.1	< 0.02	< 0.02
PCB 1242	0.2	0.49	< 0.012	< 0.058	< 0.012	< 0.012
PCB 1248	0.2	0.49	0.129	**0.49 J**	< 0.013	< 0.013
PCB 1254	0.2	0.49	< 0.018	**0.654**	< 0.017	< 0.017
PCB 1260	0.2	0.49	< 0.0076	< 0.037	< 0.0073	< 0.0073
Total PCBs	0.2	0.49	0.129	**1.144**	0	0
Metals - Total						
Aluminum	78000	NS	16900	3190	12800	14400
Antimony	31	14	1.1 BJ	13.1 J	< 0.62 J	0.98 BJ
Arsenic	19	20	2.2	5.6	16.2	14.4
Barium	16000	700	53.1	205	60.3 BJ	74.6 BJ
Beryllium	16	2	0.51 B	0.1 B	0.41 B	0.43 B
Cadmium	78	39	2.2	15.9	7.8	7.1
Calcium	NS	NS	1320	10900	15100	13200
Chromium	NS	240	23.4	31	18.5	19.5
Cobalt	1600	NS	7.9	6.5 B	10.1 B	11.7 B
Copper	3100	600	30	74.7	136 J	104 J
Iron	NS	NS	18500	68100	62400	61600
Lead	400	400	14	**951**	90.3 J	173 J
Magnesium	NS	NS	3030 J	1200 J	5670 J	6100 J
Manganese	11000	NS	137	783	373	351
Mercury	23	14	0.064	5.9	0.042	0.035
Nickel	1600	250	17.6	22.1	30.3	37
Potassium	NS	NS	910 BJ	520 BJ	1100 BJ	1450 BJ
Selenium	390	63	< 1.2	< 2.1	< 0.89	< 0.83
Silver	390	110	< 0.25	< 0.42	< 0.41	< 0.38
Sodium	NS	NS	< 100	1710 B	< 7.6	< 7.1
Thallium	5	2	< 0.83	< 0.3	1.2 B	< 0.84
Vanadium	78	370	44.4	12.3	**90.3**	**87.3**
Zinc	23000	1500	127	1670	1530 J	2470 J
Other						
Solids, Percent	NS	NS	86.4	54.6	89.9	90.2

Footnote on last page

Table 3. Comparison of Soil Analytical Results to the RDC Soil Cleanup Criteria and the 2008 Residentail Direct Contact Soil Remediation Standards, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location			CMI-S3				
Sample Name	NJ Residential	NJ Residential	CMI-S3(6.0-6.5)	CMI-S3(16-16.5)	CMI-S3(21.5-22)	CMI-S3(31.5-32)	CMI-S3(45.5-46)
Sample Date	Direct Contact Soil	Soil Criteria	12/11/2007	12/11/2007	12/11/2007	12/11/2007	12/11/2007
Validation Status	(NJAC 7: 26D 6/08)	(NJAC 7:26D	Final	Final	Final	Final	Final
VOC							
1,1,1-Trichloroethane	290	210	< 0.00033	< 0.00033	< 0.00034	< 0.00038	< 0.00042
1,1,2,2-Tetrachloroethane	1	34	< 0.00026	< 0.00026	< 0.00026	< 0.0003	< 0.00033
1,1,2-Trichloroethane	2	22	< 0.00026	< 0.00026	< 0.00026	< 0.0003	< 0.00033
1,1-Dichloroethane	8	570	< 0.00061	< 0.00061	< 0.00062	< 0.0007	< 0.00077
1,1-Dichloroethene	11	8	< 0.00041	< 0.00041	< 0.00041	< 0.00047	< 0.00052
1,2,4-Trichlorobenzene	73	68	< 0.00031	< 0.00031	< 0.00031	< 0.00036	< 0.00039
1,2-Dibromo-3-Chloropropane (DBCP)	0.08	NS	< 0.00082	< 0.00083	< 0.00084	< 0.00095	< 0.001
1,2-Dibromoethane	0.008	NS	< 0.00026	< 0.00026	< 0.00026	< 0.0003	< 0.00033
1,2-Dichlorobenzene	5300	5100	< 0.00024	0.0026 J	0.00091 J	< 0.00028	< 0.00031
1,2-Dichloroethane	0.9	6	< 0.00021	< 0.00021	< 0.00021	< 0.00024	< 0.00026
1,2-Dichloropropane	2	10	< 0.00036	< 0.00036	< 0.00037	< 0.00042	< 0.00046
1,3-Dichlorobenzene	5300	5100	< 0.00032	< 0.00032	< 0.00033	< 0.00037	< 0.00041
1,4-Dichlorobenzene	5	570	0.0033 J	< 0.00027	0.0087	< 0.00031	< 0.00034
2-Butanone (MEK)	3100	1000	0.0066 J	0.0075 J	0.0093	< 0.0029	< 0.0032
2-Hexanone	NS	NS	< 0.0015	< 0.0015	< 0.0015	< 0.0018	< 0.0019
4-methyl-2-pentanone (MIBK)	NS	1000	< 0.0017	< 0.0018	< 0.0018	< 0.002	< 0.0022
Acetone	70000	1000	0.0332	0.0371	0.0369	< 0.0042	< 0.0046
Benzene	2	3	< 0.00064	0.00075 J	0.0015	< 0.00074	< 0.00081
Bromodichloromethane	1	11	< 0.00022	< 0.00022	< 0.00022	< 0.00025	< 0.00028
Bromoform	81	86	< 0.00072	< 0.00072	< 0.00073	< 0.00083	< 0.00092
Bromomethane	25	79	< 0.00043	< 0.00043	< 0.00043	< 0.00049	< 0.00054
Carbon disulfide	7800	NS	< 0.00026	< 0.00026	0.0023 J	< 0.0003	< 0.00033
Carbon tetrachloride	0.6	2	< 0.00022	< 0.00022	< 0.00022	< 0.00025	< 0.00028
Chlorobenzene	510	37	0.0176	0.0116	0.0473	< 0.00057	< 0.00062
Chloroethane	220	NS	< 0.00046	< 0.00046	< 0.00046	< 0.00053	< 0.00058
Chloroform	0.6	19	< 0.00035	< 0.00035	< 0.00035	< 0.0004	< 0.00044
Chloromethane	4	520	< 0.00046	< 0.00046	< 0.00047	< 0.00053	< 0.00059
cis-1,2-Dichloroethene	230	79	< 0.00017	< 0.00017	< 0.00017	< 0.0002	< 0.00022
cis-1,3-Dichloropropene	2	4	< 0.00044	< 0.00044	< 0.00045	< 0.00051	< 0.00056
Cyclohexane	NS	NS	< 0.00035	< 0.00035	< 0.00035	< 0.0004	< 0.00044
Dibromochloromethane	3	110	< 0.00018	< 0.00019	< 0.00019	< 0.00021	< 0.00023
Dichlorodifluoromethane	490	NS	< 0.00036	< 0.00036	< 0.00036	< 0.00041	< 0.00046
Ethylbenzene	7800	1000	0.00048 J	0.0013	0.0012	< 0.00049	< 0.00054
Freon 113	NS	NS	< 0.00033	< 0.00033	< 0.00033	< 0.00038	< 0.00042
Isopropylbenzene	NS	NS	0.0031 J	0.0016 J	0.0037 J	< 0.0003	< 0.00033
Methyl acetate	78000	NS	< 0.0027	< 0.0028	< 0.0028	< 0.0032	< 0.0035
Methyl tert butyl ether	110	NS	< 0.00055	< 0.00056	< 0.00056	< 0.00064	< 0.0007
Methylcyclohexane	NS	NS	< 0.00044	< 0.00045	< 0.00045	< 0.00051	< 0.00056
Methylene chloride	34	49	< 0.00041	< 0.00042	< 0.00042	< 0.00048	0.0012 J
o-Xylene	NS	NS	< 0.00023	0.0019	0.00044 J	< 0.00026	< 0.00029
Styrene	90	23	< 0.0002	< 0.0002	< 0.0002	< 0.00023	< 0.00025
Tetrachloroethene	2	4	< 0.00029	< 0.00029	< 0.0003	< 0.00034	< 0.00037
Toluene	6300	1000	< 0.00037	< 0.00037	< 0.00038	< 0.00043	< 0.00047
Trans-1,2-dichloroethene	300	1000	< 0.00049	< 0.00049	< 0.00049	< 0.00056	< 0.00062
trans-1,3-Dichloropropene	2	4	< 0.00071	< 0.00071	< 0.00072	< 0.00082	< 0.0009
Trichloroethene	7	23	< 0.00028	< 0.00029	< 0.00029	< 0.00033	< 0.00036
Trichlorofluoromethane	23000	NS	< 0.00041	< 0.00041	< 0.00042	< 0.00048	< 0.00052
Vinyl Chloride	0.7	2	< 0.00049	< 0.00049	< 0.0005	< 0.00057	< 0.00062
Xylene, -m,p	NS	NS	0.0055	0.0069	0.0039	< 0.0005	< 0.00055
Xylenes	12000	410	0.0055	0.0088	0.0044	< 0.00026	< 0.00029
Total TIC, Volatile	NS	NS	0.015 J	0.1204 J	0.2191 J	0	0

Table 3. Comparison of Soil Analytical Results to the RDC Soil Cleanup Criteria and the 2008 Residentail Direct Contact Soil Remediation Standards, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location			CMI-S3				
Sample Name	NJ Residential	NJ Residential	CMI-S3(6.0-6.5)	CMI-S3(16-16.5)	CMI-S3(21.5-22)	CMI-S3(31.5-32)	CMI-S3(45.5-46)
Sample Date	Direct Contact Soil	Soil Criteria	12/11/2007	12/11/2007	12/11/2007	12/11/2007	12/11/2007
Validation Status	(NJAC 7: 26D 6/08)	(NJAC 7:26D	Final	Final	Final	Final	Final

Footnote on last page

Table 3. Comparison of Soil Analytical Results to the RDC Soil Cleanup Criteria and the 2008 Residentail Direct Contact Soil Remediation Standards, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location			CMI-S3				
Sample Name	NJ Residential	NJ Residential	CMI-S3(6.0-6.5)	CMI-S3(16-16.5)	CMI-S3(21.5-22)	CMI-S3(31.5-32)	CMI-S3(45.5-46)
Sample Date	Direct Contact Soil	Soil Criteria	12/11/2007	12/11/2007	12/11/2007	12/11/2007	12/11/2007
Validation Status	(NJAC 7: 26D 6/08)	(NJAC 7:26D	Final	Final	Final	Final	Final
SVOC							
1,1'-Biphenyl	3100	NS	< 0.01	< 0.01	< 0.01	< 0.011	< 0.01
2,4,5-Trichlorophenol	6100	5600	< 0.07	< 0.071	< 0.072	< 0.074	< 0.073
2,4,6-Trichlorophenol	19	62	< 0.075	< 0.076	< 0.076	< 0.079	< 0.078
2,4-Dichlorophenol	180	170	< 0.038	< 0.039	< 0.039	< 0.041	< 0.04
2,4-Dimethylphenol	1200	1100	< 0.045	< 0.046	< 0.046	< 0.048	< 0.047
2,4-Dinitrophenol	120	110	< 0.041	< 0.041	< 0.042	< 0.043	< 0.042
2,4-Dinitrotoluene	0.7	1	< 0.012	< 0.012	< 0.012	< 0.013	< 0.012
2,6-Dinitrotoluene	0.7	1	< 0.015	< 0.015	< 0.015	< 0.016	< 0.015
2-Chloronaphthalene	NS	NS	< 0.011	< 0.011	< 0.011	< 0.012	< 0.012
2-Chlorophenol	310	280	< 0.024	< 0.024	< 0.024	< 0.025	< 0.025
2-Methylnaphthalene	230	NS	< 0.033	< 0.034	0.0599 J	< 0.035	< 0.034
2-Methylphenol	310	2800	< 0.036	< 0.036	< 0.037	< 0.038	< 0.037
2-Nitroaniline	39	NS	< 0.023	< 0.024	< 0.024	< 0.025	< 0.024
2-Nitrophenol	NS	NS	< 0.043	< 0.043	< 0.044	< 0.045	< 0.045
3&4-Methylphenol	NS	NS	< 0.046	< 0.046	< 0.047	< 0.048	< 0.048
3,3'-Dichlorobenzidine	1	2	< 0.027	< 0.027	< 0.027	< 0.028	< 0.028
3-Nitroaniline	NS	NS	< 0.025	< 0.025	< 0.025	< 0.026	< 0.026
4,6-Dinitro-2-methylphenol	6	NS	< 0.068	< 0.069	< 0.069	< 0.071	< 0.07
4-Bromophenyl phenyl ether	NS	NS	< 0.016	< 0.016	< 0.017	< 0.017	< 0.017
4-Chloro-3-Methylphenol	NS	10000	< 0.05	< 0.051	< 0.051	< 0.053	< 0.052
4-Chloroaniline	NS	230	< 0.013	< 0.014	< 0.014	< 0.014	< 0.014
4-Chlorophenyl phenyl ether	NS	NS	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
4-Nitroaniline	NS	NS	< 0.021	< 0.021	< 0.022	< 0.022	< 0.022
4-Nitrophenol	NS	NS	< 0.065	< 0.066	< 0.067	< 0.069	< 0.068
Acenaphthene	3400	3400	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Acenaphthylene	NS	NS	< 0.0075	< 0.0076	< 0.0077	< 0.0079	< 0.0078
Acetophenone	2	NS	< 0.011	< 0.011	< 0.011	< 0.012	< 0.012
Anthracene	17000	10000	< 0.034	< 0.034	< 0.035	< 0.036	< 0.035
Atrazine	210	NS	< 0.021	< 0.021	< 0.022	< 0.022	< 0.022
Benzaldehyde	6100	NS	< 0.007 R	< 0.0071 R	< 0.0071 R	< 0.0074 R	< 0.0073 R
Benzo(a)anthracene	0.6	0.9	< 0.0076	< 0.0078	< 0.0078	< 0.0081	< 0.008
Benzo(a)pyrene	0.2	0.66	< 0.018 J	< 0.018	< 0.019	< 0.019	< 0.019
Benzo(b)fluoranthene	0.6	0.9	< 0.012 J	< 0.012	< 0.012	< 0.013	< 0.013
Benzo(g,h,i)perylene	380000	NS	< 0.015 J	< 0.015	< 0.015	< 0.016	< 0.015
Benzo(k)fluoranthene	6	0.9	< 0.016 J	< 0.016	< 0.016	< 0.017	< 0.017
Benzyl butyl phthalate	1200	1100	< 0.013	< 0.014	< 0.014	< 0.014	< 0.014
bis(2-Chloroethoxy)methane	NS	NS	< 0.014	< 0.015	< 0.015	< 0.015	< 0.015
bis(2-Chloroethyl)ether	0.4	0.66	< 0.017	< 0.017	< 0.017	< 0.018	< 0.018
bis(2-Chloroisopropyl)ether	23	2300	< 0.022	< 0.022	< 0.022	< 0.023	< 0.022
bis(2-Ethylhexyl)phthalate	35	49	0.0566 J	< 0.023	0.151	< 0.023	0.0724 J
Caprolactam	31000	NS	< 0.02	< 0.02	< 0.02	< 0.021	< 0.021
Carbazole	24	NS	< 0.012	< 0.013	< 0.013	< 0.013	< 0.013
Chrysene	62	9	< 0.015	< 0.015	< 0.015	< 0.016	< 0.016
Dibenzo(a,h)anthracene	0.2	0.66	< 0.0095 J	< 0.0096	< 0.0097	< 0.01	< 0.0099
Dibenzofuran	NS	NS	< 0.0073	< 0.0074	< 0.0074	< 0.0077	< 0.0076
Diethyl phthalate	49000	10000	< 0.013	< 0.013	< 0.013	< 0.014	< 0.013

Footnote on last page

Table 3. Comparison of Soil Analytical Results to the RDC Soil Cleanup Criteria and the 2008 Residentail Direct Contact Soil Remediation Standards, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location			CMI-S3				
Sample Name	NJ Residential	NJ Residential	CMI-S3(6.0-6.5)	CMI-S3(16-16.5)	CMI-S3(21.5-22)	CMI-S3(31.5-32)	CMI-S3(45.5-46)
Sample Date	Direct Contact Soil	Soil Criteria	12/11/2007	12/11/2007	12/11/2007	12/11/2007	12/11/2007
Validation Status	(NJAC 7: 26D 6/08)	(NJAC 7:26D	Final	Final	Final	Final	Final
SVOCs continued							
Dimethyl phthalate	NS	10000	< 0.01	< 0.01	< 0.01	< 0.011	< 0.01
di-n-butyl phthalate	6100	5700	< 0.01	< 0.01	< 0.011	< 0.011	< 0.011
di-n-octylphthalate	2400	1100	< 0.015	< 0.015	< 0.015	< 0.016	< 0.016
Fluoranthene	2300	2300	< 0.0069	< 0.007	< 0.007	< 0.0072	< 0.0072
Fluorene	2300	2300	< 0.0075	< 0.0076	< 0.0076	< 0.0079	< 0.0078
Hexachlorobenzene	0.3	0.66	< 0.018	< 0.018	< 0.018	< 0.019	< 0.019
Hexachlorobutadiene	6	1	< 0.017	< 0.017	< 0.018	< 0.018	< 0.018
Hexachlorocyclopentadiene	45	400	< 0.017	< 0.017	< 0.018	< 0.018	< 0.018
Hexachloroethane	35	6	< 0.015	< 0.016	< 0.016	< 0.016	< 0.016
Indeno(1,2,3-cd)pyrene	0.6	0.9	< 0.034	< 0.035	< 0.035	< 0.036	< 0.036
Isophrone	510	1100	< 0.012	< 0.012	< 0.012	< 0.013	< 0.012
Naphthalene	6	230	0.0116 J	< 0.0085	0.112	< 0.0088	< 0.0087
Nitrobenzene	31	28	< 0.012	< 0.013	< 0.013	< 0.013	< 0.013
N-Nitroso-di-n-Propylamine	0.2	0.66	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
N-Nitrosodiphenylamine	99	140	< 0.0081	< 0.0082	< 0.0083	< 0.0086	< 0.0085
Pentachlorophenol	3	6	< 0.039	< 0.039	< 0.04	< 0.041	< 0.04
Phenanthrene	NS	NS	< 0.0092	< 0.0094	< 0.0094	< 0.0097	< 0.0096
Phenol	18000	10000	< 0.035	< 0.035	< 0.035	< 0.036	< 0.036
Pyrene	1700	1700	< 0.013	< 0.013	< 0.013	< 0.014	< 0.013
Total TIC, Semi-Volatile	NS	NS	1.28 J	0.77 J	6.95 J	3.24 J	1.94 J
Pesticides / Herbicides							
4,4-DDD	3	3	< 0.00035	< 0.00036	< 0.00036	< 0.00037	< 0.00036
4,4-DDE	2	2	< 0.00037	< 0.00037	< 0.00038	< 0.00038	< 0.00038
4,4-DDT	2	2	< 0.00045	< 0.00046	< 0.00046	< 0.00047	< 0.00046
Aldrin	0.04	0.04	< 0.00032	< 0.00033	< 0.00033	< 0.00034	< 0.00033
alpha-BHC	0.1	NS	< 0.00027	< 0.00028	< 0.00028	< 0.00029	< 0.00028
alpha-Chlordane	0.2	NS	< 0.0004	< 0.0004	< 0.00041	< 0.00042	< 0.00041
beta-BHC	0.4	NS	< 0.00032	< 0.00032	< 0.00033	< 0.00034	< 0.00033
Chlordane	0.2	NS	NA	NA	NA	NA	NA
delta-BHC	NS	NS	< 0.00054	< 0.00055	< 0.00056	< 0.00057	< 0.00056
Dieldrin	0.04	0.042	< 0.00037	< 0.00038	< 0.00038	< 0.00039	< 0.00038
Endosulfan I (alpha)	470	NS	< 0.00039	< 0.0004	< 0.00041	< 0.00041	< 0.00041
Endosulfan II (beta)	470	NS	< 0.00039	< 0.00039	< 0.0004	< 0.00041	< 0.0004
Endosulfan sulfate	470	NS	< 0.0004	< 0.0004	< 0.00041	< 0.00042	< 0.00041
Endrin	23	17	< 0.00037	< 0.00037	< 0.00038	< 0.00038	< 0.00038
Endrin Aldehyde	NS	NS	< 0.00035	< 0.00035	< 0.00036	< 0.00036	< 0.00036
Endrin ketone	NS	NS	< 0.0004	< 0.00041	< 0.00041	< 0.00042	< 0.00042
gamma-Chlordane	0.2	NS	< 0.0004	< 0.0004	< 0.00041	< 0.00042	< 0.00041
Heptachlor	0.1	0.15	< 0.00038	< 0.00039	< 0.00039	< 0.0004	< 0.00039
Heptachlor epoxide	0.07	NS	< 0.00041	< 0.00041	< 0.00042	< 0.00043	< 0.00042
Lindane	0.4	0.52	< 0.0003	< 0.0003	< 0.0003	< 0.00031	< 0.0003
Methoxychlor	390	280	< 0.00049	< 0.00049	< 0.0005	< 0.00051	< 0.0005
Toxaphene	0.6	0.1	< 0.007	< 0.0071	< 0.0072	< 0.0074	< 0.0072

Footnote on last page

Table 3. Comparison of Soil Analytical Results to the RDC Soil Cleanup Criteria and the 2008 Residentail Direct Contact Soil Remediation Standards, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location			CMI-S3				
Sample Name	NJ Residential	NJ Residential	CMI-S3(6.0-6.5)	CMI-S3(16-16.5)	CMI-S3(21.5-22)	CMI-S3(31.5-32)	CMI-S3(45.5-46)
Sample Date	Direct Contact Soil	Soil Criteria	12/11/2007	12/11/2007	12/11/2007	12/11/2007	12/11/2007
Validation Status	(NJAC 7: 26D 6/08)	(NJAC 7:26D	Final	Final	Final	Final	Final
PCBs							
PCB 1016	0.2	0.49	< 0.007	< 0.0071	< 0.0072	< 0.0073	< 0.0072
PCB 1221	0.2	0.49	< 0.022	< 0.022	< 0.023	< 0.023	< 0.023
PCB 1232	0.2	0.49	< 0.02	< 0.02	< 0.021	< 0.021	< 0.021
PCB 1242	0.2	0.49	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
PCB 1248	0.2	0.49	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
PCB 1254	0.2	0.49	< 0.017	< 0.018	< 0.018	< 0.018	< 0.018
PCB 1260	0.2	0.49	< 0.0074	< 0.0075	< 0.0076	< 0.0078	< 0.0076
Total PCBs	0.2	0.49	0	0	0	0	0
Metals - Total							
Aluminum	78000	NS	11300	13100	12900	6410	21000
Antimony	31	14	0.75 BJ	< 0.75 J	< 0.77 J	**39.7 J**	2 BJ
Arsenic	19	20	1.7 B	2.5	2.7	**19.6**	< 0.84
Barium	16000	700	40.5 J	59.1 J	40.6 J	365 J	152 J
Beryllium	16	2	0.54 R	0.56 R	0.54 R	0.45 R	0.33 R
Cadmium	78	39	0.71	0.73	1.2	2	1.7
Calcium	NS	NS	2090	1870	1600	14800	14300
Chromium	NS	240	18.7	19.2	19.4	18.8	81.2
Cobalt	1600	NS	8.6	7.8	8.7	6.1	28.3
Copper	3100	600	39.9 J	30.5 J	27.5 J	111 J	16.8 J
Iron	NS	NS	21200 J	22100 J	23700 J	37800 J	40300 J
Lead	400	400	1.6 B	8	10.6	**1880**	27.9
Magnesium	NS	NS	3670 J	3650 J	4080 J	4180 J	24100 J
Manganese	11000	NS	302 J	327 J	364 J	362 J	821 J
Mercury	23	14	< 0.024	0.023 B	0.044	< 0.023	0.028 B
Nickel	1600	250	14.1	14.5	15.9	42	71.7
Potassium	NS	NS	1320	1200	1210	1100 B	8000
Selenium	390	63	< 1.2 J	2.1 BJ	1.8 BJ	3.6 J	3.6 J
Silver	390	110	< 0.24	< 0.25	< 0.26	1.4	< 0.27
Sodium	NS	NS	534 B	568 B	632 B	1450	2020
Thallium	5	2	< 0.82	< 0.86	< 0.87	< 0.88	< 0.89
Vanadium	78	370	38.4	40.1	39	57.5	**98.3**
Zinc	23000	1500	27.3	48.5	281	624	360
Other							
Solids, Percent	NS	NS	89.7	89	88.2	85.3	86.4

Footnote on last page

Table 3. Comparison of Soil Analytical Results to the RDC Soil Cleanup Criteria and the 2008 Residentail Direct Contact Soil Remediation Standards, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location			CMI-S4					
Sample Name	NJ Residential	NJ Residential	CMI-S4(5-5.5	CMI-S4(14-14.5)	CMI-S4(20-20.5)	CMI-S4(35-35.5)	CMI-S4(43.5-44)	CMI-S4(51-51.5)
Sample Date	Direct Contact Soil	Soil Criteria	12/6/2007	12/6/2007	12/6/2007	12/6/2007	12/6/2007	12/6/2007
Validation Status	(NJAC 7: 26D 6/08)	(NJAC 7:26D	Final	Final	Final	Final	Final	Final
VOC								
1,1,1-Trichloroethane	290	210	< 0.00036	< 0.00078 J	< 0.00038	< 0.00042 J	< 0.00056	< 0.00051
1,1,2,2-Tetrachloroethane	1	34	< 0.00028	< 0.00061	< 0.00029	< 0.00033 J	< 0.00044	< 0.0004
1,1,2-Trichloroethane	2	22	< 0.00028	< 0.00061 J	< 0.00029	< 0.00033 J	< 0.00044	< 0.0004
1,1-Dichloroethane	8	570	< 0.00065	< 0.0014	< 0.0007	< 0.00078 J	< 0.001	< 0.00094
1,1-Dichloroethene	11	8	< 0.00044	< 0.00096	< 0.00047	< 0.00052 J	< 0.00069	< 0.00063
1,2,4-Trichlorobenzene	73	68	< 0.00033	< 0.00073	< 0.00035	< 0.0004 J	< 0.00053	< 0.00048
1,2-Dibromo-3-Chloropropane (DBCP)	0.08	NS	< 0.00088	< 0.0019	< 0.00094	< 0.001 J	< 0.0014	< 0.0013
1,2-Dibromoethane	0.008	NS	< 0.00028	< 0.00061	< 0.00029	< 0.00033 J	< 0.00043	< 0.0004
1,2-Dichlorobenzene	5300	5100	< 0.00026	0.0228	< 0.00028	< 0.00031 J	< 0.00041	< 0.00038
1,2-Dichloroethane	0.9	6	< 0.00022	< 0.00049	< 0.00024	< 0.00027 J	< 0.00035	< 0.00032
1,2-Dichloropropane	2	10	< 0.00039	< 0.00085 J	< 0.00041	< 0.00046 J	< 0.00061	< 0.00056
1,3-Dichlorobenzene	5300	5100	< 0.00035	0.0068 J	< 0.00037	< 0.00041 J	< 0.00055	< 0.0005
1,4-Dichlorobenzene	5	570	< 0.00028	0.234	0.0033 J	0.0057 J	< 0.00045	< 0.00041
2-Butanone (MEK)	3100	1000	0.013	0.012 J	0.0108	0.271 J	< 0.0042	< 0.0038
2-Hexanone	NS	NS	< 0.0016	< 0.0036	< 0.0017	< 0.0019 J	< 0.0026	< 0.0023
4-methyl-2-pentanone (MIBK)	NS	1000	< 0.0019	< 0.0041	< 0.002	< 0.0022 J	< 0.003	< 0.0027
Acetone	70000	1000	0.0696	0.128	0.0551	0.203 J	0.0304	< 0.0056
Benzene	2	3	0.00097	0.192 J	0.0064	0.169 JD	0.0017	< 0.00099
Bromodichloromethane	1	11	< 0.00024	< 0.00052 J	< 0.00025	< 0.00028 J	< 0.00037	< 0.00034
Bromoform	81	86	< 0.00077	< 0.0017 J	< 0.00082	< 0.00092 J	< 0.0012	< 0.0011
Bromomethane	25	79	< 0.00046	< 0.001	< 0.00049	< 0.00055 J	< 0.00072	< 0.00066
Carbon disulfide	7800	NS	< 0.00028	< 0.0006	< 0.00029	0.0011 J	< 0.00043	< 0.0004
Carbon tetrachloride	0.6	2	< 0.00024	< 0.00052 J	< 0.00025	< 0.00028 J	< 0.00037	< 0.00034
Chlorobenzene	510	37	< 0.00053	62.9 D	0.0229	< 0.00063 J	< 0.00083	< 0.00076
Chloroethane	220	NS	< 0.00049	< 0.0011	< 0.00052	< 0.00058 J	< 0.00077	< 0.00071
Chloroform	0.6	19	< 0.00037	< 0.00082	< 0.0004	< 0.00044 J	< 0.00059	< 0.00054
Chloromethane	4	520	< 0.0005	< 0.0011	< 0.00053	< 0.00059 J	< 0.00078	< 0.00071
cis-1,2-Dichloroethene	230	79	< 0.00018	< 0.0004	< 0.00019	< 0.00022 J	< 0.00029	< 0.00026
cis-1,3-Dichloropropene	2	4	< 0.00047	< 0.001 J	< 0.0005	< 0.00056 J	< 0.00075	< 0.00068
Cyclohexane	NS	NS	< 0.00037	0.0067 J	0.0012 J	0.22 J	0.047	< 0.00053
Dibromochloromethane	3	110	< 0.0002	< 0.00044 J	< 0.00021	< 0.00024 J	< 0.00031	< 0.00029
Dichlorodifluoromethane	490	NS	< 0.00038	< 0.00084	< 0.00041	< 0.00046 J	< 0.00061	< 0.00055
Ethylbenzene	7800	1000	< 0.00046	333 D	0.0036	13.1 JD	0.0055	< 0.00066
Freon 113	NS	NS	< 0.00035	< 0.00077	< 0.00037	< 0.00042 J	< 0.00055	< 0.00051
Isopropylbenzene	NS	NS	< 0.00028	0.327	0.0019 J	1.19 JD	0.0026 J	< 0.00041
Methyl acetate	78000	NS	< 0.0029	< 0.0065	< 0.0031	< 0.0035 J	< 0.0046	< 0.0042
Methyl tert butyl ether	110	NS	< 0.0006	0.0035	< 0.00063	0.0018 J	< 0.00094	< 0.00086
Methylcyclohexane	NS	NS	< 0.00048	0.0043 J	< 0.00051	3.73 JD	0.0062 J	< 0.00068
Methylene chloride	34	49	< 0.00044	< 0.00098	< 0.00047	< 0.00053 J	0.0042 J	< 0.00064
o-Xylene	NS	NS	< 0.00024	0.0069	0.0012	25.6 JD	0.0119	< 0.00035
Styrene	90	23	< 0.00022	< 0.00047	< 0.00023	< 0.00026 J	< 0.00034	< 0.00031
Tetrachloroethene	2	4	< 0.00031	< 0.00069	< 0.00033	< 0.00037 J	< 0.0005	< 0.00045
Toluene	6300	1000	0.001	0.0028	< 0.00042	5.09 JD	0.005	< 0.00057
Trans-1,2-dichloroethene	300	1000	< 0.00052	< 0.0011	< 0.00056	< 0.00062 J	< 0.00082	< 0.00075
trans-1,3-Dichloropropene	2	4	< 0.00076	< 0.0017 J	< 0.00081	< 0.0009 J	< 0.0012	< 0.0011
Trichloroethene	7	23	< 0.00031	< 0.00067 J	< 0.00033	< 0.00036 J	< 0.00048	< 0.00044
Trichlorofluoromethane	23000	NS	< 0.00044	< 0.00097	< 0.00047	< 0.00053 J	< 0.0007	< 0.00064
Vinyl Chloride	0.7	2	< 0.00053	< 0.0012	< 0.00056	< 0.00062 J	< 0.00083	< 0.00076
Xylene, -m,p	NS	NS	< 0.00046	< 0.001	0.0038	54.4 JD	0.0336	< 0.00066
Xylenes	12000	410	< 0.00024	0.0069	0.005	80 JD	0.0455	< 0.00035
Total TIC, Volatile	NS	NS	0	0.306 J	0.06 J	3.964 J	1.245 J	0

Table 3. Comparison of Soil Analytical Results to the RDC Soil Cleanup Criteria and the 2008 Residentail Direct Contact Soil Remediation Standards, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location			CMI-S4					
Sample Name	NJ Residential	NJ Residential	CMI-S4(5-5.5	CMI-S4(14-14.5)	CMI-S4(20-20.5)	CMI-S4(35-35.5)	CMI-S4(43.5-44)	CMI-S4(51-51.5)
Sample Date	Direct Contact Soil	Soil Criteria	12/6/2007	12/6/2007	12/6/2007	12/6/2007	12/6/2007	12/6/2007
Validation Status	(NJAC 7: 26D 6/08)	(NJAC 7:26D	Final	Final	Final	Final	Final	Final

Footnote on last page

Table 3. Comparison of Soil Analytical Results to the RDC Soil Cleanup Criteria and the 2008 Residentail Direct Contact Soil Remediation Standards, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location			CMI-S4					
Sample Name	NJ Residential	NJ Residential	CMI-S4(5-5.5	CMI-S4(14-14.5)	CMI-S4(20-20.5)	CMI-S4(35-35.5)	CMI-S4(43.5-44)	CMI-S4(51-51.5)
Sample Date	Direct Contact Soil	Soil Criteria	12/6/2007	12/6/2007	12/6/2007	12/6/2007	12/6/2007	12/6/2007
Validation Status	(NJAC 7: 26D 6/08)	(NJAC 7:26D	Final	Final	Final	Final	Final	Final
SVOC								
1,1'-Biphenyl	3100	NS	< 0.01	2.21	< 0.01	< 0.11	< 0.014	< 0.011
2,4,5-Trichlorophenol	6100	5600	< 0.071	< 0.1	< 0.073	< 0.8	< 0.096	< 0.073
2,4,6-Trichlorophenol	19	62	< 0.076	< 0.11	< 0.078	< 0.85	< 0.1	< 0.078
2,4-Dichlorophenol	180	170	< 0.039	< 0.055	< 0.04	< 0.44	< 0.052	< 0.04
2,4-Dimethylphenol	1200	1100	< 0.046	< 0.064	< 0.047	< 0.51	< 0.062	< 0.047
2,4-Dinitrophenol	120	110	< 0.041	< 0.058	< 0.042	< 0.46	< 0.055	< 0.043
2,4-Dinitrotoluene	0.7	1	< 0.012	< 0.017	< 0.012	< 0.14	< 0.016	< 0.013
2,6-Dinitrotoluene	0.7	1	< 0.015	< 0.021	< 0.015	< 0.17	< 0.02	< 0.015
2-Chloronaphthalene	NS	NS	< 0.011	< 0.016	< 0.012	< 0.13	< 0.015	< 0.012
2-Chlorophenol	310	280	< 0.024	< 0.034	< 0.024	< 0.27	< 0.032	< 0.025
2-Methylnaphthalene	230	NS	< 0.034	0.893	< 0.034	< 0.38	< 0.045	< 0.035
2-Methylphenol	310	2800	< 0.036	< 0.051	< 0.037	< 0.41	< 0.049	< 0.037
2-Nitroaniline	39	NS	< 0.024	< 0.033	< 0.024	< 0.27	< 0.032	< 0.025
2-Nitrophenol	NS	NS	< 0.044	< 0.061	< 0.045	< 0.49	< 0.058	< 0.045
3&4-Methylphenol	NS	NS	< 0.047	< 0.065	< 0.048	< 0.52	< 0.063	< 0.048
3,3'-Dichlorobenzidine	1	2	< 0.027	< 0.038	< 0.028	< 0.3	< 0.037	< 0.028
3-Nitroaniline	NS	NS	< 0.025	< 0.035	< 0.026	< 0.28	< 0.034	< 0.026
4,6-Dinitro-2-methylphenol	6	NS	< 0.069	< 0.096	< 0.07	< 0.77	< 0.092	< 0.071
4-Bromophenyl phenyl ether	NS	NS	< 0.016	< 0.023	< 0.017	< 0.18	< 0.022	< 0.017
4-Chloro-3-Methylphenol	NS	10000	< 0.051	< 0.072	< 0.052	< 0.57	< 0.069	< 0.053
4-Chloroaniline	NS	230	< 0.014	< 0.019	< 0.014	< 0.15	< 0.018	< 0.014
4-Chlorophenyl phenyl ether	NS	NS	< 0.011	< 0.015	< 0.011	< 0.12	< 0.014	< 0.011
4-Nitroaniline	NS	NS	< 0.021	< 0.03	< 0.022	< 0.24	< 0.029	< 0.022
4-Nitrophenol	NS	NS	< 0.066	< 0.093	< 0.068	< 0.74	< 0.089	< 0.068
Acenaphthene	3400	3400	< 0.012	0.0546 J	< 0.012	0.854	< 0.016	< 0.012
Acenaphthylene	NS	NS	< 0.0076	< 0.011	< 0.0078	< 0.085	< 0.01	< 0.0079
Acetophenone	2	NS	< 0.011	< 0.016	< 0.012	< 0.13	< 0.015	< 0.012
Anthracene	17000	10000	< 0.035	< 0.048	< 0.035	0.666 J	< 0.046	< 0.036
Atrazine	210	NS	< 0.022	< 0.03	< 0.022	< 0.24	< 0.029	< 0.022
Benzaldehyde	6100	NS	< 0.0071	< 0.01	< 0.0073	< 0.08	< 0.0095	< 0.0073
Benzo(a)anthracene	0.6	0.9	< 0.0078	< 0.011	< 0.0079	0.294 J	0.0218 J	< 0.008
Benzo(a)pyrene	0.2	0.66	< 0.018	< 0.026	< 0.019	< 0.21	< 0.025	< 0.019
Benzo(b)fluoranthene	0.6	0.9	< 0.012	< 0.017 J	< 0.013	< 0.14 J	< 0.017	< 0.013 J
Benzo(g,h,i)perylene	380000	NS	< 0.015	< 0.021	< 0.015	< 0.17	< 0.02	< 0.015
Benzo(k)fluoranthene	6	0.9	< 0.016	< 0.023	< 0.017	< 0.18	< 0.022	< 0.017
Benzyl butyl phthalate	1200	1100	< 0.014	< 0.019	< 0.014	< 0.15	< 0.018	< 0.014
bis(2-Chloroethoxy)methane	NS	NS	< 0.015	< 0.02	< 0.015	< 0.16	< 0.02	< 0.015
bis(2-Chloroethyl)ether	0.4	0.66	< 0.017	< 0.024	< 0.018	< 0.19	< 0.023	< 0.018
bis(2-Chloroisopropyl)ether	23	2300	< 0.022	< 0.031	< 0.022	< 0.25	< 0.029	< 0.023
bis(2-Ethylhexyl)phthalate	35	49	< 0.023	3.01	< 0.023	**367 D**	0.8	< 0.023
Caprolactam	31000	NS	< 0.02	< 0.028	< 0.02	< 0.22	< 0.027	< 0.021
Carbazole	24	NS	< 0.013	< 0.018	< 0.013	< 0.14	< 0.017	< 0.013
Chrysene	62	9	< 0.015	< 0.021	< 0.016	0.232 J	0.0203 J	< 0.016
Dibenzo(a,h)anthracene	0.2	0.66	< 0.0096	< 0.014	< 0.0099	< 0.11	< 0.013	< 0.0099
Dibenzofuran	NS	NS	< 0.0074	< 0.01	< 0.0076	0.54 J	< 0.0099	< 0.0076
Diethyl phthalate	49000	10000	< 0.013	6.17 D	< 0.013	< 0.15	< 0.018	< 0.014

Footnote on last page

R2-0005219

Table 3. Comparison of Soil Analytical Results to the RDC Soil Cleanup Criteria and the 2008 Residentail Direct Contact Soil Remediation Standards, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location			CMI-S4					
Sample Name	NJ Residential	NJ Residential	CMI-S4(5-5.5	CMI-S4(14-14.5)	CMI-S4(20-20.5)	CMI-S4(35-35.5)	CMI-S4(43.5-44)	CMI-S4(51-51.5)
Sample Date	Direct Contact Soil	Soil Criteria	12/6/2007	12/6/2007	12/6/2007	12/6/2007	12/6/2007	12/6/2007
Validation Status	(NJAC 7: 26D 6/08)	(NJAC 7:26D	Final	Final	Final	Final	Final	Final
SVOCs continued								
Dimethyl phthalate	NS	10000	< 0.01	< 0.014	< 0.01	< 0.11	< 0.014	< 0.01
di-n-butyl phthalate	6100	5700	< 0.01	8.03 D	< 0.011	< 0.12	< 0.014	< 0.011
di-n-octylphthalate	2400	1100	< 0.015	0.15	< 0.016	0.473 J	0.337	< 0.016
Fluoranthene	2300	2300	< 0.007	< 0.0098	< 0.0071	0.569 J	0.0421 J	< 0.0072
Fluorene	2300	2300	< 0.0076	0.0997 J	< 0.0078	3.47	< 0.01	< 0.0078
Hexachlorobenzene	0.3	0.66	< 0.018	< 0.026	< 0.019	< 0.2	< 0.024	< 0.019
Hexachlorobutadiene	6	1	< 0.017	< 0.024	< 0.018	< 0.2	< 0.023	< 0.018
Hexachlorocyclopentadiene	45	400	< 0.017	< 0.024	< 0.018	< 0.2	< 0.023	< 0.018
Hexachloroethane	35	6	< 0.016	< 0.022	< 0.016	< 0.18	< 0.021	< 0.016
Indeno(1,2,3-cd)pyrene	0.6	0.9	< 0.035	< 0.049	< 0.036	< 0.39	< 0.047	< 0.036
Isophrone	510	1100	< 0.012	< 0.017	< 0.012	< 0.14	< 0.016	< 0.012
Naphthalene	6	230	< 0.0085	**10.9 D**	< 0.0087	0.549 J	< 0.011	< 0.0087
Nitrobenzene	31	28	< 0.013	< 0.018	< 0.013	< 0.14	< 0.017	< 0.013
N-Nitroso-di-n-Propylamine	0.2	0.66	< 0.013	< 0.018	< 0.013	< 0.14	< 0.017	< 0.013
N-Nitrosodiphenylamine	99	140	< 0.0083	0.142 J	< 0.0084	< 0.093	< 0.011	< 0.0085
Pentachlorophenol	3	6	< 0.039	< 0.055	< 0.04	< 0.44	< 0.053	< 0.041
Phenanthrene	NS	NS	< 0.0094	0.229	< 0.0096	12.6	0.063 J	< 0.0097
Phenol	18000	10000	< 0.035	< 0.049	< 0.036	< 0.39	< 0.047	< 0.036
Pyrene	1700	1700	< 0.013	< 0.018	< 0.013	0.842	0.0315 J	< 0.013
Total TIC, Semi-Volatile	NS	NS	0.17 J	949 J	5.45 J	226.5 J	3.57 J	15.12 J
Pesticides / Herbicides								
4,4-DDD	3	3	< 0.00036	< 0.0015	< 0.00037	< 0.0004	< 0.00048	< 0.00037
4,4-DDE	2	2	0.0017	< 0.0015	< 0.00038	< 0.00041	< 0.00049	< 0.00038
4,4-DDT	2	2	< 0.00046	< 0.0019	< 0.00047	< 0.00051	< 0.00061	< 0.00047
Aldrin	0.04	0.04	< 0.00033	< 0.0014	< 0.00034	**0.0465**	< 0.00044	< 0.00034
alpha-BHC	0.1	NS	< 0.00028	< 0.0011	< 0.00028	< 0.00031	< 0.00037	< 0.00029
alpha-Chlordane	0.2	NS	0.0075 J	< 0.0017	< 0.00041	< 0.00045	< 0.00053	< 0.00042
beta-BHC	0.4	NS	< 0.00033	< 0.0013	< 0.00033	< 0.00036	< 0.00043	< 0.00033
Chlordane	0.2	NS	NA	NA	NA	NA	NA	NA
delta-BHC	NS	NS	< 0.00055	< 0.0023	< 0.00057	< 0.00061	< 0.00073	< 0.00057
Dieldrin	0.04	0.042	< 0.00038	< 0.0016	< 0.00039	< 0.00042	< 0.0005	< 0.00039
Endosulfan I (alpha)	470	NS	< 0.0004	< 0.0017	< 0.00041	< 0.00045	< 0.00053	< 0.00041
Endosulfan II (beta)	470	NS	< 0.0004	< 0.0016	< 0.00041	< 0.00044	< 0.00052	< 0.00041
Endosulfan sulfate	470	NS	< 0.00041	< 0.0017	< 0.00042	< 0.00045	< 0.00054	< 0.00042
Endrin	23	17	< 0.00037	< 0.0015	< 0.00038	< 0.00041	< 0.00049	< 0.00038
Endrin Aldehyde	NS	NS	< 0.00035	< 0.0015	< 0.00036	< 0.00039	< 0.00047	< 0.00036
Endrin ketone	NS	NS	< 0.00041	< 0.0017	< 0.00042	< 0.00046	< 0.00054	< 0.00042
gamma-Chlordane	0.2	NS	0.0064	< 0.0017	< 0.00041	< 0.00045	< 0.00053	< 0.00041
Heptachlor	0.1	0.15	< 0.00039	< 0.0016	< 0.0004	< 0.00043	< 0.00052	< 0.0004
Heptachlor epoxide	0.07	NS	< 0.00042	< 0.0017	< 0.00042	< 0.00046	< 0.00055	< 0.00043
Lindane	0.4	0.52	< 0.0003	< 0.0012	< 0.00031	< 0.00033	< 0.0004	< 0.00031
Methoxychlor	390	280	< 0.0005	< 0.0021	< 0.00051	< 0.00055	< 0.00066	< 0.00051
Toxaphene	0.6	0.1	< 0.0072	< 0.03	< 0.0073	< 0.0079	< 0.0094	< 0.0073

Footnote on last page

Table 3. Comparison of Soil Analytical Results to the RDC Soil Cleanup Criteria and the 2008 Residentail Direct Contact Soil Remediation Standards, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location			CMI-S4					
Sample Name	NJ Residential	NJ Residential	CMI-S4(5-5.5	CMI-S4(14-14.5)	CMI-S4(20-20.5)	CMI-S4(35-35.5)	CMI-S4(43.5-44)	CMI-S4(51-51.5)
Sample Date	Direct Contact Soil	Soil Criteria	12/6/2007	12/6/2007	12/6/2007	12/6/2007	12/6/2007	12/6/2007
Validation Status	(NJAC 7: 26D 6/08)	(NJAC 7:26D	Final	Final	Final	Final	Final	Final
PCBs								
PCB 1016	0.2	0.49	< 0.0071	< 0.029	< 0.0073	< 0.0079	< 0.0094	< 0.0073
PCB 1221	0.2	0.49	< 0.023	< 0.093	< 0.023	< 0.025	< 0.03	< 0.023
PCB 1232	0.2	0.49	< 0.02	< 0.084	< 0.021	< 0.023	< 0.027	< 0.021
PCB 1242	0.2	0.49	< 0.012	< 0.049	< 0.012	< 0.013	< 0.016	< 0.012
PCB 1248	0.2	0.49	< 0.013	< 0.054	< 0.013	< 0.014	< 0.017	< 0.013
PCB 1254	0.2	0.49	< 0.018	< 0.073	< 0.018	**4.01**	< 0.023	< 0.018
PCB 1260	0.2	0.49	< 0.0076	< 0.031	< 0.0078	< 0.0084	< 0.01	< 0.0078
Total PCBs	0.2	0.49	0	0	0	**4.01**	0	0
Metals - Total								
Aluminum	78000	NS	10700	34300	17800	12000	7770	3710
Antimony	31	14	< 0.72 J	< 1 J	< 0.75 J	10.8 J	29 J	19.8 J
Arsenic	19	20	2 B	3.2	3.3	10.3	**27**	9.8
Barium	16000	700	65.9	123	50.8	819	403	566
Beryllium	16	2	0.39 B	0.37 B	0.54 B	0.7	0.38 B	0.15 B
Cadmium	78	39	< 0.066	60.6	0.12 B	10.5	6.3	0.46 B
Calcium	NS	NS	3470	41300	1940	14000	154000	4880
Chromium	NS	240	23.3	40	30.9	233	74.6	16.3
Cobalt	1600	NS	7.1 J	7.1 BJ	10.4 J	21.7 J	12.4 J	4.5 BJ
Copper	3100	600	20.7	12.6	32.5	189	921	194
Iron	NS	NS	22000 J	17900 J	25800 J	47000 J	61400 J	20600 J
Lead	400	400	8.9	128	17.9	**1010**	**1360**	**428**
Magnesium	NS	NS	4560	11600	4110	6190	40300	1140
Manganese	11000	NS	268	159	330	605	1110	170
Mercury	23	14	0.042	0.082	3.8	0.41	0.038 B	< 0.022
Nickel	1600	250	15.1	10.8	21.2	31.9	70.3	40.5
Potassium	NS	NS	1270	1000 B	1160 B	2050	1240 B	229 B
Selenium	390	63	< 1.2	16.4	< 1.3	< 1.5	< 1.6	< 1.2
Silver	390	110	< 0.24	< 0.34	< 0.25	< 0.29	< 0.32	< 0.25
Sodium	NS	NS	362 B	1410 B	179 B	610 B	1590	631 B
Thallium	5	2	< 0.82	< 1.2	1 B	< 0.97	< 1.1	< 0.83
Vanadium	78	370	42.4 J	31.5 J	41.5 J	49.6 J	18.8 J	40.8 J
Zinc	23000	1500	42.5	95.6	48.7	12900	10300	666
Other								
Solids, Percent	NS	NS	88.8	63.3	86.3	78.7	66.1	85.6

Footnote on last page

Table 3. Comparison of Soil Analytical Results to the RDC Soil Cleanup Criteria and the 2008 Residentail Direct Contact Soil Remediation Standards, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location			CMI-S5				
Sample Name	NJ Residential	NJ Residential	CMI-S5(5-5.5)	CMI-S5(14-14.5)	CMI-S5(26.5-27)	CMI-S5(35-35.5)	CMI-S5(45.5-46)
Sample Date	Direct Contact Soil	Soil Criteria	12/7/2007	12/7/2007	12/7/2007	12/7/2007	12/10/2007
Validation Status	(NJAC 7: 26D 6/08)	(NJAC 7:26D	Final	Final	Final	Final	Final
VOC							
1,1,1-Trichloroethane	290	210	< 0.00046	< 0.00035	< 0.00044	< 0.00036	< 0.00038
1,1,2,2-Tetrachloroethane	1	34	< 0.00036	< 0.00027	< 0.00034	< 0.00028	< 0.0003
1,1,2-Trichloroethane	2	22	< 0.00036	< 0.00027	< 0.00034	< 0.00028	< 0.0003
1,1-Dichloroethane	8	570	< 0.00084	< 0.00064	< 0.0008	< 0.00067	< 0.0007
1,1-Dichloroethene	11	8	< 0.00056	< 0.00043	< 0.00054	< 0.00045	< 0.00047
1,2,4-Trichlorobenzene	73	68	< 0.00043	< 0.00033	< 0.00041	< 0.00034	< 0.00036
1,2-Dibromo-3-Chloropropane (DBCP)	0.08	NS	< 0.0011	< 0.00086	< 0.0011	< 0.0009	< 0.00094
1,2-Dibromoethane	0.008	NS	< 0.00035	< 0.00027	< 0.00034	< 0.00028	< 0.00029
1,2-Dichlorobenzene	5300	5100	< 0.00034	0.0016 J	< 0.00032	< 0.00027	< 0.00028
1,2-Dichloroethane	0.9	6	< 0.00029	< 0.00022	< 0.00027	< 0.00023	< 0.00024
1,2-Dichloropropane	2	10	< 0.0005	< 0.00038	< 0.00048	< 0.0004	< 0.00042
1,3-Dichlorobenzene	5300	5100	< 0.00045	< 0.00034	< 0.00043	< 0.00035	< 0.00037
1,4-Dichlorobenzene	5	570	0.0227	0.0032 J	< 0.00035	< 0.00029	< 0.0003
2-Butanone (MEK)	3100	1000	0.0103 J	< 0.0026	< 0.0033	< 0.0027	< 0.0028
2-Hexanone	NS	NS	< 0.0021	< 0.0016	< 0.002	< 0.0017	< 0.0017
4-methyl-2-pentanone (MIBK)	NS	1000	< 0.0024	< 0.0018	< 0.0023	< 0.0019	< 0.002
Acetone	70000	1000	0.0345	0.0285	< 0.0048	0.0367	0.0105
Benzene	2	3	< 0.00088	0.00093	< 0.00084	< 0.0007	< 0.00073
Bromodichloromethane	1	11	< 0.0003	< 0.00023	< 0.00029	< 0.00024	< 0.00025
Bromoform	81	86	< 0.00099	< 0.00075	< 0.00095	< 0.00079	< 0.00082
Bromomethane	25	79	< 0.00059	< 0.00045	< 0.00056	< 0.00047	< 0.00049
Carbon disulfide	7800	NS	0.0014 J	< 0.00027	< 0.00034	< 0.00028	< 0.00029
Carbon tetrachloride	0.6	2	< 0.0003	< 0.00023	< 0.00029	< 0.00024	< 0.00025
Chlorobenzene	510	37	0.026	0.0067	< 0.00065	< 0.00054	< 0.00056
Chloroethane	220	NS	< 0.00063	< 0.00048	< 0.0006	< 0.0005	< 0.00052
Chloroform	0.6	19	< 0.00048	< 0.00037	< 0.00046	< 0.00038	< 0.0004
Chloromethane	4	520	< 0.00064	< 0.00048	< 0.00061	< 0.00051	< 0.00053
cis-1,2-Dichloroethene	230	79	< 0.00023	< 0.00018	< 0.00022	< 0.00019	< 0.00019
cis-1,3-Dichloropropene	2	4	< 0.00061	< 0.00046	< 0.00058	< 0.00048	< 0.0005
Cyclohexane	NS	NS	< 0.00048	< 0.00036	< 0.00046	< 0.00038	< 0.0004
Dibromochloromethane	3	110	< 0.00026	< 0.00019	< 0.00024	< 0.0002	< 0.00021
Dichlorodifluoromethane	490	NS	< 0.00049	< 0.00038	< 0.00047	< 0.00039	< 0.00041
Ethylbenzene	7800	1000	0.002	0.0024	< 0.00056	< 0.00047	< 0.00049
Freon 113	NS	NS	< 0.00045	< 0.00034	< 0.00043	< 0.00036	< 0.00038
Isopropylbenzene	NS	NS	0.003 J	0.0029 J	< 0.00035	< 0.00029	< 0.0003
Methyl acetate	78000	NS	< 0.0038	< 0.0029	< 0.0036	< 0.003	< 0.0031
Methyl tert butyl ether	110	NS	< 0.00077	< 0.00058	< 0.00073	< 0.00061	< 0.00063
Methylcyclohexane	NS	NS	< 0.00061	< 0.00046	< 0.00058	< 0.00048	< 0.00051
Methylene chloride	34	49	< 0.00057	< 0.00043	< 0.00055	< 0.00045	< 0.00047
o-Xylene	NS	NS	0.0012	0.0025	< 0.0003	< 0.00025	< 0.00026
Styrene	90	23	< 0.00028	< 0.00021	< 0.00026	< 0.00022	< 0.00023
Tetrachloroethene	2	4	< 0.0004	< 0.00031	< 0.00039	< 0.00032	< 0.00034
Toluene	6300	1000	< 0.00051	0.0028	< 0.00049	< 0.0004	< 0.00042
Trans-1,2-dichloroethene	300	1000	< 0.00067	< 0.00051	< 0.00064	< 0.00053	< 0.00056
trans-1,3-Dichloropropene	2	4	< 0.00098	< 0.00074	< 0.00094	< 0.00078	< 0.00081
Trichloroethene	7	23	< 0.00039	< 0.0003	< 0.00038	< 0.00031	< 0.00033
Trichlorofluoromethane	23000	NS	< 0.00057	< 0.00043	< 0.00054	< 0.00045	< 0.00047
Vinyl Chloride	0.7	2	< 0.00068	< 0.00051	< 0.00065	< 0.00054	< 0.00056
Xylene, -m,p	NS	NS	0.003	0.0087	< 0.00057	< 0.00047	< 0.00049
Xylenes	12000	410	0.0043	0.0112	< 0.0003	< 0.00025	< 0.00026
Total TIC, Volatile	NS	NS	0.0859 J	0.0631 J	0	0	0.0295 J

Table 3. Comparison of Soil Analytical Results to the RDC Soil Cleanup Criteria and the 2008 Residentail Direct Contact Soil Remediation Standards, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location			CMI-S5				
Sample Name	NJ Residential	NJ Residential	CMI-S5(5-5.5)	CMI-S5(14-14.5)	CMI-S5(26.5-27)	CMI-S5(35-35.5)	CMI-S5(45.5-46)
Sample Date	Direct Contact Soil	Soil Criteria	12/7/2007	12/7/2007	12/7/2007	12/7/2007	12/10/2007
Validation Status	(NJAC 7: 26D 6/08)	(NJAC 7:26D	Final	Final	Final	Final	Final

Footnote on last page

R2-0005223

Table 3. Comparison of Soil Analytical Results to the RDC Soil Cleanup Criteria and the 2008 Residentail Direct Contact Soil Remediation Standards, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location			CMI-S5				
Sample Name	NJ Residential	NJ Residential	CMI-S5(5-5.5)	CMI-S5(14-14.5)	CMI-S5(26.5-27)	CMI-S5(35-35.5)	CMI-S5(45.5-46)
Sample Date	Direct Contact Soil	Soil Criteria	12/7/2007	12/7/2007	12/7/2007	12/7/2007	12/10/2007
Validation Status	(NJAC 7: 26D 6/08)	(NJAC 7:26D	Final	Final	Final	Final	Final
SVOC							
1,1'-Biphenyl	3100	NS	0.0283 J	< 0.01	< 0.07	< 0.01	< 0.011
2,4,5-Trichlorophenol	6100	5600	< 0.08	< 0.071	< 0.49	< 0.071	< 0.074
2,4,6-Trichlorophenol	19	62	< 0.085	< 0.076	< 0.52	< 0.075	< 0.078
2,4-Dichlorophenol	180	170	< 0.044	< 0.039	< 0.27	< 0.039	< 0.04
2,4-Dimethylphenol	1200	1100	< 0.051	< 0.046	< 0.31	< 0.046	< 0.047
2,4-Dinitrophenol	120	110	< 0.046	< 0.041	< 0.28	< 0.041	< 0.043
2,4-Dinitrotoluene	0.7	1	< 0.014	< 0.012	< 0.083	< 0.012	< 0.013
2,6-Dinitrotoluene	0.7	1	< 0.017	< 0.015	< 0.1	< 0.015	< 0.015
2-Chloronaphthalene	NS	NS	< 0.013	< 0.011	< 0.078	< 0.011	< 0.012
2-Chlorophenol	310	280	< 0.027	< 0.024	< 0.16	< 0.024	< 0.025
2-Methylnaphthalene	230	NS	0.134	< 0.034	< 0.23	< 0.034	< 0.035
2-Methylphenol	310	2800	< 0.041	< 0.036	< 0.25	< 0.036	< 0.037
2-Nitroaniline	39	NS	< 0.027	< 0.024	< 0.16	< 0.024	< 0.025
2-Nitrophenol	NS	NS	< 0.049	< 0.044	< 0.3	< 0.043	< 0.045
3&4-Methylphenol	NS	NS	< 0.052	< 0.047	< 0.32	< 0.046	< 0.048
3,3'-Dichlorobenzidine	1	2	< 0.03	< 0.027	< 0.19	< 0.027	< 0.028
3-Nitroaniline	NS	NS	< 0.028	< 0.025	< 0.17	< 0.025	< 0.026
4,6-Dinitro-2-methylphenol	6	NS	< 0.077	< 0.069	< 0.47	< 0.068	< 0.071
4-Bromophenyl phenyl ether	NS	NS	< 0.018	< 0.016	< 0.11	< 0.016	< 0.017
4-Chloro-3-Methylphenol	NS	10000	< 0.057	< 0.051	< 0.35	< 0.051	< 0.053
4-Chloroaniline	NS	230	< 0.015	< 0.014	< 0.093	< 0.014	< 0.014
4-Chlorophenyl phenyl ether	NS	NS	< 0.012	< 0.011	< 0.074	< 0.011	< 0.011
4-Nitroaniline	NS	NS	< 0.024	< 0.021	< 0.15	< 0.021	< 0.022
4-Nitrophenol	NS	NS	< 0.074	< 0.066	< 0.45	< 0.066	< 0.068
Acenaphthene	3400	3400	< 0.013	< 0.012	< 0.082	< 0.012	< 0.012
Acenaphthylene	NS	NS	< 0.0085	< 0.0076	< 0.052	< 0.0076	< 0.0079
Acetophenone	2	NS	< 0.013	< 0.011	< 0.078	< 0.011	< 0.012
Anthracene	17000	10000	< 0.039	< 0.035	< 0.24	< 0.034	< 0.036
Atrazine	210	NS	< 0.024	< 0.022	< 0.15	< 0.021	< 0.022
Benzaldehyde	6100	NS	< 0.0079	< 0.0071	< 0.049	< 0.0071	< 0.0073 R
Benzo(a)anthracene	0.6	0.9	< 0.0087	< 0.0078	0.111 J	< 0.0077	< 0.008
Benzo(a)pyrene	0.2	0.66	< 0.021	< 0.018	< 0.13	< 0.018	< 0.019
Benzo(b)fluoranthene	0.6	0.9	< 0.014	< 0.012 J	< 0.084 J	< 0.012 J	< 0.013
Benzo(g,h,i)perylene	380000	NS	< 0.017	< 0.015	< 0.1	< 0.015	< 0.015
Benzo(k)fluoranthene	6	0.9	< 0.018	< 0.016	< 0.11	< 0.016	< 0.017
Benzyl butyl phthalate	1200	1100	< 0.015	< 0.014	< 0.094	< 0.014	< 0.014
bis(2-Chloroethoxy)methane	NS	NS	< 0.016	< 0.015	< 0.1	< 0.015	< 0.015
bis(2-Chloroethyl)ether	0.4	0.66	< 0.019	< 0.017	< 0.12	< 0.017	< 0.018
bis(2-Chloroisopropyl)ether	23	2300	< 0.024	< 0.022	< 0.15	< 0.022	< 0.023
bis(2-Ethylhexyl)phthalate	35	49	0.216	0.049 J	0.693	< 0.022	< 0.023
Caprolactam	31000	NS	< 0.022	< 0.02	< 0.14	< 0.02	< 0.021
Carbazole	24	NS	< 0.014	< 0.013	< 0.087	< 0.013	< 0.013
Chrysene	62	9	< 0.017	< 0.015	0.139 J	< 0.015	< 0.016
Dibenzo(a,h)anthracene	0.2	0.66	< 0.011	< 0.0097	< 0.066	< 0.0096	< 0.0099
Dibenzofuran	NS	NS	< 0.0083	< 0.0074	< 0.051	< 0.0074	< 0.0076
Diethyl phthalate	49000	10000	< 0.015	< 0.013	< 0.09	< 0.013	< 0.014

Footnote on last page

Table 3. Comparison of Soil Analytical Results to the RDC Soil Cleanup Criteria and the 2008 Residentail Direct Contact Soil Remediation Standards, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location			CMI-S5				
Sample Name	NJ Residential	NJ Residential	CMI-S5(5-5.5)	CMI-S5(14-14.5)	CMI-S5(26.5-27)	CMI-S5(35-35.5)	CMI-S5(45.5-46)
Sample Date	Direct Contact Soil	Soil Criteria	12/7/2007	12/7/2007	12/7/2007	12/7/2007	12/10/2007
Validation Status	(NJAC 7: 26D 6/08)	(NJAC 7:26D	Final	Final	Final	Final	Final
SVOCs continued							
Dimethyl phthalate	NS	10000	< 0.011	< 0.01	< 0.07	< 0.01	< 0.01
di-n-butyl phthalate	6100	5700	< 0.012	< 0.01	< 0.072	< 0.01	< 0.011
di-n-octylphthalate	2400	1100	< 0.017	< 0.015	< 0.11	< 0.015	< 0.016
Fluoranthene	2300	2300	< 0.0078	< 0.007	< 0.048	< 0.007	< 0.0072
Fluorene	2300	2300	< 0.0085	< 0.0076	< 0.052	< 0.0075	< 0.0078
Hexachlorobenzene	0.3	0.66	< 0.02	< 0.018	< 0.12	< 0.018	< 0.019
Hexachlorobutadiene	6	1	< 0.019	< 0.017	< 0.12	< 0.017	< 0.018
Hexachlorocyclopentadiene	45	400	< 0.019	< 0.017	< 0.12	< 0.017	< 0.018
Hexachloroethane	35	6	< 0.017	< 0.016	< 0.11	< 0.016	< 0.016
Indeno(1,2,3-cd)pyrene	0.6	0.9	< 0.039	< 0.035	< 0.24	< 0.035	< 0.036
Isophrone	510	1100	< 0.014	< 0.012	< 0.083	< 0.012	< 0.012
Naphthalene	6	230	0.0903	0.135	< 0.058	< 0.0084	< 0.0087
Nitrobenzene	31	28	< 0.014	< 0.013	< 0.087	< 0.013	< 0.013
N-Nitroso-di-n-Propylamine	0.2	0.66	< 0.014	< 0.013	< 0.088	< 0.013	< 0.013
N-Nitrosodiphenylamine	99	140	< 0.0092	< 0.0083	< 0.057	< 0.0082	< 0.0085
Pentachlorophenol	3	6	< 0.044	< 0.039	< 0.27	< 0.039	< 0.041
Phenanthrene	NS	NS	0.037 J	< 0.0094	0.106 J	< 0.0093	< 0.0097
Phenol	18000	10000	< 0.039	< 0.035	< 0.24	< 0.035	< 0.036
Pyrene	1700	1700	< 0.015	< 0.013	0.112 J	< 0.013	< 0.013
Total TIC, Semi-Volatile	NS	NS	21.9 J	5.57 J	23.9 J	1.67 J	0
Pesticides / Herbicides							
4,4-DDD	3	3	< 0.0004	< 0.00036	< 0.00042	< 0.00036	< 0.00037
4,4-DDE	2	2	< 0.00041	< 0.00037	< 0.00044	< 0.00037	< 0.00038
4,4-DDT	2	2	< 0.00051	< 0.00046	< 0.00054	< 0.00046	< 0.00047
Aldrin	0.04	0.04	< 0.00037	< 0.00033	< 0.00039	< 0.00033	< 0.00034
alpha-BHC	0.1	NS	< 0.00031	< 0.00028	< 0.00032	< 0.00028	< 0.00029
alpha-Chlordane	0.2	NS	< 0.00045	< 0.0004	< 0.00047	< 0.00041	< 0.00042
beta-BHC	0.4	NS	< 0.00036	< 0.00032	< 0.00038	< 0.00033	< 0.00033
Chlordane	0.2	NS	NA	NA	NA	NA	NA
delta-BHC	NS	NS	< 0.00061	< 0.00055	< 0.00065	< 0.00056	< 0.00057
Dieldrin	0.04	0.042	< 0.00042	< 0.00038	< 0.00044	< 0.00038	< 0.00039
Endosulfan I (alpha)	470	NS	< 0.00045	< 0.0004	< 0.00047	< 0.0004	< 0.00041
Endosulfan II (beta)	470	NS	< 0.00044	< 0.0004	< 0.00046	< 0.0004	< 0.00041
Endosulfan sulfate	470	NS	< 0.00045	< 0.00041	< 0.00048	< 0.00041	< 0.00042
Endrin	23	17	< 0.00042	< 0.00037	< 0.00044	< 0.00038	< 0.00038
Endrin Aldehyde	NS	NS	< 0.00039	< 0.00035	< 0.00041	< 0.00036	< 0.00036
Endrin ketone	NS	NS	< 0.00046	< 0.00041	< 0.00048	< 0.00041	< 0.00042
gamma-Chlordane	0.2	NS	< 0.00045	< 0.0004	< 0.00047	< 0.00041	< 0.00041
Heptachlor	0.1	0.15	< 0.00043	< 0.00039	< 0.00046	< 0.00039	< 0.0004
Heptachlor epoxide	0.07	NS	< 0.00046	< 0.00041	< 0.00048	< 0.00042	< 0.00043
Lindane	0.4	0.52	< 0.00034	< 0.0003	< 0.00035	< 0.0003	< 0.00031
Methoxychlor	390	280	< 0.00055	< 0.0005	< 0.00058	< 0.0005	< 0.00051
Toxaphene	0.6	0.1	< 0.0079	< 0.0071	< 0.0083	< 0.0072	< 0.0073

Footnote on last page

Table 3. Comparison of Soil Analytical Results to the RDC Soil Cleanup Criteria and the 2008 Residentail Direct Contact Soil Remediation Standards, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location			CMI-S5				
Sample Name	NJ Residential	NJ Residential	CMI-S5(5-5.5)	CMI-S5(14-14.5)	CMI-S5(26.5-27)	CMI-S5(35-35.5)	CMI-S5(45.5-46)
Sample Date	Direct Contact Soil	Soil Criteria	12/7/2007	12/7/2007	12/7/2007	12/7/2007	12/10/2007
Validation Status	(NJAC 7: 26D 6/08)	(NJAC 7:26D	Final	Final	Final	Final	Final
PCBs							
PCB 1016	0.2	0.49	< 0.0079	< 0.0071	< 0.0083	< 0.0072	< 0.0073
PCB 1221	0.2	0.49	< 0.025	< 0.022	< 0.026	< 0.023	< 0.023
PCB 1232	0.2	0.49	< 0.023	< 0.02	< 0.024	< 0.02	< 0.021
PCB 1242	0.2	0.49	0.0931	< 0.012	< 0.014	< 0.012	< 0.012
PCB 1248	0.2	0.49	< 0.014	< 0.013	< 0.015	< 0.013	< 0.013
PCB 1254	0.2	0.49	< 0.02	< 0.018	< 0.021	< 0.018	< 0.018
PCB 1260	0.2	0.49	< 0.0084	< 0.0075	< 0.0088	< 0.0076	< 0.0078
Total PCBs	0.2	0.49	0.0931	0	0	0	0
Metals - Total							
Aluminum	78000	NS	8010	15600	14600	21000	12100 J
Antimony	31	14	1.5 BJ	< 0.71 J	6.2 J	< 0.7 J	6.9 J
Arsenic	19	20	2.9	6.7	5.8	6.9	12.3
Barium	16000	700	31.7	42.4	225	70.2	374
Beryllium	16	2	0.28 B	0.5 B	0.44 B	0.77	0.41 B
Cadmium	78	39	0.11 B	< 0.065	10.1	28.3	6.9
Calcium	NS	NS	2300	1080	5790	2210	12400 J
Chromium	NS	240	27.7	23.8	72.2	27	32.8
Cobalt	1600	NS	6.1 BJ	9.5 J	24.2 J	8.6 J	8.9
Copper	3100	600	39.9	32.1	93.5	24.3	246
Iron	NS	NS	26300 J	24600 J	60200 J	48200 J	72900
Lead	400	400	39.4	16.9	**474**	39.3	**622**
Magnesium	NS	NS	4470	4040	6140	3930	3450
Manganese	11000	NS	182	541	643	468	605 J
Mercury	23	14	< 0.026	0.036	0.35	< 0.024	0.024 B
Nickel	1600	250	23.9	18	33.3	21.4	34.3
Potassium	NS	NS	784 B	1090 B	1400	2100	1890
Selenium	390	63	< 1.4	< 1.2	2.2 B	< 1.2	2.7 J
Silver	390	110	0.44 B	< 0.24	< 0.3	< 0.24	< 0.26 J
Sodium	NS	NS	174 B	217 B	659 B	296 B	2060
Thallium	5	2	< 0.96	< 0.81	< 1	< 0.8	3.4 B
Vanadium	78	370	28.5 J	40.8 J	49.7 J	44.5 J	**81.3**
Zinc	23000	1500	79.6	109	17100	132	1090 J
Other							
Solids, Percent	NS	NS	79.5	88.1	74.7	88.6	86.1

Footnote on last page

R2-0005226

Table 3. Comparison of Soil Analytical Results to the RDC Soil Cleanup Criteria and the 2008 Residentail Direct Contact Soil Remediation Standards, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location			CMI-S6					
Sample Name	NJ Residential	NJ Residential	CMI-S6(5.5-6.0)	CMI-S6(20.5-21)	CMI-S6(36.5-37)	CMI-S6(41.5-42)	CMI-S6(49.5-50)	CMI-S6(61.5-62)
Sample Date	Direct Contact Soil	Soil Criteria	12/10/2007	12/10/2007	12/10/2007	12/10/2007	12/11/2007	12/11/2007
Validation Status	(NJAC 7: 26D 6/08)	(NJAC 7:26D	Final	Final	Final	Final	Final	Final
VOC								
1,1,1-Trichloroethane	290	210	< 0.00036	< 0.00034	< 0.00044	< 0.00042	< 0.00033	< 0.00033
1,1,2,2-Tetrachloroethane	1	34	< 0.00028	< 0.00026	< 0.00034	< 0.00033	< 0.00026	< 0.00025
1,1,2-Trichloroethane	2	22	< 0.00028	< 0.00026	< 0.00034	< 0.00033	< 0.00026	< 0.00025
1,1-Dichloroethane	8	570	< 0.00066	< 0.00062	< 0.0008	< 0.00077	< 0.0006	< 0.0006
1,1-Dichloroethene	11	8	< 0.00044	< 0.00042	< 0.00054	< 0.00052	< 0.0004	< 0.0004
1,2,4-Trichlorobenzene	73	68	< 0.00034	< 0.00032	< 0.00041	< 0.00039	< 0.00031	< 0.00031
1,2-Dibromo-3-Chloropropane (DBCP)	0.08	NS	< 0.0009	< 0.00084	< 0.0011	< 0.001	< 0.00082	< 0.00081
1,2-Dibromoethane	0.008	NS	< 0.00028	< 0.00026	< 0.00034	< 0.00033	< 0.00025	< 0.00025
1,2-Dichlorobenzene	5300	5100	< 0.00027	< 0.00025	< 0.00032	< 0.00031	< 0.00024	< 0.00024
1,2-Dichloroethane	0.9	6	< 0.00023	< 0.00021	< 0.00027	< 0.00026	< 0.00021	< 0.00021
1,2-Dichloropropane	2	10	< 0.00039	< 0.00037	< 0.00048	< 0.00046	< 0.00036	< 0.00036
1,3-Dichlorobenzene	5300	5100	< 0.00035	< 0.00033	< 0.00043	< 0.00041	< 0.00032	< 0.00032
1,4-Dichlorobenzene	5	570	< 0.00029	0.0049	< 0.00035	< 0.00033	< 0.00026	< 0.00026
2-Butanone (MEK)	3100	1000	< 0.0027	< 0.0025	< 0.0033	< 0.0031	< 0.0025	< 0.0025
2-Hexanone	NS	NS	< 0.0017	< 0.0015	< 0.002	< 0.0019	< 0.0015	< 0.0015
4-methyl-2-pentanone (MIBK)	NS	1000	< 0.0019	< 0.0018	< 0.0023	< 0.0022	< 0.0017	< 0.0017
Acetone	70000	1000	0.0163	0.0266	< 0.0048	< 0.0046	< 0.0036	0.0116
Benzene	2	3	< 0.00069	0.0011	< 0.00084	< 0.00081	< 0.00063	< 0.00063
Bromodichloromethane	1	11	< 0.00024	< 0.00022	< 0.00029	< 0.00028	< 0.00022	< 0.00022
Bromoform	81	86	< 0.00078	< 0.00073	< 0.00095	< 0.00091	< 0.00071	< 0.00071
Bromomethane	25	79	< 0.00047	< 0.00044	< 0.00057	< 0.00054	< 0.00042	< 0.00042
Carbon disulfide	7800	NS	< 0.00028	< 0.00026	< 0.00034	< 0.00032	< 0.00025	0.0025 J
Carbon tetrachloride	0.6	2	< 0.00024	< 0.00022	< 0.00029	< 0.00028	< 0.00022	< 0.00022
Chlorobenzene	510	37	0.0043 J	0.0713	0.0023 J	< 0.00062	< 0.00049	< 0.00049
Chloroethane	220	NS	< 0.0005	< 0.00046	< 0.0006	< 0.00058	< 0.00045	< 0.00045
Chloroform	0.6	19	< 0.00038	< 0.00035	< 0.00046	0.00097 J	< 0.00035	< 0.00034
Chloromethane	4	520	< 0.0005	< 0.00047	< 0.00061	< 0.00059	< 0.00046	< 0.00046
cis-1,2-Dichloroethene	230	79	< 0.00018	< 0.00017	< 0.00022	< 0.00021	< 0.00017	< 0.00017
cis-1,3-Dichloropropene	2	4	< 0.00048	< 0.00045	< 0.00058	< 0.00056	< 0.00044	< 0.00044
Cyclohexane	NS	NS	< 0.00038	< 0.00035	0.0031 J	< 0.00044	< 0.00034	< 0.00034
Dibromochloromethane	3	110	< 0.0002	< 0.00019	< 0.00024	< 0.00023	< 0.00018	< 0.00018
Dichlorodifluoromethane	490	NS	< 0.00039	< 0.00036	< 0.00047	< 0.00045	< 0.00035	< 0.00035
Ethylbenzene	7800	1000	< 0.00046	0.00082 J	0.0024	< 0.00054	< 0.00042	< 0.00042
Freon 113	NS	NS	< 0.00036	< 0.00033	< 0.00043	< 0.00041	< 0.00032	< 0.00032
Isopropylbenzene	NS	NS	< 0.00029	0.0022 J	0.0017 J	< 0.00033	< 0.00026	< 0.00026
Methyl acetate	78000	NS	< 0.003	< 0.0028	< 0.0036	< 0.0035	< 0.0027	< 0.0027
Methyl tert butyl ether	110	NS	< 0.0006	< 0.00056	< 0.00073	< 0.0007	< 0.00055	< 0.00055
Methylcyclohexane	NS	NS	< 0.00048	< 0.00045	0.0051 J	< 0.00056	< 0.00044	< 0.00044
Methylene chloride	34	49	< 0.00045	< 0.00042	< 0.00055	0.0017 J	< 0.00041	< 0.00041
o-Xylene	NS	NS	< 0.00025	0.00053 J	0.0012	< 0.00029	< 0.00023	< 0.00022
Styrene	90	23	< 0.00022	< 0.0002	< 0.00026	< 0.00025	< 0.0002	< 0.0002
Tetrachloroethene	2	4	< 0.00032	< 0.0003	< 0.00039	< 0.00037	< 0.00029	< 0.00029
Toluene	6300	1000	< 0.0004	< 0.00038	< 0.00049	< 0.00047	< 0.00037	< 0.00036
Trans-1,2-dichloroethene	300	1000	< 0.00053	< 0.0005	< 0.00064	< 0.00062	< 0.00048	< 0.00048
trans-1,3-Dichloropropene	2	4	< 0.00077	< 0.00072	< 0.00094	< 0.0009	< 0.0007	< 0.0007
Trichloroethene	7	23	< 0.00031	< 0.00029	< 0.00038	< 0.00036	< 0.00028	< 0.00028
Trichlorofluoromethane	23000	NS	< 0.00045	< 0.00042	< 0.00055	< 0.00052	< 0.00041	< 0.00041
Vinyl Chloride	0.7	2	< 0.00053	< 0.0005	< 0.00065	< 0.00062	< 0.00048	< 0.00048
Xylene, -m,p	NS	NS	< 0.00047	0.0043	0.0133	< 0.00054	< 0.00043	< 0.00042
Xylenes	12000	410	< 0.00025	0.0048	0.0146	< 0.00029	< 0.00023	< 0.00022
Total TIC, Volatile	NS	NS	0.019 J	0.017 J	0.444 J	0	0.0754 J	0

Table 3. Comparison of Soil Analytical Results to the RDC Soil Cleanup Criteria and the 2008 Residentail Direct Contact Soil Remediation Standards, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location			CMI-S6					
Sample Name	NJ Residential	NJ Residential	CMI-S6(5.5-6.0)	CMI-S6(20.5-21)	CMI-S6(36.5-37)	CMI-S6(41.5-42)	CMI-S6(49.5-50)	CMI-S6(61.5-62)
Sample Date	Direct Contact Soil	Soil Criteria	12/10/2007	12/10/2007	12/10/2007	12/10/2007	12/11/2007	12/11/2007
Validation Status	(NJAC 7: 26D 6/08)	(NJAC 7:26D	Final	Final	Final	Final	Final	Final

Footnote on last page

R2-0005228

Table 3. Comparison of Soil Analytical Results to the RDC Soil Cleanup Criteria and the 2008 Residentail Direct Contact Soil Remediation Standards, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location			CMI-S6					
Sample Name	NJ Residential	NJ Residential	CMI-S6(5.5-6.0)	CMI-S6(20.5-21)	CMI-S6(36.5-37)	CMI-S6(41.5-42)	CMI-S6(49.5-50)	CMI-S6(61.5-62)
Sample Date	Direct Contact Soil	Soil Criteria	12/10/2007	12/10/2007	12/10/2007	12/10/2007	12/11/2007	12/11/2007
Validation Status	(NJAC 7: 26D 6/08)	(NJAC 7:26D	Final	Final	Final	Final	Final	Final
SVOC								
1,1'-Biphenyl	3100	NS	< 0.011	< 0.011	< 0.011	< 0.011	< 0.01	< 0.0098
2,4,5-Trichlorophenol	6100	5600	< 0.079	< 0.074	< 0.079	< 0.079	< 0.072	< 0.069
2,4,6-Trichlorophenol	19	62	< 0.084	< 0.079	< 0.084	< 0.084	< 0.077	< 0.073
2,4-Dichlorophenol	180	170	< 0.043	< 0.04	< 0.043	< 0.043	< 0.04	< 0.038
2,4-Dimethylphenol	1200	1100	< 0.051	< 0.047	< 0.051	< 0.051	< 0.046	< 0.044
2,4-Dinitrophenol	120	110	< 0.046	< 0.043	< 0.046	< 0.046	< 0.042	< 0.04
2,4-Dinitrotoluene	0.7	1	< 0.014	< 0.013	< 0.013	< 0.014	< 0.012	< 0.012
2,6-Dinitrotoluene	0.7	1	< 0.017	< 0.016	< 0.017	< 0.017	< 0.015	< 0.014
2-Chloronaphthalene	NS	NS	< 0.013	< 0.012	< 0.013	< 0.013	< 0.011	< 0.011
2-Chlorophenol	310	280	< 0.027	< 0.025	< 0.026	< 0.027	< 0.024	< 0.023
2-Methylnaphthalene	230	NS	< 0.037	< 0.035	< 0.037	< 0.038	< 0.034	< 0.032
2-Methylphenol	310	2800	< 0.04	< 0.038	< 0.04	< 0.04	< 0.037	< 0.035
2-Nitroaniline	39	NS	< 0.027	< 0.025	< 0.026	< 0.027	< 0.024	< 0.023
2-Nitrophenol	NS	NS	< 0.048	< 0.045	< 0.048	< 0.048	< 0.044	< 0.042
3&4-Methylphenol	NS	NS	< 0.052	< 0.048	< 0.051	< 0.052	< 0.047	< 0.045
3,3'-Dichlorobenzidine	1	2	< 0.03	< 0.028	< 0.03	< 0.03	< 0.028	< 0.026
3-Nitroaniline	NS	NS	< 0.028	< 0.026	< 0.028	< 0.028	< 0.025	< 0.024
4,6-Dinitro-2-methylphenol	6	NS	< 0.076	< 0.071	< 0.076	< 0.077	< 0.07	< 0.066
4-Bromophenyl phenyl ether	NS	NS	< 0.018	< 0.017	< 0.018	< 0.018	< 0.017	< 0.016
4-Chloro-3-Methylphenol	NS	10000	< 0.057	< 0.053	< 0.056	< 0.057	< 0.052	< 0.049
4-Chloroaniline	NS	230	< 0.015	< 0.014	< 0.015	< 0.015	< 0.014	< 0.013
4-Chlorophenyl phenyl ether	NS	NS	< 0.012	< 0.011	< 0.012	< 0.012	< 0.011	< 0.01
4-Nitroaniline	NS	NS	< 0.024	< 0.022	< 0.024	< 0.024	< 0.022	< 0.021
4-Nitrophenol	NS	NS	< 0.074	< 0.068	< 0.073	< 0.074	< 0.067	< 0.063
Acenaphthene	3400	3400	< 0.013	< 0.012	0.0165 J	< 0.013	< 0.012	< 0.011
Acenaphthylene	NS	NS	< 0.0085	< 0.0079	< 0.0084	< 0.0085	< 0.0077	< 0.0073
Acetophenone	2	NS	< 0.013	< 0.012	< 0.013	< 0.013	< 0.012	< 0.011
Anthracene	17000	10000	0.0462 J	< 0.036	< 0.038	< 0.039	< 0.035	< 0.033
Atrazine	210	NS	< 0.024	< 0.022	< 0.024	< 0.024	< 0.022	< 0.021
Benzaldehyde	6100	NS	< 0.0079 R	< 0.0074 R	< 0.0078 R	< 0.0079 R	< 0.0072 R	< 0.0068 R
Benzo(a)anthracene	0.6	0.9	0.0609 J	< 0.0081	0.0233 J	< 0.0087	< 0.0079	< 0.0075
Benzo(a)pyrene	0.2	0.66	0.0476 J	< 0.019	< 0.02	< 0.021	< 0.019	< 0.018
Benzo(b)fluoranthene	0.6	0.9	0.0534 J	< 0.013	< 0.014	< 0.014	< 0.012	< 0.012
Benzo(g,h,i)perylene	380000	NS	0.0381 J	< 0.016	< 0.017	< 0.017	< 0.015	< 0.014
Benzo(k)fluoranthene	6	0.9	0.0508 J	< 0.017	< 0.018	< 0.018	< 0.016	< 0.016
Benzyl butyl phthalate	1200	1100	0.0478 J	0.0545 J	< 0.015	< 0.015	< 0.014	< 0.013
bis(2-Chloroethoxy)methane	NS	NS	< 0.016	< 0.015	< 0.016	< 0.016	< 0.015	< 0.014
bis(2-Chloroethyl)ether	0.4	0.66	< 0.019	< 0.018	< 0.019	< 0.019	< 0.017	< 0.017
bis(2-Chloroisopropyl)ether	23	2300	< 0.024	< 0.023	< 0.024	< 0.024	< 0.022	< 0.021
bis(2-Ethylhexyl)phthalate	35	49	0.221	1.08	1.51	< 0.025	0.142	< 0.022
Caprolactam	31000	NS	< 0.022	< 0.021	< 0.022	< 0.022	< 0.02	< 0.019
Carbazole	24	NS	0.0639 J	< 0.013	< 0.014	< 0.014	< 0.013	< 0.012
Chrysene	62	9	0.0627 J	< 0.016	0.023 J	< 0.017	< 0.015	< 0.015
Dibenzo(a,h)anthracene	0.2	0.66	0.0309 J	< 0.01	< 0.011	< 0.011	< 0.0098	< 0.0093
Dibenzofuran	NS	NS	< 0.0082	< 0.0077	0.0137 J	< 0.0082	< 0.0075	< 0.0071
Diethyl phthalate	49000	10000	< 0.015	< 0.014	< 0.015	< 0.015	< 0.013	< 0.013

Footnote on last page

R2-0005229

Table 3. Comparison of Soil Analytical Results to the RDC Soil Cleanup Criteria and the 2008 Residentail Direct Contact Soil Remediation Standards, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location			CMI-S6					
Sample Name	NJ Residential	NJ Residential	CMI-S6(5.5-6.0)	CMI-S6(20.5-21)	CMI-S6(36.5-37)	CMI-S6(41.5-42)	CMI-S6(49.5-50)	CMI-S6(61.5-62)
Sample Date	Direct Contact Soil	Soil Criteria	12/10/2007	12/10/2007	12/10/2007	12/10/2007	12/11/2007	12/11/2007
Validation Status	(NJAC 7: 26D 6/08)	(NJAC 7:26D	Final	Final	Final	Final	Final	Final
SVOCs continued								
Dimethyl phthalate	NS	10000	< 0.011	< 0.011	< 0.011	< 0.011	< 0.01	< 0.0098
di-n-butyl phthalate	6100	5700	0.0861	< 0.011	< 0.012	< 0.012	< 0.011	< 0.01
di-n-octylphthalate	2400	1100	< 0.017	< 0.016	< 0.017	< 0.017	< 0.016	< 0.015
Fluoranthene	2300	2300	0.065 J	0.0133 J	0.0551 J	< 0.0078	< 0.0071	< 0.0067
Fluorene	2300	2300	< 0.0084	< 0.0079	0.0236 J	< 0.0084	< 0.0077	< 0.0073
Hexachlorobenzene	0.3	0.66	< 0.02	< 0.019	< 0.02	< 0.02	< 0.018	< 0.017
Hexachlorobutadiene	6	1	< 0.019	< 0.018	< 0.019	< 0.019	< 0.018	< 0.017
Hexachlorocyclopentadiene	45	400	< 0.019	< 0.018	< 0.019	< 0.019	< 0.018	< 0.017
Hexachloroethane	35	6	< 0.017	< 0.016	< 0.017	< 0.017	< 0.016	< 0.015
Indeno(1,2,3-cd)pyrene	0.6	0.9	< 0.039	< 0.036	< 0.039	< 0.039	< 0.035	< 0.034
Isophrone	510	1100	< 0.013	< 0.013	< 0.013	< 0.013	< 0.012	< 0.012
Naphthalene	6	230	0.0353 J	0.013 J	0.0148 J	< 0.0094	< 0.0086	< 0.0082
Nitrobenzene	31	28	< 0.014	< 0.013	< 0.014	< 0.014	< 0.013	< 0.012
N-Nitroso-di-n-Propylamine	0.2	0.66	< 0.014	< 0.013	< 0.014	< 0.014	< 0.013	< 0.012
N-Nitrosodiphenylamine	99	140	< 0.0092	< 0.0086	< 0.0091	< 0.0092	< 0.0084	< 0.0079
Pentachlorophenol	3	6	< 0.044	< 0.041	< 0.044	< 0.044	< 0.04	< 0.038
Phenanthrene	NS	NS	0.0461 J	< 0.0097	0.0869	< 0.01	< 0.0095	< 0.009
Phenol	18000	10000	< 0.039	< 0.036	< 0.039	< 0.039	< 0.036	< 0.034
Pyrene	1700	1700	0.0731 J	0.0196 J	0.0571 J	< 0.015	< 0.013	< 0.013
Total TIC, Semi-Volatile	NS	NS	23.72 J	4.23 J	0.91 J	2.76 J	1.3 J	0
Pesticides / Herbicides								
4,4-DDD	3	3	0.0031	< 0.00038	< 0.0004	< 0.0004	< 0.00036	< 0.00034
4,4-DDE	2	2	0.0046	< 0.00039	< 0.00041	< 0.00041	< 0.00037	< 0.00036
4,4-DDT	2	2	< 0.00051	< 0.00048	< 0.0005	< 0.00051	< 0.00046	< 0.00044
Aldrin	0.04	0.04	< 0.00037	< 0.00034	< 0.00036	< 0.00037	< 0.00033	< 0.00032
alpha-BHC	0.1	NS	< 0.00031	< 0.00029	< 0.00031	< 0.00031	< 0.00028	< 0.00027
alpha-Chlordane	0.2	NS	< 0.00045	0.0039	< 0.00044	< 0.00045	< 0.00041	< 0.00039
beta-BHC	0.4	NS	< 0.00036	< 0.00034	< 0.00036	< 0.00036	< 0.00033	< 0.00031
Chlordane	0.2	NS	NA	NA	NA	NA	NA	NA
delta-BHC	NS	NS	< 0.00062	< 0.00058	< 0.00061	< 0.00061	< 0.00055	< 0.00053
Dieldrin	0.04	0.042	< 0.00042	0.004 J	< 0.00042	< 0.00042	< 0.00038	< 0.00036
Endosulfan I (alpha)	470	NS	< 0.00045	< 0.00042	< 0.00044	< 0.00045	< 0.0004	< 0.00038
Endosulfan II (beta)	470	NS	< 0.00044	< 0.00041	< 0.00044	< 0.00044	< 0.0004	< 0.00038
Endosulfan sulfate	470	NS	< 0.00045	< 0.00042	< 0.00045	< 0.00045	< 0.00041	< 0.00039
Endrin	23	17	< 0.00042	< 0.00039	< 0.00041	< 0.00041	< 0.00037	< 0.00036
Endrin Aldehyde	NS	NS	< 0.00039	< 0.00037	< 0.00039	< 0.00039	< 0.00035	< 0.00034
Endrin ketone	NS	NS	< 0.00046	< 0.00043	< 0.00045	< 0.00046	< 0.00041	< 0.00039
gamma-Chlordane	0.2	NS	< 0.00045	0.0029 JN	< 0.00044	< 0.00045	< 0.0004	< 0.00039
Heptachlor	0.1	0.15	< 0.00044	< 0.00041	< 0.00043	< 0.00043	< 0.00039	< 0.00037
Heptachlor epoxide	0.07	NS	< 0.00046	< 0.00043	< 0.00045	< 0.00046	< 0.00041	< 0.0004
Lindane	0.4	0.52	< 0.00034	< 0.00031	< 0.00033	< 0.00033	< 0.0003	< 0.00029
Methoxychlor	390	280	< 0.00056 J	< 0.00052	< 0.00055 J	< 0.00055 J	< 0.0005	< 0.00048 J
Toxaphene	0.6	0.1	< 0.008	< 0.0074	< 0.0078	< 0.0079	< 0.0072	< 0.0068

Footnote on last page

Table 3. Comparison of Soil Analytical Results to the RDC Soil Cleanup Criteria and the 2008 Residentail Direct Contact Soil Remediation Standards, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location			CMI-S6					
Sample Name	NJ Residential	NJ Residential	CMI-S6(5.5-6.0)	CMI-S6(20.5-21)	CMI-S6(36.5-37)	CMI-S6(41.5-42)	CMI-S6(49.5-50)	CMI-S6(61.5-62)
Sample Date	Direct Contact Soil	Soil Criteria	12/10/2007	12/10/2007	12/10/2007	12/10/2007	12/11/2007	12/11/2007
Validation Status	(NJAC 7: 26D 6/08)	(NJAC 7:26D	Final	Final	Final	Final	Final	Final
PCBs								
PCB 1016	0.2	0.49	< 0.0079	< 0.0074	< 0.0078	< 0.0079	< 0.0071	< 0.0068
PCB 1221	0.2	0.49	< 0.025	< 0.023	< 0.025	< 0.025	< 0.023	< 0.022
PCB 1232	0.2	0.49	< 0.023	< 0.021	< 0.022	< 0.023	< 0.02	< 0.019
PCB 1242	0.2	0.49	< 0.013	< 0.012	< 0.013	< 0.013	< 0.012	< 0.011
PCB 1248	0.2	0.49	< 0.014	< 0.014	< 0.014	< 0.014	< 0.013	< 0.012
PCB 1254	0.2	0.49	< 0.02	< 0.019	< 0.019	< 0.02	< 0.018	< 0.017
PCB 1260	0.2	0.49	< 0.0084	< 0.0079	< 0.0083	< 0.0084	< 0.0076	< 0.0072
Total PCBs	0.2	0.49	0	0	0	0	0	0
Metals - Total								
Aluminum	78000	NS	17000 J	9590 J	18200 J	5310 J	9610	10800
Antimony	31	14	< 0.78 R	< 0.76 R	**185 J**	30.5 J	6.5 J	1 BJ
Arsenic	19	20	2.4 J	1.4 BJ	**56.7**	16.8	8	1.9 B
Barium	16000	700	46.7	33	276	1240	204 J	67.4 J
Beryllium	16	2	0.68	0.36 B	0.66	0.38 B	0.36 R	0.12 R
Cadmium	78	39	< 0.072	< 0.07	8	10.1	5.7	1.2
Calcium	NS	NS	1370 J	1500 J	4070 J	17500 J	4800	7070
Chromium	NS	240	23	21.7	59.2	275	32.7	33.5
Cobalt	1600	NS	8.1	9	17.5	18.4	14.9	19
Copper	3100	600	33.4	29	49.8	273	240 J	13.4 J
Iron	NS	NS	24800	19900	35000	147000	60800 J	34100 J
Lead	400	400	6.9	5.4	**9030**	**5660 R**	391	5.6
Magnesium	NS	NS	3240	3080	5540	5560	9130 J	15800 J
Manganese	11000	NS	227 J	482 J	464 J	878 J	485 J	427 J
Mercury	23	14	0.079	< 0.024	< 0.026	< 0.026	< 0.023	< 0.023
Nickel	1600	250	16	14.5	23.5	68.9	44	28.5
Potassium	NS	NS	949 B	1160 B	2700	755 B	2870	4850
Selenium	390	63	< 1.3 J	< 1.3 J	1.8 B	< 3 J	5.3	2.8 J
Silver	390	110	< 0.27 J	< 0.26 J	0.43 B	3.6	1.1	< 0.23
Sodium	NS	NS	222 BJ	< 110	927 B	738 B	1740	1390
Thallium	5	2	< 0.89 J	< 0.87 J	< 0.93 J	< 1 J	< 0.84	0.81 BJ
Vanadium	78	370	57.1	42.6	53.5	38	38.3	**81.4**
Zinc	23000	1500	46.5 J	25.9 J	3880 J	8700 J	1470	85.9
Other								
Solids, Percent	NS	NS	79.8	85.4	80	79.2	87.7	92.1

Footnote on last page

Table 3. Comparison of Soil Analytical Results to the RDC Soil Cleanup Criteria and the 2008 Residentail Direct Contact Soil Remediation Standards, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location			Field Blank	Trip Blanks			
Sample Name	NJ Residential	NJ Residential	FB(071206)	TRIP BLANK-071206	TRIP BLANK-071210	TRIP BLANK-071211	TRIP BLANK-071212
Sample Date	Direct Contact Soil	Soil Criteria	12/6/2007	12/7/2007	12/10/2007	12/11/2007	12/13/2007
Validation Status	(NJAC 7: 26D 6/08)	(NJAC 7:26D	Final	Final	Final	Final	Final
VOC							
1,1,1-Trichloroethane	290	210	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1,2,2-Tetrachloroethane	1	34	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
1,1,2-Trichloroethane	2	22	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49
1,1-Dichloroethane	8	570	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1-Dichloroethene	11	8	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
1,2,4-Trichlorobenzene	73	68	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41
1,2-Dibromo-3-Chloropropane (DBCP)	0.08	NS	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
1,2-Dibromoethane	0.008	NS	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45
1,2-Dichlorobenzene	5300	5100	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-Dichloroethane	0.9	6	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29
1,2-Dichloropropane	2	10	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
1,3-Dichlorobenzene	5300	5100	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
1,4-Dichlorobenzene	5	570	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
2-Butanone (MEK)	3100	1000	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7
2-Hexanone	NS	NS	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94
4-methyl-2-pentanone (MIBK)	NS	1000	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
Acetone	70000	1000	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9
Benzene	2	3	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Bromodichloromethane	1	11	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Bromoform	81	86	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
Bromomethane	25	79	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
Carbon disulfide	7800	NS	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
Carbon tetrachloride	0.6	2	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Chlorobenzene	510	37	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Chloroethane	220	NS	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67
Chloroform	0.6	19	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Chloromethane	4	520	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
cis-1,2-Dichloroethene	230	79	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27
cis-1,3-Dichloropropene	2	4	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
Cyclohexane	NS	NS	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85
Dibromochloromethane	3	110	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
Dichlorodifluoromethane	490	NS	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	7800	1000	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Freon 113	NS	NS	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Isopropylbenzene	NS	NS	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54
Methyl acetate	78000	NS	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6
Methyl tert butyl ether	110	NS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Methylcyclohexane	NS	NS	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Methylene chloride	34	49	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
o-Xylene	NS	NS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Styrene	90	23	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Tetrachloroethene	2	4	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
Toluene	6300	1000	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Trans-1,2-dichloroethene	300	1000	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
trans-1,3-Dichloropropene	2	4	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Trichloroethene	7	23	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
Trichlorofluoromethane	23000	NS	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
Vinyl Chloride	0.7	2	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Xylene, -m,p	NS	NS	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
Xylenes	12000	410	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Total TIC, Volatile	NS	NS	0	0	0	0	0

Table 3. Comparison of Soil Analytical Results to the RDC Soil Cleanup Criteria and the 2008 Residentail Direct Contact Soil Remediation Standards, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location			Field Blank	Trip Blanks			
Sample Name	NJ Residential	NJ Residential	FB(071206)	TRIP BLANK-071206	TRIP BLANK-071210	TRIP BLANK-071211	TRIP BLANK-071212
Sample Date	Direct Contact Soil	Soil Criteria	12/6/2007	12/7/2007	12/10/2007	12/11/2007	12/13/2007
Validation Status	(NJAC 7: 26D 6/08)	(NJAC 7:26D	Final	Final	Final	Final	Final

Footnote on last page

R2-0005233

Table 3. Comparison of Soil Analytical Results to the RDC Soil Cleanup Criteria and the 2008 Residentail Direct Contact Soil Remediation Standards, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location			Field Blank	Trip Blanks			
Sample Name	NJ Residential	NJ Residential	FB(071206)	TRIP BLANK-071206	TRIP BLANK-071210	TRIP BLANK-071211	TRIP BLANK-071212
Sample Date	Direct Contact Soil	Soil Criteria	12/6/2007	12/7/2007	12/10/2007	12/11/2007	12/13/2007
Validation Status	(NJAC 7: 26D 6/08)	(NJAC 7:26D	Final	Final	Final	Final	Final
SVOC							
1,1'-Biphenyl	3100	NS	< 0.25	NA	NA	NA	NA
2,4,5-Trichlorophenol	6100	5600	< 1.3	NA	NA	NA	NA
2,4,6-Trichlorophenol	19	62	< 1.2	NA	NA	NA	NA
2,4-Dichlorophenol	180	170	< 1.6	NA	NA	NA	NA
2,4-Dimethylphenol	1200	1100	< 1.9	NA	NA	NA	NA
2,4-Dinitrophenol	120	110	< 1.3	NA	NA	NA	NA
2,4-Dinitrotoluene	0.7	1	< 0.63	NA	NA	NA	NA
2,6-Dinitrotoluene	0.7	1	< 0.58	NA	NA	NA	NA
2-Chloronaphthalene	NS	NS	< 0.23	NA	NA	NA	NA
2-Chlorophenol	310	280	< 1	NA	NA	NA	NA
2-Methylnaphthalene	230	NS	< 0.88	NA	NA	NA	NA
2-Methylphenol	310	2800	< 1.2	NA	NA	NA	NA
2-Nitroaniline	39	NS	< 0.57	NA	NA	NA	NA
2-Nitrophenol	NS	NS	< 1.7	NA	NA	NA	NA
3&4-Methylphenol	NS	NS	< 1.3	NA	NA	NA	NA
3,3'-Dichlorobenzidine	1	2	< 1.1	NA	NA	NA	NA
3-Nitroaniline	NS	NS	< 0.37	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	6	NS	< 2.6	NA	NA	NA	NA
4-Bromophenyl phenyl ether	NS	NS	< 0.43	NA	NA	NA	NA
4-Chloro-3-Methylphenol	NS	10000	< 1.4	NA	NA	NA	NA
4-Chloroaniline	NS	230	< 0.4	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	NS	NS	< 0.33	NA	NA	NA	NA
4-Nitroaniline	NS	NS	< 0.68	NA	NA	NA	NA
4-Nitrophenol	NS	NS	< 1.8	NA	NA	NA	NA
Acenaphthene	3400	3400	< 0.29	NA	NA	NA	NA
Acenaphthylene	NS	NS	< 0.36	NA	NA	NA	NA
Acetophenone	2	NS	< 0.41	NA	NA	NA	NA
Anthracene	17000	10000	< 0.38	NA	NA	NA	NA
Atrazine	210	NS	< 0.33	NA	NA	NA	NA
Benzaldehyde	6100	NS	< 0.87	NA	NA	NA	NA
Benzo(a)anthracene	0.6	0.9	< 0.4	NA	NA	NA	NA
Benzo(a)pyrene	0.2	0.66	< 0.89	NA	NA	NA	NA
Benzo(b)fluoranthene	0.6	0.9	< 0.86	NA	NA	NA	NA
Benzo(g,h,i)perylene	380000	NS	< 0.42	NA	NA	NA	NA
Benzo(k)fluoranthene	6	0.9	< 0.78	NA	NA	NA	NA
Benzyl butyl phthalate	1200	1100	< 0.73	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	NS	NS	< 0.37	NA	NA	NA	NA
bis(2-Chloroethyl)ether	0.4	0.66	< 0.77	NA	NA	NA	NA
bis(2-Chloroisopropyl)ether	23	2300	< 0.66	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	35	49	< 1	NA	NA	NA	NA
Caprolactam	31000	NS	< 0.57	NA	NA	NA	NA
Carbazole	24	NS	< 0.46	NA	NA	NA	NA
Chrysene	62	9	< 0.51	NA	NA	NA	NA
Dibenzo(a,h)anthracene	0.2	0.66	< 0.56	NA	NA	NA	NA
Dibenzofuran	NS	NS	< 0.26	NA	NA	NA	NA
Diethyl phthalate	49000	10000	< 0.4	NA	NA	NA	NA

Footnote on last page

Table 3. Comparison of Soil Analytical Results to the RDC Soil Cleanup Criteria and the 2008 Residentail Direct Contact Soil Remediation Standards, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location			Field Blank	Trip Blanks			
Sample Name	NJ Residential	NJ Residential	FB(071206)	TRIP BLANK-071206	TRIP BLANK-071210	TRIP BLANK-071211	TRIP BLANK-071212
Sample Date	Direct Contact Soil	Soil Criteria	12/6/2007	12/7/2007	12/10/2007	12/11/2007	12/13/2007
Validation Status	(NJAC 7: 26D 6/08)	(NJAC 7:26D	Final	Final	Final	Final	Final
SVOCs continued							
Dimethyl phthalate	NS	10000	< 0.39	NA	NA	NA	NA
di-n-butyl phthalate	6100	5700	< 0.46	NA	NA	NA	NA
di-n-octylphthalate	2400	1100	< 0.55	NA	NA	NA	NA
Fluoranthene	2300	2300	< 0.41	NA	NA	NA	NA
Fluorene	2300	2300	< 0.41	NA	NA	NA	NA
Hexachlorobenzene	0.3	0.66	< 0.35	NA	NA	NA	NA
Hexachlorobutadiene	6	1	< 0.15	NA	NA	NA	NA
Hexachlorocyclopentadiene	45	400	< 0.12	NA	NA	NA	NA
Hexachloroethane	35	6	< 0.19	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	0.6	0.9	< 0.91	NA	NA	NA	NA
Isophrone	510	1100	< 0.56	NA	NA	NA	NA
Naphthalene	6	230	< 0.21	NA	NA	NA	NA
Nitrobenzene	31	28	< 0.81	NA	NA	NA	NA
N-Nitroso-di-n-Propylamine	0.2	0.66	< 0.44	NA	NA	NA	NA
N-Nitrosodiphenylamine	99	140	< 0.48	NA	NA	NA	NA
Pentachlorophenol	3	6	< 1.1	NA	NA	NA	NA
Phenanthrene	NS	NS	< 0.32	NA	NA	NA	NA
Phenol	18000	10000	< 0.79	NA	NA	NA	NA
Pyrene	1700	1700	< 0.43	NA	NA	NA	NA
Total TIC, Semi-Volatile	NS	NS	30.9 J	NA	NA	NA	NA
Pesticides / Herbicides							
4,4-DDD	3	3	< 0.0027	NA	NA	NA	NA
4,4-DDE	2	2	< 0.0019	NA	NA	NA	NA
4,4-DDT	2	2	< 0.0055	NA	NA	NA	NA
Aldrin	0.04	0.04	< 0.0037	NA	NA	NA	NA
alpha-BHC	0.1	NS	< 0.0029	NA	NA	NA	NA
alpha-Chlordane	0.2	NS	< 0.0048	NA	NA	NA	NA
beta-BHC	0.4	NS	< 0.0069	NA	NA	NA	NA
Chlordane	0.2	NS	NA	NA	NA	NA	NA
delta-BHC	NS	NS	< 0.0034	NA	NA	NA	NA
Dieldrin	0.04	0.042	< 0.0019	NA	NA	NA	NA
Endosulfan I (alpha)	470	NS	< 0.0023	NA	NA	NA	NA
Endosulfan II (beta)	470	NS	< 0.0036	NA	NA	NA	NA
Endosulfan sulfate	470	NS	< 0.0051	NA	NA	NA	NA
Endrin	23	17	< 0.0033	NA	NA	NA	NA
Endrin Aldehyde	NS	NS	< 0.0072	NA	NA	NA	NA
Endrin ketone	NS	NS	< 0.0039	NA	NA	NA	NA
gamma-Chlordane	0.2	NS	< 0.0019	NA	NA	NA	NA
Heptachlor	0.1	0.15	< 0.0028	NA	NA	NA	NA
Heptachlor epoxide	0.07	NS	< 0.0016	NA	NA	NA	NA
Lindane	0.4	0.52	< 0.0019	NA	NA	NA	NA
Methoxychlor	390	280	< 0.0075	NA	NA	NA	NA
Toxaphene	0.6	0.1	< 0.1	NA	NA	NA	NA

Footnote on last page

Table 3. Comparison of Soil Analytical Results to the RDC Soil Cleanup Criteria and the 2008 Residentail Direct Contact Soil Remediation Standards, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location			Field Blank	Trip Blanks			
Sample Name	NJ Residential	NJ Residential	FB(071206)	TRIP BLANK-071206	TRIP BLANK-071210	TRIP BLANK-071211	TRIP BLANK-071212
Sample Date	Direct Contact Soil	Soil Criteria	12/6/2007	12/7/2007	12/10/2007	12/11/2007	12/13/2007
Validation Status	(NJAC 7: 26D 6/08)	(NJAC 7:26D	Final	Final	Final	Final	Final
PCBs							
PCB 1016	0.2	0.49	< 0.1	NA	NA	NA	NA
PCB 1221	0.2	0.49	< 0.52	NA	NA	NA	NA
PCB 1232	0.2	0.49	< 0.43	NA	NA	NA	NA
PCB 1242	0.2	0.49	< 0.18	NA	NA	NA	NA
PCB 1248	0.2	0.49	< 0.17	NA	NA	NA	NA
PCB 1254	0.2	0.49	< 0.12	NA	NA	NA	NA
PCB 1260	0.2	0.49	< 0.13	NA	NA	NA	NA
Total PCBs	0.2	0.49	0	NA	NA	NA	NA
Metals - Total							
Aluminum	78000	NS	< 26	NA	NA	NA	NA
Antimony	31	14	< 5.7	NA	NA	NA	NA
Arsenic	19	20	< 6	NA	NA	NA	NA
Barium	16000	700	< 2.9	NA	NA	NA	NA
Beryllium	16	2	< 0.36	NA	NA	NA	NA
Cadmium	78	39	< 0.5	NA	NA	NA	NA
Calcium	NS	NS	< 30	NA	NA	NA	NA
Chromium	NS	240	< 9	NA	NA	NA	NA
Cobalt	1600	NS	< 0.87	NA	NA	NA	NA
Copper	3100	600	< 2.2	NA	NA	NA	NA
Iron	NS	NS	< 70 J	NA	NA	NA	NA
Lead	400	400	< 3	NA	NA	NA	NA
Magnesium	NS	NS	< 25	NA	NA	NA	NA
Manganese	11000	NS	< 1.5 J	NA	NA	NA	NA
Mercury	23	14	< 0.15	NA	NA	NA	NA
Nickel	1600	250	< 4.2	NA	NA	NA	NA
Potassium	NS	NS	< 120	NA	NA	NA	NA
Selenium	390	63	< 9.3	NA	NA	NA	NA
Silver	390	110	< 2.6	NA	NA	NA	NA
Sodium	NS	NS	< 560	NA	NA	NA	NA
Thallium	5	2	< 6	NA	NA	NA	NA
Vanadium	78	370	< 1.8	NA	NA	NA	NA
Zinc	23000	1500	5.3 B	NA	NA	NA	NA
Other							
Solids, Percent	NS	NS	NA	NA	NA	NA	NA

Footnote on last page

R2-0005236

Table 4 Comparisson of Soil Analytical Results to the IGW Soil Cleanup Criteria and the 2008 Impact to Groundwater Default Soil Screening Levels, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location			CMI-S1				
Sample Name			CMI-S1(3.5-4.0)	CMI-S1(3.5-4.0) Dup	CMI-S1(8.5-9)	CMI-S1(31-31.5)	CMI-S1(21.5-22)
Sample Date	NJ Default Impact to Groundwater Soil Screening (NJAC 7:26D 12/08)	NJ Impact to Groundwater Soil Criteria (NJAC 7:26D 5/99)	12/13/2007	12/13/2007	12/13/2007	12/13/2007	12/13/2007
Validation Status			Final	Final	Final	Final	Final
VOC							
1,1,1-Trichloroethane	0.2	50	< 0.00033	< 0.00035	< 0.00037	< 0.00023	< 0.00034
1,1,2,2-Tetrachloroethane	0.005	1	< 0.00026	< 0.00028	< 0.00029	< 0.00018	< 0.00027
1,1,2-Trichloroethane	0.01	1	< 0.00026	< 0.00028	< 0.00029	< 0.00018	< 0.00027
1,1-Dichloroethane	0.2	10	< 0.0006	< 0.00065	< 0.00067	< 0.00043	< 0.00063
1,1-Dichloroethene	0.005	10	< 0.00041	< 0.00044	< 0.00045	< 0.00029	< 0.00042
1,2,4-Trichlorobenzene	0.4	100	< 0.00031	< 0.00033	< 0.00034	< 0.00022	< 0.00032
1,2-Dibromo-3-Chloropropane (DBCP)	0.005	NS	< 0.00082	< 0.00088	< 0.00091	< 0.00058	< 0.00085
1,2-Dibromoethane	0.005	NS	< 0.00026	< 0.00027	< 0.00028	< 0.00018	< 0.00027
1,2-Dichlorobenzene	11	50	< 0.00024	< 0.00026	< 0.00027	< 0.00017	< 0.00025
1,2-Dichloroethane	0.005	1	< 0.00021	< 0.00022	< 0.00023	< 0.00015	< 0.00022
1,2-Dichloropropane	0.005	NS	< 0.00036	< 0.00039	< 0.0004	< 0.00025	< 0.00038
1,3-Dichlorobenzene	12	100	< 0.00032	< 0.00035	< 0.00036	< 0.00023	< 0.00034
1,4-Dichlorobenzene	1	100	< 0.00026	< 0.00028	< 0.00029	< 0.00018	< 0.00027
2-Butanone (MEK)	0.6	50	< 0.0025	< 0.0027	< 0.0027	< 0.0017	< 0.0026
2-Hexanone	NS	NS	< 0.0015	< 0.0016	< 0.0017	< 0.0011	< 0.0016
4-methyl-2-pentanone (MIBK)	NS	50	< 0.0017	< 0.0019	< 0.0019	< 0.0012	< 0.0018
Acetone	12	100	< 0.0036	< 0.0039	0.0294	0.0215	< 0.0037
Benzene	0.005	1	< 0.00063	< 0.00068	< 0.00071	< 0.00045	< 0.00066
Bromodichloromethane	0.005	1	< 0.00022	< 0.00023	< 0.00024	< 0.00015	< 0.00023
Bromoform	0.02	1	< 0.00071	< 0.00077	< 0.0008	< 0.0005	< 0.00075
Bromomethane	0.03	1	< 0.00042	< 0.00046	< 0.00047	< 0.0003	< 0.00044
Carbon disulfide	4	NS	< 0.00025	0.00097 J	< 0.00028	< 0.00018	< 0.00027
Carbon tetrachloride	0.005	1	< 0.00022	< 0.00023	< 0.00024	< 0.00015	< 0.00023
Chlorobenzene	0.4	1	< 0.00049	< 0.00053	< 0.00054	< 0.00034	< 0.00051
Chloroethane	NS	NS	< 0.00045	< 0.00049	< 0.00051	< 0.00032	< 0.00047
Chloroform	0.2	1	< 0.00035	< 0.00037	< 0.00039	< 0.00024	< 0.00036
Chloromethane	NS	10	< 0.00046	< 0.00049	< 0.00051	< 0.00032	< 0.00048
cis-1,2-Dichloroethene	0.2	1	< 0.00017	< 0.00018	< 0.00019	< 0.00012	< 0.00018
cis-1,3-Dichloropropene	0.005	1	< 0.00044	< 0.00047	< 0.00049	< 0.00031	< 0.00046
Cyclohexane	NS	NS	< 0.00034	< 0.00037	< 0.00038	< 0.00024	< 0.00036
Dibromochloromethane	0.005	1	< 0.00018	< 0.0002	< 0.0002	< 0.00013	< 0.00019
Dichlorodifluoromethane	25	NS	< 0.00036	< 0.00038	< 0.0004	< 0.00025	< 0.00037
Ethylbenzene	8	100	< 0.00042	< 0.00046	< 0.00047	< 0.0003	0.00055 J
Freon 113	NS	NS	< 0.00032	< 0.00035	< 0.00036	< 0.00023	< 0.00034
Isopropylbenzene	NS	NS	< 0.00026	< 0.00028	< 0.00029	< 0.00018	< 0.00027
Methyl acetate	14	NS	< 0.0027	< 0.0029	< 0.003	< 0.0019	< 0.0028
Methyl tert butyl ether	0.2	NS	< 0.00055	< 0.00059	< 0.00061	< 0.00039	< 0.00058
Methylcyclohexane	NS	NS	< 0.00044	< 0.00047	< 0.00049	< 0.00031	< 0.00046
Methylene chloride	0.007	1	< 0.00041	< 0.00044	< 0.00046	< 0.00029	< 0.00043
o-Xylene	NS	NS	< 0.00023	< 0.00024	< 0.00025	< 0.00016	< 0.00024
Styrene	2	100	< 0.0002	< 0.00021	< 0.00022	< 0.00014	< 0.00021
Tetrachloroethene	0.005	1	< 0.00029	< 0.00031	< 0.00032	< 0.00021	< 0.0003
Toluene	4	500	< 0.00037	< 0.0004	< 0.00041	< 0.00026	< 0.00038
Trans-1,2-dichloroethene	0.4	50	< 0.00048	< 0.00052	< 0.00054	< 0.00034	< 0.00051
trans-1,3-Dichloropropene	0.005	1	< 0.0007	< 0.00076	< 0.00078	< 0.0005	< 0.00074
Trichloroethene	0.007	1	< 0.00028	< 0.00031	< 0.00032	< 0.0002	< 0.0003
Trichlorofluoromethane	22	NS	< 0.00041	< 0.00044	< 0.00046	< 0.00029	< 0.00043
Vinyl Chloride	0.005	10	< 0.00049	< 0.00052	< 0.00054	< 0.00034	< 0.00051
Xylene, -m,p	NS	NS	< 0.00043	< 0.00046	< 0.00048	< 0.0003	< 0.00045
Xylenes	12	67	< 0.00023	< 0.00024	< 0.00025	< 0.00016	< 0.00024
Total TIC, Volatile	NS	NS	0	0	0.0075 J	0.011 J	0

Footnote on last page

Table 4 Comparisson of Soil Analytical Results to the IGW Soil Cleanup Criteria and the 2008 Impact to Groundwater Default Soil Screening Levels, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location			CMI-S1				
Sample Name			CMI-S1(3.5-4.0)	CMI-S1(3.5-4.0) Dup	CMI-S1(8.5-9)	CMI-S1(31-31.5)	CMI-S1(21.5-22)
Sample Date	NJ Default Impact to Groundwater Soil Screening (NJAC 7:26D 12/08)	NJ Impact to Groundwater Soil Criteria (NJAC 7:26D 5/99)	12/13/2007	12/13/2007	12/13/2007	12/13/2007	12/13/2007
Validation Status			Final	Final	Final	Final	Final
SVOC							
1,1'-Biphenyl	90	NS	< 0.011	< 0.01	< 0.011	< 0.0097	< 0.0093
2,4,5-Trichlorophenol	44	50	< 0.073	< 0.073	< 0.075	< 0.068	< 0.065
2,4,6-Trichlorophenol	0.2	10	< 0.078	< 0.077	< 0.08	< 0.072	< 0.069
2,4-Dichlorophenol	0.2	10	< 0.04	< 0.04	< 0.041	< 0.037	< 0.036
2,4-Dimethylphenol	0.7	10	< 0.047	< 0.047	< 0.048	< 0.044	< 0.042
2,4-Dinitrophenol	0.3	10	< 0.043	< 0.042	< 0.044	< 0.039	< 0.038
2,4-Dinitrotoluene	NS	10	< 0.013	< 0.012	< 0.013	< 0.012	< 0.011
2,6-Dinitrotoluene	NS	10	< 0.015	< 0.015	< 0.016	< 0.014	< 0.014
2-Chloronaphthalene	NS	NS	< 0.012	< 0.012	< 0.012	< 0.011	< 0.01
2-Chlorophenol	0.5	10	< 0.025	< 0.024	< 0.025	< 0.023	< 0.022
2-Methylnaphthalene	5	NS	< 0.035	< 0.034	0.0374 J	< 0.032	< 0.031
2-Methylphenol	NS	NS	< 0.037	< 0.037	< 0.038	< 0.035	< 0.033
2-Nitroaniline	NS	NS	< 0.025	< 0.024	< 0.025	< 0.023	< 0.022
2-Nitrophenol	NS	NS	< 0.045	< 0.044	< 0.046	< 0.041	< 0.04
3&4-Methylphenol	NS	NS	< 0.048	< 0.047	< 0.049	< 0.044	< 0.043
3,3'-Dichlorobenzidine	0.2	100	< 0.028	< 0.028	< 0.029	< 0.026	< 0.025
3-Nitroaniline	NS	NS	< 0.026	< 0.026	< 0.026	< 0.024	< 0.023
4,6-Dinitro-2-methylphenol	0.3	NS	< 0.071	< 0.07	< 0.073	< 0.065	< 0.063
4-Bromophenyl phenyl ether	NS	NS	< 0.017	< 0.017	< 0.017	< 0.016	< 0.015
4-Chloro-3-Methylphenol	NS	100	< 0.053	< 0.052	< 0.054	< 0.049	< 0.047
4-Chloroaniline	NS	NS	< 0.014	< 0.014	< 0.014	< 0.013	< 0.012
4-Chlorophenyl phenyl ether	NS	NS	< 0.011	< 0.011	< 0.011	< 0.01	< 0.0098
4-Nitroaniline	NS	NS	< 0.022	< 0.022	< 0.023	< 0.02	< 0.02
4-Nitrophenol	NS	NS	< 0.068	< 0.067	< 0.07	< 0.063	< 0.06
Acenaphthene	74	100	< 0.012	< 0.012	< 0.013	< 0.011	< 0.011
Acenaphthylene	NS	NS	< 0.0078	< 0.0078	< 0.0081	< 0.0072	< 0.007
Acetophenone	2	NS	< 0.012	< 0.012	< 0.012	< 0.011	< 0.01
Anthracene	1500	100	< 0.036	< 0.035	< 0.037	< 0.033	< 0.032
Atrazine	0.2	NS	< 0.022	< 0.022	< 0.023	< 0.02	< 0.02
Benzaldehyde	NS	NS	< 0.0073 R	< 0.0072 R	< 0.0075 R	< 0.0067 R	< 0.0065 R
Benzo(a)anthracene	0.5	500	< 0.008	< 0.0079	0.0322 J	0.0185 J	< 0.0071
Benzo(a)pyrene	0.2	100	< 0.019	< 0.019	< 0.019	< 0.018	< 0.017
Benzo(b)fluoranthene	2	50	< 0.013	< 0.013	0.0477 J	0.0155 J	< 0.011
Benzo(g,h,i)perylene	NS	NS	< 0.015	< 0.015	0.0458 J	0.0145 J	< 0.014
Benzo(k)fluoranthene	16	500	< 0.017	< 0.017	< 0.017	< 0.015	< 0.015
Benzyl butyl phthalate	150	100	< 0.014	< 0.014	< 0.014	< 0.013	< 0.012
bis(2-Chloroethoxy)methane	NS	NS	< 0.015	< 0.015	< 0.015	< 0.014	< 0.013
bis(2-Chloroethyl)ether	0.2	10	< 0.018	< 0.018	< 0.018	< 0.016	< 0.016
bis(2-Chloroisopropyl)ether	3	10	< 0.023	< 0.022	< 0.023	< 0.021	< 0.02
bis(2-Ethylhexyl)phthalate	790	100	2.99 J	4.77 J	1.6	< 0.021	< 0.021
Caprolactam	8	NS	< 0.021	< 0.02	< 0.021	< 0.019	< 0.018
Carbazole	NS	NS	< 0.013	< 0.013	< 0.013	< 0.012	< 0.012
Chrysene	52	500	< 0.016	< 0.015	0.0736 J	0.0204 J	< 0.014
Dibenzo(a,h)anthracene	0.5	100	< 0.0099	< 0.0098	< 0.01	< 0.0092	< 0.0088
Dibenzofuran	NS	NS	< 0.0076	< 0.0075	< 0.0078	< 0.007	< 0.0068
Diethyl phthalate	57	50	< 0.014	< 0.013	< 0.014	< 0.012	< 0.012

Footnote on last page

Table 4 Comparisson of Soil Analytical Results to the IGW Soil Cleanup Criteria and the 2008 Impact to Groundwater Default Soil Screening Levels, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location			CMI-S1				
Sample Name			CMI-S1(3.5-4.0)	CMI-S1(3.5-4.0) Dup	CMI-S1(8.5-9)	CMI-S1(31-31.5)	CMI-S1(21.5-22)
Sample Date	NJ Default Impact to Groundwater Soil Screening (NJAC 7:26D 12/08)	NJ Impact to Groundwater Soil Criteria (NJAC 7:26D 5/99)	12/13/2007	12/13/2007	12/13/2007	12/13/2007	12/13/2007
Validation Status			Final	Final	Final	Final	Final
SVOCs continued							
Dimethyl phthalate	NS	50	< 0.01	< 0.01	< 0.011	< 0.0097	< 0.0093
di-n-butyl phthalate	620	100	< 0.011	< 0.011	< 0.011	< 0.0099	< 0.0095
di-n-octylphthalate	3300	100	< 0.016	< 0.016	< 0.016	< 0.015	< 0.014
Fluoranthene	840	100	< 0.0072	< 0.0071	0.0984	0.0197 J	< 0.0064
Fluorene	110	100	< 0.0078	< 0.0077	< 0.008	< 0.0072	< 0.0069
Hexachlorobenzene	0.2	100	< 0.019	< 0.019	< 0.019	< 0.017	< 0.017
Hexachlorobutadiene	0.6	100	< 0.018	< 0.018	< 0.018	< 0.017	< 0.016
Hexachlorocyclopentadiene	210	100	< 0.018	< 0.018	< 0.018	< 0.017	< 0.016
Hexachloroethane	0.2	100	< 0.016	< 0.016	< 0.017	< 0.015	< 0.014
Indeno(1,2,3-cd)pyrene	5	500	< 0.036	< 0.036	< 0.037	< 0.033	< 0.032
Isophrone	0.2	50	< 0.012	< 0.012	< 0.013	< 0.011	< 0.011
Naphthalene	16	100	< 0.0087	< 0.0086	< 0.009	< 0.0081	< 0.0077
Nitrobenzene	0.2	50	< 0.013	< 0.013	< 0.013	< 0.012	< 0.012
N-Nitroso-di-n-Propylamine	0.2	10	< 0.013	< 0.013	< 0.014	< 0.012	< 0.012
N-Nitrosodiphenylamine	0.2	1000	< 0.0085	< 0.0084	< 0.0087	< 0.0079	< 0.0075
Pentachlorophenol	0.3	100	< 0.041	< 0.04	< 0.042	< 0.037	< 0.036
Phenanthrene	NS	NS	< 0.0097	< 0.0096	0.0851	< 0.0089	< 0.0086
Phenol	5	50	< 0.036	< 0.036	< 0.037	< 0.033	< 0.032
Pyrene	550	100	< 0.013	< 0.013	0.114	0.0228 J	< 0.012
Total TIC, Semi-Volatile	NS	NS	0.71 J	1.57 J	11.92 J	0.14 J	0
Pesticides / Herbicides							
4,4-DDD	3	50	0.0047 J	0.003	< 0.00038	0.0027	< 0.00033
4,4-DDE	12	50	0.0062	0.0031 J	0.0029 J	0.0023	< 0.00034
4,4-DDT	7	500	< 0.00047	< 0.00046	< 0.00049	0.0036 J	< 0.00042
Aldrin	0.1	50	< 0.00034	< 0.00033	< 0.00035	< 0.00031	< 0.0003
alpha-BHC	0.002	NS	< 0.00028	< 0.00028	< 0.00029	< 0.00026	< 0.00025
alpha-Chlordane	0.03	NS	NA	NA	NA	NA	NA
beta-BHC	0.002	NS	< 0.00033	< 0.00033	< 0.00035	< 0.00031	< 0.0003
Chlordane	0.03	NS	< 0.0099	< 0.0098	< 0.01	< 0.0093	< 0.0089
delta-BHC	NS	NS	< 0.00056	< 0.00056	< 0.00059	< 0.00053	< 0.00051
Dieldrin	0.003	50	< 0.00039	< 0.00038	0.0023	< 0.00036	< 0.00035
Endosulfan I (alpha)	2	NS	< 0.00041	< 0.00041	< 0.00043	< 0.00038	< 0.00037
Endosulfan II (beta)	2	NS	< 0.0004	< 0.0004	< 0.00042	< 0.00038	< 0.00036
Endosulfan sulfate	1	NS	< 0.00041	< 0.00041	< 0.00043	< 0.00039	< 0.00037
Endrin	0.6	50	< 0.00038	< 0.00038	< 0.0004	< 0.00036	< 0.00034
Endrin Aldehyde	NS	NS	< 0.00036	< 0.00036	< 0.00037	< 0.00034	< 0.00032
Endrin ketone	NS	NS	NA	NA	NA	NA	NA
gamma-Chlordane	0.03	NS	NA	NA	NA	NA	NA
Heptachlor	0.3	50	< 0.0004	< 0.00039	< 0.00041	< 0.00037	< 0.00036
Heptachlor epoxide	0.009	NS	< 0.00042	< 0.00042	< 0.00044	< 0.00039	< 0.00038
Lindane	0.002	50	< 0.00031	< 0.00031	< 0.00032	< 0.00029	< 0.00028
Methoxychlor	100	50	< 0.00051	< 0.0005	< 0.00053	< 0.00047	< 0.00046
Toxaphene	0.2	50	< 0.0073	< 0.0072	< 0.0076	< 0.0068	< 0.0065

Footnote on last page

Table 4 Comparisson of Soil Analytical Results to the IGW Soil Cleanup Criteria and the 2008 Impact to Groundwater Default Soil Screening Levels, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location			CMI-S1				
Sample Name			CMI-S1(3.5-4.0)	CMI-S1(3.5-4.0) Dup	CMI-S1(8.5-9)	CMI-S1(31-31.5)	CMI-S1(21.5-22)
Sample Date	NJ Default Impact to Groundwater Soil Screening (NJAC 7:26D 12/08)	NJ Impact to Groundwater Soil Criteria (NJAC 7:26D 5/99)	12/13/2007	12/13/2007	12/13/2007	12/13/2007	12/13/2007
Validation Status			Final	Final	Final	Final	Final
PCBs							
PCB 1016	0.2	50	< 0.0073	< 0.0072	< 0.0075	< 0.0068	< 0.0065
PCB 1221	0.2	50	< 0.023	< 0.023	< 0.024	< 0.021	< 0.021
PCB 1232	0.2	50	< 0.021	< 0.021	< 0.022	< 0.019	< 0.019
PCB 1242	0.2	50	< 0.012	< 0.012	< 0.013	< 0.011	< 0.011
PCB 1248	0.2	50	0.0651	0.0589	< 0.014	< 0.012	< 0.012
PCB 1254	0.2	50	< 0.018	< 0.018	< 0.019	< 0.017	< 0.016
PCB 1260	0.2	50	0.133 J	0.0832 J	0.121	< 0.0072	< 0.0069
Total PCBs	0.2	50	0.1981	0.1421	0.121	0	0
Metals - Total							
Aluminum	3900	NS	**14300**	**12700**	**14600 J**	**18800**	**13700**
Antimony	6	NS	1.9 BJ	2.4 J	**22.1 J**	< 0.59 J	1.6 BJ
Arsenic	19	NS	3 J	4.2 J	13.5	12.8	< 0.7
Barium	1300	NS	52.6	62.2	**4080 J**	54.4 B	76.8
Beryllium	0.5	NS	0.27 B	0.33 B	0.48 B	0.5 B	0.16 B
Cadmium	1	NS	0.99 J	**1.6 J**	**56.7 J**	0.53 B	0.3 B
Calcium	NS	NS	8880 J	2470 J	7190 J	11200	11800
Chromium	NS	NS	20.3	17.1	45.8 J	29.5	50.3
Cobalt	59	NS	8.5	8.8	13.3 J	24.7 B	29.3
Copper	7300	NS	43.3 J	29.4 J	80.3 J	8.1 B	6.3
Iron	NS	NS	20800	24600	42300 J	32500	23900
Lead	59	NS	51.1 J	**79 J**	**1360 J**	6.6 B	2
Magnesium	NS	NS	4650 J	3770 J	4110 J	21800 J	19700 J
Manganese	42	NS	**278 J**	**392 J**	**458 J**	**466**	**619**
Mercury	0.1	NS	0.05	0.05	**0.12 J**	0.033	< 0.02
Nickel	31	NS	24.9 J	17.2 J	**35.8 J**	**56.1**	**43.6**
Potassium	NS	NS	953 BJ	1010 BJ	1400 J	8450 J	6180 J
Selenium	7	NS	< 1.3	< 1.3	< 1.3	< 0.84	< 1.1
Silver	1	NS	< 0.25	< 0.25	< 0.26	< 0.39	< 0.22
Sodium	NS	NS	1050 BJ	719 BJ	1310	< 7.2	1240
Thallium	3	NS	< 0.85	< 0.85	1 B	< 0.85	< 0.74
Vanadium	NS	NS	80.2 J	40.6 J	62.9 J	87.5	69.2
Zinc	600	NS	159 J	108 J	**2860 J**	25.8	48.7
Other	NS	NS					
Solids, Percent	NS	NS	86.2	86.3	83.5	93.4	96.6

Footnote on last page

Table 4 Comparisson of Soil Analytical Results to the IGW Soil Cleanup Criteria and the 2008 Impact to Groundwater Default Soil Screening Levels, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location			CMI-S2			
Sample Name			CMI-S2(2.5-3.0)	CMI-S2(14.5-15)	CMI-S2(17.5-18)	CMI-S2(17.5-18) Dup
Sample Date	NJ Default Impact to Groundwater Soil Screening (NJAC 7:26D 12/08)	NJ Impact to Groundwater Soil Criteria (NJAC 7:26D 5/99)	12/12/2007	12/12/2007	12/12/2007	12/12/2007
Validation Status			Final	Final	Final	Final
VOC						
1,1,1-Trichloroethane	0.2	50	< 0.00038	< 0.00088	< 0.00037	< 0.00029
1,1,2,2-Tetrachloroethane	0.005	1	< 0.00029	< 0.00069 J	< 0.00029	< 0.00023
1,1,2-Trichloroethane	0.01	1	< 0.00029	< 0.00069	< 0.00029	< 0.00023
1,1-Dichloroethane	0.2	10	< 0.00069	< 0.0016	< 0.00068	< 0.00054
1,1-Dichloroethene	0.005	10	< 0.00047	< 0.0011	< 0.00046	< 0.00036
1,2,4-Trichlorobenzene	0.4	100	< 0.00035	< 0.00083 J	< 0.00035	< 0.00027
1,2-Dibromo-3-Chloropropane (DBCP)	0.005	NS	< 0.00094	< 0.0022 J	< 0.00092	< 0.00073
1,2-Dibromoethane	0.005	NS	< 0.00029	< 0.00068	< 0.00029	< 0.00023
1,2-Dichlorobenzene	11	50	< 0.00028	< 0.00065 J	< 0.00027	< 0.00022
1,2-Dichloroethane	0.005	1	< 0.00024	< 0.00055	< 0.00023	< 0.00018
1,2-Dichloropropane	0.005	NS	< 0.00041	< 0.00097	< 0.0004	< 0.00032
1,3-Dichlorobenzene	12	100	0.0014 J	< 0.00086 J	< 0.00036	< 0.00029
1,4-Dichlorobenzene	1	100	< 0.0003	< 0.0007 J	< 0.00029	< 0.00023
2-Butanone (MEK)	0.6	50	< 0.0028	< 0.0066	< 0.0028	< 0.0022
2-Hexanone	NS	NS	< 0.0017	< 0.0041	< 0.0017	< 0.0013
4-methyl-2-pentanone (MIBK)	NS	50	< 0.002	< 0.0046	< 0.0019	< 0.0015
Acetone	12	100	0.0184	< 0.0096	< 0.004	< 0.0032
Benzene	0.005	1	< 0.00073	< 0.0017	< 0.00071	< 0.00056
Bromodichloromethane	0.005	1	< 0.00025	< 0.00058	< 0.00024	< 0.00019
Bromoform	0.02	1	< 0.00082	< 0.0019	< 0.0008	< 0.00064
Bromomethane	0.03	1	< 0.00049	< 0.0011	< 0.00048	< 0.00038
Carbon disulfide	4	NS	< 0.00029	< 0.00068	< 0.00029	< 0.00023
Carbon tetrachloride	0.005	1	< 0.00025	< 0.00058	< 0.00024	< 0.00019
Chlorobenzene	0.4	1	< 0.00056	0.0047 J	< 0.00055	< 0.00043
Chloroethane	NS	NS	< 0.00052	< 0.0012	< 0.00051	< 0.0004
Chloroform	0.2	1	< 0.0004	< 0.00093	0.00064 J	0.00035 J
Chloromethane	NS	10	< 0.00053	< 0.0012	< 0.00052	< 0.00041
cis-1,2-Dichloroethene	0.2	1	< 0.00019	< 0.00045	0.00061 J	0.00054 J
cis-1,3-Dichloropropene	0.005	1	< 0.0005	< 0.0012	< 0.00049	< 0.00039
Cyclohexane	NS	NS	< 0.0004	< 0.00092	< 0.00039	< 0.00031
Dibromochloromethane	0.005	1	< 0.00021	< 0.00049	< 0.00021	< 0.00016
Dichlorodifluoromethane	25	NS	< 0.00041	< 0.00095	< 0.0004	< 0.00032
Ethylbenzene	8	100	< 0.00049	< 0.0011	< 0.00047	< 0.00038
Freon 113	NS	NS	< 0.00037	< 0.00087	< 0.00037	< 0.00029
Isopropylbenzene	NS	NS	< 0.0003	0.0024 J	< 0.00029	< 0.00023
Methyl acetate	14	NS	< 0.0031	< 0.0073	< 0.0031	< 0.0024
Methyl tert butyl ether	0.2	NS	< 0.00063	< 0.0015	< 0.00062	< 0.00049
Methylcyclohexane	NS	NS	< 0.00051	< 0.0012	< 0.00049	< 0.00039
Methylene chloride	0.007	1	< 0.00047	< 0.0011	< 0.00046	< 0.00037
o-Xylene	NS	NS	< 0.00026	< 0.00061	< 0.00025	< 0.0002
Styrene	2	100	< 0.00023	< 0.00053	< 0.00022	< 0.00018
Tetrachloroethene	0.005	1	< 0.00033	0.0018 J	< 0.00033	< 0.00026
Toluene	4	500	< 0.00042	< 0.00098	< 0.00041	< 0.00033
Trans-1,2-dichloroethene	0.4	50	< 0.00056	< 0.0013	< 0.00054	< 0.00043
trans-1,3-Dichloropropene	0.005	1	< 0.00081	< 0.0019	< 0.00079	< 0.00063
Trichloroethene	0.007	1	< 0.00033	< 0.00076	< 0.00032	< 0.00025
Trichlorofluoromethane	22	NS	< 0.00047	< 0.0011	< 0.00046	< 0.00036
Vinyl Chloride	0.005	10	< 0.00056	< 0.0013	< 0.00055	< 0.00043
Xylene, -m,p	NS	NS	< 0.00049	< 0.0011	< 0.00048	< 0.00038
Xylenes	12	67	< 0.00026	< 0.00061	< 0.00025	< 0.0002
Total TIC, Volatile	NS	NS	0	0.452 J	0	0

Footnote on last page

Table 4 Comparisson of Soil Analytical Results to the IGW Soil Cleanup Criteria and the 2008 Impact to Groundwater Default Soil Screening Levels, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location			CMI-S2			
Sample Name			CMI-S2(2.5-3.0)	CMI-S2(14.5-15)	CMI-S2(17.5-18)	CMI-S2(17.5-18) Dup
Sample Date	NJ Default Impact to Groundwater Soil Screening (NJAC 7:26D 12/08)	NJ Impact to Groundwater Soil Criteria (NJAC 7:26D 5/99)	12/12/2007	12/12/2007	12/12/2007	12/12/2007
Validation Status			Final	Final	Final	Final
SVOC						
1,1'-Biphenyl	90	NS	< 0.01	0.236 J	< 0.01	< 0.01
2,4,5-Trichlorophenol	44	50	< 0.073	< 0.67	< 0.07	< 0.07
2,4,6-Trichlorophenol	0.2	10	< 0.078	< 0.71	< 0.074	< 0.075
2,4-Dichlorophenol	0.2	10	< 0.04	< 0.37	< 0.038	< 0.038
2,4-Dimethylphenol	0.7	10	< 0.047	< 0.43	< 0.045	< 0.045
2,4-Dinitrophenol	0.3	10	< 0.042	< 0.39	< 0.041	< 0.041
2,4-Dinitrotoluene	NS	10	< 0.012	< 0.11	< 0.012	< 0.012
2,6-Dinitrotoluene	NS	10	< 0.015	< 0.14	< 0.015	< 0.015
2-Chloronaphthalene	NS	NS	< 0.012	< 0.11	< 0.011	< 0.011
2-Chlorophenol	0.5	10	< 0.025	< 0.22	< 0.023	< 0.024
2-Methylnaphthalene	5	NS	< 0.035	< 0.32	< 0.033	< 0.033
2-Methylphenol	NS	NS	< 0.037	< 0.34	< 0.036	< 0.036
2-Nitroaniline	NS	NS	< 0.024	< 0.22	< 0.023	< 0.023
2-Nitrophenol	NS	NS	< 0.045	< 0.41	< 0.043	< 0.043
3&4-Methylphenol	NS	NS	< 0.048	< 0.44	< 0.046	< 0.046
3,3'-Dichlorobenzidine	0.2	100	< 0.028	< 0.26	< 0.027	< 0.027
3-Nitroaniline	NS	NS	< 0.026	< 0.24	< 0.025	< 0.025
4,6-Dinitro-2-methylphenol	0.3	NS	< 0.071	< 0.64	< 0.067	< 0.068
4-Bromophenyl phenyl ether	NS	NS	< 0.017	< 0.15	< 0.016	< 0.016
4-Chloro-3-Methylphenol	NS	100	< 0.052	< 0.48	< 0.05	< 0.05
4-Chloroaniline	NS	NS	< 0.014	< 0.13	< 0.013	< 0.013
4-Chlorophenyl phenyl ether	NS	NS	< 0.011	< 0.1	< 0.011	< 0.011
4-Nitroaniline	NS	NS	< 0.022	< 0.2	< 0.021	< 0.021
4-Nitrophenol	NS	NS	< 0.068	< 0.62	< 0.065	< 0.065
Acenaphthene	74	100	< 0.012	< 0.11	< 0.012	< 0.012
Acenaphthylene	NS	NS	< 0.0078	< 0.071	< 0.0075	< 0.0075
Acetophenone	2	NS	< 0.012	< 0.11	< 0.011	< 0.011
Anthracene	1500	100	< 0.036	0.407 J	< 0.034	< 0.034
Atrazine	0.2	NS	< 0.022	< 0.2	< 0.021	< 0.021
Benzaldehyde	NS	NS	< 0.0073 R	< 0.067 R	< 0.007 R	< 0.007 R
Benzo(a)anthracene	0.5	500	< 0.008	**1.16**	< 0.0076	< 0.0076
Benzo(a)pyrene	0.2	100	< 0.019	**0.631 J**	< 0.018	< 0.018
Benzo(b)fluoranthene	2	50	< 0.013	1.2	< 0.012	< 0.012
Benzo(g,h,i)perylene	NS	NS	< 0.015	< 0.14	< 0.015	< 0.015
Benzo(k)fluoranthene	16	500	< 0.017	0.162 J	< 0.016	< 0.016
Benzyl butyl phthalate	150	100	< 0.014	< 0.13	< 0.013	< 0.013
bis(2-Chloroethoxy)methane	NS	NS	< 0.015	< 0.14	< 0.014	< 0.014
bis(2-Chloroethyl)ether	0.2	10	< 0.018	< 0.16	< 0.017	< 0.017
bis(2-Chloroisopropyl)ether	3	10	< 0.023	< 0.21	< 0.022	< 0.022
bis(2-Ethylhexyl)phthalate	790	100	0.841	177 J	0.0418 J	0.0737 J
Caprolactam	8	NS	< 0.021	< 0.19	< 0.02	< 0.02
Carbazole	NS	NS	< 0.013	< 0.12	< 0.012	< 0.012
Chrysene	52	500	< 0.016	3.54	< 0.015	< 0.015
Dibenzo(a,h)anthracene	0.5	100	< 0.0099	< 0.091	< 0.0095	< 0.0095
Dibenzofuran	NS	NS	< 0.0076	0.415 J	< 0.0073	< 0.0073
Diethyl phthalate	57	50	< 0.014	< 0.12	< 0.013	< 0.013

Footnote on last page

R2-0005242

Table 4 Comparisson of Soil Analytical Results to the IGW Soil Cleanup Criteria and the 2008 Impact to Groundwater Default Soil Screening Levels, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location			CMI-S2			
Sample Name			CMI-S2(2.5-3.0)	CMI-S2(14.5-15)	CMI-S2(17.5-18)	CMI-S2(17.5-18) Dup
Sample Date	NJ Default Impact to Groundwater Soil Screening (NJAC 7:26D 12/08)	NJ Impact to Groundwater Soil Criteria (NJAC 7:26D 5/99)	12/12/2007	12/12/2007	12/12/2007	12/12/2007
Validation Status			Final	Final	Final	Final
SVOCs continued						
Dimethyl phthalate	NS	50	< 0.01	< 0.095	< 0.01	< 0.01
di-n-butyl phthalate	620	100	< 0.011	16	< 0.01	< 0.01
di-n-octylphthalate	3300	100	< 0.016	< 0.14	< 0.015	< 0.015
Fluoranthene	840	100	< 0.0072	1.51	< 0.0069	< 0.0069
Fluorene	110	100	< 0.0078	0.191 J	< 0.0074	< 0.0075
Hexachlorobenzene	0.2	100	< 0.019	< 0.17	< 0.018	< 0.018
Hexachlorobutadiene	0.6	100	< 0.018	< 0.16	< 0.017	< 0.017
Hexachlorocyclopentadiene	210	100	< 0.018	< 0.16	< 0.017	< 0.017
Hexachloroethane	0.2	100	< 0.016	< 0.15	< 0.015	< 0.015
Indeno(1,2,3-cd)pyrene	5	500	< 0.036	< 0.33	< 0.034	< 0.034
Isophrone	0.2	50	< 0.012	< 0.11	< 0.012	< 0.012
Naphthalene	16	100	< 0.0087	0.156 J	< 0.0083	< 0.0084
Nitrobenzene	0.2	50	< 0.013	< 0.12	< 0.012	< 0.012
N-Nitroso-di-n-Propylamine	0.2	10	< 0.013	< 0.12	< 0.013	< 0.013
N-Nitrosodiphenylamine	0.2	1000	< 0.0085	< 0.077	< 0.0081	< 0.0081
Pentachlorophenol	0.3	100	< 0.041	< 0.37	< 0.039	< 0.039
Phenanthrene	NS	NS	< 0.0096	3.09	< 0.0092	< 0.0092
Phenol	5	50	< 0.036	< 0.33	< 0.034	< 0.035
Pyrene	550	100	< 0.013	2.63	< 0.013	< 0.013
Total TIC, Semi-Volatile	NS	NS	0.21 J	416.6 J	2 J	0.21 J
Pesticides / Herbicides						
4,4-DDD	3	50	< 0.00036	< 0.0018	< 0.00035	< 0.00035
4,4-DDE	12	50	< 0.00038	< 0.0018	< 0.00036	< 0.00036
4,4-DDT	7	500	< 0.00046	< 0.0022	< 0.00045	< 0.00044
Aldrin	0.1	50	< 0.00033	< 0.0016	< 0.00032	< 0.00032
alpha-BHC	0.002	NS	< 0.00028	< 0.0014	< 0.00027	< 0.00027
alpha-Chlordane	0.03	NS	< 0.00041	NA	NA	NA
beta-BHC	0.002	NS	< 0.00033	< 0.0016	< 0.00032	< 0.00032
Chlordane	0.03	NS	NA	< 0.048	< 0.0095	< 0.0094
delta-BHC	NS	NS	< 0.00056	< 0.0027	< 0.00054	< 0.00053
Dieldrin	0.003	50	< 0.00038	< 0.0019	< 0.00037	< 0.00037
Endosulfan I (alpha)	2	NS	< 0.00041	< 0.002	< 0.00039	< 0.00039
Endosulfan II (beta)	2	NS	< 0.0004	< 0.0019	< 0.00039	< 0.00038
Endosulfan sulfate	1	NS	< 0.00041	< 0.002	< 0.00039	< 0.00039
Endrin	0.6	50	< 0.00038	< 0.0018	< 0.00036	< 0.00036
Endrin Aldehyde	NS	NS	< 0.00036	< 0.0017	< 0.00034	< 0.00034
Endrin ketone	NS	NS	< 0.00042	NA	NA	NA
gamma-Chlordane	0.03	NS	< 0.00041	NA	NA	NA
Heptachlor	0.3	50	< 0.00039	< 0.0019	< 0.00038	< 0.00038
Heptachlor epoxide	0.009	NS	< 0.00042	< 0.002	< 0.0004	< 0.0004
Lindane	0.002	50	< 0.0003	< 0.0015	< 0.00029	< 0.00029
Methoxychlor	100	50	< 0.0005	< 0.0024	< 0.00048	< 0.00048
Toxaphene	0.2	50	< 0.0072	< 0.035	< 0.0069	< 0.0069

Footnote on last page

Table 4 Comparisson of Soil Analytical Results to the IGW Soil Cleanup Criteria and the 2008 Impact to Groundwater Default Soil Screening Levels, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location			CMI-S2			
Sample Name	NJ Default Impact to Groundwater Soil Screening (NJAC 7:26D 12/08)	NJ Impact to Groundwater Soil Criteria (NJAC 7:26D 5/99)	CMI-S2(2.5-3.0)	CMI-S2(14.5-15)	CMI-S2(17.5-18)	CMI-S2(17.5-18) Dup
Sample Date			12/12/2007	12/12/2007	12/12/2007	12/12/2007
Validation Status			Final	Final	Final	Final
PCBs						
PCB 1016	0.2	50	< 0.0072	< 0.035	< 0.0069	< 0.0069
PCB 1221	0.2	50	< 0.023	< 0.11	< 0.022	< 0.022
PCB 1232	0.2	50	< 0.021	< 0.1	< 0.02	< 0.02
PCB 1242	0.2	50	< 0.012	< 0.058	< 0.012	< 0.012
PCB 1248	0.2	50	0.129	**0.49 J**	< 0.013	< 0.013
PCB 1254	0.2	50	< 0.018	**0.654**	< 0.017	< 0.017
PCB 1260	0.2	50	< 0.0076	< 0.037	< 0.0073	< 0.0073
Total PCBs	0.2	50	0.129	**1.144**	0	0
Metals - Total						
Aluminum	3900	NS	**16900**	3190	**12800**	**14400**
Antimony	6	NS	1.1 BJ	**13.1 J**	< 0.62 J	0.98 BJ
Arsenic	19	NS	2.2	5.6	16.2	14.4
Barium	1300	NS	53.1	205	60.3 BJ	74.6 BJ
Beryllium	0.5	NS	**0.51 B**	0.1 B	0.41 B	0.43 B
Cadmium	1	NS	**2.2**	**15.9**	**7.8**	**7.1**
Calcium	NS	NS	1320	10900	15100	13200
Chromium	NS	NS	23.4	31	18.5	19.5
Cobalt	59	NS	7.9	6.5 B	10.1 B	11.7 B
Copper	7300	NS	30	74.7	136 J	104 J
Iron	NS	NS	18500	68100	62400	61600
Lead	59	NS	14	**951**	**90.3 J**	**173 J**
Magnesium	NS	NS	3030 J	1200 J	5670 J	6100 J
Manganese	42	NS	**137**	**783**	**373**	**351**
Mercury	0.1	NS	0.064	**5.9**	0.042	0.035
Nickel	31	NS	17.6	22.1	30.3	**37**
Potassium	NS	NS	910 BJ	520 BJ	1100 BJ	1450 BJ
Selenium	7	NS	< 1.2	< 2.1	< 0.89	< 0.83
Silver	1	NS	< 0.25	< 0.42	< 0.41	< 0.38
Sodium	NS	NS	< 100	1710 B	< 7.6	< 7.1
Thallium	3	NS	< 0.83	< 0.3	1.2 B	< 0.84
Vanadium	NS	NS	44.4	12.3	90.3	87.3
Zinc	600	NS	127	**1670**	**1530 J**	**2470 J**
Other	NS	NS				
Solids, Percent	NS	NS	86.4	54.6	89.9	90.2

Footnote on last page

Table 4 Comparisson of Soil Analytical Results to the IGW Soil Cleanup Criteria and the 2008 Impact to Groundwater Default Soil Screening Levels, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location			CMI-S3				
Sample Name			CMI-S3(6.0-6.5)	CMI-S3(16-16.5)	CMI-S3(21.5-22)	CMI-S3(31.5-32)	CMI-S3(45.5-46)
Sample Date	NJ Default Impact to Groundwater Soil Screening (NJAC 7:26D 12/08)	NJ Impact to Groundwater Soil Criteria (NJAC 7:26D 5/99)	12/11/2007	12/11/2007	12/11/2007	12/11/2007	12/11/2007
Validation Status			Final	Final	Final	Final	Final
VOC							
1,1,1-Trichloroethane	0.2	50	< 0.00033	< 0.00033	< 0.00034	< 0.00038	< 0.00042
1,1,2,2-Tetrachloroethane	0.005	1	< 0.00026	< 0.00026	< 0.00026	< 0.0003	< 0.00033
1,1,2-Trichloroethane	0.01	1	< 0.00026	< 0.00026	< 0.00026	< 0.0003	< 0.00033
1,1-Dichloroethane	0.2	10	< 0.00061	< 0.00061	< 0.00062	< 0.0007	< 0.00077
1,1-Dichloroethene	0.005	10	< 0.00041	< 0.00041	< 0.00041	< 0.00047	< 0.00052
1,2,4-Trichlorobenzene	0.4	100	< 0.00031	< 0.00031	< 0.00031	< 0.00036	< 0.00039
1,2-Dibromo-3-Chloropropane (DBCP)	0.005	NS	< 0.00082	< 0.00083	< 0.00084	< 0.00095	< 0.001
1,2-Dibromoethane	0.005	NS	< 0.00026	< 0.00026	< 0.00026	< 0.0003	< 0.00033
1,2-Dichlorobenzene	11	50	< 0.00024	0.0026 J	0.00091 J	< 0.00028	< 0.00031
1,2-Dichloroethane	0.005	1	< 0.00021	< 0.00021	< 0.00021	< 0.00024	< 0.00026
1,2-Dichloropropane	0.005	NS	< 0.00036	< 0.00036	< 0.00037	< 0.00042	< 0.00046
1,3-Dichlorobenzene	12	100	< 0.00032	< 0.00032	< 0.00033	< 0.00037	< 0.00041
1,4-Dichlorobenzene	1	100	0.0033 J	< 0.00027	0.0087	< 0.00031	< 0.00034
2-Butanone (MEK)	0.6	50	0.0066 J	0.0075 J	0.0093	< 0.0029	< 0.0032
2-Hexanone	NS	NS	< 0.0015	< 0.0015	< 0.0015	< 0.0018	< 0.0019
4-methyl-2-pentanone (MIBK)	NS	50	< 0.0017	< 0.0018	< 0.0018	< 0.002	< 0.0022
Acetone	12	100	0.0332	0.0371	0.0369	< 0.0042	< 0.0046
Benzene	0.005	1	< 0.00064	0.00075 J	0.0015	< 0.00074	< 0.00081
Bromodichloromethane	0.005	1	< 0.00022	< 0.00022	< 0.00022	< 0.00025	< 0.00028
Bromoform	0.02	1	< 0.00072	< 0.00072	< 0.00073	< 0.00083	< 0.00092
Bromomethane	0.03	1	< 0.00043	< 0.00043	< 0.00043	< 0.00049	< 0.00054
Carbon disulfide	4	NS	< 0.00026	< 0.00026	0.0023 J	< 0.0003	< 0.00033
Carbon tetrachloride	0.005	1	< 0.00022	< 0.00022	< 0.00022	< 0.00025	< 0.00028
Chlorobenzene	0.4	1	0.0176	0.0116	0.0473	< 0.00057	< 0.00062
Chloroethane	NS	NS	< 0.00046	< 0.00046	< 0.00046	< 0.00053	< 0.00058
Chloroform	0.2	1	< 0.00035	< 0.00035	< 0.00035	< 0.0004	< 0.00044
Chloromethane	NS	10	< 0.00046	< 0.00046	< 0.00047	< 0.00053	< 0.00059
cis-1,2-Dichloroethene	0.2	1	< 0.00017	< 0.00017	< 0.00017	< 0.0002	< 0.00022
cis-1,3-Dichloropropene	0.005	1	< 0.00044	< 0.00044	< 0.00045	< 0.00051	< 0.00056
Cyclohexane	NS	NS	< 0.00035	< 0.00035	< 0.00035	< 0.0004	< 0.00044
Dibromochloromethane	0.005	1	< 0.00018	< 0.00019	< 0.00019	< 0.00021	< 0.00023
Dichlorodifluoromethane	25	NS	< 0.00036	< 0.00036	< 0.00036	< 0.00041	< 0.00046
Ethylbenzene	8	100	0.00048 J	0.0013	0.0012	< 0.00049	< 0.00054
Freon 113	NS	NS	< 0.00033	< 0.00033	< 0.00033	< 0.00038	< 0.00042
Isopropylbenzene	NS	NS	0.0031 J	0.0016 J	0.0037 J	< 0.0003	< 0.00033
Methyl acetate	14	NS	< 0.0027	< 0.0028	< 0.0028	< 0.0032	< 0.0035
Methyl tert butyl ether	0.2	NS	< 0.00055	< 0.00056	< 0.00056	< 0.00064	< 0.0007
Methylcyclohexane	NS	NS	< 0.00044	< 0.00045	< 0.00045	< 0.00051	< 0.00056
Methylene chloride	0.007	1	< 0.00041	< 0.00042	< 0.00042	< 0.00048	0.0012 J
o-Xylene	NS	NS	< 0.00023	0.0019	0.00044 J	< 0.00026	< 0.00029
Styrene	2	100	< 0.0002	< 0.0002	< 0.0002	< 0.00023	< 0.00025
Tetrachloroethene	0.005	1	< 0.00029	< 0.00029	< 0.0003	< 0.00034	< 0.00037
Toluene	4	500	< 0.00037	< 0.00037	< 0.00038	< 0.00043	< 0.00047
Trans-1,2-dichloroethene	0.4	50	< 0.00049	< 0.00049	< 0.00049	< 0.00056	< 0.00062
trans-1,3-Dichloropropene	0.005	1	< 0.00071	< 0.00071	< 0.00072	< 0.00082	< 0.0009
Trichloroethene	0.007	1	< 0.00028	< 0.00029	< 0.00029	< 0.00033	< 0.00036
Trichlorofluoromethane	22	NS	< 0.00041	< 0.00041	< 0.00042	< 0.00048	< 0.00052
Vinyl Chloride	0.005	10	< 0.00049	< 0.00049	< 0.0005	< 0.00057	< 0.00062
Xylene, -m,p	NS	NS	0.0055	0.0069	0.0039	< 0.0005	< 0.00055
Xylenes	12	67	0.0055	0.0088	0.0044	< 0.00026	< 0.00029
Total TIC, Volatile	NS	NS	0.015 J	0.1204 J	0.2191 J	0	0

Footnote on last page

R2-0005245

Table 4 Comparisson of Soil Analytical Results to the IGW Soil Cleanup Criteria and the 2008 Impact to Groundwater Default Soil Screening Levels, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location			CMI-S3				
Sample Name			CMI-S3(6.0-6.5)	CMI-S3(16-16.5)	CMI-S3(21.5-22)	CMI-S3(31.5-32)	CMI-S3(45.5-46)
Sample Date	NJ Default Impact to Groundwater Soil Screening (NJAC 7:26D 12/08)	NJ Impact to Groundwater Soil Criteria (NJAC 7:26D 5/99)	12/11/2007	12/11/2007	12/11/2007	12/11/2007	12/11/2007
Validation Status			Final	Final	Final	Final	Final
SVOC							
1,1'-Biphenyl	90	NS	< 0.01	< 0.01	< 0.01	< 0.011	< 0.01
2,4,5-Trichlorophenol	44	50	< 0.07	< 0.071	< 0.072	< 0.074	< 0.073
2,4,6-Trichlorophenol	0.2	10	< 0.075	< 0.076	< 0.076	< 0.079	< 0.078
2,4-Dichlorophenol	0.2	10	< 0.038	< 0.039	< 0.039	< 0.041	< 0.04
2,4-Dimethylphenol	0.7	10	< 0.045	< 0.046	< 0.046	< 0.048	< 0.047
2,4-Dinitrophenol	0.3	10	< 0.041	< 0.041	< 0.042	< 0.043	< 0.042
2,4-Dinitrotoluene	NS	10	< 0.012	< 0.012	< 0.012	< 0.013	< 0.012
2,6-Dinitrotoluene	NS	10	< 0.015	< 0.015	< 0.015	< 0.016	< 0.015
2-Chloronaphthalene	NS	NS	< 0.011	< 0.011	< 0.011	< 0.012	< 0.012
2-Chlorophenol	0.5	10	< 0.024	< 0.024	< 0.024	< 0.025	< 0.025
2-Methylnaphthalene	5	NS	< 0.033	< 0.034	0.0599 J	< 0.035	< 0.034
2-Methylphenol	NS	NS	< 0.036	< 0.036	< 0.037	< 0.038	< 0.037
2-Nitroaniline	NS	NS	< 0.023	< 0.024	< 0.024	< 0.025	< 0.024
2-Nitrophenol	NS	NS	< 0.043	< 0.043	< 0.044	< 0.045	< 0.045
3&4-Methylphenol	NS	NS	< 0.046	< 0.046	< 0.047	< 0.048	< 0.048
3,3'-Dichlorobenzidine	0.2	100	< 0.027	< 0.027	< 0.027	< 0.028	< 0.028
3-Nitroaniline	NS	NS	< 0.025	< 0.025	< 0.025	< 0.026	< 0.026
4,6-Dinitro-2-methylphenol	0.3	NS	< 0.068	< 0.069	< 0.069	< 0.071	< 0.07
4-Bromophenyl phenyl ether	NS	NS	< 0.016	< 0.016	< 0.017	< 0.017	< 0.017
4-Chloro-3-Methylphenol	NS	100	< 0.05	< 0.051	< 0.051	< 0.053	< 0.052
4-Chloroaniline	NS	NS	< 0.013	< 0.014	< 0.014	< 0.014	< 0.014
4-Chlorophenyl phenyl ether	NS	NS	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
4-Nitroaniline	NS	NS	< 0.021	< 0.021	< 0.022	< 0.022	< 0.022
4-Nitrophenol	NS	NS	< 0.065	< 0.066	< 0.067	< 0.069	< 0.068
Acenaphthene	74	100	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Acenaphthylene	NS	NS	< 0.0075	< 0.0076	< 0.0077	< 0.0079	< 0.0078
Acetophenone	2	NS	< 0.011	< 0.011	< 0.011	< 0.012	< 0.012
Anthracene	1500	100	< 0.034	< 0.034	< 0.035	< 0.036	< 0.035
Atrazine	0.2	NS	< 0.021	< 0.021	< 0.022	< 0.022	< 0.022
Benzaldehyde	NS	NS	< 0.007 R	< 0.0071 R	< 0.0071 R	< 0.0074 R	< 0.0073 R
Benzo(a)anthracene	0.5	500	< 0.0076	< 0.0078	< 0.0078	< 0.0081	< 0.008
Benzo(a)pyrene	0.2	100	< 0.018 J	< 0.018	< 0.019	< 0.019	< 0.019
Benzo(b)fluoranthene	2	50	< 0.012 J	< 0.012	< 0.012	< 0.013	< 0.013
Benzo(g,h,i)perylene	NS	NS	< 0.015 J	< 0.015	< 0.015	< 0.016	< 0.015
Benzo(k)fluoranthene	16	500	< 0.016 J	< 0.016	< 0.016	< 0.017	< 0.017
Benzyl butyl phthalate	150	100	< 0.013	< 0.014	< 0.014	< 0.014	< 0.014
bis(2-Chloroethoxy)methane	NS	NS	< 0.014	< 0.015	< 0.015	< 0.015	< 0.015
bis(2-Chloroethyl)ether	0.2	10	< 0.017	< 0.017	< 0.017	< 0.018	< 0.018
bis(2-Chloroisopropyl)ether	3	10	< 0.022	< 0.022	< 0.022	< 0.023	< 0.022
bis(2-Ethylhexyl)phthalate	790	100	0.0566 J	< 0.023	0.151	< 0.023	0.0724 J
Caprolactam	8	NS	< 0.02	< 0.02	< 0.02	< 0.021	< 0.021
Carbazole	NS	NS	< 0.012	< 0.013	< 0.013	< 0.013	< 0.013
Chrysene	52	500	< 0.015	< 0.015	< 0.015	< 0.016	< 0.016
Dibenzo(a,h)anthracene	0.5	100	< 0.0095 J	< 0.0096	< 0.0097	< 0.01	< 0.0099
Dibenzofuran	NS	NS	< 0.0073	< 0.0074	< 0.0074	< 0.0077	< 0.0076
Diethyl phthalate	57	50	< 0.013	< 0.013	< 0.013	< 0.014	< 0.013

Footnote on last page

Table 4 Comparisson of Soil Analytical Results to the IGW Soil Cleanup Criteria and the 2008 Impact to Groundwater Default Soil Screening Levels, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location			CMI-S3				
Sample Name			CMI-S3(6.0-6.5)	CMI-S3(16-16.5)	CMI-S3(21.5-22)	CMI-S3(31.5-32)	CMI-S3(45.5-46)
Sample Date	NJ Default Impact to Groundwater Soil Screening (NJAC 7:26D 12/08)	NJ Impact to Groundwater Soil Criteria (NJAC 7:26D 5/99)	12/11/2007	12/11/2007	12/11/2007	12/11/2007	12/11/2007
Validation Status			Final	Final	Final	Final	Final
SVOCs continued							
Dimethyl phthalate	NS	50	< 0.01	< 0.01	< 0.01	< 0.011	< 0.01
di-n-butyl phthalate	620	100	< 0.01	< 0.01	< 0.011	< 0.011	< 0.011
di-n-octylphthalate	3300	100	< 0.015	< 0.015	< 0.015	< 0.016	< 0.016
Fluoranthene	840	100	< 0.0069	< 0.007	< 0.007	< 0.0072	< 0.0072
Fluorene	110	100	< 0.0075	< 0.0076	< 0.0076	< 0.0079	< 0.0078
Hexachlorobenzene	0.2	100	< 0.018	< 0.018	< 0.018	< 0.019	< 0.019
Hexachlorobutadiene	0.6	100	< 0.017	< 0.017	< 0.018	< 0.018	< 0.018
Hexachlorocyclopentadiene	210	100	< 0.017	< 0.017	< 0.018	< 0.018	< 0.018
Hexachloroethane	0.2	100	< 0.015	< 0.016	< 0.016	< 0.016	< 0.016
Indeno(1,2,3-cd)pyrene	5	500	< 0.034	< 0.035	< 0.035	< 0.036	< 0.036
Isophrone	0.2	50	< 0.012	< 0.012	< 0.012	< 0.013	< 0.012
Naphthalene	16	100	0.0116 J	< 0.0085	0.112	< 0.0088	< 0.0087
Nitrobenzene	0.2	50	< 0.012	< 0.013	< 0.013	< 0.013	< 0.013
N-Nitroso-di-n-Propylamine	0.2	10	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
N-Nitrosodiphenylamine	0.2	1000	< 0.0081	< 0.0082	< 0.0083	< 0.0086	< 0.0085
Pentachlorophenol	0.3	100	< 0.039	< 0.039	< 0.04	< 0.041	< 0.04
Phenanthrene	NS	NS	< 0.0092	< 0.0094	< 0.0094	< 0.0097	< 0.0096
Phenol	5	50	< 0.035	< 0.035	< 0.035	< 0.036	< 0.036
Pyrene	550	100	< 0.013	< 0.013	< 0.013	< 0.014	< 0.013
Total TIC, Semi-Volatile	NS	NS	1.28 J	0.77 J	6.95 J	3.24 J	1.94 J
Pesticides / Herbicides							
4,4-DDD	3	50	< 0.00035	< 0.00036	< 0.00036	< 0.00037	< 0.00036
4,4-DDE	12	50	< 0.00037	< 0.00037	< 0.00038	< 0.00038	< 0.00038
4,4-DDT	7	500	< 0.00045	< 0.00046	< 0.00046	< 0.00047	< 0.00046
Aldrin	0.1	50	< 0.00032	< 0.00033	< 0.00033	< 0.00034	< 0.00033
alpha-BHC	0.002	NS	< 0.00027	< 0.00028	< 0.00028	< 0.00029	< 0.00028
alpha-Chlordane	0.03	NS	< 0.0004	< 0.0004	< 0.00041	< 0.00042	< 0.00041
beta-BHC	0.002	NS	< 0.00032	< 0.00032	< 0.00033	< 0.00034	< 0.00033
Chlordane	0.03	NS	NA	NA	NA	NA	NA
delta-BHC	NS	NS	< 0.00054	< 0.00055	< 0.00056	< 0.00057	< 0.00056
Dieldrin	0.003	50	< 0.00037	< 0.00038	< 0.00038	< 0.00039	< 0.00038
Endosulfan I (alpha)	2	NS	< 0.00039	< 0.0004	< 0.00041	< 0.00041	< 0.00041
Endosulfan II (beta)	2	NS	< 0.00039	< 0.00039	< 0.0004	< 0.00041	< 0.0004
Endosulfan sulfate	1	NS	< 0.0004	< 0.0004	< 0.00041	< 0.00042	< 0.00041
Endrin	0.6	50	< 0.00037	< 0.00037	< 0.00038	< 0.00038	< 0.00038
Endrin Aldehyde	NS	NS	< 0.00035	< 0.00035	< 0.00036	< 0.00036	< 0.00036
Endrin ketone	NS	NS	< 0.0004	< 0.00041	< 0.00041	< 0.00042	< 0.00042
gamma-Chlordane	0.03	NS	< 0.0004	< 0.0004	< 0.00041	< 0.00042	< 0.00041
Heptachlor	0.3	50	< 0.00038	< 0.00039	< 0.00039	< 0.0004	< 0.00039
Heptachlor epoxide	0.009	NS	< 0.00041	< 0.00041	< 0.00042	< 0.00043	< 0.00042
Lindane	0.002	50	< 0.0003	< 0.0003	< 0.0003	< 0.00031	< 0.0003
Methoxychlor	100	50	< 0.00049	< 0.00049	< 0.0005	< 0.00051	< 0.0005
Toxaphene	0.2	50	< 0.007	< 0.0071	< 0.0072	< 0.0074	< 0.0072

Footnote on last page

Table 4 Comparisson of Soil Analytical Results to the IGW Soil Cleanup Criteria and the 2008 Impact to Groundwater Default Soil Screening Levels, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location			CMI-S3				
Sample Name			CMI-S3(6.0-6.5)	CMI-S3(16-16.5)	CMI-S3(21.5-22)	CMI-S3(31.5-32)	CMI-S3(45.5-46)
Sample Date	NJ Default Impact to Groundwater Soil Screening (NJAC 7:26D 12/08)	NJ Impact to Groundwater Soil Criteria (NJAC 7:26D 5/99)	12/11/2007	12/11/2007	12/11/2007	12/11/2007	12/11/2007
Validation Status			Final	Final	Final	Final	Final
PCBs							
PCB 1016	0.2	50	< 0.007	< 0.0071	< 0.0072	< 0.0073	< 0.0072
PCB 1221	0.2	50	< 0.022	< 0.022	< 0.023	< 0.023	< 0.023
PCB 1232	0.2	50	< 0.02	< 0.02	< 0.021	< 0.021	< 0.021
PCB 1242	0.2	50	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
PCB 1248	0.2	50	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
PCB 1254	0.2	50	< 0.017	< 0.018	< 0.018	< 0.018	< 0.018
PCB 1260	0.2	50	< 0.0074	< 0.0075	< 0.0076	< 0.0078	< 0.0076
Total PCBs	0.2	50	0	0	0	0	0
Metals - Total							
Aluminum	3900	NS	**11300**	**13100**	**12900**	**6410**	**21000**
Antimony	6	NS	0.75 BJ	< 0.75 J	< 0.77 J	**39.7 J**	2 BJ
Arsenic	19	NS	1.7 B	2.5	2.7	**19.6**	< 0.84
Barium	1300	NS	40.5 J	59.1 J	40.6 J	365 J	152 J
Beryllium	0.5	NS	**0.54 R**	**0.56 R**	**0.54 R**	0.45 R	0.33 R
Cadmium	1	NS	0.71	0.73	**1.2**	**2**	**1.7**
Calcium	NS	NS	2090	1870	1600	14800	14300
Chromium	NS	NS	18.7	19.2	19.4	18.8	81.2
Cobalt	59	NS	8.6	7.8	8.7	6.1	28.3
Copper	7300	NS	39.9 J	30.5 J	27.5 J	111 J	16.8 J
Iron	NS	NS	21200 J	22100 J	23700 J	37800 J	40300 J
Lead	59	NS	1.6 B	8	10.6	**1880**	27.9
Magnesium	NS	NS	3670 J	3650 J	4080 J	4180 J	24100 J
Manganese	42	NS	**302 J**	**327 J**	**364 J**	**362 J**	**821 J**
Mercury	0.1	NS	< 0.024	0.023 B	0.044	< 0.023	0.028 B
Nickel	31	NS	14.1	14.5	15.9	**42**	**71.7**
Potassium	NS	NS	1320	1200	1210	1100 B	8000
Selenium	7	NS	< 1.2 J	2.1 BJ	1.8 BJ	3.6 J	3.6 J
Silver	1	NS	< 0.24	< 0.25	< 0.26	**1.4**	< 0.27
Sodium	NS	NS	534 B	568 B	632 B	1450	2020
Thallium	3	NS	< 0.82	< 0.86	< 0.87	< 0.88	< 0.89
Vanadium	NS	NS	38.4	40.1	39	57.5	98.3
Zinc	600	NS	27.3	48.5	281	**624**	360
Other	NS	NS					
Solids, Percent	NS	NS	89.7	89	88.2	85.3	86.4

Footnote on last page

R2-0005248

Table 4 Comparisson of Soil Analytical Results to the IGW Soil Cleanup Criteria and the 2008 Impact to Groundwater Default Soil Screening Levels, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location			CMI-S4					
Sample Name			CMI-S4(5-5.5	CMI-S4(14-14.5)	CMI-S4(20-20.5)	CMI-S4(35-35.5)	CMI-S4(43.5-44)	CMI-S4(51-51.5)
Sample Date	NJ Default Impact to Groundwater Soil Screening (NJAC 7:26D 12/08)	NJ Impact to Groundwater Soil Criteria (NJAC 7:26D 5/99)	12/6/2007	12/6/2007	12/6/2007	12/6/2007	12/6/2007	12/6/2007
Validation Status			Final	Final	Final	Final	Final	Final
VOC								
1,1,1-Trichloroethane	0.2	50	< 0.00036	< 0.00078 J	< 0.00038	< 0.00042 J	< 0.00056	< 0.00051
1,1,2,2-Tetrachloroethane	0.005	1	< 0.00028	< 0.00061	< 0.00029	< 0.00033 J	< 0.00044	< 0.0004
1,1,2-Trichloroethane	0.01	1	< 0.00028	< 0.00061 J	< 0.00029	< 0.00033 J	< 0.00044	< 0.0004
1,1-Dichloroethane	0.2	10	< 0.00065	< 0.0014	< 0.0007	< 0.00078 J	< 0.001	< 0.00094
1,1-Dichloroethene	0.005	10	< 0.00044	< 0.00096	< 0.00047	< 0.00052 J	< 0.00069	< 0.00063
1,2,4-Trichlorobenzene	0.4	100	< 0.00033	< 0.00073	< 0.00035	< 0.0004 J	< 0.00053	< 0.00048
1,2-Dibromo-3-Chloropropane (DBCP)	0.005	NS	< 0.00088	< 0.0019	< 0.00094	< 0.001 J	< 0.0014	< 0.0013
1,2-Dibromoethane	0.005	NS	< 0.00028	< 0.00061	< 0.00029	< 0.00033 J	< 0.00043	< 0.0004
1,2-Dichlorobenzene	11	50	< 0.00026	0.0228	< 0.00028	< 0.00031 J	< 0.00041	< 0.00038
1,2-Dichloroethane	0.005	1	< 0.00022	< 0.00049	< 0.00024	< 0.00027 J	< 0.00035	< 0.00032
1,2-Dichloropropane	0.005	NS	< 0.00039	< 0.00085 J	< 0.00041	< 0.00046 J	< 0.00061	< 0.00056
1,3-Dichlorobenzene	12	100	< 0.00035	0.0068 J	< 0.00037	< 0.00041 J	< 0.00055	< 0.0005
1,4-Dichlorobenzene	1	100	< 0.00028	0.234	0.0033 J	0.0057 J	< 0.00045	< 0.00041
2-Butanone (MEK)	0.6	50	0.013	0.012 J	0.0108	0.271 J	< 0.0042	< 0.0038
2-Hexanone	NS	NS	< 0.0016	< 0.0036	< 0.0017	< 0.0019 J	< 0.0026	< 0.0023
4-methyl-2-pentanone (MIBK)	NS	50	< 0.0019	< 0.0041	< 0.002	< 0.0022 J	< 0.003	< 0.0027
Acetone	12	100	0.0696	0.128	0.0551	0.203 J	0.0304	< 0.0056
Benzene	0.005	1	0.00097	**0.192 J**	**0.0064**	**0.169 JD**	0.0017	< 0.00099
Bromodichloromethane	0.005	1	< 0.00024	< 0.00052 J	< 0.00025	< 0.00028 J	< 0.00037	< 0.00034
Bromoform	0.02	1	< 0.00077	< 0.0017 J	< 0.00082	< 0.00092 J	< 0.0012	< 0.0011
Bromomethane	0.03	1	< 0.00046	< 0.001	< 0.00049	< 0.00055 J	< 0.00072	< 0.00066
Carbon disulfide	4	NS	< 0.00028	< 0.0006	< 0.00029	0.0011 J	< 0.00043	< 0.0004
Carbon tetrachloride	0.005	1	< 0.00024	< 0.00052 J	< 0.00025	< 0.00028 J	< 0.00037	< 0.00034
Chlorobenzene	0.4	1	< 0.00053	**62.9 D**	0.0229	< 0.00063 J	< 0.00083	< 0.00076
Chloroethane	NS	NS	< 0.00049	< 0.0011	< 0.00052	< 0.00058 J	< 0.00077	< 0.00071
Chloroform	0.2	1	< 0.00037	< 0.00082	< 0.0004	< 0.00044 J	< 0.00059	< 0.00054
Chloromethane	NS	10	< 0.0005	< 0.0011	< 0.00053	< 0.00059 J	< 0.00078	< 0.00071
cis-1,2-Dichloroethene	0.2	1	< 0.00018	< 0.0004	< 0.00019	< 0.00022 J	< 0.00029	< 0.00026
cis-1,3-Dichloropropene	0.005	1	< 0.00047	< 0.001 J	< 0.0005	< 0.00056 J	< 0.00075	< 0.00068
Cyclohexane	NS	NS	< 0.00037	0.0067 J	0.0012 J	0.22 J	0.047	< 0.00053
Dibromochloromethane	0.005	1	< 0.0002	< 0.00044 J	< 0.00021	< 0.00024 J	< 0.00031	< 0.00029
Dichlorodifluoromethane	25	NS	< 0.00038	< 0.00084	< 0.00041	< 0.00046 J	< 0.00061	< 0.00055
Ethylbenzene	8	100	< 0.00046	**333 D**	0.0036	**13.1 JD**	0.0055	< 0.00066
Freon 113	NS	NS	< 0.00035	< 0.00077	< 0.00037	< 0.00042 J	< 0.00055	< 0.00051
Isopropylbenzene	NS	NS	< 0.00028	0.327	0.0019 J	1.19 JD	0.0026 J	< 0.00041
Methyl acetate	14	NS	< 0.0029	< 0.0065	< 0.0031	< 0.0035 J	< 0.0046	< 0.0042
Methyl tert butyl ether	0.2	NS	< 0.0006	0.0035	< 0.00063	0.0018 J	< 0.00094	< 0.00086
Methylcyclohexane	NS	NS	< 0.00048	0.0043 J	< 0.00051	3.73 JD	0.0062 J	< 0.00068
Methylene chloride	0.007	1	< 0.00044	< 0.00098	< 0.00047	< 0.00053 J	0.0042 J	< 0.00064
o-Xylene	NS	NS	< 0.00024	0.0069	0.0012	25.6 JD	0.0119	< 0.00035
Styrene	2	100	< 0.00022	< 0.00047	< 0.00023	< 0.00026 J	< 0.00034	< 0.00031
Tetrachloroethene	0.005	1	< 0.00031	< 0.00069	< 0.00033	< 0.00037 J	< 0.0005	< 0.00045
Toluene	4	500	0.001	0.0028	< 0.00042	**5.09 JD**	0.005	< 0.00057
Trans-1,2-dichloroethene	0.4	50	< 0.00052	< 0.0011	< 0.00056	< 0.00062 J	< 0.00082	< 0.00075
trans-1,3-Dichloropropene	0.005	1	< 0.00076	< 0.0017 J	< 0.00081	< 0.0009 J	< 0.0012	< 0.0011
Trichloroethene	0.007	1	< 0.00031	< 0.00067 J	< 0.00033	< 0.00036 J	< 0.00048	< 0.00044
Trichlorofluoromethane	22	NS	< 0.00044	< 0.00097	< 0.00047	< 0.00053 J	< 0.0007	< 0.00064
Vinyl Chloride	0.005	10	< 0.00053	< 0.0012	< 0.00056	< 0.00062 J	< 0.00083	< 0.00076
Xylene, -m,p	NS	NS	< 0.00046	< 0.001	0.0038	54.4 JD	0.0336	< 0.00066
Xylenes	12	67	< 0.00024	0.0069	0.005	**80 JD**	0.0455	< 0.00035
Total TIC, Volatile	NS	NS	0	0.306 J	0.06 J	3.964 J	1.245 J	0

Footnote on last page

Table 4 Comparisson of Soil Analytical Results to the IGW Soil Cleanup Criteria and the 2008 Impact to Groundwater Default Soil Screening Levels, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location			CMI-S4					
Sample Name			CMI-S4(5-5.5	CMI-S4(14-14.5)	CMI-S4(20-20.5)	CMI-S4(35-35.5)	CMI-S4(43.5-44)	CMI-S4(51-51.5)
Sample Date	NJ Default Impact to Groundwater Soil Screening (NJAC 7:26D 12/08)	NJ Impact to Groundwater Soil Criteria (NJAC 7:26D 5/99)	12/6/2007	12/6/2007	12/6/2007	12/6/2007	12/6/2007	12/6/2007
Validation Status			Final	Final	Final	Final	Final	Final
SVOC								
1,1'-Biphenyl	90	NS	< 0.01	2.21	< 0.01	< 0.11	< 0.014	< 0.011
2,4,5-Trichlorophenol	44	50	< 0.071	< 0.1	< 0.073	< 0.8	< 0.096	< 0.073
2,4,6-Trichlorophenol	0.2	10	< 0.076	< 0.11	< 0.078	< 0.85	< 0.1	< 0.078
2,4-Dichlorophenol	0.2	10	< 0.039	< 0.055	< 0.04	< 0.44	< 0.052	< 0.04
2,4-Dimethylphenol	0.7	10	< 0.046	< 0.064	< 0.047	< 0.51	< 0.062	< 0.047
2,4-Dinitrophenol	0.3	10	< 0.041	< 0.058	< 0.042	< 0.46	< 0.055	< 0.043
2,4-Dinitrotoluene	NS	10	< 0.012	< 0.017	< 0.012	< 0.14	< 0.016	< 0.013
2,6-Dinitrotoluene	NS	10	< 0.015	< 0.021	< 0.015	< 0.17	< 0.02	< 0.015
2-Chloronaphthalene	NS	NS	< 0.011	< 0.016	< 0.012	< 0.13	< 0.015	< 0.012
2-Chlorophenol	0.5	10	< 0.024	< 0.034	< 0.024	< 0.27	< 0.032	< 0.025
2-Methylnaphthalene	5	NS	< 0.034	0.893	< 0.034	< 0.38	< 0.045	< 0.035
2-Methylphenol	NS	NS	< 0.036	< 0.051	< 0.037	< 0.41	< 0.049	< 0.037
2-Nitroaniline	NS	NS	< 0.024	< 0.033	< 0.024	< 0.27	< 0.032	< 0.025
2-Nitrophenol	NS	NS	< 0.044	< 0.061	< 0.045	< 0.49	< 0.058	< 0.045
3&4-Methylphenol	NS	NS	< 0.047	< 0.065	< 0.048	< 0.52	< 0.063	< 0.048
3,3'-Dichlorobenzidine	0.2	100	< 0.027	< 0.038	< 0.028	< 0.3	< 0.037	< 0.028
3-Nitroaniline	NS	NS	< 0.025	< 0.035	< 0.026	< 0.28	< 0.034	< 0.026
4,6-Dinitro-2-methylphenol	0.3	NS	< 0.069	< 0.096	< 0.07	< 0.77	< 0.092	< 0.071
4-Bromophenyl phenyl ether	NS	NS	< 0.016	< 0.023	< 0.017	< 0.18	< 0.022	< 0.017
4-Chloro-3-Methylphenol	NS	100	< 0.051	< 0.072	< 0.052	< 0.57	< 0.069	< 0.053
4-Chloroaniline	NS	NS	< 0.014	< 0.019	< 0.014	< 0.15	< 0.018	< 0.014
4-Chlorophenyl phenyl ether	NS	NS	< 0.011	< 0.015	< 0.011	< 0.12	< 0.014	< 0.011
4-Nitroaniline	NS	NS	< 0.021	< 0.03	< 0.022	< 0.24	< 0.029	< 0.022
4-Nitrophenol	NS	NS	< 0.066	< 0.093	< 0.068	< 0.74	< 0.089	< 0.068
Acenaphthene	74	100	< 0.012	0.0546 J	< 0.012	0.854	< 0.016	< 0.012
Acenaphthylene	NS	NS	< 0.0076	< 0.011	< 0.0078	< 0.085	< 0.01	< 0.0079
Acetophenone	2	NS	< 0.011	< 0.016	< 0.012	< 0.13	< 0.015	< 0.012
Anthracene	1500	100	< 0.035	< 0.048	< 0.035	0.666 J	< 0.046	< 0.036
Atrazine	0.2	NS	< 0.022	< 0.03	< 0.022	< 0.24	< 0.029	< 0.022
Benzaldehyde	NS	NS	< 0.0071	< 0.01	< 0.0073	< 0.08	< 0.0095	< 0.0073
Benzo(a)anthracene	0.5	500	< 0.0078	< 0.011	< 0.0079	0.294 J	0.0218 J	< 0.008
Benzo(a)pyrene	0.2	100	< 0.018	< 0.026	< 0.019	< 0.21	< 0.025	< 0.019
Benzo(b)fluoranthene	2	50	< 0.012	< 0.017 J	< 0.013	< 0.14 J	< 0.017	< 0.013 J
Benzo(g,h,i)perylene	NS	NS	< 0.015	< 0.021	< 0.015	< 0.17	< 0.02	< 0.015
Benzo(k)fluoranthene	16	500	< 0.016	< 0.023	< 0.017	< 0.18	< 0.022	< 0.017
Benzyl butyl phthalate	150	100	< 0.014	< 0.019	< 0.014	< 0.15	< 0.018	< 0.014
bis(2-Chloroethoxy)methane	NS	NS	< 0.015	< 0.02	< 0.015	< 0.16	< 0.02	< 0.015
bis(2-Chloroethyl)ether	0.2	10	< 0.017	< 0.024	< 0.018	< 0.19	< 0.023	< 0.018
bis(2-Chloroisopropyl)ether	3	10	< 0.022	< 0.031	< 0.022	< 0.25	< 0.029	< 0.023
bis(2-Ethylhexyl)phthalate	790	100	< 0.023	3.01	< 0.023	367 D	0.8	< 0.023
Caprolactam	8	NS	< 0.02	< 0.028	< 0.02	< 0.22	< 0.027	< 0.021
Carbazole	NS	NS	< 0.013	< 0.018	< 0.013	< 0.14	< 0.017	< 0.013
Chrysene	52	500	< 0.015	< 0.021	< 0.016	0.232 J	0.0203 J	< 0.016
Dibenzo(a,h)anthracene	0.5	100	< 0.0096	< 0.014	< 0.0099	< 0.11	< 0.013	< 0.0099
Dibenzofuran	NS	NS	< 0.0074	< 0.01	< 0.0076	0.54 J	< 0.0099	< 0.0076
Diethyl phthalate	57	50	< 0.013	6.17 D	< 0.013	< 0.15	< 0.018	< 0.014

Footnote on last page

Table 4 Comparisson of Soil Analytical Results to the IGW Soil Cleanup Criteria and the 2008 Impact to Groundwater Default Soil Screening Levels, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location			CMI-S4					
Sample Name			CMI-S4(5-5.5	CMI-S4(14-14.5)	CMI-S4(20-20.5)	CMI-S4(35-35.5)	CMI-S4(43.5-44)	CMI-S4(51-51.5)
Sample Date	NJ Default Impact to Groundwater Soil Screening (NJAC 7:26D 12/08)	NJ Impact to Groundwater Soil Criteria (NJAC 7:26D 5/99)	12/6/2007	12/6/2007	12/6/2007	12/6/2007	12/6/2007	12/6/2007
Validation Status			Final	Final	Final	Final	Final	Final
SVOCs continued								
Dimethyl phthalate	NS	50	< 0.01	< 0.014	< 0.01	< 0.11	< 0.014	< 0.01
di-n-butyl phthalate	620	100	< 0.01	8.03 D	< 0.011	< 0.12	< 0.014	< 0.011
di-n-octylphthalate	3300	100	< 0.015	0.15	< 0.016	0.473 J	0.337	< 0.016
Fluoranthene	840	100	< 0.007	< 0.0098	< 0.0071	0.569 J	0.0421 J	< 0.0072
Fluorene	110	100	< 0.0076	0.0997 J	< 0.0078	3.47	< 0.01	< 0.0078
Hexachlorobenzene	0.2	100	< 0.018	< 0.026	< 0.019	< 0.2	< 0.024	< 0.019
Hexachlorobutadiene	0.6	100	< 0.017	< 0.024	< 0.018	< 0.2	< 0.023	< 0.018
Hexachlorocyclopentadiene	210	100	< 0.017	< 0.024	< 0.018	< 0.2	< 0.023	< 0.018
Hexachloroethane	0.2	100	< 0.016	< 0.022	< 0.016	< 0.18	< 0.021	< 0.016
Indeno(1,2,3-cd)pyrene	5	500	< 0.035	< 0.049	< 0.036	< 0.39	< 0.047	< 0.036
Isophrone	0.2	50	< 0.012	< 0.017	< 0.012	< 0.14	< 0.016	< 0.012
Naphthalene	16	100	< 0.0085	10.9 D	< 0.0087	0.549 J	< 0.011	< 0.0087
Nitrobenzene	0.2	50	< 0.013	< 0.018	< 0.013	< 0.14	< 0.017	< 0.013
N-Nitroso-di-n-Propylamine	0.2	10	< 0.013	< 0.018	< 0.013	< 0.14	< 0.017	< 0.013
N-Nitrosodiphenylamine	0.2	1000	< 0.0083	0.142 J	< 0.0084	< 0.093	< 0.011	< 0.0085
Pentachlorophenol	0.3	100	< 0.039	< 0.055	< 0.04	< 0.44	< 0.053	< 0.041
Phenanthrene	NS	NS	< 0.0094	0.229	< 0.0096	12.6	0.063 J	< 0.0097
Phenol	5	50	< 0.035	< 0.049	< 0.036	< 0.39	< 0.047	< 0.036
Pyrene	550	100	< 0.013	< 0.018	< 0.013	0.842	0.0315 J	< 0.013
Total TIC, Semi-Volatile	NS	NS	0.17 J	949 J	5.45 J	226.5 J	3.57 J	15.12 J
Pesticides / Herbicides								
4,4-DDD	3	50	< 0.00036	< 0.0015	< 0.00037	< 0.0004	< 0.00048	< 0.00037
4,4-DDE	12	50	0.0017	< 0.0015	< 0.00038	< 0.00041	< 0.00049	< 0.00038
4,4-DDT	7	500	< 0.00046	< 0.0019	< 0.00047	< 0.00051	< 0.00061	< 0.00047
Aldrin	0.1	50	< 0.00033	< 0.0014	< 0.00034	0.0465	< 0.00044	< 0.00034
alpha-BHC	0.002	NS	< 0.00028	< 0.0011	< 0.00028	< 0.00031	< 0.00037	< 0.00029
alpha-Chlordane	0.03	NS	0.0075 J	< 0.0017	< 0.00041	< 0.00045	< 0.00053	< 0.00042
beta-BHC	0.002	NS	< 0.00033	< 0.0013	< 0.00033	< 0.00036	< 0.00043	< 0.00033
Chlordane	0.03	NS	NA	NA	NA	NA	NA	NA
delta-BHC	NS	NS	< 0.00055	< 0.0023	< 0.00057	< 0.00061	< 0.00073	< 0.00057
Dieldrin	0.003	50	< 0.00038	< 0.0016	< 0.00039	< 0.00042	< 0.0005	< 0.00039
Endosulfan I (alpha)	2	NS	< 0.0004	< 0.0017	< 0.00041	< 0.00045	< 0.00053	< 0.00041
Endosulfan II (beta)	2	NS	< 0.0004	< 0.0016	< 0.00041	< 0.00044	< 0.00052	< 0.00041
Endosulfan sulfate	1	NS	< 0.00041	< 0.0017	< 0.00042	< 0.00045	< 0.00054	< 0.00042
Endrin	0.6	50	< 0.00037	< 0.0015	< 0.00038	< 0.00041	< 0.00049	< 0.00038
Endrin Aldehyde	NS	NS	< 0.00035	< 0.0015	< 0.00036	< 0.00039	< 0.00047	< 0.00036
Endrin ketone	NS	NS	< 0.00041	< 0.0017	< 0.00042	< 0.00046	< 0.00054	< 0.00042
gamma-Chlordane	0.03	NS	0.0064	< 0.0017	< 0.00041	< 0.00045	< 0.00053	< 0.00041
Heptachlor	0.3	50	< 0.00039	< 0.0016	< 0.0004	< 0.00043	< 0.00052	< 0.0004
Heptachlor epoxide	0.009	NS	< 0.00042	< 0.0017	< 0.00042	< 0.00046	< 0.00055	< 0.00043
Lindane	0.002	50	< 0.0003	< 0.0012	< 0.00031	< 0.00033	< 0.0004	< 0.00031
Methoxychlor	100	50	< 0.0005	< 0.0021	< 0.00051	< 0.00055	< 0.00066	< 0.00051
Toxaphene	0.2	50	< 0.0072	< 0.03	< 0.0073	< 0.0079	< 0.0094	< 0.0073

Footnote on last page

Table 4 Comparisson of Soil Analytical Results to the IGW Soil Cleanup Criteria and the 2008 Impact to Groundwater Default Soil Screening Levels, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location			CMI-S4					
Sample Name			CMI-S4(5-5.5	CMI-S4(14-14.5)	CMI-S4(20-20.5)	CMI-S4(35-35.5)	CMI-S4(43.5-44)	CMI-S4(51-51.5)
Sample Date	NJ Default Impact to Groundwater Soil Screening (NJAC 7:26D 12/08)	NJ Impact to Groundwater Soil Criteria (NJAC 7:26D 5/99)	12/6/2007	12/6/2007	12/6/2007	12/6/2007	12/6/2007	12/6/2007
Validation Status			Final	Final	Final	Final	Final	Final
PCBs								
PCB 1016	0.2	50	< 0.0071	< 0.029	< 0.0073	< 0.0079	< 0.0094	< 0.0073
PCB 1221	0.2	50	< 0.023	< 0.093	< 0.023	< 0.025	< 0.03	< 0.023
PCB 1232	0.2	50	< 0.02	< 0.084	< 0.021	< 0.023	< 0.027	< 0.021
PCB 1242	0.2	50	< 0.012	< 0.049	< 0.012	< 0.013	< 0.016	< 0.012
PCB 1248	0.2	50	< 0.013	< 0.054	< 0.013	< 0.014	< 0.017	< 0.013
PCB 1254	0.2	50	< 0.018	< 0.073	< 0.018	**4.01**	< 0.023	< 0.018
PCB 1260	0.2	50	< 0.0076	< 0.031	< 0.0078	< 0.0084	< 0.01	< 0.0078
Total PCBs	0.2	50	0	0	0	**4.01**	0	0
Metals - Total								
Aluminum	3900	NS	**10700**	**34300**	**17800**	**12000**	**7770**	3710
Antimony	6	NS	< 0.72 J	< 1 J	< 0.75 J	**10.8 J**	**29 J**	**19.8 J**
Arsenic	19	NS	2 B	3.2	3.3	10.3	**27**	9.8
Barium	1300	NS	65.9	123	50.8	819	403	566
Beryllium	0.5	NS	0.39 B	0.37 B	**0.54 B**	**0.7**	0.38 B	0.15 B
Cadmium	1	NS	< 0.066	**60.6**	0.12 B	**10.5**	**6.3**	0.46 B
Calcium	NS	NS	3470	41300	1940	14000	154000	4880
Chromium	NS	NS	23.3	40	30.9	233	74.6	16.3
Cobalt	59	NS	7.1 J	7.1 BJ	10.4 J	21.7 J	12.4 J	4.5 BJ
Copper	7300	NS	20.7	12.6	32.5	189	921	194
Iron	NS	NS	22000 J	17900 J	25800 J	47000 J	61400 J	20600 J
Lead	59	NS	8.9	**128**	17.9	**1010**	**1360**	**428**
Magnesium	NS	NS	4560	11600	4110	6190	40300	1140
Manganese	42	NS	**268**	**159**	**330**	**605**	**1110**	**170**
Mercury	0.1	NS	0.042	0.082	**3.8**	**0.41**	0.038 B	< 0.022
Nickel	31	NS	15.1	10.8	21.2	**31.9**	**70.3**	**40.5**
Potassium	NS	NS	1270	1000 B	1160 B	2050	1240 B	229 B
Selenium	7	NS	< 1.2	**16.4**	< 1.3	< 1.5	< 1.6	< 1.2
Silver	1	NS	< 0.24	< 0.34	< 0.25	< 0.29	< 0.32	< 0.25
Sodium	NS	NS	362 B	1410 B	179 B	610 B	1590	631 B
Thallium	3	NS	< 0.82	< 1.2	1 B	< 0.97	< 1.1	< 0.83
Vanadium	NS	NS	42.4 J	31.5 J	41.5 J	49.6 J	18.8 J	40.8 J
Zinc	600	NS	42.5	95.6	48.7	**12900**	**10300**	**666**
Other	NS	NS						
Solids, Percent	NS	NS	88.8	63.3	86.3	78.7	66.1	85.6

Footnote on last page

R2-0005252

Table 4 Comparisson of Soil Analytical Results to the IGW Soil Cleanup Criteria and the 2008 Impact to Groundwater Default Soil Screening Levels, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location			CMI-S5				
Sample Name			CMI-S5(5-5.5)	CMI-S5(14-14.5)	CMI-S5(26.5-27)	CMI-S5(35-35.5)	CMI-S5(45.5-46)
Sample Date	NJ Default Impact to Groundwater Soil Screening (NJAC 7:26D 12/08)	NJ Impact to Groundwater Soil Criteria (NJAC 7:26D 5/99)	12/7/2007	12/7/2007	12/7/2007	12/7/2007	12/10/2007
Validation Status			Final	Final	Final	Final	Final
VOC							
1,1,1-Trichloroethane	0.2	50	< 0.00046	< 0.00035	< 0.00044	< 0.00036	< 0.00038
1,1,2,2-Tetrachloroethane	0.005	1	< 0.00036	< 0.00027	< 0.00034	< 0.00028	< 0.0003
1,1,2-Trichloroethane	0.01	1	< 0.00036	< 0.00027	< 0.00034	< 0.00028	< 0.0003
1,1-Dichloroethane	0.2	10	< 0.00084	< 0.00064	< 0.0008	< 0.00067	< 0.0007
1,1-Dichloroethene	0.005	10	< 0.00056	< 0.00043	< 0.00054	< 0.00045	< 0.00047
1,2,4-Trichlorobenzene	0.4	100	< 0.00043	< 0.00033	< 0.00041	< 0.00034	< 0.00036
1,2-Dibromo-3-Chloropropane (DBCP)	0.005	NS	< 0.0011	< 0.00086	< 0.0011	< 0.0009	< 0.00094
1,2-Dibromoethane	0.005	NS	< 0.00035	< 0.00027	< 0.00034	< 0.00028	< 0.00029
1,2-Dichlorobenzene	11	50	< 0.00034	0.0016 J	< 0.00032	< 0.00027	< 0.00028
1,2-Dichloroethane	0.005	1	< 0.00029	< 0.00022	< 0.00027	< 0.00023	< 0.00024
1,2-Dichloropropane	0.005	NS	< 0.0005	< 0.00038	< 0.00048	< 0.0004	< 0.00042
1,3-Dichlorobenzene	12	100	< 0.00045	< 0.00034	< 0.00043	< 0.00035	< 0.00037
1,4-Dichlorobenzene	1	100	0.0227	0.0032 J	< 0.00035	< 0.00029	< 0.0003
2-Butanone (MEK)	0.6	50	0.0103 J	< 0.0026	< 0.0033	< 0.0027	< 0.0028
2-Hexanone	NS	NS	< 0.0021	< 0.0016	< 0.002	< 0.0017	< 0.0017
4-methyl-2-pentanone (MIBK)	NS	50	< 0.0024	< 0.0018	< 0.0023	< 0.0019	< 0.002
Acetone	12	100	0.0345	0.0285	< 0.0048	0.0367	0.0105
Benzene	0.005	1	< 0.00088	0.00093	< 0.00084	< 0.0007	< 0.00073
Bromodichloromethane	0.005	1	< 0.0003	< 0.00023	< 0.00029	< 0.00024	< 0.00025
Bromoform	0.02	1	< 0.00099	< 0.00075	< 0.00095	< 0.00079	< 0.00082
Bromomethane	0.03	1	< 0.00059	< 0.00045	< 0.00056	< 0.00047	< 0.00049
Carbon disulfide	4	NS	0.0014 J	< 0.00027	< 0.00034	< 0.00028	< 0.00029
Carbon tetrachloride	0.005	1	< 0.0003	< 0.00023	< 0.00029	< 0.00024	< 0.00025
Chlorobenzene	0.4	1	0.026	0.0067	< 0.00065	< 0.00054	< 0.00056
Chloroethane	NS	NS	< 0.00063	< 0.00048	< 0.0006	< 0.0005	< 0.00052
Chloroform	0.2	1	< 0.00048	< 0.00037	< 0.00046	< 0.00038	< 0.0004
Chloromethane	NS	10	< 0.00064	< 0.00048	< 0.00061	< 0.00051	< 0.00053
cis-1,2-Dichloroethene	0.2	1	< 0.00023	< 0.00018	< 0.00022	< 0.00019	< 0.00019
cis-1,3-Dichloropropene	0.005	1	< 0.00061	< 0.00046	< 0.00058	< 0.00048	< 0.0005
Cyclohexane	NS	NS	< 0.00048	< 0.00036	< 0.00046	< 0.00038	< 0.0004
Dibromochloromethane	0.005	1	< 0.00026	< 0.00019	< 0.00024	< 0.0002	< 0.00021
Dichlorodifluoromethane	25	NS	< 0.00049	< 0.00038	< 0.00047	< 0.00039	< 0.00041
Ethylbenzene	8	100	0.002	0.0024	< 0.00056	< 0.00047	< 0.00049
Freon 113	NS	NS	< 0.00045	< 0.00034	< 0.00043	< 0.00036	< 0.00038
Isopropylbenzene	NS	NS	0.003 J	0.0029 J	< 0.00035	< 0.00029	< 0.0003
Methyl acetate	14	NS	< 0.0038	< 0.0029	< 0.0036	< 0.003	< 0.0031
Methyl tert butyl ether	0.2	NS	< 0.00077	< 0.00058	< 0.00073	< 0.00061	< 0.00063
Methylcyclohexane	NS	NS	< 0.00061	< 0.00046	< 0.00058	< 0.00048	< 0.00051
Methylene chloride	0.007	1	< 0.00057	< 0.00043	< 0.00055	< 0.00045	< 0.00047
o-Xylene	NS	NS	0.0012	0.0025	< 0.0003	< 0.00025	< 0.00026
Styrene	2	100	< 0.00028	< 0.00021	< 0.00026	< 0.00022	< 0.00023
Tetrachloroethene	0.005	1	< 0.0004	< 0.00031	< 0.00039	< 0.00032	< 0.00034
Toluene	4	500	< 0.00051	0.0028	< 0.00049	< 0.0004	< 0.00042
Trans-1,2-dichloroethene	0.4	50	< 0.00067	< 0.00051	< 0.00064	< 0.00053	< 0.00056
trans-1,3-Dichloropropene	0.005	1	< 0.00098	< 0.00074	< 0.00094	< 0.00078	< 0.00081
Trichloroethene	0.007	1	< 0.00039	< 0.0003	< 0.00038	< 0.00031	< 0.00033
Trichlorofluoromethane	22	NS	< 0.00057	< 0.00043	< 0.00054	< 0.00045	< 0.00047
Vinyl Chloride	0.005	10	< 0.00068	< 0.00051	< 0.00065	< 0.00054	< 0.00056
Xylene, -m,p	NS	NS	0.003	0.0087	< 0.00057	< 0.00047	< 0.00049
Xylenes	12	67	0.0043	0.0112	< 0.0003	< 0.00025	< 0.00026
Total TIC, Volatile	NS	NS	0.0859 J	0.0631 J	0	0	0.0295 J

Footnote on last page

R2-0005253

Table 4 Comparisson of Soil Analytical Results to the IGW Soil Cleanup Criteria and the 2008 Impact to Groundwater Default Soil Screening Levels, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location			CMI-S5				
Sample Name			CMI-S5(5-5.5)	CMI-S5(14-14.5)	CMI-S5(26.5-27)	CMI-S5(35-35.5)	CMI-S5(45.5-46)
Sample Date	NJ Default Impact to Groundwater Soil Screening (NJAC 7:26D 12/08)	NJ Impact to Groundwater Soil Criteria (NJAC 7:26D 5/99)	12/7/2007	12/7/2007	12/7/2007	12/7/2007	12/10/2007
Validation Status			Final	Final	Final	Final	Final
SVOC							
1,1'-Biphenyl	90	NS	0.0283 J	< 0.01	< 0.07	< 0.01	< 0.011
2,4,5-Trichlorophenol	44	50	< 0.08	< 0.071	< 0.49	< 0.071	< 0.074
2,4,6-Trichlorophenol	0.2	10	< 0.085	< 0.076	< 0.52	< 0.075	< 0.078
2,4-Dichlorophenol	0.2	10	< 0.044	< 0.039	< 0.27	< 0.039	< 0.04
2,4-Dimethylphenol	0.7	10	< 0.051	< 0.046	< 0.31	< 0.046	< 0.047
2,4-Dinitrophenol	0.3	10	< 0.046	< 0.041	< 0.28	< 0.041	< 0.043
2,4-Dinitrotoluene	NS	10	< 0.014	< 0.012	< 0.083	< 0.012	< 0.013
2,6-Dinitrotoluene	NS	10	< 0.017	< 0.015	< 0.1	< 0.015	< 0.015
2-Chloronaphthalene	NS	NS	< 0.013	< 0.011	< 0.078	< 0.011	< 0.012
2-Chlorophenol	0.5	10	< 0.027	< 0.024	< 0.16	< 0.024	< 0.025
2-Methylnaphthalene	5	NS	0.134	< 0.034	< 0.23	< 0.034	< 0.035
2-Methylphenol	NS	NS	< 0.041	< 0.036	< 0.25	< 0.036	< 0.037
2-Nitroaniline	NS	NS	< 0.027	< 0.024	< 0.16	< 0.024	< 0.025
2-Nitrophenol	NS	NS	< 0.049	< 0.044	< 0.3	< 0.043	< 0.045
3&4-Methylphenol	NS	NS	< 0.052	< 0.047	< 0.32	< 0.046	< 0.048
3,3'-Dichlorobenzidine	0.2	100	< 0.03	< 0.027	< 0.19	< 0.027	< 0.028
3-Nitroaniline	NS	NS	< 0.028	< 0.025	< 0.17	< 0.025	< 0.026
4,6-Dinitro-2-methylphenol	0.3	NS	< 0.077	< 0.069	< 0.47	< 0.068	< 0.071
4-Bromophenyl phenyl ether	NS	NS	< 0.018	< 0.016	< 0.11	< 0.016	< 0.017
4-Chloro-3-Methylphenol	NS	100	< 0.057	< 0.051	< 0.35	< 0.051	< 0.053
4-Chloroaniline	NS	NS	< 0.015	< 0.014	< 0.093	< 0.014	< 0.014
4-Chlorophenyl phenyl ether	NS	NS	< 0.012	< 0.011	< 0.074	< 0.011	< 0.011
4-Nitroaniline	NS	NS	< 0.024	< 0.021	< 0.15	< 0.021	< 0.022
4-Nitrophenol	NS	NS	< 0.074	< 0.066	< 0.45	< 0.066	< 0.068
Acenaphthene	74	100	< 0.013	< 0.012	< 0.082	< 0.012	< 0.012
Acenaphthylene	NS	NS	< 0.0085	< 0.0076	< 0.052	< 0.0076	< 0.0079
Acetophenone	2	NS	< 0.013	< 0.011	< 0.078	< 0.011	< 0.012
Anthracene	1500	100	< 0.039	< 0.035	< 0.24	< 0.034	< 0.036
Atrazine	0.2	NS	< 0.024	< 0.022	< 0.15	< 0.021	< 0.022
Benzaldehyde	NS	NS	< 0.0079	< 0.0071	< 0.049	< 0.0071	< 0.0073 R
Benzo(a)anthracene	0.5	500	< 0.0087	< 0.0078	0.111 J	< 0.0077	< 0.008
Benzo(a)pyrene	0.2	100	< 0.021	< 0.018	< 0.13	< 0.018	< 0.019
Benzo(b)fluoranthene	2	50	< 0.014	< 0.012 J	< 0.084 J	< 0.012 J	< 0.013
Benzo(g,h,i)perylene	NS	NS	< 0.017	< 0.015	< 0.1	< 0.015	< 0.015
Benzo(k)fluoranthene	16	500	< 0.018	< 0.016	< 0.11	< 0.016	< 0.017
Benzyl butyl phthalate	150	100	< 0.015	< 0.014	< 0.094	< 0.014	< 0.014
bis(2-Chloroethoxy)methane	NS	NS	< 0.016	< 0.015	< 0.1	< 0.015	< 0.015
bis(2-Chloroethyl)ether	0.2	10	< 0.019	< 0.017	< 0.12	< 0.017	< 0.018
bis(2-Chloroisopropyl)ether	3	10	< 0.024	< 0.022	< 0.15	< 0.022	< 0.023
bis(2-Ethylhexyl)phthalate	790	100	0.216	0.049 J	0.693	< 0.022	< 0.023
Caprolactam	8	NS	< 0.022	< 0.02	< 0.14	< 0.02	< 0.021
Carbazole	NS	NS	< 0.014	< 0.013	< 0.087	< 0.013	< 0.013
Chrysene	52	500	< 0.017	< 0.015	0.139 J	< 0.015	< 0.016
Dibenzo(a,h)anthracene	0.5	100	< 0.011	< 0.0097	< 0.066	< 0.0096	< 0.0099
Dibenzofuran	NS	NS	< 0.0083	< 0.0074	< 0.051	< 0.0074	< 0.0076
Diethyl phthalate	57	50	< 0.015	< 0.013	< 0.09	< 0.013	< 0.014

Footnote on last page

Table 4 Comparisson of Soil Analytical Results to the IGW Soil Cleanup Criteria and the 2008 Impact to Groundwater Default Soil Screening Levels, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location			CMI-S5				
Sample Name			CMI-S5(5-5.5)	CMI-S5(14-14.5)	CMI-S5(26.5-27)	CMI-S5(35-35.5)	CMI-S5(45.5-46)
Sample Date	NJ Default Impact to Groundwater Soil Screening (NJAC 7:26D 12/08)	NJ Impact to Groundwater Soil Criteria (NJAC 7:26D 5/99)	12/7/2007	12/7/2007	12/7/2007	12/7/2007	12/10/2007
Validation Status			Final	Final	Final	Final	Final
SVOCs continued							
Dimethyl phthalate	NS	50	< 0.011	< 0.01	< 0.07	< 0.01	< 0.01
di-n-butyl phthalate	620	100	< 0.012	< 0.01	< 0.072	< 0.01	< 0.011
di-n-octylphthalate	3300	100	< 0.017	< 0.015	< 0.11	< 0.015	< 0.016
Fluoranthene	840	100	< 0.0078	< 0.007	< 0.048	< 0.007	< 0.0072
Fluorene	110	100	< 0.0085	< 0.0076	< 0.052	< 0.0075	< 0.0078
Hexachlorobenzene	0.2	100	< 0.02	< 0.018	< 0.12	< 0.018	< 0.019
Hexachlorobutadiene	0.6	100	< 0.019	< 0.017	< 0.12	< 0.017	< 0.018
Hexachlorocyclopentadiene	210	100	< 0.019	< 0.017	< 0.12	< 0.017	< 0.018
Hexachloroethane	0.2	100	< 0.017	< 0.016	< 0.11	< 0.016	< 0.016
Indeno(1,2,3-cd)pyrene	5	500	< 0.039	< 0.035	< 0.24	< 0.035	< 0.036
Isophrone	0.2	50	< 0.014	< 0.012	< 0.083	< 0.012	< 0.012
Naphthalene	16	100	0.0903	0.135	< 0.058	< 0.0084	< 0.0087
Nitrobenzene	0.2	50	< 0.014	< 0.013	< 0.087	< 0.013	< 0.013
N-Nitroso-di-n-Propylamine	0.2	10	< 0.014	< 0.013	< 0.088	< 0.013	< 0.013
N-Nitrosodiphenylamine	0.2	1000	< 0.0092	< 0.0083	< 0.057	< 0.0082	< 0.0085
Pentachlorophenol	0.3	100	< 0.044	< 0.039	< 0.27	< 0.039	< 0.041
Phenanthrene	NS	NS	0.037 J	< 0.0094	0.106 J	< 0.0093	< 0.0097
Phenol	5	50	< 0.039	< 0.035	< 0.24	< 0.035	< 0.036
Pyrene	550	100	< 0.015	< 0.013	0.112 J	< 0.013	< 0.013
Total TIC, Semi-Volatile	NS	NS	21.9 J	5.57 J	23.9 J	1.67 J	0
Pesticides / Herbicides							
4,4-DDD	3	50	< 0.0004	< 0.00036	< 0.00042	< 0.00036	< 0.00037
4,4-DDE	12	50	< 0.00041	< 0.00037	< 0.00044	< 0.00037	< 0.00038
4,4-DDT	7	500	< 0.00051	< 0.00046	< 0.00054	< 0.00046	< 0.00047
Aldrin	0.1	50	< 0.00037	< 0.00033	< 0.00039	< 0.00033	< 0.00034
alpha-BHC	0.002	NS	< 0.00031	< 0.00028	< 0.00032	< 0.00028	< 0.00029
alpha-Chlordane	0.03	NS	< 0.00045	< 0.0004	< 0.00047	< 0.00041	< 0.00042
beta-BHC	0.002	NS	< 0.00036	< 0.00032	< 0.00038	< 0.00033	< 0.00033
Chlordane	0.03	NS	NA	NA	NA	NA	NA
delta-BHC	NS	NS	< 0.00061	< 0.00055	< 0.00065	< 0.00056	< 0.00057
Dieldrin	0.003	50	< 0.00042	< 0.00038	< 0.00044	< 0.00038	< 0.00039
Endosulfan I (alpha)	2	NS	< 0.00045	< 0.0004	< 0.00047	< 0.0004	< 0.00041
Endosulfan II (beta)	2	NS	< 0.00044	< 0.0004	< 0.00046	< 0.0004	< 0.00041
Endosulfan sulfate	1	NS	< 0.00045	< 0.00041	< 0.00048	< 0.00041	< 0.00042
Endrin	0.6	50	< 0.00042	< 0.00037	< 0.00044	< 0.00038	< 0.00038
Endrin Aldehyde	NS	NS	< 0.00039	< 0.00035	< 0.00041	< 0.00036	< 0.00036
Endrin ketone	NS	NS	< 0.00046	< 0.00041	< 0.00048	< 0.00041	< 0.00042
gamma-Chlordane	0.03	NS	< 0.00045	< 0.0004	< 0.00047	< 0.00041	< 0.00041
Heptachlor	0.3	50	< 0.00043	< 0.00039	< 0.00046	< 0.00039	< 0.0004
Heptachlor epoxide	0.009	NS	< 0.00046	< 0.00041	< 0.00048	< 0.00042	< 0.00043
Lindane	0.002	50	< 0.00034	< 0.0003	< 0.00035	< 0.0003	< 0.00031
Methoxychlor	100	50	< 0.00055	< 0.0005	< 0.00058	< 0.0005	< 0.00051
Toxaphene	0.2	50	< 0.0079	< 0.0071	< 0.0083	< 0.0072	< 0.0073

Footnote on last page

R2-0005255

Table 4 Comparisson of Soil Analytical Results to the IGW Soil Cleanup Criteria and the 2008 Impact to Groundwater Default Soil Screening Levels, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location			CMI-S5				
Sample Name			CMI-S5(5-5.5)	CMI-S5(14-14.5)	CMI-S5(26.5-27)	CMI-S5(35-35.5)	CMI-S5(45.5-46)
Sample Date	NJ Default Impact to Groundwater Soil Screening (NJAC 7:26D 12/08)	NJ Impact to Groundwater Soil Criteria (NJAC 7:26D 5/99)	12/7/2007	12/7/2007	12/7/2007	12/7/2007	12/10/2007
Validation Status			Final	Final	Final	Final	Final
PCBs							
PCB 1016	0.2	50	< 0.0079	< 0.0071	< 0.0083	< 0.0072	< 0.0073
PCB 1221	0.2	50	< 0.025	< 0.022	< 0.026	< 0.023	< 0.023
PCB 1232	0.2	50	< 0.023	< 0.02	< 0.024	< 0.02	< 0.021
PCB 1242	0.2	50	0.0931	< 0.012	< 0.014	< 0.012	< 0.012
PCB 1248	0.2	50	< 0.014	< 0.013	< 0.015	< 0.013	< 0.013
PCB 1254	0.2	50	< 0.02	< 0.018	< 0.021	< 0.018	< 0.018
PCB 1260	0.2	50	< 0.0084	< 0.0075	< 0.0088	< 0.0076	< 0.0078
Total PCBs	0.2	50	0.0931	0	0	0	0
Metals - Total							
Aluminum	3900	NS	**8010**	**15600**	**14600**	**21000**	**12100 J**
Antimony	6	NS	1.5 BJ	< 0.71 J	**6.2 J**	< 0.7 J	**6.9 J**
Arsenic	19	NS	2.9	6.7	5.8	6.9	12.3
Barium	1300	NS	31.7	42.4	225	70.2	374
Beryllium	0.5	NS	0.28 B	0.5 B	0.44 B	**0.77**	0.41 B
Cadmium	1	NS	0.11 B	< 0.065	**10.1**	**28.3**	**6.9**
Calcium	NS	NS	2300	1080	5790	2210	12400 J
Chromium	NS	NS	27.7	23.8	72.2	27	32.8
Cobalt	59	NS	6.1 BJ	9.5 J	24.2 J	8.6 J	8.9
Copper	7300	NS	39.9	32.1	93.5	24.3	246
Iron	NS	NS	26300 J	24600 J	60200 J	48200 J	72900
Lead	59	NS	39.4	16.9	**474**	39.3	**622**
Magnesium	NS	NS	4470	4040	6140	3930	3450
Manganese	42	NS	**182**	**541**	**643**	**468**	**605 J**
Mercury	0.1	NS	< 0.026	0.036	**0.35**	< 0.024	0.024 B
Nickel	31	NS	23.9	18	**33.3**	21.4	**34.3**
Potassium	NS	NS	784 B	1090 B	1400	2100	1890
Selenium	7	NS	< 1.4	< 1.2	2.2 B	< 1.2	2.7 J
Silver	1	NS	0.44 B	< 0.24	< 0.3	< 0.24	< 0.26 J
Sodium	NS	NS	174 B	217 B	659 B	296 B	2060
Thallium	3	NS	< 0.96	< 0.81	< 1	< 0.8	**3.4 B**
Vanadium	NS	NS	28.5 J	40.8 J	49.7 J	44.5 J	81.3
Zinc	600	NS	79.6	109	**17100**	132	**1090 J**
Other	NS	NS					
Solids, Percent	NS	NS	79.5	88.1	74.7	88.6	86.1

Footnote on last page

R2-0005256

Table 4 Comparisson of Soil Analytical Results to the IGW Soil Cleanup Criteria and the 2008 Impact to Groundwater Default Soil Screening Levels, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location			CMI-S6					
Sample Name			CMI-S6(5.5-6.0)	CMI-S6(20.5-21)	CMI-S6(36.5-37)	CMI-S6(41.5-42)	CMI-S6(49.5-50)	CMI-S6(61.5-62)
Sample Date	NJ Default Impact to Groundwater Soil Screening (NJAC 7:26D 12/08)	NJ Impact to Groundwater Soil Criteria (NJAC 7:26D 5/99)	12/10/2007	12/10/2007	12/10/2007	12/10/2007	12/11/2007	12/11/2007
Validation Status			Final	Final	Final	Final	Final	Final
VOC								
1,1,1-Trichloroethane	0.2	50	< 0.00036	< 0.00034	< 0.00044	< 0.00042	< 0.00033	< 0.00033
1,1,2,2-Tetrachloroethane	0.005	1	< 0.00028	< 0.00026	< 0.00034	< 0.00033	< 0.00026	< 0.00025
1,1,2-Trichloroethane	0.01	1	< 0.00028	< 0.00026	< 0.00034	< 0.00033	< 0.00026	< 0.00025
1,1-Dichloroethane	0.2	10	< 0.00066	< 0.00062	< 0.0008	< 0.00077	< 0.0006	< 0.0006
1,1-Dichloroethene	0.005	10	< 0.00044	< 0.00042	< 0.00054	< 0.00052	< 0.0004	< 0.0004
1,2,4-Trichlorobenzene	0.4	100	< 0.00034	< 0.00032	< 0.00041	< 0.00039	< 0.00031	< 0.00031
1,2-Dibromo-3-Chloropropane (DBCP)	0.005	NS	< 0.0009	< 0.00084	< 0.0011	< 0.001	< 0.00082	< 0.00081
1,2-Dibromoethane	0.005	NS	< 0.00028	< 0.00026	< 0.00034	< 0.00033	< 0.00025	< 0.00025
1,2-Dichlorobenzene	11	50	< 0.00027	< 0.00025	< 0.00032	< 0.00031	< 0.00024	< 0.00024
1,2-Dichloroethane	0.005	1	< 0.00023	< 0.00021	< 0.00027	< 0.00026	< 0.00021	< 0.00021
1,2-Dichloropropane	0.005	NS	< 0.00039	< 0.00037	< 0.00048	< 0.00046	< 0.00036	< 0.00036
1,3-Dichlorobenzene	12	100	< 0.00035	< 0.00033	< 0.00043	< 0.00041	< 0.00032	< 0.00032
1,4-Dichlorobenzene	1	100	< 0.00029	0.0049	< 0.00035	< 0.00033	< 0.00026	< 0.00026
2-Butanone (MEK)	0.6	50	< 0.0027	< 0.0025	< 0.0033	< 0.0031	< 0.0025	< 0.0025
2-Hexanone	NS	NS	< 0.0017	< 0.0015	< 0.002	< 0.0019	< 0.0015	< 0.0015
4-methyl-2-pentanone (MIBK)	NS	50	< 0.0019	< 0.0018	< 0.0023	< 0.0022	< 0.0017	< 0.0017
Acetone	12	100	0.0163	0.0266	< 0.0048	< 0.0046	< 0.0036	0.0116
Benzene	0.005	1	< 0.00069	0.0011	< 0.00084	< 0.00081	< 0.00063	< 0.00063
Bromodichloromethane	0.005	1	< 0.00024	< 0.00022	< 0.00029	< 0.00028	< 0.00022	< 0.00022
Bromoform	0.02	1	< 0.00078	< 0.00073	< 0.00095	< 0.00091	< 0.00071	< 0.00071
Bromomethane	0.03	1	< 0.00047	< 0.00044	< 0.00057	< 0.00054	< 0.00042	< 0.00042
Carbon disulfide	4	NS	< 0.00028	< 0.00026	< 0.00034	< 0.00032	< 0.00025	0.0025 J
Carbon tetrachloride	0.005	1	< 0.00024	< 0.00022	< 0.00029	< 0.00028	< 0.00022	< 0.00022
Chlorobenzene	0.4	1	0.0043 J	0.0713	0.0023 J	< 0.00062	< 0.00049	< 0.00049
Chloroethane	NS	NS	< 0.0005	< 0.00046	< 0.0006	< 0.00058	< 0.00045	< 0.00045
Chloroform	0.2	1	< 0.00038	< 0.00035	< 0.00046	0.00097 J	< 0.00035	< 0.00034
Chloromethane	NS	10	< 0.0005	< 0.00047	< 0.00061	< 0.00059	< 0.00046	< 0.00046
cis-1,2-Dichloroethene	0.2	1	< 0.00018	< 0.00017	< 0.00022	< 0.00021	< 0.00017	< 0.00017
cis-1,3-Dichloropropene	0.005	1	< 0.00048	< 0.00045	< 0.00058	< 0.00056	< 0.00044	< 0.00044
Cyclohexane	NS	NS	< 0.00038	< 0.00035	0.0031 J	< 0.00044	< 0.00034	< 0.00034
Dibromochloromethane	0.005	1	< 0.0002	< 0.00019	< 0.00024	< 0.00023	< 0.00018	< 0.00018
Dichlorodifluoromethane	25	NS	< 0.00039	< 0.00036	< 0.00047	< 0.00045	< 0.00035	< 0.00035
Ethylbenzene	8	100	< 0.00046	0.00082 J	0.0024	< 0.00054	< 0.00042	< 0.00042
Freon 113	NS	NS	< 0.00036	< 0.00033	< 0.00043	< 0.00041	< 0.00032	< 0.00032
Isopropylbenzene	NS	NS	< 0.00029	0.0022 J	0.0017 J	< 0.00033	< 0.00026	< 0.00026
Methyl acetate	14	NS	< 0.003	< 0.0028	< 0.0036	< 0.0035	< 0.0027	< 0.0027
Methyl tert butyl ether	0.2	NS	< 0.0006	< 0.00056	< 0.00073	< 0.0007	< 0.00055	< 0.00055
Methylcyclohexane	NS	NS	< 0.00048	< 0.00045	0.0051 J	< 0.00056	< 0.00044	< 0.00044
Methylene chloride	0.007	1	< 0.00045	< 0.00042	< 0.00055	0.0017 J	< 0.00041	< 0.00041
o-Xylene	NS	NS	< 0.00025	0.00053 J	0.0012	< 0.00029	< 0.00023	< 0.00022
Styrene	2	100	< 0.00022	< 0.0002	< 0.00026	< 0.00025	< 0.0002	< 0.0002
Tetrachloroethene	0.005	1	< 0.00032	< 0.0003	< 0.00039	< 0.00037	< 0.00029	< 0.00029
Toluene	4	500	< 0.0004	< 0.00038	< 0.00049	< 0.00047	< 0.00037	< 0.00036
Trans-1,2-dichloroethene	0.4	50	< 0.00053	< 0.0005	< 0.00064	< 0.00062	< 0.00048	< 0.00048
trans-1,3-Dichloropropene	0.005	1	< 0.00077	< 0.00072	< 0.00094	< 0.0009	< 0.0007	< 0.0007
Trichloroethene	0.007	1	< 0.00031	< 0.00029	< 0.00038	< 0.00036	< 0.00028	< 0.00028
Trichlorofluoromethane	22	NS	< 0.00045	< 0.00042	< 0.00055	< 0.00052	< 0.00041	< 0.00041
Vinyl Chloride	0.005	10	< 0.00053	< 0.0005	< 0.00065	< 0.00062	< 0.00048	< 0.00048
Xylene, -m,p	NS	NS	< 0.00047	0.0043	0.0133	< 0.00054	< 0.00043	< 0.00042
Xylenes	12	67	< 0.00025	0.0048	0.0146	< 0.00029	< 0.00023	< 0.00022
Total TIC, Volatile	NS	NS	0.019 J	0.017 J	0.444 J	0	0.0754 J	0

Footnote on last page

Table 4 Comparisson of Soil Analytical Results to the IGW Soil Cleanup Criteria and the 2008 Impact to Groundwater Default Soil Screening Levels, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location			CMI-S6					
Sample Name			CMI-S6(5.5-6.0)	CMI-S6(20.5-21)	CMI-S6(36.5-37)	CMI-S6(41.5-42)	CMI-S6(49.5-50)	CMI-S6(61.5-62)
Sample Date	NJ Default Impact to Groundwater Soil Screening (NJAC 7:26D 12/08)	NJ Impact to Groundwater Soil Criteria (NJAC 7:26D 5/99)	12/10/2007	12/10/2007	12/10/2007	12/10/2007	12/11/2007	12/11/2007
Validation Status			Final	Final	Final	Final	Final	Final
SVOC								
1,1'-Biphenyl	90	NS	< 0.011	< 0.011	< 0.011	< 0.011	< 0.01	< 0.0098
2,4,5-Trichlorophenol	44	50	< 0.079	< 0.074	< 0.079	< 0.079	< 0.072	< 0.069
2,4,6-Trichlorophenol	0.2	10	< 0.084	< 0.079	< 0.084	< 0.084	< 0.077	< 0.073
2,4-Dichlorophenol	0.2	10	< 0.043	< 0.04	< 0.043	< 0.043	< 0.04	< 0.038
2,4-Dimethylphenol	0.7	10	< 0.051	< 0.047	< 0.051	< 0.051	< 0.046	< 0.044
2,4-Dinitrophenol	0.3	10	< 0.046	< 0.043	< 0.046	< 0.046	< 0.042	< 0.04
2,4-Dinitrotoluene	NS	10	< 0.014	< 0.013	< 0.013	< 0.014	< 0.012	< 0.012
2,6-Dinitrotoluene	NS	10	< 0.017	< 0.016	< 0.017	< 0.017	< 0.015	< 0.014
2-Chloronaphthalene	NS	NS	< 0.013	< 0.012	< 0.013	< 0.013	< 0.011	< 0.011
2-Chlorophenol	0.5	10	< 0.027	< 0.025	< 0.026	< 0.027	< 0.024	< 0.023
2-Methylnaphthalene	5	NS	< 0.037	< 0.035	< 0.037	< 0.038	< 0.034	< 0.032
2-Methylphenol	NS	NS	< 0.04	< 0.038	< 0.04	< 0.04	< 0.037	< 0.035
2-Nitroaniline	NS	NS	< 0.027	< 0.025	< 0.026	< 0.027	< 0.024	< 0.023
2-Nitrophenol	NS	NS	< 0.048	< 0.045	< 0.048	< 0.048	< 0.044	< 0.042
3&4-Methylphenol	NS	NS	< 0.052	< 0.048	< 0.051	< 0.052	< 0.047	< 0.045
3,3'-Dichlorobenzidine	0.2	100	< 0.03	< 0.028	< 0.03	< 0.03	< 0.028	< 0.026
3-Nitroaniline	NS	NS	< 0.028	< 0.026	< 0.028	< 0.028	< 0.025	< 0.024
4,6-Dinitro-2-methylphenol	0.3	NS	< 0.076	< 0.071	< 0.076	< 0.077	< 0.07	< 0.066
4-Bromophenyl phenyl ether	NS	NS	< 0.018	< 0.017	< 0.018	< 0.018	< 0.017	< 0.016
4-Chloro-3-Methylphenol	NS	100	< 0.057	< 0.053	< 0.056	< 0.057	< 0.052	< 0.049
4-Chloroaniline	NS	NS	< 0.015	< 0.014	< 0.015	< 0.015	< 0.014	< 0.013
4-Chlorophenyl phenyl ether	NS	NS	< 0.012	< 0.011	< 0.012	< 0.012	< 0.011	< 0.01
4-Nitroaniline	NS	NS	< 0.024	< 0.022	< 0.024	< 0.024	< 0.022	< 0.021
4-Nitrophenol	NS	NS	< 0.074	< 0.068	< 0.073	< 0.074	< 0.067	< 0.063
Acenaphthene	74	100	< 0.013	< 0.012	0.0165 J	< 0.013	< 0.012	< 0.011
Acenaphthylene	NS	NS	< 0.0085	< 0.0079	< 0.0084	< 0.0085	< 0.0077	< 0.0073
Acetophenone	2	NS	< 0.013	< 0.012	< 0.013	< 0.013	< 0.012	< 0.011
Anthracene	1500	100	0.0462 J	< 0.036	< 0.038	< 0.039	< 0.035	< 0.033
Atrazine	0.2	NS	< 0.024	< 0.022	< 0.024	< 0.024	< 0.022	< 0.021
Benzaldehyde	NS	NS	< 0.0079 R	< 0.0074 R	< 0.0078 R	< 0.0079 R	< 0.0072 R	< 0.0068 R
Benzo(a)anthracene	0.5	500	0.0609 J	< 0.0081	0.0233 J	< 0.0087	< 0.0079	< 0.0075
Benzo(a)pyrene	0.2	100	0.0476 J	< 0.019	< 0.02	< 0.021	< 0.019	< 0.018
Benzo(b)fluoranthene	2	50	0.0534 J	< 0.013	< 0.014	< 0.014	< 0.012	< 0.012
Benzo(g,h,i)perylene	NS	NS	0.0381 J	< 0.016	< 0.017	< 0.017	< 0.015	< 0.014
Benzo(k)fluoranthene	16	500	0.0508 J	< 0.017	< 0.018	< 0.018	< 0.016	< 0.016
Benzyl butyl phthalate	150	100	0.0478 J	0.0545 J	< 0.015	< 0.015	< 0.014	< 0.013
bis(2-Chloroethoxy)methane	NS	NS	< 0.016	< 0.015	< 0.016	< 0.016	< 0.015	< 0.014
bis(2-Chloroethyl)ether	0.2	10	< 0.019	< 0.018	< 0.019	< 0.019	< 0.017	< 0.017
bis(2-Chloroisopropyl)ether	3	10	< 0.024	< 0.023	< 0.024	< 0.024	< 0.022	< 0.021
bis(2-Ethylhexyl)phthalate	790	100	0.221	1.08	1.51	< 0.025	0.142	< 0.022
Caprolactam	8	NS	< 0.022	< 0.021	< 0.022	< 0.022	< 0.02	< 0.019
Carbazole	NS	NS	0.0639 J	< 0.013	< 0.014	< 0.014	< 0.013	< 0.012
Chrysene	52	500	0.0627 J	< 0.016	0.023 J	< 0.017	< 0.015	< 0.015
Dibenzo(a,h)anthracene	0.5	100	0.0309 J	< 0.01	< 0.011	< 0.011	< 0.0098	< 0.0093
Dibenzofuran	NS	NS	< 0.0082	< 0.0077	0.0137 J	< 0.0082	< 0.0075	< 0.0071
Diethyl phthalate	57	50	< 0.015	< 0.014	< 0.015	< 0.015	< 0.013	< 0.013

Footnote on last page

R2-0005258

Table 4 Comparisson of Soil Analytical Results to the IGW Soil Cleanup Criteria and the 2008 Impact to Groundwater Default Soil Screening Levels, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location			CMI-S6					
Sample Name			CMI-S6(5.5-6.0)	CMI-S6(20.5-21)	CMI-S6(36.5-37)	CMI-S6(41.5-42)	CMI-S6(49.5-50)	CMI-S6(61.5-62)
Sample Date	NJ Default Impact to Groundwater Soil Screening (NJAC 7:26D 12/08)	NJ Impact to Groundwater Soil Criteria (NJAC 7:26D 5/99)	12/10/2007	12/10/2007	12/10/2007	12/10/2007	12/11/2007	12/11/2007
Validation Status			Final	Final	Final	Final	Final	Final
SVOCs continued								
Dimethyl phthalate	NS	50	< 0.011	< 0.011	< 0.011	< 0.011	< 0.01	< 0.0098
di-n-butyl phthalate	620	100	0.0861	< 0.011	< 0.012	< 0.012	< 0.011	< 0.01
di-n-octylphthalate	3300	100	< 0.017	< 0.016	< 0.017	< 0.017	< 0.016	< 0.015
Fluoranthene	840	100	0.065 J	0.0133 J	0.0551 J	< 0.0078	< 0.0071	< 0.0067
Fluorene	110	100	< 0.0084	< 0.0079	0.0236 J	< 0.0084	< 0.0077	< 0.0073
Hexachlorobenzene	0.2	100	< 0.02	< 0.019	< 0.02	< 0.02	< 0.018	< 0.017
Hexachlorobutadiene	0.6	100	< 0.019	< 0.018	< 0.019	< 0.019	< 0.018	< 0.017
Hexachlorocyclopentadiene	210	100	< 0.019	< 0.018	< 0.019	< 0.019	< 0.018	< 0.017
Hexachloroethane	0.2	100	< 0.017	< 0.016	< 0.017	< 0.017	< 0.016	< 0.015
Indeno(1,2,3-cd)pyrene	5	500	< 0.039	< 0.036	< 0.039	< 0.039	< 0.035	< 0.034
Isophrone	0.2	50	< 0.013	< 0.013	< 0.013	< 0.013	< 0.012	< 0.012
Naphthalene	16	100	0.0353 J	0.013 J	0.0148 J	< 0.0094	< 0.0086	< 0.0082
Nitrobenzene	0.2	50	< 0.014	< 0.013	< 0.014	< 0.014	< 0.013	< 0.012
N-Nitroso-di-n-Propylamine	0.2	10	< 0.014	< 0.013	< 0.014	< 0.014	< 0.013	< 0.012
N-Nitrosodiphenylamine	0.2	1000	< 0.0092	< 0.0086	< 0.0091	< 0.0092	< 0.0084	< 0.0079
Pentachlorophenol	0.3	100	< 0.044	< 0.041	< 0.044	< 0.044	< 0.04	< 0.038
Phenanthrene	NS	NS	0.0461 J	< 0.0097	0.0869	< 0.01	< 0.0095	< 0.009
Phenol	5	50	< 0.039	< 0.036	< 0.039	< 0.039	< 0.036	< 0.034
Pyrene	550	100	0.0731 J	0.0196 J	0.0571 J	< 0.015	< 0.013	< 0.013
Total TIC, Semi-Volatile	NS	NS	23.72 J	4.23 J	0.91 J	2.76 J	1.3 J	0
Pesticides / Herbicides								
4,4-DDD	3	50	0.0031	< 0.00038	< 0.0004	< 0.0004	< 0.00036	< 0.00034
4,4-DDE	12	50	0.0046	< 0.00039	< 0.00041	< 0.00041	< 0.00037	< 0.00036
4,4-DDT	7	500	< 0.00051	< 0.00048	< 0.0005	< 0.00051	< 0.00046	< 0.00044
Aldrin	0.1	50	< 0.00037	< 0.00034	< 0.00036	< 0.00037	< 0.00033	< 0.00032
alpha-BHC	0.002	NS	< 0.00031	< 0.00029	< 0.00031	< 0.00031	< 0.00028	< 0.00027
alpha-Chlordane	0.03	NS	< 0.00045	0.0039	< 0.00044	< 0.00045	< 0.00041	< 0.00039
beta-BHC	0.002	NS	< 0.00036	< 0.00034	< 0.00036	< 0.00036	< 0.00033	< 0.00031
Chlordane	0.03	NS	NA	NA	NA	NA	NA	NA
delta-BHC	NS	NS	< 0.00062	< 0.00058	< 0.00061	< 0.00061	< 0.00055	< 0.00053
Dieldrin	0.003	50	< 0.00042	**0.004 J**	< 0.00042	< 0.00042	< 0.00038	< 0.00036
Endosulfan I (alpha)	2	NS	< 0.00045	< 0.00042	< 0.00044	< 0.00045	< 0.0004	< 0.00038
Endosulfan II (beta)	2	NS	< 0.00044	< 0.00041	< 0.00044	< 0.00044	< 0.0004	< 0.00038
Endosulfan sulfate	1	NS	< 0.00045	< 0.00042	< 0.00045	< 0.00045	< 0.00041	< 0.00039
Endrin	0.6	50	< 0.00042	< 0.00039	< 0.00041	< 0.00041	< 0.00037	< 0.00036
Endrin Aldehyde	NS	NS	< 0.00039	< 0.00037	< 0.00039	< 0.00039	< 0.00035	< 0.00034
Endrin ketone	NS	NS	< 0.00046	< 0.00043	< 0.00045	< 0.00046	< 0.00041	< 0.00039
gamma-Chlordane	0.03	NS	< 0.00045	0.0029 JN	< 0.00044	< 0.00045	< 0.0004	< 0.00039
Heptachlor	0.3	50	< 0.00044	< 0.00041	< 0.00043	< 0.00043	< 0.00039	< 0.00037
Heptachlor epoxide	0.009	NS	< 0.00046	< 0.00043	< 0.00045	< 0.00046	< 0.00041	< 0.0004
Lindane	0.002	50	< 0.00034	< 0.00031	< 0.00033	< 0.00033	< 0.0003	< 0.00029
Methoxychlor	100	50	< 0.00056 J	< 0.00052	< 0.00055 J	< 0.00055 J	< 0.0005	< 0.00048 J
Toxaphene	0.2	50	< 0.008	< 0.0074	< 0.0078	< 0.0079	< 0.0072	< 0.0068

Footnote on last page

R2-0005259

Table 4 Comparisson of Soil Analytical Results to the IGW Soil Cleanup Criteria and the 2008 Impact to Groundwater Default Soil Screening Levels, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location			CMI-S6					
Sample Name	NJ Default Impact to Groundwater Soil Screening (NJAC 7:26D 12/08)	NJ Impact to Groundwater Soil Criteria (NJAC 7:26D 5/99)	CMI-S6(5.5-6.0)	CMI-S6(20.5-21)	CMI-S6(36.5-37)	CMI-S6(41.5-42)	CMI-S6(49.5-50)	CMI-S6(61.5-62)
Sample Date			12/10/2007	12/10/2007	12/10/2007	12/10/2007	12/11/2007	12/11/2007
Validation Status			Final	Final	Final	Final	Final	Final
PCBs								
PCB 1016	0.2	50	< 0.0079	< 0.0074	< 0.0078	< 0.0079	< 0.0071	< 0.0068
PCB 1221	0.2	50	< 0.025	< 0.023	< 0.025	< 0.025	< 0.023	< 0.022
PCB 1232	0.2	50	< 0.023	< 0.021	< 0.022	< 0.023	< 0.02	< 0.019
PCB 1242	0.2	50	< 0.013	< 0.012	< 0.013	< 0.013	< 0.012	< 0.011
PCB 1248	0.2	50	< 0.014	< 0.014	< 0.014	< 0.014	< 0.013	< 0.012
PCB 1254	0.2	50	< 0.02	< 0.019	< 0.019	< 0.02	< 0.018	< 0.017
PCB 1260	0.2	50	< 0.0084	< 0.0079	< 0.0083	< 0.0084	< 0.0076	< 0.0072
Total PCBs	0.2	50	0	0	0	0	0	0
Metals - Total								
Aluminum	3900	NS	**17000 J**	**9590 J**	**18200 J**	**5310 J**	**9610**	**10800**
Antimony	6	NS	< 0.78 R	< 0.76 R	**185 J**	**30.5 J**	**6.5 J**	1 BJ
Arsenic	19	NS	2.4 J	1.4 BJ	**56.7**	16.8	8	1.9 B
Barium	1300	NS	46.7	33	276	1240	204 J	67.4 J
Beryllium	0.5	NS	**0.68**	0.36 B	**0.66**	0.38 B	0.36 R	0.12 R
Cadmium	1	NS	< 0.072	< 0.07	**8**	**10.1**	**5.7**	**1.2**
Calcium	NS	NS	1370 J	1500 J	4070 J	17500 J	4800	7070
Chromium	NS	NS	23	21.7	59.2	275	32.7	33.5
Cobalt	59	NS	8.1	9	17.5	18.4	14.9	19
Copper	7300	NS	33.4	29	49.8	273	240 J	13.4 J
Iron	NS	NS	24800	19900	35000	147000	60800 J	34100 J
Lead	59	NS	6.9	5.4	**9030**	**5660 R**	**391**	5.6
Magnesium	NS	NS	3240	3080	5540	5560	9130 J	15800 J
Manganese	42	NS	**227 J**	**482 J**	**464 J**	**878 J**	**485 J**	**427 J**
Mercury	0.1	NS	0.079	< 0.024	< 0.026	< 0.026	< 0.023	< 0.023
Nickel	31	NS	16	14.5	23.5	**68.9**	**44**	28.5
Potassium	NS	NS	949 B	1160 B	2700	755 B	2870	4850
Selenium	7	NS	< 1.3 J	< 1.3 J	1.8 B	< 3 J	5.3	2.8 J
Silver	1	NS	< 0.27 J	< 0.26 J	0.43 B	**3.6**	**1.1**	< 0.23
Sodium	NS	NS	222 BJ	< 110	927 B	738 B	1740	1390
Thallium	3	NS	< 0.89 J	< 0.87 J	< 0.93 J	< 1 J	< 0.84	0.81 BJ
Vanadium	NS	NS	57.1	42.6	53.5	38	38.3	81.4
Zinc	600	NS	46.5 J	25.9 J	**3880 J**	**8700 J**	**1470**	85.9
Other	NS	NS						
Solids, Percent	NS	NS	79.8	85.4	80	79.2	87.7	92.1

Footnote on last page

Table 4 Comparisson of Soil Analytical Results to the IGW Soil Cleanup Criteria and the 2008 Impact to Groundwater Default Soil Screening Levels, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location			Field Blank	Trip Blanks			
Sample Name			FB(071206)	TRIP BLANK-071206	TRIP BLANK-071210	TRIP BLANK-071211	TRIP BLANK-071212
Sample Date	NJ Default Impact to Groundwater Soil Screening (NJAC 7:26D 12/08)	NJ Impact to Groundwater Soil Criteria (NJAC 7:26D 5/99)	12/6/2007	12/7/2007	12/10/2007	12/11/2007	12/13/2007
Validation Status			Final	Final	Final	Final	Final
VOC							
1,1,1-Trichloroethane	0.2	50	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1,2,2-Tetrachloroethane	0.005	1	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
1,1,2-Trichloroethane	0.01	1	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49
1,1-Dichloroethane	0.2	10	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1-Dichloroethene	0.005	10	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
1,2,4-Trichlorobenzene	0.4	100	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41
1,2-Dibromo-3-Chloropropane (DBCP)	0.005	NS	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
1,2-Dibromoethane	0.005	NS	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45
1,2-Dichlorobenzene	11	50	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-Dichloroethane	0.005	1	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29
1,2-Dichloropropane	0.005	NS	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
1,3-Dichlorobenzene	12	100	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
1,4-Dichlorobenzene	1	100	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
2-Butanone (MEK)	0.6	50	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7
2-Hexanone	NS	NS	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94
4-methyl-2-pentanone (MIBK)	NS	50	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
Acetone	12	100	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9
Benzene	0.005	1	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Bromodichloromethane	0.005	1	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Bromoform	0.02	1	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
Bromomethane	0.03	1	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
Carbon disulfide	4	NS	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
Carbon tetrachloride	0.005	1	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Chlorobenzene	0.4	1	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Chloroethane	NS	NS	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67
Chloroform	0.2	1	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Chloromethane	NS	10	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
cis-1,2-Dichloroethene	0.2	1	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27
cis-1,3-Dichloropropene	0.005	1	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
Cyclohexane	NS	NS	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85
Dibromochloromethane	0.005	1	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
Dichlorodifluoromethane	25	NS	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	8	100	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Freon 113	NS	NS	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Isopropylbenzene	NS	NS	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54
Methyl acetate	14	NS	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6
Methyl tert butyl ether	0.2	NS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Methylcyclohexane	NS	NS	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Methylene chloride	0.007	1	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
o-Xylene	NS	NS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Styrene	2	100	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Tetrachloroethene	0.005	1	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
Toluene	4	500	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Trans-1,2-dichloroethene	0.4	50	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
trans-1,3-Dichloropropene	0.005	1	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Trichloroethene	0.007	1	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
Trichlorofluoromethane	22	NS	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
Vinyl Chloride	0.005	10	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Xylene, -m,p	NS	NS	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
Xylenes	12	67	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Total TIC, Volatile	NS	NS	0	0	0	0	0

Footnote on last page

Table 4 Comparisson of Soil Analytical Results to the IGW Soil Cleanup Criteria and the 2008 Impact to Groundwater Default Soil Screening Levels, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location			Field Blank	Trip Blanks			
Sample Name			FB(071206)	TRIP BLANK-071206	TRIP BLANK-071210	TRIP BLANK-071211	TRIP BLANK-071212
Sample Date	NJ Default Impact to Groundwater Soil Screening (NJAC 7:26D 12/08)	NJ Impact to Groundwater Soil Criteria (NJAC 7:26D 5/99)	12/6/2007	12/7/2007	12/10/2007	12/11/2007	12/13/2007
Validation Status			Final	Final	Final	Final	Final
SVOC							
1,1'-Biphenyl	90	NS	< 0.25	NA	NA	NA	NA
2,4,5-Trichlorophenol	44	50	< 1.3	NA	NA	NA	NA
2,4,6-Trichlorophenol	0.2	10	< 1.2	NA	NA	NA	NA
2,4-Dichlorophenol	0.2	10	< 1.6	NA	NA	NA	NA
2,4-Dimethylphenol	0.7	10	< 1.9	NA	NA	NA	NA
2,4-Dinitrophenol	0.3	10	< 1.3	NA	NA	NA	NA
2,4-Dinitrotoluene	NS	10	< 0.63	NA	NA	NA	NA
2,6-Dinitrotoluene	NS	10	< 0.58	NA	NA	NA	NA
2-Chloronaphthalene	NS	NS	< 0.23	NA	NA	NA	NA
2-Chlorophenol	0.5	10	< 1	NA	NA	NA	NA
2-Methylnaphthalene	5	NS	< 0.88	NA	NA	NA	NA
2-Methylphenol	NS	NS	< 1.2	NA	NA	NA	NA
2-Nitroaniline	NS	NS	< 0.57	NA	NA	NA	NA
2-Nitrophenol	NS	NS	< 1.7	NA	NA	NA	NA
3&4-Methylphenol	NS	NS	< 1.3	NA	NA	NA	NA
3,3'-Dichlorobenzidine	0.2	100	< 1.1	NA	NA	NA	NA
3-Nitroaniline	NS	NS	< 0.37	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	0.3	NS	< 2.6	NA	NA	NA	NA
4-Bromophenyl phenyl ether	NS	NS	< 0.43	NA	NA	NA	NA
4-Chloro-3-Methylphenol	NS	100	< 1.4	NA	NA	NA	NA
4-Chloroaniline	NS	NS	< 0.4	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	NS	NS	< 0.33	NA	NA	NA	NA
4-Nitroaniline	NS	NS	< 0.68	NA	NA	NA	NA
4-Nitrophenol	NS	NS	< 1.8	NA	NA	NA	NA
Acenaphthene	74	100	< 0.29	NA	NA	NA	NA
Acenaphthylene	NS	NS	< 0.36	NA	NA	NA	NA
Acetophenone	2	NS	< 0.41	NA	NA	NA	NA
Anthracene	1500	100	< 0.38	NA	NA	NA	NA
Atrazine	0.2	NS	< 0.33	NA	NA	NA	NA
Benzaldehyde	NS	NS	< 0.87	NA	NA	NA	NA
Benzo(a)anthracene	0.5	500	< 0.4	NA	NA	NA	NA
Benzo(a)pyrene	0.2	100	< 0.89	NA	NA	NA	NA
Benzo(b)fluoranthene	2	50	< 0.86	NA	NA	NA	NA
Benzo(g,h,i)perylene	NS	NS	< 0.42	NA	NA	NA	NA
Benzo(k)fluoranthene	16	500	< 0.78	NA	NA	NA	NA
Benzyl butyl phthalate	150	100	< 0.73	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	NS	NS	< 0.37	NA	NA	NA	NA
bis(2-Chloroethyl)ether	0.2	10	< 0.77	NA	NA	NA	NA
bis(2-Chloroisopropyl)ether	3	10	< 0.66	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	790	100	< 1	NA	NA	NA	NA
Caprolactam	8	NS	< 0.57	NA	NA	NA	NA
Carbazole	NS	NS	< 0.46	NA	NA	NA	NA
Chrysene	52	500	< 0.51	NA	NA	NA	NA
Dibenzo(a,h)anthracene	0.5	100	< 0.56	NA	NA	NA	NA
Dibenzofuran	NS	NS	< 0.26	NA	NA	NA	NA
Diethyl phthalate	57	50	< 0.4	NA	NA	NA	NA

Footnote on last page

R2-0005262

Table 4 Comparisson of Soil Analytical Results to the IGW Soil Cleanup Criteria and the 2008 Impact to Groundwater Default Soil Screening Levels, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location			Field Blank	Trip Blanks			
Sample Name			FB(071206)	TRIP BLANK-071206	TRIP BLANK-071210	TRIP BLANK-071211	TRIP BLANK-071212
Sample Date	NJ Default Impact to Groundwater Soil Screening (NJAC 7:26D 12/08)	NJ Impact to Groundwater Soil Criteria (NJAC 7:26D 5/99)	12/6/2007	12/7/2007	12/10/2007	12/11/2007	12/13/2007
Validation Status			Final	Final	Final	Final	Final
SVOCs continued							
Dimethyl phthalate	NS	50	< 0.39	NA	NA	NA	NA
di-n-butyl phthalate	620	100	< 0.46	NA	NA	NA	NA
di-n-octylphthalate	3300	100	< 0.55	NA	NA	NA	NA
Fluoranthene	840	100	< 0.41	NA	NA	NA	NA
Fluorene	110	100	< 0.41	NA	NA	NA	NA
Hexachlorobenzene	0.2	100	< 0.35	NA	NA	NA	NA
Hexachlorobutadiene	0.6	100	< 0.15	NA	NA	NA	NA
Hexachlorocyclopentadiene	210	100	< 0.12	NA	NA	NA	NA
Hexachloroethane	0.2	100	< 0.19	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	5	500	< 0.91	NA	NA	NA	NA
Isophrone	0.2	50	< 0.56	NA	NA	NA	NA
Naphthalene	16	100	< 0.21	NA	NA	NA	NA
Nitrobenzene	0.2	50	< 0.81	NA	NA	NA	NA
N-Nitroso-di-n-Propylamine	0.2	10	< 0.44	NA	NA	NA	NA
N-Nitrosodiphenylamine	0.2	1000	< 0.48	NA	NA	NA	NA
Pentachlorophenol	0.3	100	< 1.1	NA	NA	NA	NA
Phenanthrene	NS	NS	< 0.32	NA	NA	NA	NA
Phenol	5	50	< 0.79	NA	NA	NA	NA
Pyrene	550	100	< 0.43	NA	NA	NA	NA
Total TIC, Semi-Volatile	NS	NS	30.9 J	NA	NA	NA	NA
Pesticides / Herbicides							
4,4-DDD	3	50	< 0.0027	NA	NA	NA	NA
4,4-DDE	12	50	< 0.0019	NA	NA	NA	NA
4,4-DDT	7	500	< 0.0055	NA	NA	NA	NA
Aldrin	0.1	50	< 0.0037	NA	NA	NA	NA
alpha-BHC	0.002	NS	< 0.0029	NA	NA	NA	NA
alpha-Chlordane	0.03	NS	< 0.0048	NA	NA	NA	NA
beta-BHC	0.002	NS	< 0.0069	NA	NA	NA	NA
Chlordane	0.03	NS	NA	NA	NA	NA	NA
delta-BHC	NS	NS	< 0.0034	NA	NA	NA	NA
Dieldrin	0.003	50	< 0.0019	NA	NA	NA	NA
Endosulfan I (alpha)	2	NS	< 0.0023	NA	NA	NA	NA
Endosulfan II (beta)	2	NS	< 0.0036	NA	NA	NA	NA
Endosulfan sulfate	1	NS	< 0.0051	NA	NA	NA	NA
Endrin	0.6	50	< 0.0033	NA	NA	NA	NA
Endrin Aldehyde	NS	NS	< 0.0072	NA	NA	NA	NA
Endrin ketone	NS	NS	< 0.0039	NA	NA	NA	NA
gamma-Chlordane	0.03	NS	< 0.0019	NA	NA	NA	NA
Heptachlor	0.3	50	< 0.0028	NA	NA	NA	NA
Heptachlor epoxide	0.009	NS	< 0.0016	NA	NA	NA	NA
Lindane	0.002	50	< 0.0019	NA	NA	NA	NA
Methoxychlor	100	50	< 0.0075	NA	NA	NA	NA
Toxaphene	0.2	50	< 0.1	NA	NA	NA	NA

Footnote on last page

R2-0005263

Table 4 Comparisson of Soil Analytical Results to the IGW Soil Cleanup Criteria and the 2008 Impact to Groundwater Default Soil Screening Levels, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location			Field Blank	Trip Blanks			
Sample Name			FB(071206)	TRIP BLANK-071206	TRIP BLANK-071210	TRIP BLANK-071211	TRIP BLANK-071212
Sample Date	NJ Default Impact to Groundwater Soil Screening (NJAC 7:26D 12/08)	NJ Impact to Groundwater Soil Criteria (NJAC 7:26D 5/99)	12/6/2007	12/7/2007	12/10/2007	12/11/2007	12/13/2007
Validation Status			Final	Final	Final	Final	Final
PCBs							
PCB 1016	0.2	50	< 0.1	NA	NA	NA	NA
PCB 1221	0.2	50	< 0.52	NA	NA	NA	NA
PCB 1232	0.2	50	< 0.43	NA	NA	NA	NA
PCB 1242	0.2	50	< 0.18	NA	NA	NA	NA
PCB 1248	0.2	50	< 0.17	NA	NA	NA	NA
PCB 1254	0.2	50	< 0.12	NA	NA	NA	NA
PCB 1260	0.2	50	< 0.13	NA	NA	NA	NA
Total PCBs	0.2	50	0	NA	NA	NA	NA
Metals - Total							
Aluminum	3900	NS	< 26	NA	NA	NA	NA
Antimony	6	NS	< 5.7	NA	NA	NA	NA
Arsenic	19	NS	< 6	NA	NA	NA	NA
Barium	1300	NS	< 2.9	NA	NA	NA	NA
Beryllium	0.5	NS	< 0.36	NA	NA	NA	NA
Cadmium	1	NS	< 0.5	NA	NA	NA	NA
Calcium	NS	NS	< 30	NA	NA	NA	NA
Chromium	NS	NS	< 9	NA	NA	NA	NA
Cobalt	59	NS	< 0.87	NA	NA	NA	NA
Copper	7300	NS	< 2.2	NA	NA	NA	NA
Iron	NS	NS	< 70 J	NA	NA	NA	NA
Lead	59	NS	< 3	NA	NA	NA	NA
Magnesium	NS	NS	< 25	NA	NA	NA	NA
Manganese	42	NS	< 1.5 J	NA	NA	NA	NA
Mercury	0.1	NS	< 0.15	NA	NA	NA	NA
Nickel	31	NS	< 4.2	NA	NA	NA	NA
Potassium	NS	NS	< 120	NA	NA	NA	NA
Selenium	7	NS	< 9.3	NA	NA	NA	NA
Silver	1	NS	< 2.6	NA	NA	NA	NA
Sodium	NS	NS	< 560	NA	NA	NA	NA
Thallium	3	NS	< 6	NA	NA	NA	NA
Vanadium	NS	NS	< 1.8	NA	NA	NA	NA
Zinc	600	NS	5.3 B	NA	NA	NA	NA
Other	NS	NS					
Solids, Percent	NS	NS	NA	NA	NA	NA	NA

Footnote on last page

R2-0005264

Table 5. Summary of Packer Testing Intervals for RW-8, RW-9, and RW-10

Well No.	Depth (feet)	Open Hole Interval (feet)	Sampling Depth fbgs (msl)
RW-8	219	3 to 219	42-62 (527-507) 158-178 (411-391) 199-219 (370-350)
RW-9	220	12 to 220	20-40 (540-521) 80-100 (482-463) 134-154 (430-411) 201-221 (365-346)
RW-10	220	3 to 220	46-66 (493-474) 70-90 (469-450) 115-135 (426-407) 180-200 (363-344)

Table 6: Summary of Well Construction Information, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

			Elevation Data		Location Data		Monitoring Well and Boring Data							
Well ID	Old Well ID	Month/Year of Installation	Ground Surface (ft msl)	Top of Protective Casing (ft msl)	Northing (ft)	Easting (ft)	Well Type	Diameter (inches)	Well Material	Open Hole or Screened Interval (ft bgs)	Total Depth (ft bgs)	Bottom Elevation (ft msl)	Depth to Bedrock (ft bgs)	Bedrock Elevation (ft msl)
OB-1	OB-1	Jul-84	542.6	544.4	39,190	7,294	BR	6	---	5 to 31	31	512	3	540
OB-2	OB-2	Jul-84	561.4	562.3	37,821	7,508	BR	6	---	8 to 42	42	519	4	557
OB-3	OB-3	Jul-84	495.6	496.5	37,840	7,275	BR	6	---	9 to 24	24	472	7	489
OB-4	OB-4	Jul-84	510.6	510.8	37,889	8,348	BR	6	---	28 to 61	61	450	25	486
OB-5	OB-5	Jul-84	457.9	458.8	37,607	8,634	BR	6	---	18 to 63	63	395	18 est.	440
OB-6	OB-6	Jul-84	605.0	607.3	39,828	8,053	BR	6	---	10 to 36	36	569	8	597
OB-7	OB-7	Jul-84	503.4	503.9	40,068	9,003	BR	6	---	14 to 42	42	461	11	492
OB-8	OB-8	Jul-84	572.5	574.3	43,461	8,737	UC	4	PVC	7 to 17	23	550	18 est.	555
OB-9*	OB-9*	Jul-84	507.6	508.6	41,191	9,759	UC	4	PVC	51 to 61	63	445	NE	---
OB-10	OB-10	Jul-84	349.7	352.0	39,683	12,200	UC	4	PVC	10 to 20	20	330	NE	---
RW-1	RW-1	Jul-84	549.0	550.4	39,232	7,351	BR	6	---	4 to 150	150	399	4	545
RW-2	RW-2	Jul-84	512.8	513.2	37,914	8,312	BR	6	---	14 to 503	503	10	6	507
OB-11*	OB-11*	Sep-84	529.6	530.3	42,601	9,614	UC	4	PVC	14 to 24	25	505	NE	---
RW-3	RW-3	Sep-84	528.2	529.3	42,644	9,760	BR	6	---	58 to 100	100	428	58	470
RW-4	RW-4	Sep-84	539.9	541.1	42,802	10,344	BR	6	---	60 to 543	543	-3	54	486
OB-12	OB-12	Mar-86	557.6	558.4	37,360	7,685	BR	6	---	9 to 40	40	518	6	552
OB-13	OB-13	Mar-86	499.1	500.4	37,180	8,195	BR	6	---	8 to 60	60	439	5	494
OB-14A	OB-14A	Mar-86	500.8	501.4	41,855	10,070	UC	4	SS	4 to 14	20	481	NE	---
OB-14B	OB-14B	Mar-86	503.1	504.1	41,830	10,045	UC	4	SS	25 to 35	40	463	NE	---
OB-15A**	OB-15A**	Mar-86	515.0	515.8	42,520	9,990	UC	4	SS	2 to 12	20	495	NE	---
OB-15B	OB-15B	Mar-86	514.7	516.0	42,525	9,999	UC	4	SS	25 to 35	40	475	NE	---
OB-16	OB-16	Nov-91	488.6	492.3	41,525	10,020	UC	4	SS	5 to 15	14.5	474	NE	---
OB-17	OB-17	Nov-91	486.8	490.3	41,327	10,009	UC	4	SS	3 to 13	13	474	NE	---
OB-18	OB-18	Nov-91	494.6	496.3	41,183	9,965	UC	4	SS	10 to 20	20	475	NE	---

See last page for notes.

Table 6: Summary of Well Construction Information, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

			Elevation Data		Location Data		Monitoring Well and Boring Data							
Well ID	Old Well ID	Month/Year of Installation	Ground Surface (ft msl)	Top of Protective Casing (ft msl)	Northing (ft)	Easting (ft)	Well Type	Diameter (inches)	Well Material	Open Hole or Screened Interval (ft bgs)	Total Depth (ft bgs)	Bottom Elevation (ft msl)	Depth to Bedrock (ft bgs)	Bedrock Elevation (ft msl)
OB-19	MW-19 OB	Mar-06	530.7	532.4	842,739	555,930	UC	2	PVC	5 to 20	24	506.7	NE	---
OB-20A	MW-20 OB	Mar-06	532.1	533.7	842,589	555,816	UC	2	PVC	5 to 20	22	510.1	NE	---
OB-20B	MW-20 OB-34	Mar-06	532.1	534.0	842,575	555,812	UC	2	PVC	24 to 34	35	497.1	NE	---
OB-21	MW-21 OB	Mar-06	537.7	539.5	842,790	555,570	UC	2	PVC	6 to 21	22	515.7	NE	---
RW-5	MW-19 BR	Mar-06	530.3	533.5	842,748	555,928	BR	6	S	38 to 120	120	410.3	28	502.3
RW-6	MW-20 BR	Mar-06	531.9	534.0	842,583	555,819	BR	6	S	47 to 120	120	411.9	36	495.9
RW-7	MW-21 BR	Mar-06	537.6	539.4	842,793	555,573	BR	6	S	32 to 120	120	417.6	22	515.6
OB-22[†]	OB-19	Oct-06	515.5	518.4	841,207	556,108	UC	2	PVC	10 to 20	20	495.5	NE	---
OB-23[†]	OB-20	Oct-06	512.8	515.7	841,571	556,225	UC	2	PVC	10 to 20	20	492.8	NE	---
OB-24[†]	OB-21	Oct-06	498.0	500.9	841,911	556,256	UC	2	PVC	5 to 15	15	483.0	NE	---
OB-25[†]	OB-22	Oct-06	524.4	527.3	841,978	555,959	UC	2	PVC	10 to 20	20	504.4	NE	---
OB-26[†]		Dec-07	542.3	545.2	843,530	557,437	UC	2	PVC	9 TO 24	24.5	517.8	21	521.3
SC-1[‡]	DB-1	Mar-06	531.03	532.53	842,621	555,819	SB	2	PVC	64.4 to70.9	70.9	435.03	144	387.03
SC-2	MW-1/CMI-S5	Dec-07	561.7	564.13	837,560	554,029	SB	2	PVC	47 to 67	67	494.7	NE	---
RW-5A		Sep-07	530.7	533.26	842,737	555,957	BR	2	PVC	54 to 74	75	456	30	500.7
RW-6A		Sep-07	531.81	534.32	842,586	555,835	BR	2	PVC	58 to 78	78.6	453	38	493.81
RW-8[§]		Dec-07	569.0	570.10	837,484	553,944	BR				219	350	3	566.0
RW-9[§]		Dec-07	560.4	561.87	837,531	554,180	BR				220	340	12	548.4
RW-10[§]		Dec-07	539.5	540.98	837258	554277	BR				220	320	3	536.5

See last page for notes.

Table 6: Summary of Well Construction Information, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Notes:

NE = not encountered.
BR = bedrock well.
UC = unconsolidated well.
PVC = polyvinyl chloride.
SB = Soil Boring
SS = stainless steel.
S = steel.
msl = mean sea level.
bgs = below ground surface.
est.- uncertain about bedrock depth and elevation.
* OB-9 was destroyed in October 1989 during land clearing and grading by a developer unrelated to remedial activities.
*OB-11 was destroyed during SR-3 Exacavation Work 2006
** OB-15A, which was screened across paint sludge, was decommissioned in 1987 during the paint sludge removal work at Location A.
Northing and easting are based on a site-specific plane coordinate system.
† Elevation data, Ground surface (msl) not surveyed
‡ Elevation data based on a directional well extending 97.5 ftbgs, and 150ft in length
§Top of Protective Casing measured from outer steel casing prior to well construction

Table 7. ZIST Well Construction Information, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well No.	ZIST Sampling Intervals (ft bgs)
RW-1	64-74 131-141
RW-2	279-289 452-462
RW-3	77-87
RW-4	333-343 393-403
RW-4A	62-72 113-123
RW-8	163-173 204-214
RW-8A	47-57
RW-9	139-149 206-216
RW-9A	25-35 85-95
RW-10	120-130 185-195
RW-10A	51-61 75-85

ARCADIS

Table 8. Summary of Water Level Measurments, April/May 2012 Ringwood Mines / Landfill Site, Ringwood, New Jersey

WELL ID	Date Collected	DTW (Feet)	Measuring Point Elevation (Feet)	Groundwater Elevation (Feet)	Comments *
OB-1	4/16/2012	6.49	544.37	537.88	
OB-2	4/16/2012	19.63	562.30	542.67	
OB-3	4/16/2012	5.74	496.53	490.79	
OB-4	4/16/2012	18.44	510.80	492.36	
OB-5	4/16/2012	3.45	458.83	455.38	
OB-6	4/16/2012	9.32	607.28	597.96	obstruction in well
OB-7	4/16/2012	4.07	503.91	499.84	
OB-8	4/16/2012	-	574.25	---	obstruction in well
OB-10	4/16/2012	6.69	352.04	345.35	
OB-11R	4/16/2012	16.70	532.10	515.40	
OB-12	4/16/2012	11.58	558.36	546.78	
OB-13	4/16/2012	16.95	500.35	483.40	
OB-14A	4/16/2012	9.74	501.40	491.66	
OB-14B	4/16/2012	12.44	504.11	491.67	
OB-15B	4/16/2012	7.92	515.98	508.06	
OB-16	4/16/2012	5.90	492.30	486.40	
OB-17	4/16/2012	5.45	490.26	484.81	
OB-18	4/16/2012	3.95	496.26	492.31	
OB-19	4/16/2012	12.30	532.39	520.09	
OB-20A	4/16/2012	13.34	533.67	520.33	
OB-20B	4/16/2012	14.77	534.03	519.26	
OB-21	4/16/2012	7.29	539.48	532.19	
OB-22	4/16/2012	16.99	518.36	501.37	
OB-23	4/16/2012	19.85	515.65	495.80	
OB-24	4/16/2012	5.34	500.89	495.55	
OB-25	4/16/2012	11.32	527.31	515.99	
OB-26	4/16/2012	11.69	545.23	533.54	
OB-27	4/16/2012	15.14	532.38	517.24	
OB-28	4/16/2012	1.54	485.91	484.37	
OB-29	4/16/2012	5.68	349.88	344.20	
OB-30A	5/9/2012	17.64	533.30	515.66	
OB-30B	5/9/2012	17.79	533.50	515.71	
OB-30C	5/9/2012	17.30	533.01	515.71	
SC-1	4/16/2012	15.05	532.53	521.17	
SC-2	4/16/2012	58.72	564.13	505.41	
RW-1(64-74)	4/16/2012	10.83	549.38	538.55	
RW-1(131-141)	4/16/2012	10.41	549.42	539.01	
RW-2(279-289)	4/16/2012	12.18	512.23	500.05	
RW-2(452-462)	4/16/2012	12.35	512.19	499.84	
RW-3(77-87)	4/16/2012	14.56	528.15	513.59	
RW-3DS(155-160)	4/16/2012	15.91	529.51	513.60	
RW-3DD(175-180)	4/16/2012	16.15	529.41	513.26	
RW-4(333-343)	4/16/2012	30.06	540.01	509.95	
RW-4(393-403)	4/16/2012	29.90	539.87	509.97	
RW-4A(62-72)	4/16/2012	14.40	541.41	527.01	
RW-4A(113-123)	4/16/2012	31.39	541.60	510.21	
RW-5	4/16/2012	12.73	533.48	520.75	
RW-5A	4/16/2012	12.61	533.26	520.65	
RW-6	4/16/2012	15.53	533.96	518.43	
RW-6A	4/16/2012	14.07	534.32	520.25	
RW-7	4/16/2012	3.76	539.43	535.67	
RW-8(163-173)	4/16/2012	60.13	570.01	509.88	
RW-8(204-214)	4/16/2012	61.16	510.01	448.85	
RW-8A(47-57)	4/16/2012	DRY	569.55	---	
RW-9(139-149)	4/16/2012	58.71	561.81	503.10	
RW-9(206-216)	4/16/2012	53.62	561.91	508.29	
RW-9A(25-35)	4/16/2012	DRY	561.82	---	
RW-9A(85-95)	4/16/2012	54.14	561.73	507.59	
RW-10(120-130)	4/16/2012	40.21	540.78	500.57	
RW-10(185-195)	4/16/2012	31.79	540.76	508.97	
RW-10A(51-61)	4/16/2012	36.50	539.43	502.93	
RW-10A(75-85)	4/16/2012	37.15	539.45	502.30	
RW-11(221-246)	4/16/2012	8.60	530.15	521.55	
RW-11(252-272)	4/16/2012	9.33	530.15	520.82	
RW-12	4/16/2012	---	---	---	
RW-13	4/16/2012	---	---	---	

Notes:

* DTW not collected due to obstruction

--- Elevation data not available due to dry well, obstructions or varying height of packer rods

Table 9.1: Field Parameters at sampling time - Shallow wells (2006), Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well ID	Sampling date	Time	Minutes elapsed	Rate (mlpm)	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (µmhos/cm)	Temp (ºC)	Depth to Water	Diss. Oxygen
OB-1	9/26/2006	9:15	33	300	4.70	143.5	5.59	59	14.42	6.14	4.98
OB-2	10/2/2006	9:20	44	350	2.30	161.6	5.91	110	11.22	18.95	6.28
OB-3	9/28/2006	13:00	40	400	18.20	172.3	5.76	88	13.55	0.02	6.05
OB-4	9/29/2006	9:20	43	400	7.90	-23.8	6.49	877	13.37	19.15	0.13
OB-5	10/2/2006	14:20	56	300	6.2	-65.4	6.47	914	14.02	3.30	0.13
OB-6	9/26/2006	11:05	35	250	9.0	-3.0	6.11	460	18.00	2.67	0.22
OB-7	9/28/2006	10:45	40	350	9.2	-72.5	6.79	652	13.31	4.91	0.13
OB-10	10/2/2006	11:05	34	350	0.0	-38.5	6.62	158	14.97	5.01	0.19
OB-12	9/28/2006	12:35	35	350	1.2	210.4	5.61	84	13.03	10.00	6.00
OB-13	10/3/2006	9:35	49	300	2.6	136.0	5.86	103	12.24	18.16	6.76
OB-14A	9/27/2006	14:55	54	300	4.82	-62.0	6.35	962	16.23	11.54	0.69
OB-14B	9/27/2006	14:30	40	200	1.8	-30.8	6.75	871	14.83	13.37	0.23
OB-15B	10/3/2006	11:20	42	250	38.9	34.8	8.21	199	13.03	9.87	0.16
OB-16	9/27/2006	10:10	30	400	0.80	-44.7	6.59	955	15.02	6.39	0.82
OB-17	9/27/2006	10:35	55	300	6.2	18.2	6.39	612	15.01	7.11	0.66
OB-18	9/26/2006	14:05	35	350	0.36	57.6	6.74	262	14.45	7.66	2.99
OB-19	10/3/2006	14:45	49	300	10.1	-61.3	6.36	254	14.32	12.50	0.13
OB-20A	10/4/2006	10:25	45	200	98.70	28.9	5.61	388	14.65	16.00	0.17
OB-20B	10/4/2006	13:55	50	400	197.0	-57	6.35	530	11.95	16.32	0.14
OB-21	10/5/2006	11:15	70	400	74.70	132.9	5.96	123	15.66	7.61	0.64
OB-22	11/29/2006	11:14	69	300	NR	-129	6.30	423	11.82	19.00	5.10
OB-23	11/28/2006	15:40	25	400	8.24	-62.7	6.44	1188	14.70	18.58	0.27
OB-24	11/28/2006	13:55	51	175	3.97	143.5	7.09	701	11.64	4.90	0.25
OB-25	11/28/2006	9:55	51	150	>999	191.7	6.00	376	12.60	17.05	4.64
SC-1	10/5/2006	14:55	72	275	0.40	-313.3	7.45	759	13.30	15.76	0.06

Note: NR = No reading because of instrument malfunction

Table 9.1: Field Parameters Ground Water Sampling 2006 - Deep wells, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well ID	Interval (fbgs)	Sampling date	Time	Rate (mlpm)	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (µmhos/cm)	Temp (ºC)	Diss. Oxygen
RW-1	10-30	10/6/2006	12:30	2	36.00	221.40	5.68	72	17.24	7.08
RW-1	91-117	10/10/2006	12:14	-	3.40	53.80	7.66	218	13.52	7.34
RW-2	19-48.5	10/4/2006	11:48	-	9.60	153.90	6.13	0.869	16.89	36.80
RW-2	102-132	10/4/2006	14:39	2	12.30	12.30	6.59	0.941	16.79	34.10
RW-2	161-191	10/5/2006	13:40	2.5	25.00	1.159	6.65	361.0	15.44	44.70
RW-3	65-100	9/29/2006	14:15	2.5	-0.80	29.00	7.35	0.457	12.74	38.30
RW-4	57-77	10/2/2006	11:47	-	-825.00	177.00	6.60	0.232	12.64	36.40
RW-4	108-128	10/2/2006	14:15	3	3.41	217.20	6.82	0.289	12.37	57.10
RW-4	328-348	10/3/2006	11:00	2	19.00	206.60	6.74	0.263	11.99	84
RW-4	388-408	10/3/2006	12:33	2	18.50	270.90	6.79	0.265	12.72	87.30
RW-5	40-51	9/26/06-9/27/06	9:05	1	77.90	-99.00	7.15	0.261	13.00	41.50
RW-5	64-75	9/28/06-9/29/09	9:20	1	73.90	238.90	6.77	0.464	12.41	0.34
RW-5	100-120	10/4/2006	9:03	1	22.90	292.30	7.22	0.774	11.25	65.60
RW-6	53-64	9/27/2006	13:15	2	-7.60	-70.50	6.09	0.381	16.38	39.00
RW-6	70-81	9/27/2006	14:45	3	-4.00	-48.80	6.24	0.665	13.28	1.80
RW-6	100-120	10/9/06-10/10/06	8:45	2	20.00	-36.00	6.55	666.0	11.32	6.56
RW-7	34-45	9/26/2006	10:24	2	24.60	189.80	6.46	0.135	13.36	6.38
RW-7	49-60	9/26/2006	11:39	2	23.10	224.50	6.33	0.126	14.12	7.35
RW-7	80-100	9/28/2006	11:00	3	-1.10	217.60	6.62	0.136	13.43	74.00
RW-7	105-120	9/28/2006	13:44	-	-5.70	376.60	6.51	0.147	19.73	66.00

Table 9.2: Field Parameters at sampling time - Shallow wells (2007), Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well ID	Sampling date	Time	Minutes elapsed	Rate (mlpm)	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (µmhos/cm)	Temp (ºC)	Depth to Water	Diss. Oxygen
OB-1	4/6/2007	8:35	30	400	2.0	109.3	6.12	75	7.02	5.40	8.87
OB-2	4/6/2007	14:28	20	375	1.0	60.2	6.08	120	10.12	18.95	6.28
OB-3	4/3/2007	8:30	35	400	2.5	163.0	5.81	96	7.76	0.00	8.60
OB-4	4/6/2007	11:37	30	300	6.0	-142.2	7.18	966	12.06	17.45	0.29
OB-5	4/4/2007	15:18	35	300	23.0	-69.3	6.47	966	9.42	2.61	0.30
OB-6	4/5/2007	10:04	40	250	4.0	66.5	6.60	376	6.47	2.40	0.22
OB-7	4/5/2007	16:40	50	350	19.0	2.1	6.80	591	8.76	3.35	0.83
OB-10	4/3/2007	14:20	45	350	3.0	9.7	6.58	97	4.90	5.60	0.25
OB-12	4/3/2007	9:55	30	350	0.2	186.5	5.41	86	8.30	8.65	8.40
OB-13	4/3/2007	11:55	50	300	0.7	195.4	5.55	79	10.83	13.10	9.22
OB-14A	4/9/2007	13:51	45	300	5.0	-98.3	6.30	938	12.90	10.39	0.41
OB-14B	4/9/2007	13:56	70	300	3.0	-12.9	6.69	954	14.00	12.57	0.28
OB-15B	4/12/2007	10:25	82	300	147.0	171.1	7.87	212	5.38	7.11	0.32
OB-16	4/10/2007	14:50	83	375	2.8	-20.6	6.63	985	8.65	5.68	0.32
OB-17	4/10/2007	11:10	30	300	9.0	114.1	6.44	656	6.45	5.78	0.50
OB-18	4/10/2007	9:58	57	300	1.0	150.3	6.88	357	6.65	8.10	2.39
OB-19	4/9/2007	8:40	39	300	2.0	-40.7	6.22	160	6.23	11.57	0.18
OB-20A	4/3/2007	15:20	39	200	21.0	-86.9	6.27	467	11.61	14.11	0.30
OB-20B	4/5/2007	12:28	59	400	36.0	-50.4	6.27	527	10.28	15.30	0.20
OB-21	4/9/2007	10:24	55	400	816.0	32.6	6.42	101	7.38	6.75	5.83
OB-22	4/4/2007	10:40	48	250	NR	184.4	6.15	313	7.94	19.04	2.99
OB-23	4/12/2007	11:00	NC	NC	NC	NC	NC	NC	NC	NC	NC
OB-24	4/11/2007	11:11	50	350	5.1	90	7.24	840	7.76	4.92	0.25
OB-25	4/12/2007	11:45	NC	NC	NC	NC	NC	NC	NC	NC	NC
SC-1	4/11/2007	15:47	132	400	11.7	-18.7	5.97	304	8.62	13.93	0.26

Note: NR = No reading because of instrument malfunction
NC = Data not collected at time sample collected

Table 9.2: Field Parameters Ground Water Sampling 2007 - Deep wells, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well ID	Interval (fbgs)	Sampling date	Time	Rate (mlpm)	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (µmhos/cm)	Temp (ºC)	Diss. Oxygen
RW-1	10-30	4/17/2007	11:47	2	0.6	242.40	5.72	36	8.83	6.80
RW-1	58-79	4/18/2007	13:15	2	1.1	216.10	5.98	42	10.62	7.13
RW-1	97-118	4/18/2007	15:05	2	2.2	146.70	7.93	200	10.67	2.03
RW-1	125-146	4/18/2007	16:15	2	5.0	13.00	7.93	199	10.97	1.73
RW-2	19-49	4/10/2007	12:58	2	2.3	119.20	6.30	1	14.45	0.62
RW-2	102-133	4/10/2007	15:41	2	41.7	105.80	6.42	2	12.48	1.01
RW-2	161-192	4/16/2007	15:07	2	45.0	95.600	6.73	1340	11.71	2.42
RW-2	278-309	4/17/2007	12:15	2	29.0	115.700	6.84	1351	11.66	3.91
RW-2	441-472	4/17/2007	14:30	2	9.0	76.40	6.73	1942	37.02	0.13
RW-3	65-100	4/5/2007	13:10	2	200.0	-3.50	7.30	397	10.58	0.31
RW-4	57-77	4/6/2007	13:56	2	NC	44.80	7.01	112	5.29	1.61
RW-4	108-129	4/9/2007	10:19	2	NC	133.10	7.02	139	10.62	4.50
RW-4	328-349	4/9/2007	12:24	2	NC	142.80	6.75	119	10.96	5.09
RW-4	388-409	4/9/2007	15:02	2	6.3	142.40	6.77	119	10.20	5.31
RW-5	40-51	4/13/2007	15:02	2	59.3	-108.70	7.25	500	5.57	1.94
RW-5	65-76	4/12/2007	15:05	2	41.5	-56.60	7.88	254	7.55	7.26
RW-5	97-118	4/12/2007	8:54	2	20.6	-88.90	7.10	518	11.04	0.21
RW-6	53-64	4/2/2007	16:35	2	6.4	-64.80	6.41	615	12.96	1.21
RW-6	70-81	4/3/2007	9:48	2	0.9	-60.50	6.41	652	11.47	0.32
RW-6	98-119	4/6/2007	8:59	2	NC	-61.20	6.46	616	9.19	0.44
RW-7	34-45	4/3/2007	13:13	2	55.0	334.00	4.43	115	12.21	4.45
RW-7	49-60	4/4/2007	15:15	2	7.3	73.00	6.75	138	8.34	4.55
RW-7	80-101	4/3/2007	17:12	2	5.7	150.00	6.66	118	11.52	5.69
RW-7	103-119	4/4/2007	12:30	2	1.9	218.60	6.78	132	8.66	5.12

Note: NR = No reading because of instrument malfunction
NC = Data not collected at time sample collected

Table 9.3: Field Parameters at Sampling Time - Overburden Wells - April 2008, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Well ID	Sample Date	Sample Time	Minutes elapsed	Rate (mlpm)	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Depth to Water (feet)	Diss. Oxygen (mg/L)
OB-1	4/30/2008	15:28	40	200	2.7	196.9	5.57	0.033	9.04	5.61	7.52
OB-2	4/28/2008	14:05	42	250	0.00	18.5	5.95	0.099	9.82	18.88	9.36
OB-3	4/28/2008	15:17	30	300	21.0	170.1	5.97	0.072	9.11	4.89	6.47
OB-4	4/28/2008	11:00	47	250	0.00	-52.0	6.49	0.689	12.40	18.12	0.25
OB-5	4/28/2008	10:38	50	300	2.80	-87.5	6.64	0.918	10.33	3.01	0.26
OB-6	5/1/2008	9:54	30	300	0.92	-23.8	6.46	0.386	8.85	6.60	0.35
OB-7	4/30/2008	9:03	35	300	23.00	-68.4	6.82	0.675	9.69	3.63	0.62
OB-10	4/29/2008	14:53	35	200	1.70	192.8	5.01	0.120	10.88	5.81	3.72
OB-12	4/28/2008	15:45	33	300	***	36.8	5.58	0.072	8.69	10.23	6.59
OB-13	4/28/2008	13:35	30	250	0.40	184.6	5.93	0.065	9.67	14.75	9.61
OB-14A	4/30/2008	15:55	65	300	8.80	-79.6	6.21	0.964	13.96	11.57	0.35
OB-14B	4/30/2008	15:32	40	200	14.70	6.8	6.76	0.852	14.01	13.50	0.24
OB-15B	5/2/2008	9:47	35	300	11.0	32.1	7.89	0.186	9.91	7.86	0.28
OB-16	5/1/2008	14:40	55	250	0.00	-66.1	6.39	0.914	10.50	6.12	0.21
OB-17	5/1/2008	10:30	37	250	0.80	45.4	6.19	0.575	9.44	5.89	0.57
OB-18	5/1/2008	10:55	50	300	0.41	53.2	6.67	0.296	8.90	7.42	1.70
OB-19	4/29/2008	16:25	35	300	0.00	-66.2	6.05	0.100	9.30	11.62	0.19
OB-20A	4/29/2008	12:10	30	300	34.0	-44.2	6.26	0.221	6.64	14.76	0.33
OB-20B	4/29/2008	12:23	55	300	20.0	-42.7	6.14	0.299	8.94	14.87	0.27
OB-21	4/29/2008	9:47	40	200	60.0	48.1	6.17	0.088	8.95	6.25	5.43
OB-22	5/1/2008	14:45	50	40	63.0	225.3	5.99	0.345	9.87	14.29	8.57
OB-23	5/2/2008	12:27	50	40	8.7	-60	6.62	2.400	12.75	18.65	0.46
OB-24	4/30/2008	11:17	35	300	5.30	45.5	7.07	0.780	9.08	5.17	0.27
OB-25	4/29/2008	9:34 & 12:45	35	40	550.0	204.3	7.13	0.623	8.7	12.55	10.49
OB-26	5/9/2008	15:05	60	300	9.0	167	5.45	0.065	8.82	9.19	6.03
SC-1	4/30/2008	10:55	65	300	0.0	-74.2	5.99	0.215	6.18	14.12	0.10
SC-2	5/5/2008	11:27	110	100	46.0	-20.7	6.36	0.600	20.03	***	0.84

*** Data not recorded

Table 9.3: Field Parameters at Sampling Time - Rock Wells - April 2008, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Well ID	Interval (fbgs)	Sample Date	Sample Time	Minutes elapsed	Rate gpm	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Depth to Water (feet)	Diss. Oxygen (mg/L)
RW-1	11-31	5/6/2008	12:48	29	4	7.2	149.4	5.27	0.037	11.59	9.06	7.47
RW-1	59-79	5/6/2008	14:28	16	4	6.9	22.0	6.56	0.131	12.39	9.06	5.75
RW-1	98-118	5/7/2008	12:00	29	3.4	1.3	-31.3	7.62	0.201	11.01	9.26	2.93
RW-1	126-146	5/7/2008	14:33	18	5	0.2	-96.9	7.39	0.203	12.40	9.26	2.09
RW-2	20-50	5/1/2008	11:48	38	4.0	9.7	117.7	6.15	1.155	14.66	9.18	2.61
RW-2	103-133	5/1/2008	14:59	90	1.7	7.6	149.1	6.30	1.209	14.37	9.18	0.72
RW-2	162-192	5/2/2008	DRY	***	***	***	***	***	***	***	***	***
RW-2	279-309	5/2/2008	DRY	***	***	***	***	***	***	***	***	***
RW-2	442-479	5/5/2008	15:31	238	0.5	24.0	-61.6	6.61	2.639	22.10	9.18	2.14
RW-3	62-98	4/30/2008	15:55	38	1	32	-112.2	7.23	0.404	11.77	13.12	0.49
RW-4	57-77	4/28/2008	14:45	108	0.75	10.0	122.0	6.65	0.114	12.87	28.44	3.47
RW-4	108-128	4/29/2008	9:30	35	5.0	6.8	189.7	7.01	0.144	10.85	28.44	6.31
RW-4	328-348	4/29/2008	12:21	38	4.7	N/A	135.7	6.71	0.123	10.9	28.44	7.90
RW-4	388-408	4/29/2008	14:50	18	1.0	14.0	226.6	6.52	0.125	11.47	28.44	7.24
RW-5	99-119	5/2/2008	12:45	40	200	6.8	-86.6	6.67	0.741	9.20	13.15	0.39
RW-5A	54-74	4/29/2008	16:47	40	200	0.2	-23.3	10.94	0.778	10.25	18.11	0.22
RW-6	10-20	5/2/2008	10:20	62	300	4.00	-98.9	6.62	0.755	9.11	12.65	0.22
RW-6A	54-74	5/2/2008	10:40	80	300	3.11	-30.4	6.31	0.559	9.80	14.10	0.23
RW-7	99-119	5/5/2008	9:33	30	300	7.14	155.3	6.71	0.116	10.17	3.02	5.87

Field Parameters at Sampling Time - Peters Mine Air Shaft - April 2008.

Well ID	Sample Depth (fbgs)	Sample Date	Sample Time	Minutes elapsed	Rate (mlpm)	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Diss. Oxygen (mg/L)
PMAir Shaft	180	5/7/2008	12:15	72	800	1.3	98.8	5.76	0.051	13.27	6.78
PMAir Shaft	222	5/7/2008	10:25	54	800	0	-43.6	5.96	1.074	12.94	1.22

*** Data not recorded

Table 9.4: Field Parameters at Sampling Time - Overburden Wells - September 2008, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Well ID	Sample Date	Sample Time	Minutes elapsed	Rate (mlpm)	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Depth to Water (feet)	Diss. Oxygen (mg/L)
OB-1	9/8/2008	15:10	34	200	0.50	364.3	5.66	0.083	14.51	7.20	6.00
OB-2	9/17/2008	14:45	56	200	1.32	152.9	5.13	0.129	14.31	18.72	8.41
OB-3	9/9/2008	16:06	51	300	9.86	236.2	5.63	0.252	13.69	3.61	4.08
OB-4	9/10/2008	9:17	40	200	2.14	-32.4	6.87	0.377	13.79	18.14	0.25
OB-5	9/9/2008	12:55	35	300	0.80	-53.2	6.37	1.006	13.39	3.00	0.38
OB-6	9/8/2008	14:57	45	200	1.10	163.0	4.07	0.559	19.16	3.10	0.37
OB-7	9/10/2008	13:37	75	200	2.49	-30.6	6.96	0.500	12.74	4.32	0.32
OB-10	9/10/2008	14:45	58	300	0.22	603.0	5.39	0.126	17.82	5.94	0.84
OB-12	9/9/2008	15:12	35	300	0.00	194.2	5.77	0.065	11.87	9.68	6.95
OB-13	9/10/2008	10:55	39	200	0.10	403.5	5.99	0.152	11.99	16.70	7.04
OB-14A	9/11/2008	14:47	43	200	1.39	-20.3	5.64	0.860	15.27	11.90	0.89
OB-14B	9/11/2008	14:32	30	200	12.3	-4.6	6.30	0.807	14.29	14.12	0.37
OB-15B	9/16/2008	13:02	37	200	6.1	157.6	7.60	0.171	16.03	8.59	0.92
OB-16	9/11/2008	11:43	34	200	4.27	-41.6	6.21	0.960	15.43	6.51	0.38
OB-17	9/11/2008	9:27	46	250	1.64	368.6	6.01	0.181	15.92	5.81	1.04
OB-18	9/11/2008	9:42	60	200	3.59	195.4	5.31	0.276	13.87	7.07	2.48
OB-19	9/12/2008	14:37	95	225	6.32	-16.5	5.91	0.193	14.15	12.81	0.28
OB-20A	9/15/2008	11:32	110	200	32.1	20.1	4.93	0.234	13.49	n/a	3.05
OB-20B	9/15/2008	12:55	204	200	22.9	89.6	4.03	0.374	11.00	16.12	0.00
OB-21	9/12/2008	10:37	55	200	160.0	485.0	5.68	0.107	12.74	8.02	6.65
OB-22	Dry	***	***	***	***	***	***	***	***	***	***
OB-23	Dry	***	***	***	***	***	***	***	***	***	***
OB-24	9/11/2008	12:27	40	200	33.9	244.4	5.28	0.738	15.49	5.31	0.87
OB-25	9/18/2008	11:55	55	100	300	119.7	6.75	0.587	16.67	15.41	7.42
OB-26	9/16/2008	10:10	57	200	9.96	305.7	5.49	0.135	15.99	10.32	3.86
SC-1	9/6/2008	10:58	127	200	3.4	-73.7	5.23	0.235	10.88	15.81	1.05
SC-2	9/17/2008	15:17	75	200	16.0	-9.1	5.96	0.553	15.62	n/a	1.95

*** Data not recorded

Table 9.4: Field Parameters at Sampling Time - Rock Wells - September 2008, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Well ID	Interval (fbgs)	Sample Date	Sample Time	Minutes elapsed	Rate gpm	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Depth to Water (feet)	Diss. Oxygen (mg/L)
RW-1	11-31	9/18/2008	12:35	55	2	7.7	352.0	5.62	0.085	12.76	9.06	6.79
RW-1	59-79	9/19/2008	9:15	42	3	1.7	112.4	7.04	0.247	10.35	12.15	2.91
RW-1	98-118	9/19/2008	11:57	56	2.5	1.3	272.9	7.81	0.260	10.96	14.4	3.72
RW-1	126-146	9/22/2008	10:15	40	3	1.7	-12.4	7.68	0.272	10.66	11.73	1.88
RW-2	20-50	9/16/2008	15:50	60	3.0	1.3	105.0	6.04	0.670	13.57	9.5	6.04
RW-2	103-133	9/17/2008	12:15	100	1.2	2.5	634.8	2.70	1.004	14.31	9.61	0.31
RW-2	162-192	9/17/2008	DRY	***	***	***	***	***	***	***	11.8	***
RW-2	279-309	9/11/2008	17:00	***	***	***	***	***	***	***	9.12	***
RW-2	431.5-461.5	9/11/2008	DRY	***	***	***	***	***	***	***	9.18	***
RW-3	62-98	9/8/2008	12:10	24	5	4.8	9.4	7.26	0.358	13.55	14	0.60
RW-4	57-77	9/15/2008	13:05	115	0.5	16	-1.4	6.76	0.123	14.78	30.42	4.23
RW-4	108-128	9/16/2008	9:50	40	3	***	121.6	6.50	0.145	11.31	28.44	5.85
RW-4	328-348	9/9/2008	17:15	160	0.72	***	160.6	6.91	0.137	14.19	31.67	7.08
RW-4	388-408	9/10/2008	10:15	47	3.0	7.9	172.9	5.88	0.122	11.63	***	6.93
RW-5	99-119	9/17/2008	9:47	60	200ml	3.28	-82.1	6.45	0.615	12.96	13.70	1.47
RW-5A	54-74	9/12/2008	14:02	45	200ml	8.9	73.5	5.37	0.457	n/a	23.51	0.96
RW-6	99-119	9/15/2008	15:48	50	200ml	3.00	-57.5	6.13	0.585	11.91	13.52	8.95
RW-6A	58-78	9/15/2008	14:45	146	200ml	2.52	37.9	5.95	0.411	12.33	14.61	0.12
RW-7	99-119	9/12/2008	10:40	47	250ml	29.3	167.9	6.22	0.115	12.25	4.42	5.83

Field Parameters at Sampling Time - Peters Mine Air Shaft - April 2008.

Well ID	Sample Depth (fbgs)	Sample Date	Sample Time	Minutes elapsed	Rate (mlpm)	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Diss. Oxygen (mg/L)
PMAir Shaft	180	9/18/2008	17:38	37	1400	7.0	-77.3	6.11	0.014	14.56	1.50
PMAir Shaft	230	9/18/2008	16:22	101	1000	24	-80.6	6.66	0.006	17.35	3.83

*** Data not recorded

Table 9.5: Field Parameters at Sampling Time - Overburden Wells - June/July 2009, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Well ID	Sample Date	Sample Time	Minutes elapsed	Rate (mlpm)	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Depth to Water (feet)	Diss. Oxygen (mg/L)
OB-1	7/2/2009	13:17	30	200	1.10	309.3	5.60	0.051	12.57	5.71	5.84
OB-2	6/30/2009	9:57	35	200	0.65	183.1	5.91	0.099	10.20	18.48	7.47
OB-3	6/30/2009	13:13	30	300	0.40	115.0	6.21	0.110	10.43	4.36	4.09
OB-4	7/1/2009	13:12	35	300	9.56	-80.0	6.73	0.338	12.66	10.60	0.06
OB-5	7/1/2009	9:42	40	300	18.7	-112.1	7.01	0.557	10.83	2.70	0.09
OB-6	7/1/2009	13:10	40	200	0.54	-18.5	6.44	0.289	15.68	3.46	0.28
OB-7	7/1/2009	13:17	35	200	4.11	-17.8	6.56	0.480	11.90	4.55	0.31
OB-10	7/1/2009	15:27	45	200	6.61	-36.1	6.45	0.120	15.73	5.89	0.27
OB-12	6/30/2009	9:52	35	300	1.79	161.1	5.84	0.064	11.22	9.30	4.97
OB-13	7/1/2009	9:52	30	200	0.00	204.0	5.70	0.063	11.30	12.45	8.71
OB-14A	7/6/2009	13:25	30	200	1.10	-27.3	5.49	0.715	13.97	9.98	0.44
OB-14B	7/6/2009	13:30	30	200	15.9	44.2	6.65	0.762	14.59	12.22	0.45
OB-15B	7/2/2009	15:56	40	200	13.3	-53.3	7.03	0.158	15.77	7.81	0.12
OB-16	7/8/2009	10:05	30	200	1.07	-33.4	6.69	0.795	13.21	14.63	0.47
OB-17	7/8/2009	10:03	30	250	10.00	17.0	6.52	0.571	12.81	5.21	0.61
OB-18	7/8/2009	10:20	55	200	17.70	216.7	6.65	0.241	11.84	4.68	0.65
OB-19	7/7/2009	13:27	30	225	12.00	-58.2	5.63	0.215	11.60	12.26	0.27
OB-20A	7/9/2007	11:17	35	200	9.9	-13	6.00	0.200	10.19	15.10	0.26
OB-20B	7/9/2009	10:12	45	200	12.9	19.7	6.21	0.304	9.93	15.31	0.28
OB-21	7/7/2009	10:05	30	200	173.0	147.4	5.58	0.080	11.96	7.04	5.62
OB-22	7/8/2009	13:02	40	100	222.0	347.4	6.12	0.266	15.12	12.77	4.47
OB-23	7/8/2009	13:17	30	150	19.8	-35.3	6.34	0.969	14.92	17.04	1.02
OB-24	7/8/2009	13:20	35	200	9.8	401.4	6.57	0.588	13.32	NA	0.35
OB-25	7/6/2009	10:45	70	195	284	411.8	6.26	0.484	14.43	16.07	7.20
OB-26	7/2/2009	9:57	55	200	8.70	146.4	6.12	0.079	14.09	8.13	1.77
SC-1	7/9/2009	13:57	30	200	14.1	49.1	5.97	0.198	14.03	19.86	0.42
SC-2	6/30/2009	13:12	40	200	32.8	166.1	6.17	0.519	16.34	55.07	0.73

NA - No water level was recorded because the water was below the pump

Table 9.5: Field Parameters at Sampling Time - Rock Wells - June/July 2009, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Well ID	Interval (fbgs)	Sample Date	Sample Time	Minutes elapsed	Rate gpm	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Depth to Water (feet)	Diss. Oxygen (mg/L)
RW-1	11-31	7/17/2009	9:20	50	300	0.39	257.1	5.71	0.045	12.73	12.69	6.16
RW-1	59-79	7/17/2009	10:55	36	200	0.34	-19.4	7.30	0.161	14.01	12.12	1.48
RW-1	98-118	7/17/2009	13:10	38	300	0.30	-61.7	7.37	0.171	13.75	11.00	0.33
RW-1	126-146	7/17/2009	15:15	34	200	1.47	-60.1	6.84	0.195	13.51	11.45	0.28
RW-2	20-50	7/10/2009	13:40	36	200	9.21	88.2	5.86	0.975	15.38	13.22	1.09
RW-2	103-133	7/13/2009	10:45	40	150	5.29	50.5	6.19	1.062	17.14	11.90	0.59
RW-2	162-192	7/13/2009	12:50	44	100	3.02	47.8	6.34	1.054	17.14	7.21	0.63
RW-2	279-309	7/13/2009	15:55	40	200	3.44	52.1	6.39	1.055	16.73	15.58	0.78
RW-2	441-472	7/14/2009	11:45	63	300	0.32	98.8	5.64	2.494	11.32	7.25	0.71
RW-3	62-98	7/6/2009	12:55	40	250	16.5	38.7	6.82	0.282	13.59	15.30	0.50
RW-4	57-77	6/30/2009	11:55	132	350	26.2	394.7	6.65	0.087	12.91	11.72	1.87
RW-4	108-128	6/30/2009	14:40	69	350	20.5	145.8	6.60	0.096	12.96	28.00	3.46
RW-4	328-348	7/2/2009	11:40	44	100	22.9	267.8	6.61	0.097	12.66	29.45	6.13
RW-4	388-408	7/2/2009	15:15	55	400	30.2	338.9	6.35	0.091	13.14	28.69	7.19
RW-5	99-119	7/7/2009	13:43	45	200	1.30	-71.4	6.76	0.390	11.00	14.51	0.20
RW-5A	54-74	7/7/2009	13:37	50	250	12.4	-219.2	8.24	0.775	11.09	25.52	0.06
RW-6	99-119	7/9/2009	11:02	30	200	2.71	-6.9	6.40	0.491	10.71	13.02	0.37
RW-6A	58-78	7/9/2009	10:09	35	200	7.64	-14.1	6.62	0.446	10.69	14.20	0.44
RW-7	99-119	7/7/2009	10:07	30	225	4.00	293.1	6.37	0.096	11.99	2.98	5.97
RW-8	42-62	7/7/2009	9:35	49	300	3.11	108.4	5.53	0.166	14.92	48.80	3.69
RW-8	158-178	7/7/2009	13:30	59	100	1.47	-60.1	6.87	0.469	18.29	41.90	0.82
RW-8	199-219	7/7/2009	16:05	50	100	2.11	-103.8	7.13	0.784	20.48	50.40	1.17
RW-9	20-40	7/15/2009	11:40	40	200	0.23	385.1	6.48	0.153	14.72	34.85	8.13
RW-9	80-100	7/15/2009	15:15	105	100	0.00	107.4	6.64	0.204	18.13	32.76	7.73
RW-9	134-154	7/16/2009	10:15	72	250	5.90	-97.1	7.63	0.255	13.97	33.85	0.49
RW-9	201-221	7/16/2009	13:30	45	150	4.11	-83.2	7.27	0.329	20.21	34.80	0.57
RW-10	22-42	7/8/2009	14:20	41	200	1.42	249.3	5.33	0.164	12.43	29.83	7.53
RW-10	46-66	7/9/2009	10:00	37	200	3.11	169.5	6.06	0.176	10.96	29.83	4.90
RW-10	70-90	7/9/2009	11:46	35	250	6.10	154.9	5.99	0.175	12.02	29.35	5.23
RW-10	115-135	7/9/2009	14:05	68	200	5.72	209.6	6.04	0.175	13.25	26.58	1.67
RW-10	180-200	7/9/2009	16:35	35	200	5.13	-8.0	7.03	0.335	12.73	29.80	0.96

Field Parameters at Sampling Time - Peters Mine Air Shaft - July 2009.

Well ID	Sample Depth (fbgs)	Sample Date	Sample Time	Minutes elapsed	Rate (mlpm)	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Diss. Oxygen (mg/L)
PMAir Shaft	180	7/10/2009	14:06	52	500	3.65	30.8	5.99	0.350	14.44	0.37
PMAir Shaft	230	7/10/2009	15:37	50	500	4.57	30.1	5.62	0.355	14.95	0.45

Table 9.6: Field Parameters at Sampling Time - Overburden Wells - October 2009, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Well ID	Sample Date	Sample Time	Minutes elapsed	Rate (ml/pm)	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Depth to Water (feet)	Diss. Oxygen (mg/L)
OB-1	10/22/2009	13:09	30	200	0.37	124.4	5.52	0.054	13.08	7.22	4.66
OB-2	10/20/2009	9:42	30	200	0.00	181.0	5.99	0.096	12.75	21.06	7.81
OB-3	10/20/2009	15:00	30	300	22.00	-79.7	6.31	0.077	13.42	7.41	0.31
OB-4	10/21/2009	11:48	40	300	11.40	-25.7	6.81	0.305	14.61	15.10	0.44
OB-5	10/21/2009	9:49	35	300	16.2	-91.0	6.87	0.479	11.84	0.40	0.55
OB-6	10/19/2009	---	---	---	---	---	---	---	---	---	---
OB-7	10/21/2009	11:46	30	200	7.82	-111.8	7.18	0.406	12.42	5.37	0.19
OB-10	10/21/2009	15:15		200	4.01	57.1	6.15	0.096	11.96	6.60	0.53
OB-12	10/20/2009	14:02	30	200	0.00	189.9	5.62	0.073	12.79	14.85	1.79
OB-13	10/21/2009	9:47	30	200	0.00	60.6	6.10	0.850	11.53	21.47	6.48
OB-14A	10/23/2009	13:22	30	200	10.55	-20.3	6.13	0.676	13.80	11.64	0.73
OB-14B	10/20/2009	13:37	40	200	1.2	16.4	6.93	0.646	13.16	13.99	0.24
OB-15B	10/26/2009	14:57	30	200	13.8	---	7.82	0.135	13.48	8.69	1.86
OB-16	10/23/2009	9:42	35	200	1.67	-39.8	6.36	0.762	12.87	6.62	0.92
OB-17	10/23/2009	9:47	30	200	12.30	37.3	6.49	0.564	12.59	6.48	0.33
OB-18	10/23/2009	10:45	35	200	3.57	38.3	6.94	0.244	12.30	6.34	3.24
OB-19	10/27/2009	13:27	30	225	2.70	-87.1	6.35	0.157	12.43	12.35	0.19
OB-20A	10/28/2009	9:52	35	200	79.5	-24.4	5.96	0.217	12.96	15.27	0.73
OB-20B	10/28/2009	10:12	45	200	12.9	19.7	6.21	0.304	9.93	15.31	0.28
OB-21	10/27/2009	10:27	60	200	29.0	-12.8	6.46	0.082	12.30	7.65	3.43
OB-22	10/26/2009	---	---	---	---	---	---	---	---	---	---
OB-23	10/26/2009	---	---	---	---	---	---	---	---	---	---
OB-24	10/26/2009	13:07	35	200	6.4	117.4	6.91	0.574	14.03	5.68	0.40
OB-25	10/26/2009	9:22	35	100	450	201.7	6.91	0.387	13.04	11.65	6.25
OB-26	10/27/2009	15:07	55	200	16.40	156.9	5.57	0.066	14.6	12.95	2.28
SC-1	10/28/2009	12:00	40	200	20.8	-53.8	5.22	0.154	14.39	---	0.53
SC-2	10/20/2009	11:23	40	200	26.4	-108.2	6.50	0.317	13.63	60.00	0.49

--- No parameters were recorded

Table 9.6: Field Parameters at Sampling Time - Rock Wells - October 2009, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Well ID	Interval (fbgs)	Sample Date	Sample Time	Minutes elapsed	Rate (ml/pm)	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Depth to Water (feet)	Diss. Oxygen (mg/L)
RW-1	11-31	10/20/2009	11:10	35	200	0.00	120.3	5.73	0.056	11.61	14.15	2.52
RW-1	59-79	10/20/2009	13:07	40	200	0.00	-104.2	7.54	0.153	11.98	13.38	2.03
RW-1	98-118	10/20/2009	15:40	30	230	0.70	-95.6	7.41	0.158	12.21	13.85	0.63
RW-1	126-146	10/20/2009	17:20	35	250	1.50	-98.9	6.27	0.261	12.14	13.69	0.33
RW-2	20-50	10/26/2009	13:27	35	200	9.80	57.3	6.42	0.611	16.05	11.51	3.28
RW-2	103-133	10/27/2009	10:38	35	200	6.00	34.3	6.61	0.566	14.19	13.65	2.10
RW-2	162-192	10/27/2009	12:50	35	100	4.80	-2.2	6.64	0.564	14.65	8.18	2.58
RW-2	279-309	10/27/2009	15:48	40	200	3.77	-16.8	6.64	0.596	14.24	7.5	2.1
RW-2	441-472	10/28/2009	11:43	45	200	5.03	-55.9	6.93	2.272	13.85	8.73	1.06
RW-3	62-98	10/19/2009	12:33	40	150	5.8	-34.8	7.27	0.243	11.60	18.88	0.37
RW-4	57-77	10/21/2009	13:47	50	150	24.0	41.7	6.52	0.088	12.05	32.95	4.84
RW-4	108-128	10/22/2009	13:22	30	350	16.0	68.9	6.68	0.099	11.74	30.86	4.89
RW-4	328-348	10/23/2009	10:07	30	275	12.0	90.9	6.87	0.096	10.32	31.9	5.30
RW-4	388-408	10/23/2009	13:17	45	200	14.0	16.4	6.83	0.092	10.81	31.22	5.55
RW-5	99-119	10/27/2009	13:22	30	100	8.80	-96.7	6.77	0.414	11.66	11.66	1.09
RW-5A	54-74	10/28/2009	15:47	30	200	0.0	-167.2	8.89	0.564	11.41	15.98	0.24
RW-6	99-119	10/28/2009	16:07	45	200	1.56	-112.3	6.70	0.422	10.68	12.22	0.38
RW-6A	58-78	10/28/2009	11:02	30	200	1.00	-109.6	6.63	0.387	10.29	14.16	0.19
RW-7	99-119	10/27/2009	10:02	30	100	10.00	188.9	6.69	0.850	11.96	3.81	7.08
RW-8	42-62	11/4/2009	10:42	40	200	0.00	120.5	5.81	0.145	12.98	48.84	3.70
RW-8	158-178	11/4/2009	12:50	45	225	0.00	-89.8	7.37	0.404	12.61	29.10	0.89
RW-8	199-219	11/4/2009	14:42	45	100	1.84	-102.5	7.20	0.582	12.91	35.98	1.27
RW-9	20-40	11/2/2009	10:22	30	200	0.10	90.4	6.27	0.122	11.82	21.95	6.03
RW-9	80-100	11/2/2009	12:27	55	100	0.28	-62.4	7.22	0.288	13.75	27.63	2.51
RW-9	134-154	11/2/2009	15:52	55	150	0.32	-68.5	7.32	0.280	12.65	30.03	1.98
RW-9	201-221	11/3/2009	10:37	65	100	1.28	-93.6	7.41	0.281	11.70	20.21	2.79
RW-10	22-42	10/29/2009	10:17	30	225	0.78	106.0	5.87	0.144	10.61	31.98	6.15
RW-10	46-66	10/29/2009	11:47	30	200	1.46	89.3	5.78	0.144	11.93	36.98	6.04
RW-10	70-90	10/29/2009	13:25	30	260	0.30	78.0	6.00	0.242	12.50	36.23	3.25
RW-10	115-135	10/29/2009	15:12	35	200	0.58	47.1	6.15	0.254	12.27	36.71	1.82
RW-10	180-200	10/30/2009	9:43	35	300	1.93	-74.9	6.77	0.322	10.51	27.45	0.33

Field Parameters at Sampling Time - Peters Mine Air Shaft - October 2009.

Well ID	Sample Depth (fbgs)	Sample Date	Sample Time	Minutes elapsed	Rate (ml/pm)	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Diss. Oxygen (mg/L)
PMAir Shaft	180	10/29/2009	15:17	45	500	6.50	17.8	5.97	0.048	12.73	0.04
PMAir Shaft	230	10/29/2009	13:35	45	500	1.02	-86.8	6.08	0.833	12.76	0.35

Table 9.7: Field Parameters at Sampling Time - Overburden Wells - May and June 2010, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Well ID	Sample Date	Sample Time	Sample Method	Minutes elapsed	Rate (ml/pm)	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Depth to Water (feet)	Diss. Oxygen (mg/L)
OB-1	5/26/2010	10:23	Low Flow	30	200	1.21	211.6	5.69	0.036	10.63	6.94	6.67
OB-2	5/25/2010	10:25	Low Flow	32	200	1.52	153.1	5.77	0.065	12.93	19.04	8.53
OB-3	5/25/2010	10:00	Low Flow	30	300	30.00	61.0	6.34	0.072	11.11	5.62	2.36
OB-4	5/26/2010	13:05	Low Flow	35	200	5.35	-41.9	5.77	0.790	13.81	18.88	0.19
OB-5	5/26/2010	10:35	Low Flow	53	200	5.25	-170.6	6.70	0.659	13.75	3.91	0.18
OB-6	---	---	---	---	---	---	---	---	---	---	---	---
OB-7	5/25/2010	15:47	Low Flow	35	200	14.80	-66.2	6.74	0.349	12.41	4.71	0.24
OB-10	5/26/2010	12:00	Low Flow	30	200	0.62	170.1	6.40	0.099	11.71	6.50	2.39
OB-11R	6/11/2010	10:05	Low Flow	51	200	35.80	-92.5	6.63	0.340	11.51	17.41	0.29
OB-12	5/25/2010	15:30	Low Flow	35	200	0.42	209.6	5.31	0.052	11.53	10.84	4.98
OB-13	5/25/2010	11:22	Low Flow	30	200	2.38	225.7	5.69	0.044	10.90	16.35	8.92
OB-14A	5/28/2010	9:38	Low Flow	30	200	0.93	78.5	6.10	0.693	12.59	11.02	0.35
OB-14B	5/28/2010	10:38	Low Flow	30	200	1.78	-17.9	6.62	0.709	13.61	13.48	0.31
OB-15B	6/3/2010	11:55	Low Flow	30	200	3.95	76.6	6.18	0.158	20.12	7.71	0.63
OB-16	5/27/2010	10:15	Low Flow	35	200	6.85	-92.7	6.46	0.768	12.07	6.26	0.16
OB-17	5/27/2010	11:55	Low Flow	60	200	7.45	4.8	6.37	0.521	11.18	6.57	0.18
OB-18	5/27/2010	12:22	Low Flow	45	200	3.53	106.2	6.94	0.231	10.19	7.86	2.45
OB-19	6/11/2010	11:58	Low Flow	30	200	5.85	-62.7	6.27	0.100	10.67	12.71	0.18
OB-20A	6/2/2010	9:50	Low Flow	35	200	5.74	-87.0	6.16	0.244	11.82	15.90	0.23
OB-20B	6/2/2010	9:52	Low Flow	35	200	10.40	-29.4	6.93	0.215	12.40	15.33	0.43
OB-21	6/1/2010	12:10	Low Flow	43	200	205	219.3	5.92	0.008	12.60	7.91	4.17
OB-22	5/28/2010	9:53	Low Flow	35	100	21.50	203.3	5.83	0.237	13.50	13.50	6.41
OB-23	5/28/2010	15:10	Low Flow	74	100	4.57	-25.7	5.69	0.897	14.43	19.71	0.42
OB-24	5/28/2010	12:42	Low Flow	50	200	5.75	131.5	6.92	0.477	10.95	6.48	0.27
OB-25	6/1/2010	10:30	Low Flow	47	100	797	166.5	6.60	0.539	13.69	13.75	4.27
OB-26	5/26/2010	16:25	Low Flow	50	200	10.30	232.4	4.63	0.052	12.90	10.80	3.95
OB-27	6/2/2010	14:50	Low Flow	35	200	4.39	-75.9	6.29	0.300	11.51	15.5	0.31
OB-28	5/27/2010	11:02	Low Flow	75	200	4.39	-75.9	6.29	0.300	11.51	15.5	0.31
SC-1	6/2/2010	15:28	Low Flow	30	200	69.10	59.2	6.82	0.674	12.19	1.19	0.27
SC-2	5/25/2010	12:15	Low Flow	40	200	6.10	132.9	6.27	0.321	15.79	61.42	0.62

--- Well was compromised with obstruction.

Table 9.7: Field Parameters at Sampling Time - Rock Wells - May and June 2010, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Well ID	Interval (fbgs)	Sample Date	Sample Time	Sample Method	Minutes elapsed	Rate (ml/pm)	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Depth to Water (feet)	Diss. Oxygen (mg/L)
RW-1	131-141	6/30/2010	11:30	ZIST	2	350	1.20	-99.6	6.24	0.268	12.12	11.27	0.31
RW-1	64-74	6/30/2010	12:24	ZIST	1	350	0.09	-101.4	7.50	0.150	12.97	11.58	2.04
RW-2	452-462	6/29/2010	13:14	ZIST	---	350	---	---	---	---	---	---	---
RW-2	279-289	6/29/2010	10:25	ZIST	5	350	3.89	-17.0	6.66	0.594	14.56	12.93	2.08
RW-3	77-87	6/28/2010	9:04	ZIST	2	350	14.60	28.7	6.78	0.249	12.89	15.16	0.48
RW-3D	140-165	6/9/2010	13:07	LF- Packer	37	200	29.20	-107.9	7.32	0.335	13.01	16.60	2.38
RW-3D	170-181	6/9/2010	16:25	LF- Packer	36	250	50.80	-122.6	7.43	0.332	12.56	20.70	0.85
RW-4A	62-72	6/25/2010	11:35	ZIST	1	350	0.28	83.2	6.89	0.102	11.27	14.79	6.53
RW-4A	113-123	6/25/2010	9:47	ZIST	1	350	0.67	175.3	9.12	0.187	11.23	31.41	2.11
RW-4	333-343	---	---	ZIST	---	---	---	---	---	---	---	---	---
RW-4	393-343	6/25/2010	11:47	ZIST	1	350	0.84	143.4	9.16	0.160	11.27	29.96	2.88
RW-5	99-119	6/1/2010	15:42	Low Flow	30	200	1.96	-97.3	7.60	0.375	12.06	14.86	0.59
RW-5A	54-74	6/1/2010	10:47	Low Flow	45	200	3.05	48.5	8.45	0.995	12.29	20.47	0.23
RW-6	99-119	6/2/2010	12:07	Low Flow	60	200	6.91	-48.0	6.91	0.400	12.26	13.63	0.43
RW-6A	58-78	6/2/2010	11:35	Low Flow	30	200	2.66	-39.9	6.21	0.485	11.23	15.45	0.21
RW-7	99-119	6/1/2010	14:55	Low Flow	44	200	13.70	144.7	6.20	0.089	12.37	4.32	6.15
RW-8	163-173	6/23-6/28/2010	*Note	ZIST	---	---	---	---	---	---	---	---	---
RW-8	204-214	6/23-6/28/2010	*Note	ZIST	---	---	---	---	---	---	---	---	---
RW-8A	47-57	---	---	ZIST	---	---	---	---	---	---	---	---	---
RW-9	139-149	---	---	ZIST	---	---	---	---	---	---	---	---	---
RW-9	206-216	6/23-6/28/2010	*Note	ZIST	---	---	---	---	---	---	---	---	---
RW-9A	85-95	6/23/2010	9:46	ZIST	---	---	---	---	---	---	---	---	---
RW-9A	25-35	---	---	ZIST	---	---	---	---	---	---	---	---	---
RW-10	185-195	6/23-6/28/2010	*Note	ZIST	1	350	1.64	-73.2	6.75	0.320	11.47	42.98	0.30
RW-10	120-130	6/23-6/25/2010	*Note	ZIST	---	---	---	---	---	---	---	---	---
RW-10A	75-85	6/23, 6/28/2010	*Note	ZIST	1	350	36.00	72.3	7.40	0.271	11.14	38.15	1.07
RW-10A	51-61	---	---	ZIST	---	---	---	---	---	---	---	---	---
RW-11	100-125	6/7/2010	13:00	LF- Packer	38	200	11.90	143.8	5.55	0.042	16.53	11.12	8.76
RW-11	142-167	6/7/2010	13:00	LF- Packer	40	200	6.30	165.8	5.56	0.040	13.97	11.26	9.63
RW-11	221-246	6/8/2010	10:45	LF- Packer	48	240	7.97	99.0	6.42	0.124	13.71	12.26	3.30
RW-11	252-272	6/8/2010	15:05	LF- Packer	55	250	4.21	94.6	6.43	0.127	14.12	11.10	2.74

--- No parameters were recorded
*Note Samples were collected on multiple days.

Table 9.7: Field Parameters at Sampling Time - Peters Mine Air Shaft - May and June 2010.

Well ID	Sample Depth (fbgs)	Sample Date	Sample Time	Sample Method	Minutes elapsed	Rate (ml/pm)	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Diss. Oxygen (mg/L)
PMAir Shaft	180	6/4/2010	14:47	3 vol purge	45	500	0.61	92.1	6.15	0.035	12.78	5.50
PMAir Shaft	230	6/4/2010	12:05	3 vol purge	45	500	0.27	-87.3	6.08	0.783	12.81	0.25

Table 9.8 Field Parameters at Sampling Time - Overburden Wells - May 2011, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Well ID	Sample Date	Sample Time	Sample Method	Minutes elapsed	Rate (ml/pm)	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Depth to Water (feet)	Diss. Oxygen (mg/L)
OB-1	5/17/2011	10:17	Low Flow	40	200	6.30	39.0	6.82	0.169	10.27	4.81	3.12
OB-2	5/16/2011	14:55	Low Flow	30	200	1.46	152.1	5.81	0.145	10.83	18.41	6.19
OB-3	5/18/2011	9:57	Low Flow	35	300	36.70	158.0	6.17	0.188	11.59	4.73	4.78
OB-4	5/17/2011	11:30	Low Flow	35	200	0.00	70.0	5.24	0.961	12.28	18.70	1.12
OB-5	5/17/2011	13:02	Low Flow	64	200	0.00	-175.0	7.17	0.998	10.95	2.10	0.32
OB-6	---	---	---	---	---	---	---	---	---	---	---	---
OB-7	5/17/2011	10:05	Low Flow	35	200	8.90	-101.0	6.99	0.585	10.38	3.70	1.93
OB-10	5/17/2011	15:42	Low Flow	30	200	38.40	205.0	6.10	0.141	10.53	6.13	3.17
OB-11R	5/18/2011	14:57	Low Flow	45	200	56.30	60.0	5.57	0.570	10.27	16.30	0.60
OB-12	5/17/2011	10:05	Low Flow	45	200	30.00	192.9	5.39	0.052	10.68	9.75	4.20
OB-13	5/17/2011	12:37	Low Flow	45	200	0.00	249.0	5.50	0.072	10.58	14.63	10.78
OB-14A	5/19/2011	13:42	Low Flow	35	200	63.70	-71.0	6.35	0.781	12.33	9.31	5.34
OB-14B	5/19/2011	13:48	Low Flow	40	200	29.10	-7.0	6.69	0.911	13.97	11.86	0.47
OB-15B	5/23/2011	14:35	Low Flow	40	200	2.00	77.0	7.65	0.204	13.59	5.73	1.53
OB-16	5/19/2011	11:14	Low Flow	40	200	15.80	77.0	5.39	0.997	12.02	5.25	0.73
OB-17	5/19/2011	11:00	Low Flow	35	200	0.00	35.0	6.12	0.192	11.85	3.98	0.91
OB-18	5/16/2011	10:25	Low Flow	40	200	0.00	204.0	5.84	0.605	8.69	5.54	0.92
OB-19	5/20/2011	10:25	Low Flow	45	200	0.00	-23	6.16	0.190	10.70	10.80	1.67
OB-20A	5/18/2011	11:45	Low Flow	35	200	19.70	110.0	5.09	0.227	8.19	14.65	0.60
OB-20B	5/18/2011	10:11	Low Flow	35	200	28.20	-63	6..45	0.355	9.45	14.98	1.42
OB-21	5/18/2011	10:33	Low Flow	40	200	39.95	244.0	6.01	0.110	11.25	5.80	8.49
OB-22	5/19/2011	13:31	Low Flow	40	100	98.00	98.2	6.38	0.536	16.69	11.30	4.99
OB-23	5/19/2011	14:45	Low Flow	40	200	0.00	-85	6.28	1-180	12.70	16.00	0.69
OB-24	5/19/2011	12:50	Low Flow	40	200	30.90	85	7.05	0.774	11.73	4.56	0.99
OB-25	5/20/2011	9:43	Low Flow	35	100	0	170	6.95	0.505	13.94	11.3	8.09
OB-26	5/17/2011	13:50	Low Flow	35	200	0.00	192	5.96	0.077	11.01	9.25	8.12
OB-27	5/18/2011	14:17	Low Flow	30	200	40.20	-106	6.76	0.368	11.46	14.65	0.79
OB-28	5/19/2011	10:37	Low Flow	40	200	20.60	27	6.65	0.939	11.41	1.25	0.48
SC-1	5/18/2011	14:45	Low Flow	50	200	0.00	-43.0	6.33	0.176	9.93	12.85	2.07
SC-2	5/16/2011	14:53	Low Flow	40	200	59.20	237.0	6.05	0.571	14.00	57.80	3.25

--- Well was compromised with obstruction.

Table 9.8 Field Parameters at Sampling Time - Rock Wells - May and June 2011, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Well ID	Interval (fbgs)	Sample Date	Sample Time	Sample Method	Minutes elapsed	Rate (ml/pm)	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Depth to Water (feet)	Diss. Oxygen (mg/L)
RW-1	131-141	5/26/2011	9:35	ZIST	38	0.22	0.00	0.1	6.70	0.428	15.07	NM	7.60
RW-1	64-74	5/26/2011	10:14	ZIST	335	0.22	---	---	---	---	---	---	---
RW-2	452-462	6/3/2011	6:28	ZIST	50	350	---	---	---	---	---	---	---
RW-2	279-289	5/24/2011	9:50	ZIST	15	100	0.00	18.0	4.15	2.55	23.11	MN	2.69
RW-3	77-87	5/25/2011	15:25	ZIST	67	26	0.00	148.0	5.51	0.222	21.88	NM	1.83
RW-3D	140-165	5/24/2011	14:30	LF- Packer	46	200	5.00	-152.0	7.36	0.471	14.86	16.30	1.13
RW-3D	170-181	5/24/2011	10:40	LF- Packer	55	200	5.00	-165.0	7.29	0.476	15.25	17.20	1.00
RW-4A	62-72	5/25/2011	10:20	ZIST	55	25	0.00	169.0	5.98	0.175	17.95	NM	NM
RW-4A	113-123	5/25/2011	10:05	ZIST	50	25	0.00	177.0	6.28	0.230	13.52	NM	NM
RW-4	333-343	6/7/2011	11:45	ZIST	136	50	0.00	39.0	11.34	1.310	18.87	NM	3.25
RW-4	393-403	5/25/2011	10:55	ZIST	255	100	---	---	---	---	---	---	---
RW-5	99-119	5/20/2011	9:50	Low Flow	35	200	0.00	-153.0	7.32	0.815	9.05	11.06	0.67
RW-5A	54-74	5/18/2011	13:13	Low Flow	45	200	52.40	-139.0	7.81	0.406	11.05	18.11	1.06
RW-6	99-119	5/18/2011	10:45	Low Flow	30	200	0.00	-82.0	6.63	0.554	10.30	11.55	2.37
RW-6A	58-78	5/18/2011	10:15	Low Flow	35	200	0.00	27.0	5.70	0.520	9.71	13.76	1.60
RW-7	99-119	5/18/2011	10:27	Low Flow	30	200	0.00	92.0	6.67	0.121	11.99	2.14	4.96
RW-8	163-173	5/31/11-6/1/11	10:40/10:03	ZIST	40	35	0.00	12.0	6.79	0.320	21.30	NM	1.73
RW-8	204-214	5/31/11-6/1/11	10:14	ZIST	---	---	---	---	---	---	---	---	---
RW-8A	47-57	---	---	ZIST	---	---	---	---	---	---	---	---	---
RW-9	139-149	5/26/2011	---	ZIST	---	---	---	---	---	---	---	---	---
RW-9	206-216	5/26/2011	---	ZIST	---	---	---	---	---	---	---	---	---
RW-9A	85-95	6/1/2011	9:18	ZIST	---	---	---	---	---	---	---	---	---
RW-9A	25-35	5/31/2011	---	ZIST	---	---	---	---	---	---	---	---	---
RW-10	185-195	5/31/2011	14:07	ZIST	13	125	0.00	-64.0	11.62	1.150	23.69	NM	1.40
RW-10	120-130	5/31/2011-6/1/2011	14:25/13:09	ZIST	33	48	---	---	---	---	---	---	---
RW-10A	75-85	6/2/2011	10:35	ZIST	195	73	0.00	162.0	6.62	0.324	17.31	NM	1.70
RW-10A	51-61	6/2/2011	10:55	ZIST	230	122	0.00	36.0	6.72	0.467	18.46	NM	0.76
RW-11	100-125	5/26/2011	11:25	LF- Packer	34	400	0.00	211.0	5.73	0.053	11.04	9.15	8.99
RW-11	142-167	5/26/2011	10:00	LF- Packer	38	425	0.00	210.0	5.61	0.054	10.41	9.02	7.70
RW-11	221-246	5/25/2011	15:20	LF- Packer	51	425	0.00	232.0	4.99	0.032	12.81	4.10	7.47
RW-11	252-272	5/25/2011	11:40	LF- Packer	31	350	0.00	225.0	5.44	0.054	15.46	8.68	6.24

--- No parameters were recorded
*Note Samples were collected on multiple days.

Table 9.8 Field Parameters at Sampling Time - Peters Mine Air Shaft - May 2011.

Well ID	Sample Depth (fbgs)	Sample Date	Sample Time	Sample Method	Minutes elapsed	Rate (ml/pm)	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Diss. Oxygen (mg/L)
PMAir Shaft	180	5/24/2011	9:45	3 vol purge	50	600	1.40	-17.0	6.18	0.204	9.06	4.73
PMAir Shaft	230	5/24/2011	12:05	3 vol purge	45	600	82.2	-69	6.19	0.978	9	0.33

Table 9.9 Field Parameters at Sampling Time - Overburden Wells - April 2012, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Well ID	Sample Date	Sample Time	Sample Method	Minutes elapsed	Rate (ml/pm)	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Depth to Water (feet)	Diss. Oxygen (mg/L)
OB-1	4/26/2012	9:30	Low Flow	40	200	3.2	237	5.73	0.048	9.37	5.41	5.93
OB-2	4/19/2012	10:20	Low Flow	35	200	0.0	276	5.65	0.157	13.07	18.78	7.42
OB-3	4/13/2012	10:10	Low Flow	40	300	2.6	202	6.65	0.145	9.65	3.19	8.64
OB-4	4/27/2012	9:30	Low Flow	40	200	16.2	-59	6.65	0.902	11.80	18.02	1.24
OB-5	4/19/2012	13:53	Low Flow	42	300	0.0	-177	7.40	0.861	15.76	4.21	2.12
OB-6	---	---	---	---	---	---	---	---	---	---	---	---
OB-7	4/19/2012	11:56	Low Flow	32	100	0.0	-50	7.16	0.625	11.90	4.44	1.50
OB-10	4/20/2012	11:35	Low Flow	33	200	0.0	114	6.68	0.131	13.66	6.69	3.02
OB-11R	4/26/2012	9:45	Low Flow	40	200	2.0	-109	6.64	0.489	10.10	16.67	1.21
OB-12	4/19/2012	11:45	Low Flow	35	200	0.0	278	5.85	0.087	11.36	11.81	5.45
OB-13	4/20/2012	10:06	Low Flow	32	200	0.0	142	6.30	0.104	11.49	18.59	10.07
OB-14A	4/18/2012	10:00	Low Flow	35	200	0.5	-55	6.86	0.610	14.30	10.74	1.98
OB-14B	4/18/2012	10:05	Low Flow	35	200	9.7	-30	7.07	0.950	13.45	13.24	1.20
OB-15B	4/24/2012	14:30	Low Flow	65	150	0.0	135	7.38	0.196	14.84	6.77	0.88
OB-16	4/17/2012	13:20	Low Flow	70	200	25.7	-66	6.87	1.020	14.80	5.97	1.76
OB-17	4/17/2012	10:20	Low Flow	42	175	21.7	-12	6.76	0.797	10.20	6.27	1.56
OB-18	4/17/2012	12:35	Low Flow	35	200	0.2	87	7.13	0.365	10.84	4.53	2.21
OB-19	4/25/2012	14:00	Low Flow	55	200	0.0	-50	6.23	0.161	10.14	12.23	0.80
OB-20A	4/27/2012	12:45	Low Flow	35	200	32.7	-26	6.15	0.208	10.22	15.77	0.78
OB-20B	4/27/2012	12:50	Low Flow	42	200	11.9	-42	6.46	0.385	13.30	14.76	1.04
OB-21	4/24/2012	10:25	Low Flow	45	200	52.4	238	5.72	0.113	9.37	6.61	1.99
OB-22	4/18/2012	Well Dried Out*	-	-	-	-	-	-	-	-	-	-
OB-23	4/18/2012	Well Dried Out*	-	-	-	-	-	-	-	-	-	-
OB-24	4/18/2012	12:40	Low Flow	37	200	26.6	175	7.39	0.812	9.63	7.01	1.07
OB-25	4/20/2012	9:30	Low Flow	40	100	24.1	135	7.39	0.652	12.1	11.8	6.84
OB-26	Not Sampled	X	X	X	X	X	X	X	X	X	X	X
OB-27	4/25/2012	11:50	Low Flow	130	250	48.9	41	5.32	0.379	10.33	15.23	0.28
OB-28	4/17/2012	10:30	Low Flow	60	200	29.6	91	7.02	1.010	12.2	1.72	1.14
OB-29	5/11/2012	13:30	Low Flow	88	200	46.5	123	6.77	0.157	12.82	5.51	1.3
OB-30A	5/10/2012	15:50	Low Flow	36	200	0.0	49	6.64	0.391	11.21	17.66^	8.37
OB-30B	5/11/2012	10:37	Low Flow	32	200	0.0	86	6.57	0.390	11.72	18.11	1.03
OB-30C	5/9/2012	13:50	Low Flow	66	200	38.9	-27	8.07	0.425	13.38	24.4	0.89
SC-1	4/27/2012	9:45	Low Flow	50	250	0.0	-29	6.30	0.445	10.27	14.37*(conv)	1.47
SC-2	4/19/2012	10:10	Low Flow	32	200	0.0	155	6.69	0.465	13.92	61.12	1.14

--- Well was compromised with obstruction.
* No Samples Collected
X - No GW Sampling Log
^ Original DTW, pump obstructed DTW @ 17.51'
(conv) - convert to DTW
ml/pm - mililiters per minute

Table 9.9 Field Parameters at Sampling Time - Rock Wells - April and May 2012, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Well ID	Interval (fbgs)	Sample Date	Sample Time	Sample Method	Minutes elapsed	Rate (ml/pm)	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Depth to Water (feet)	Diss. Oxygen (mg/L)	
RW-1	131-141	4/17/2012	10:55	ZIST	36	125	0.0	-22	6.75	0.613	15.84	10.41	18.03	
RW-1	64-74	4/17/2012	12:40	ZIST	100	25	0.0	-91	8.70	0.23	21.64	10.83	13.74	
RW-2	452-462	5/16/2012	11:38	ZIST	120	100	0.0	-23	11.37	2.05	23.21	12.35	13.71	
RW-2	279-289	5/8/2012	11:10	ZIST	17	150	0.0	-89	11.45	2.23	14.69	12.18	15.32	
RW-3	77-87	4/27/2012	10:00	ZIST	39	100	0.0	-64	7.18	0.346	12.31	14.56	1.51	
RW-3DD	175-180	4/30/2012	10:00	ZIST	26	150	0.0	-297	12.02	1.450	13.16	16.15	0.75	
RW-3DS	155-160	4/30/2012	11:45	ZIST	137	75	0.0	-84	12.01	2.340	16.89	15.91	13.21	
RW-4A	62-72	4/25/2012	12:40	ZIST	35	125	0.0	20	9.69	0.157	13.69	14.40	15.05	
RW-4A	113-123	4/25/2012	14:15	ZIST	45	125	0.0	68	8.07	0.160	12.20	31.39	14.82	
RW-4	333-343	4/25/2012	10:45	ZIST	15	150	0.0	-32	12.22	1.200	12.89	30.06	15.19	
RW-4	393-403	4/26/2012	9:45	ZIST	25	100	0.0	207	6.89	0.244	10.64	29.90	14.96	
RW-5	99-119	4/26/2012	10:00	Low Flow	55	200	0.0	-172	8.01	0.444	9.39	12.67	2.91	
RW-5A	54-74	4/25/2012	10:45	Low Flow	65	250	30.2	106	5.10	0.528	11.24	15.25	0.63	
RW-6	99-119	4/27/2012	9:45	Low Flow	40	200	20.7	-10	6.98	0.438	10.70	13.24	0.80	
RW-6A	58-78	4/27/2012	9:38	Low Flow	32	200	0.0	-51	6.56	0.517	11.05	14.41	1.87	
RW-7	99-119	4/24/2012	12:30	Low Flow	35	200	0.0	182	6.54	0.107	13.39	2.69	3.26	
RW-8	163-173	5/2/2012-5/3/2012	12:35/9:20	ZIST	70	80	0.0	4	9.93	0.621	13.22	60.13	15.98	
RW-8	204-214	5/2/2012	Well Dry	ZIST	---	---	---	---	---	---	---	---	---	
RW-8A	47-57	5/2/2012	Well Dry	ZIST	---	---	---	---	---	---	---	---	---	
RW-9	139-149	4/19/2012-4/20/2012	Well Dried Out/Dry	ZIST	---	---	---	---	---	---	---	58.71	---	
RW-9	206-216	4/20/2012	10:20	ZIST	---	---	---	---	---	---	---	53.62	---	
RW-9A	85-95	4/20/2012	10:40	ZIST	---	---	---	---	---	---	---	54.14	---	
RW-9A	25-35	4/20/2012	Well Dry	ZIST	---	---	---	---	---	---	---	---	---	
RW-10	185-195	4/17/2012-5/4/2012	11:00/12:00	ZIST	16/10	125/125	0.0/0.0	2.787879	10.88/11.03	0.993/0.552	13.00/15.19	39.79	8.20/15.45	
RW-10	120-130	4/18-4/19-5/4/2012	Dired Out/12:15/11:1	ZIST	86	---	0.0	-5	11.15	0.828	24.29	40.21	13.38	
RW-10A	75-85	4/18/2012-5/4/2012	10:20/10:20	ZIST	22/27	35/35	0.0/0.0	195/19	6.16/9.54	0.440/0.419	12.71/14.05	37.15	8.90/16.07	
RW-10A	51-61	4/18/2012	11:40	ZIST	33	---	0.0	-38	8.00	0.585	14.60	36.50	7.76	
RW-11D	262-267	5/1/2012	11:50	ZIST	15	75	0.0	9	11.11	0.911	12.00	9.33	5.59	<---- Water Clear
RW-11D	262-267	5/1/2012	12:15	ZIST	40	75	0.0	-91	12.51	4.860	11.63	9.33	6.23	<---- Water Milky
RW-11S	236-241	5/1/2012	9:10	ZIST	10	125	0.0	-4	10.45	0.187	11.96	8.60	5.70	
RW-12	50-76	5/10/2012	12:27	LF- Packer	57	300	38.9	-290	7.27	0.589	11.40	11.98	0.88	
RW-12	96-116	5/10/2012	14:28	LF- Packer	58	250	47.3	-164	8.06	0.604	12.22	13.42	0.67	
RW-12	125-148	5/11/2012	11:10	LF- Packer	68	300	35.3	45	5.59	0.609	11.86	15.96	1.72	

--- No parameters were recorded due to poor yield
*Note Samples were collected on multiple days.

ml/pm - mililiters per minute
ZIST - Zone isolation system technology

Table 9.9 Field Parameters at Sampling Time - Peters Mine Air Shaft - April 2012.

Well ID	Sample Depth (fbgs)	Sample Date	Sample Time	Sample Method	Minutes elapsed	Rate (ml/pm)	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Depth to Water (feet)	Diss. Oxygen (mg/L)
PMAirShaft	50	4/23/2012	12:05	Low Flow	63	600	1.5	197	6.53	0.061	11.1	6.87	6.03
PMAirShaft	180	4/23/2012	13:10	Low Flow	79	550	0.0	207	6.47	0.039	10.84	6.87	6.25
PMAirShaft	230	4/24/2012	10:25	Low Flow	55	600	0.0	180	6.62	0.065	11	7.01	9.01

Table 9.9 Field Parameters at Sampling Time - Peters Mine Air Shaft - July 2012.

Well ID	Sample Depth (fbgs)	Sample Date	Sample Time	Sample Method	Minutes elapsed	Rate (ml/pm)	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Depth to Water (feet)	Diss. Oxygen (mg/L)
PMAirShaft	50	7/11/2012	12:25	Low Flow	60	300	0.0	225	6.13	0.056	15.09	8.11	5.28
PMAirShaft	180	7/11/2012	11:20	Low Flow	65	400	0.0	214	6.34	0.055	14.98	8.11	3.5
PMAirShaft	230	7/11/2012	14:00	Low Flow	58	400	24.7	-88	6.41	1.06	15.64	8.13	1.05

Table 9.9 Field Parameters at Sampling Time - CM Air Shaft - May 2012.

Well ID	Sample Depth (fbgs)	Sample Date	Sample Time	Sample Method	Minutes elapsed	Rate (ml/pm)	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Depth to Water (feet)	Diss. Oxygen (mg/L)
CMShaft	50	5/7/2012	11:05	Low Flow	53	230	0.0	-82	7.06	0.061	14.41	7.25	2.86
CMShaft	100	5/7/2012	13:15	Low Flow	53	250	0.0	-95	7.12	1.110	14.82	7.25	3.01
CMShaft	160	5/9/2012	10:23	Low Flow	51	200	0.0	-95	7.11	1.000	18.85	7.25	1.85
CMShaft	275	5/9/2012	13:15	Low Flow	51	250	0.0	-116	7.23	0.882	22.32	7.25	4.01

ml/pm - mililiters per minute

Table 10
Supplemental RI Analytical and Monitoring Program
DRAFT Site-Wide Groundwater Remedial Investigation Report
Ringwood Mines/Landfill Site, Ringwood

Analyte	Benzene	Sulfate	Nitrate	Calcium	Sodium	Potassium	Magnesium	Chloride	Bicarbonate	Dissolved Iron	Dissolved Manganese	Fluoride	Silica	Total Organic Carbon (TOC)	Methane	Carbon Dioxide	Oxygen-18	Deuterium	Tritium	Radiocarbon	Radon-222	Chloroflurocarbons	Sulfur Hexaflouride
Method	VOC	SW9056	Other	SW8466010C	SW8466010C	SW8466010C	SW8466010C	SW9056	SM204500CO2DALK	SW8466010C	SW8466010C	SW9056	SM194500SIO2D	SM195310B	RSK-175	RSK-175	LAB IT2	LAB IT2	LAB IT2	LAB IT2	704R10	LAB UU	LAB UU
Peters Mine Area																							
Surface Water																							
SW-11	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
SW-PAB-01	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
SW-PAB-01A	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
SW-PAB-00	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
SW-PAB-02	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Peters Mine Air Shaft																							
PMAirShaft-50	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
PMAirShaft-180	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
PMAirShaft-230	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Groundwater Monitoring Locations																							
OB-11R	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
OB-19	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
OB-20A	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
OB-20B	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
OB-21	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
OB-27	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
SC-1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
RW-3(77-87)	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
RW-3DS(155-160)	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
RW-3DD(175-180)	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
RW-4(333-343)	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
RW-4(393-403)	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
RW-4A(62-72)	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
RW-4A(113-123)	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
RW-5	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
RW-5A	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
RW-6	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
RW-6A	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
RW-7	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
RW-11S(236-241)	x	x	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x	x	x	x
Cannon Mine Area																							
Surface Water																							
SW-03	x	x	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x	x	x	x
SW-PMB-02	x	x	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x	x	x	x
SW-MRB-01	x	x	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x	x	x	x
Cannon Mine Shaft																							
CM Shaft(50)	x	x	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x	x	x	x
CM Shaft(100)	x	x	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x	x	x	x
CM Shaft(160)	x	x	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x	x	x	x
CM Shaft(275)	x	x	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x	x	x	x
Groundwater Monitoring Locations																							
SC-2	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
OB-1	x	x	x	x	x	x	x	x		x	x											x	x
OB-2	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
OB-3	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
OB-4	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
OB-5	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x
RW-1(64-74)	x	x	x	x	x	x	x	x		x	x						x	x	x	x	x	x	x
RW-1(131-141)	x	x	x	x	x	x	x	x		x	x						x	x	x	x	x	x	x
RW-2(279-289)	x	x	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x	x	x	x
RW-2(452-462)	x	x	x	x	x	x	x			x	x						x	x	x	x	x		
RW-9(206-216)	x			x	x	x	x	x		x	x	x											
RW-9A(85-95)	x	x	x	x	x	x	x	x	x	x	x	x	x										
RW-8(163-173)	x	x	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x	x	x	x
RW-10(185-195)	x	x	x	x	x	x	x	x		x	x	x		x	x	x	x	x	x	x	x	x	x
RW-10(120-130)	x	x	x	x	x	x	x	x		x	x	x		x	x	x	x	x	x	x	x	x	
RW-10A(51-61)	x	x	x	x	x	x	x	x		x	x	x		x	x	x	x	x	x	x	x	x	x
RW-10A(75-85)	x	x	x	x	x	x	x	x		x	x	x		x	x	x	x	x	x	x	x	x	x

LAB IT2: Samples analyzed under Isotope Tracer Technologies specific methods
LAB UU: Samples analyzed under University of Utah specific methods

Table 11
Summary of Isotope and Anthropogenic Gas Analytical Results

Sample Location[1]	Sample Date	Depth (ft bgs)	Geologic Unit	Benzene Concentration	Oxygen-18 Concentration ($\delta^{18}O$)	Deuterium Concentration ($\delta^{2}H$)	Tritium Concentration		Fractionation Corrected ^{14}C Concentration[2]	Inferred Radiocarbon Groundwater Age[2]	Average Radon-222 Concentration	Average CFC-11 Concentration	Average CFC-12 Concentration	Average CFC-113 Concentration	CFC-11	CFC-12	CFC-113	SF_6			
				(µg/L)	per mil	per mil	TU	Bq/L	Percent Modern Carbon (pmc)	years	pCi/L	pmoles/kg			Apparent Recharge Year[3]			FemtoMol/kg	Apparent Recharge Year (excess air correction 0 mL/g)	Apparent Recharge Year (excess air correction 0.02 mL/g)	Apparent Recharge Year (excess air correction 0.3 mL/g)
Peters Mine Area																					
Surface Water																					
SW-11	5/3/2012	N/A	SW	< 0.22	-7.56	-45.2	7.6	0.91	98.79	98	ND	5.13	2.83	0.33	1988 or 2006	1995	1986	NC[a]	NC[a]	NC[a]	NC[a]
SW-PAB-01	5/3/2012	N/A	SW	< 0.22	-7.57	-44.9	6.7	0.80	99.70	24	46 LT	4.42	*6.38*	0.27	1985	OR	1985	2.41	2007	1988	1967
SW-PAB-01A	5/2/2012	N/A	SW	< 0.22	-7.58	-45.1	6.8	0.81	99.21	64	ND	4.72	*3.75*	0.29	1987	OR	1985	2.54	2009	1988	1968
SW-PAB-00	5/4/2012	N/A	SW	< 0.22	-7.36	-43.4	8.3	0.99	96.91	252	ND	4.53	2.66	0.29	1986	1992	1985	1.93	2002	1985	1966
SW-PAB-02	5/2/2012	N/A	SW	< 0.22	-7.57	-44.9	5.6	0.67	99.61	32	ND	4.68	*3.36*	0.27	1986	OR	1985	2.50	2008	1988	1968
Peters Mine Air Shaft																					
PMAirShaft-50	4/23/2012	50	Air Shaft	< 0.24	-7.73	-47.1	10.1	1.20	94.34	468	67	4.69	2.73	0.33	1987	1993	1986	2.44	2008	1988	1967
PMAirShaft-180	4/23/2012	180	Air Shaft	< 0.24	-7.63	-45.7	8.3	0.99	97.16	231	ND	5.11	*2.94*	0.41	1988 or 2006	OR	1988	2.66	2010	1989	1968
PMAirShaft-230	4/24/2012	230	Air Shaft	< 0.24	-7.59	-45.2	7	0.83	96.39	296	ND	5.04	2.84	0.40	1988 or 2006	2003 or 2009	1988	2.72	2010	1989	1968
Groundwater Monitoring Locations																					
OB-11R	4/26/2012	25 to 40	UC	3.7	-7.59	-45.7	5.4	0.64	95.75	349	985	1.53	*15.52*	0.13	1972	OR	1979	2.98	2013	1990	1969
OB-19	4/25/2012	5 to 20	UC	0.32 J	-7.65	-45.5	6.6	0.79	82.20	1,575	208	0.29	*23.49*	0.05	1962	OR	1972	2.57	2009	1988	1968
OB-20A	4/27/2012	5 to 20	UC	< 0.22	-7.34	-43.3	5.2	0.62	88.31	999	700	3.47	2.87	0.29	1980	1995 or 2012	1986	3.88	C	1993	1972
OB-20B	4/27/2012	24 to 34	UC	0.66 J	-7.31	-43.1	7.1	0.85	>100	< 60 years	1130	0.06	*237.90*	0.02	1954	OR	1953	5.80	C	2000	1975
OB-21	4/24/2012	6 to 21	UC	< 0.22	-7.66	-45.6	7.4	0.88	99.05	77	844.5	0.54	*33.21*	0.08	1965	OR	1976	3.56	C	1992	1971
OB-27	4/25/2012	24.5 to 39.5	UC	5.5	-7.47	-44.2	6.3	0.75	66.20	3,313	550	0.10	*72.84*	0.08	1955	OR	1975	0.73	1988	1977	1952
SC-1	4/27/2012	64.4 to70.9	SB	1.2	-7.39	-43.0	6.5	0.77	>100	< 60 years	ND	0.80	0.57	0.03	1967	1968	1966	0.43	1983	1973	1952
RW-3(77-87)	4/27/2012	77 to 87	BR	< 0.22	-8.18	-48.8	6.5	0.77	83.78	1,422	154.5	0.97	*150.58*	0.07	1968	OR	1975	4.14	C	1994	1973
RW-3DS(155-160)	4/30/2012	155 to 160	BR	< 0.22	-8.10	-48.4	5.4	0.64	83.93	1,407	ND	5.33	*3.76*	0.23	1989 or 2002	OR	1983	0.91	1990	1979	1960
RW-3DD(175-180)	4/30/2012	175 to 180	BR	< 0.22	-8.20	-49.4	6.5	0.77	78.45	1,950	72	0.39	*227.15*	0.07	1963	OR	1974	NC[a]	NC[a]	NC[a]	NC[a]
RW-4 (333-343)	4/25/2012	333 to 343	BR	< 0.22	-8.03	-48.1	4.2	0.50	94.78	431	70	0.58	1.59	0.01	1965	1980	1962	> 15	C	C	C
RW-4 (393-403)	4/16/2012 (Benzene) 4/26/2012 (Other)	393 to 403	BR	< 0.22	-8.08	-48.7	4.4	0.52	97.11	236	ND	0.71	1.36	0.08	1962	1977	1975				
RW-4A(62-72)	4/25/2012	62 to 72	BR	< 0.22	-7.93	-47.6	5.0	0.60	>100	< 60 years	762	0.14	*364.36*	0.05	1957	OR	1972				
RW-4A(113-123)	4/25/2012	113 to 123	BR	< 0.22	-8.10	-48.4	4.5	0.54	95.00	412	193.5	4.75	2.78	0.36	1987	2000	1987	> 15	C	C	C
RW-5	4/26/2012	99 to 119	BR	< 0.22	-8.22	-50.1	8.2	0.98	77.45	2,052	69.5	5.47	*4.04*	0.17	1990 or 1999	OR	1981	4.88	C	1997	1974
RW-5A	4/25/2012	54 to 74	BR	< 0.22	-7.72	-45.8	6.1	0.73	45.98	6,242	ND	0.39	0.60	0.09	1963	1969	1976	> 15	1952[b]	1952[b]	1952[b]
RW-6	4/27/2012	99 to 119	BR	0.74 J	-8.02	-48.5	6.0	0.72	92.21	651	ND	0.08	0.59	0.02	1954	1969	1953	10.16	C	2013	1979
RW-6A	4/27/2012	58 to 78	BR	2	-7.71	-46.3	7.1	0.85	96.61	277	276	3.70	2.31	0.19	1981	1988	1982	4.86	C	1997	1974
RW-7	4/24/2012	99 to 119	BR	< 0.22	-8.02	-48.1	7.5	0.89	90.42	809	ND	5.11	*3.58*	0.26	1988	OR	1984	2.72	2010	1989	1968
RW-11S (236-241)	5/1/2012	236 to 241	BR	< 0.22	-7.11	-42.2	6.4	0.76	>100	< 60 years	ND	4.99	2.52	0.11	1987.25	1990	1978	3.99	C	1994	1972

R2-0005291

Table 11
Summary of Isotope and Anthropogenic Gas Analytical Results

Canon Mine Area																					
Surface Water																					
SW-03	5/4/2012	N/A	SW	< 0.22	-6.88	-41.2	7.5	0.89	90.21	828	ND	3.97	2.29	0.23	1983	1987	1984	1.95	2002	1985	1966
SW-PMB-02	5/1/2012	N/A	SW	< 0.22	-7.44	-43.9	6.7	0.80	>100	< 60 years	ND	4.39	*4.23*	0.28	1985	OR	1985	2.52	2008	1988	1968
SW-MRB-01	5/2/2012	N/A	SW	< 0.22	-7.25	-42.9	6.2	0.74	97.58	197	187	0.23	1.76	0.10	1960	1982	1977	2.97	2013	1990	1969
Canon Mine Air Shaft																					
CM Shaft(50)	5/7/2012	50	Air Shaft	< 0.22	-7.35	-44.6	6.1	0.73	91.69	697	ND	0.07	*12.38*	0.02	1955	OR	1965	10.05	C	2013	1979
CM Shaft(100)	5/7/2012	100	Air Shaft	< 0.22	-7.48	-45.2	6.1	0.73	93.56	535	ND	0.57	*13.65*	0.06	1965	OR	1974	15.37	C	C	1982
CM Shaft (160)	5/9/2012	160	Air Shaft	< 0.22	-7.53	-46.4	6.2	0.74	93.13	572	ND	0.17	*19.15*	0.07	1959	OR	1974	10.91	C	C	1980
CM Shaft (275)	5/9/2012	275	Air Shaft	< 0.22	-7.60	-46.9	6.1	0.73	95.03	410	ND	0.22	*27.42*	0.06	1960	OR	1972	0.06	1967	1952	1952
Groundwater Monitoring Locations																					
OB-1	4/26/2012	5 to 31	BR	< 0.22	-7.71	-45.3	8.6	1.03	95.93	334	1930	4.33	2.67	0.35	1985	1992	1987	7.39	C	2006	1977
OB-2	4/19/2012 (Benzene) 6/19/2012 (Other)	8 to 42	BR	< 0.22	-7.61	-44.5	8.1	0.97	99.07	75	247	*196.43*	*167.92*	0.28	OR	OR	1985	3.38	C	1991	1970
OB-3	4/23/2012	9 to 24	BR	< 0.22	-7.77	-46.4	6.9	0.82	92.26	647	544.5	*82.64*	*24.23*	0.20	OR	OR	1983	> 15	C	C	C
OB-4	4/27/2012	28 to 61	BR	< 0.22	-7.31	-44.9	6.0	0.72	95.30	386	ND	0.02	1.26	0.01	1951	1976	1963	3.58	C	1992	1971
OB-5	4/19/2012 (Benzene) 6/20/2012 (Other)	18 to 63	BR	< 0.22	-7.60	-45.3	6.6	0.79	>100	< 60 years	78.5	0.11	*17.59*	0.04	1956	OR	1970	> 15	C	C	C
SC-2	4/19/2012 (Benzene) 6/19/2012 (Other)	47 to 67	SB	< 0.22	-7.67	-45.8	7.1	0.85	88.64	969	ND	*22.60*	*96.42*	*7.81*	OR	OR	OR	4.11	C	1994	1972
RW-1 (64-74)	4/17/2012	64 to 74	BR	< 0.22	-7.82	-46.6	4.6	0.55	80.34	1,758	395.5	3.61	2.44	0.17	1981	1988	1981	> 15	C	C	C
RW-1 (131-141)	4/17/2012	131 to 141	BR	< 0.22	-8.06	-48.5	4.4	0.52	62.39	3,789	406.5	0.59	2.36	0.01	1965	1988	1958	> 15	C	C	C
RW-2(279-289)	5/8/2012	279 to 289	BR	< 0.22	-7.64	-47.0	6.8	0.81	75.58	2,249	26.5 LT	0.07	0.14	0.02	1954	1958	1964	11.52	C	C	1980
RW-2(452-462)	5/10/2012 (Benzene) 5/16/2012 (Other)	452 to 462	BR	0.23 J	-7.77	-48.7	5.6	0.67	32.87	8,938	ND	*62.45*	*26.64*	0.12	OR	OR	1979	2.94	NC[c]	NC[c]	NC[c]
RW-8(163-173)	5/3/2012	163 to 173	BR	< 0.22	-8.09	-49.3	3.2	0.38	56.82	4,541	74.5 LT	*38.23*	*27.46*	0.11	OR	OR	1978	> 15	C	C	C
RW-10(120-130)	4/19/2012 (Benzene) 5/4/2012 (Other)	120 to 130	BR	-	-8.97	-56.7	5.6	0.67	55.85	4,679	ND	0.96	*136.50*	0.01	1968	OR	1959				
RW-10(185-195)	4/17/2012 (Benzene) 5/4/2012 (Other)	185 to 195	BR	-	-8.81	-54.6	6.2	0.74	80.80	1,713	288.5	0.28	*4.90*	0.00	1962	OR	1943	> 15	C	C	C
RW-10A(51-61)	4/18/2012 (Benzene) 5/7/2012 (Other)	51 to 61	BR	< 0.22	-7.67	-45.6	6.0	0.72	94.95	416	568.5	1.59	1.34	0.07	1972	1977	1975	> 15	C	C	C
RW-10A(75-85)	4/18/2012 (Benzene) 5/7/2012 (Other)	75 to 85	BR	< 0.22	-7.49	-44.7	5.5	0.66	93.69	523	647.5	NM	NM	NM	NM	NM	NM	> 15	C	C	C

[1] Values in parenthesis indicate screened interval where sample is collected
[2] Percentage values greater than 100% indicates modern water, impacted by nuclear testing, with recharge in the last 60 year
[3] Recharge years for CFCs based on a range of three samples from each location. Two values indicate non-unique recharge years for a given concentratio
Depth = Sampling Depth or Screened Interval in feet below ground surface (ft bgs)
ft bgs = feet below ground surface
Bq/L = Becquerels per liter
BR = Bedrock aquifer
CFC = chlorofluorocarbon
J = Estimated Value
LT= Result is less than requested method detection limit, but greater than sample specific method detection limit
µg/L = micrograms per liter
N/A = not applicable. Depth not reported for surface water locations
ND = Result is lower than the requested sample method detection limit
OR = out of range (recharge date could not be calculated because measured concentration is higher than maximum historical value)
Italic = concentration corresponding to an out of range date
pCi/L= Picocuries per liter
per mil = parts per thousand
pmc = percent modern carbon
pmoles/kg = picomoles per kilogram
pptv = parts per thousand by volume
SB= Soil Boring. SC-1 and SC-2 are completed soil borings screened in the Peters Mine Pit and Canon Mine Pit, respectively
SF_6 = Sulfur Hexafluoride
TU = Tritium Units.
1TU = 3.221 Picocuries/L
1TU = 0.11919 Becquerels/L
UC = Unconsolidated aquifer
- = not analyzed or not calculated
C = value is outside the maximum range of the calibration curve
NC[a] = concentration and recharge year could not be determined because the bottle broke en route
[b] = high dissolved gas
NC[c] = recharge year could not be calculated because salinity was not measured

Table 12
Summary of Geochemical Water Types

Revised CMP Area Remedial Investigation Report
Ringwood Mines/Landfill Site, Ringwood

Sample Location[1]	Sample Date	Depth (ft bgs)	Geologic Unit	Benzene (ug/L)	Water Type
Peters Mine Area					
Surface Water					
SW-11	5/3/2012	N/A	SW	< 0.22	Ca-Mg-HCO3-SO4
SW-PAB-01	5/3/2012	N/A	SW	< 0.22	Ca-Mg-HCO3-SO4
SW-PAB-01A	5/2/2012	N/A	SW	< 0.22	Ca-Mg-HCO3-SO4
SW-PAB-00	5/4/2012	N/A	SW	< 0.22	Na-K-Ca-HCO3-SO4
SW-PAB-02	5/2/2012	N/A	SW	< 0.22	Ca-HCO3-SO4
Peters Mine Air Shaft					
PMAirShaft-50	4/23/2012	50	Air Shaft	< 0.22	Ca-Mg-Na-HCO3-SO4
PMAirShaft-180	4/23/2012	180	Air Shaft	< 0.22	Ca-Mg-Na-HCO3-SO4
PMAirShaft-230	4/24/2012	230	Air Shaft	< 0.22	Ca-Mg-Na-HCO3-SO4
Groundwater Monitoring Locations					
OB-11R	4/26/2012	25 to 40	UC	3.7	Ca-HCO3
OB-19	4/25/2012	5 to 20	UC	0.32 J	Ca-HCO3-SO4
OB-20A	4/27/2012	5 to 20	UC	< 0.22	Ca-HCO3
OB-20B	4/27/2012	24 to 34	UC	0.66 J	Ca-HCO3
OB-21	4/24/2012	6 to 21	UC	< 0.22	Ca-Mg-HCO3-SO4
OB-27	4/25/2012	24.5 to 39.5	UC	5.5	Ca-HCO3
SC-1	4/27/2012	64.4 to70.9	SB	1.2	Ca-HCO3
RW-3(77-87)	4/27/2012	77 to 87	BR	< 0.22	Ca-Mg-HCO3
RW-3DS(155-160)	4/30/2012	155 to 160	BR	< 0.22	Na-K-SO4
RW-3DD(175-180)	4/30/2012	175 to 180	BR	< 0.22	Na-Ca-SO4
RW-4(333-343)	4/25/2012	333 to 343	BR	< 0.22	Ca-Na
RW-4(393-403)	4/26/2012	393 to 403	BR	< 0.22	Ca-Mg-Na-HCO3-SO4
RW-4A(62-72)	4/25/2012	62 to 72	BR	< 0.22	Ca-Mg-Na-HCO3-SO4
RW-4A(113-123)	4/25/2012	113 to 123	BR	< 0.22	Ca-Mg-Na-HCO3-SO4
RW-5	4/26/2012	99 to 119	BR	< 0.22	Ca-Mg-HCO3
RW-5A	4/25/2012	54 to 74	BR	< 0.22	Ca-Na-K-HCO3
RW-6	4/27/2012	99 to 119	BR	0.74 J	Ca-Mg
RW-6A	4/27/2012	58 to 78	BR	2	Ca-Mg-HCO3
RW-7	4/24/2012	99 to 119	BR	< 0.22	Ca-Mg-HCO3-SO4
RW-11S(236-241)	5/1/2012	236 to 241	BR	< 0.22	Ca-HCO3-SO4
Cannon Mine Area					
Surface Water					
SW-03	5/4/2012	N/A	SW	< 0.22	Na-K-Ca-HCO3-Cl-SO4
SW-PMB-02	5/1/2012	N/A	SW	< 0.22	Ca-Na-HCO3-Cl
SW-MRB-01	5/2/2012	N/A	SW	< 0.22	Ca-Mg-Na-HCO3-SO4
Canon Mine Air Shaft					
CM Shaft(50)	5/7/2012	50	Air Shaft	< 0.22	HCO3-Cl
CM Shaft(100)	5/7/2012	100	Air Shaft	< 0.22	Na-Ca-Cl-HCO3
CM Shaft (160)	5/9/2012	160	Air Shaft	< 0.22	Ca-Na-Cl-HCO3
CM Shaft(275)	5/9/2012	275	Air Shaft	< 0.22	Ca-Na-HCO3-Cl
Groundwater Monitoring Locations					
OB-1	4/26/2012	5 to 31	BR	< 0.22	NC
OB-2	4/19/2012 (Benzene) 6/19/2012 (Other)	8 to 42	BR	< 0.22	NC
OB-3	4/23/2012	9 to 24	BR	< 0.22	Ca-Mg-HCO3-SO4
OB-4	4/27/2012	28 to 61	BR	< 0.22	Na-Ca-Cl-HCO3
OB-5	4/19/2012 (Benzene) 6/20/2012 (Other)	18 to 63	BR	< 0.22	NC
SC-2	4/19/2012 (Benzene) 6/19/2012 (Other)	47 to 67	SB	< 0.22	Ca-Mg-HCO3
RW-1(64-74)	4/17/2012	64 to 74	BR	< 0.22	NC
RW-1(131-141)	4/17/2012	131 to 141	BR	< 0.22	NC
RW-2(279-289)	5/8/2012	279 to 289	BR	< 0.22	Ca-Na-Cl
RW-2(452-462)	5/10/2012 (Benzene) 5/16/2012 (Other)	452 to 462	BR	0.23 J	Na-Ca-K
RW-8(163-173)	5/3/2012	163 to 173	BR	<0.22	Na-Ca-SO4-HCO3
RW-9(206-216)	4/20/2012	206 to 216	BR	< 0.22	Na-Ca-Mg

[1] Values in paranthesis idicate screened interval where sample is collected

Depth = Sampling Depth or Screened Interval in feet below ground surface (ft bgs)

ft bgs = feet below ground surface

N/A = Not applicable. Depth not reported for surface water locations

NC = Not Calculated. Water type could not be determined as some anion/cation species were absent from the analytical suite

UC = Unconsolidated aquifer

BR = Bedrock aquifer

SB= Soil Boring. SC-1 and SC-2 are completed soil borings screened in the Peters Mine Pit and Canon Mine Pit, respectively

SW = Surface Water

Na = Sodium

K = Potassium

Ca = Calcium

Mg = Magnesium

Cl= Chloride

SO4 = Sulfate

HCO3 = Bicarbonate

µg/L = micrograms per litre

J = Estimated Value

Table 13. Summary of Stream Gauge Measurements, June - August 2012 Ringwood Mines / Landfill Site, Ringwood, NJ

Stream Gauge	Date Collected	Gauge Reading (Feet)	Measuring Point Elevation Correction (Feet AMSL)	Surface Water Elevation (Feet AMSL)
SW/SD-11	6/26/2012	1.30	526.78	528.08
	6/29/2012	1.24	526.78	528.02
	7/3/2012	1.10	526.78	527.88
	7/5/2012	1.09	526.78	527.87
	7/10/2012	0.99	526.78	527.77
	7/12/2012	1.10	526.78	527.88
	7/17/2012	1.03	526.78	527.81
	7/20/2012	1.64	526.78	528.42
	7/24/2012	1.18	526.78	527.96
	7/27/2012	1.21	526.78	527.99
	7/31/2012	1.19	526.78	527.97
	8/3/2012	1.11	526.78	527.89
	8/6/2012	1.20	526.78	527.98
	8/8/2012	1.07	526.78	527.85
SW/SD-PAB-01	6/26/2012	0.17	513.25	513.42
	6/29/2012	0.17	513.25	513.42
	7/3/2012	0.06	513.25	513.31
	7/5/2012	0.06	513.25	513.31
	7/10/2012	-0.04	513.25	513.21
	7/12/2012	0.02	513.25	513.27
	7/17/2012	-0.14	513.25	513.11
	7/20/2012	0.30	513.25	513.55
	7/24/2012	0.11	513.25	513.36
	7/27/2012	0.11	513.25	513.36
	7/31/2012	0.16	513.25	513.41
	8/3/2012	0.22	513.25	513.47
	8/6/2012	0.15	513.25	513.40
	8/8/2012	0.14	513.25	513.39
SW/SD-12/PAB-01A	6/26/2012	0.23	493.80	494.03
	6/29/2012	0.18	493.80	493.98
	7/3/2012	0.11	493.80	493.91
	7/5/2012	0.11	493.80	493.91
	7/10/2012	0.07	493.80	493.87
	7/12/2012	0.09	493.80	493.89
	7/17/2012	0.08	493.80	493.88
	7/20/2012	0.37	493.80	494.17
	7/24/2012	0.13	493.80	493.93
	7/27/2012	0.16	493.80	493.96
	7/31/2012	0.17	493.80	493.97
	8/3/2012	0.12	493.80	493.92
	8/6/2012	0.16	493.80	493.96
	8/8/2012	0.11	493.80	493.91
SW/SD-8/PAB-00	6/26/2012	0.50	551.12	551.62
	6/29/2012	0.40	551.12	551.52
	7/3/2012	0.12	551.12	551.24
	7/5/2012	0.01	551.12	551.13
	7/10/2012	-0.04	551.12	551.08
	7/12/2012	0.06	551.12	551.18
	7/17/2012	-0.04	551.12	551.08
	7/20/2012	0.77	551.12	551.89
	7/24/2012	0.20	551.12	551.32
	7/27/2012	0.33	551.12	551.45
	7/31/2012	0.24	551.12	551.36
	8/3/2012	0.08	551.12	551.20
	8/6/2012	0.27	551.12	551.39
	8/8/2012	-0.04	551.12	551.08
SW/SD-PAB-02	6/26/2012	1.00	488.97	489.97
	6/29/2012	0.78	488.97	489.75
	7/3/2012	0.51	488.97	489.48
	7/5/2012	0.49	488.97	489.46
	7/10/2012	0.66	488.97	489.63
	7/12/2012	0.32	488.97	489.29
	7/17/2012	0.65	488.97	489.62
	7/20/2012	0.48	488.97	489.45
	7/24/2012	0.55	488.97	489.52
	7/27/2012	0.52	488.97	489.49
	7/31/2012	0.79	488.97	489.76
	8/3/2012	0.69	488.97	489.66
	8/6/2012	0.67	488.97	489.64
	8/8/2012	0.56	488.97	489.53

Table 13. Summary of Stream Gauge Measurements, June - August 2012 Ringwood Mines / Landfill Site, Ringwood, NJ

Stream Gauge	Date Collected	Gauge Reading	Measuring Point Elevation Correction	Surface Water Elevation
SW/SD-3	6/26/2012	0.68	415.48	416.16
	6/29/2012	0.52	415.48	416.00
	7/3/2012	0.37	415.48	415.85
	7/5/2012	0.41	415.48	415.89
	7/10/2012	0.19	415.48	415.67
	7/12/2012	0.26	415.48	415.74
	7/17/2012	0.35	415.48	415.83
	7/20/2012	0.67	415.48	416.15
	7/24/2012	0.43	415.48	415.91
	7/27/2012	0.53	415.48	416.01
	7/31/2012	0.69	415.48	416.17
	8/3/2012	0.51	415.48	415.99
	8/6/2012	0.44	415.48	415.92
	8/8/2012	0.39	415.48	415.87
SW/SD-7-PMB-02	6/26/2012	0.74	456.85	457.59
	6/29/2012	0.74	456.85	457.59
	7/3/2012	0.69	456.85	457.54
	7/5/2012	0.69	456.85	457.54
	7/10/2012	0.66	456.85	457.51
	7/12/2012	0.68	456.85	457.53
	7/17/2012	0.65	456.85	457.50
	7/20/2012	0.82	456.85	457.67
	7/24/2012	0.68	456.85	457.53
	7/27/2012	0.71	456.85	457.56
	7/31/2012	0.60	456.85	457.45
	8/3/2012	0.57	456.85	457.42
	8/6/2012	0.58	456.85	457.43
	8/8/2012	0.56	456.85	457.41
SW/SD-MRB-01	6/26/2012	1.29	475.91	477.20
	6/29/2012	1.18	475.91	477.09
	7/3/2012	1.10	475.91	477.01
	7/5/2012	1.07	475.91	476.98
	7/10/2012	0.57	475.91	476.48
	7/12/2012	0.81	475.91	476.72
	7/17/2012	0.81	475.91	476.72
	7/20/2012	0.88	475.91	476.79
	7/24/2012	0.85	475.91	476.76
	7/27/2012	1.19	475.91	477.10
	7/31/2012	1.16	475.91	477.07
	8/3/2012	1.00	475.91	476.91
	8/6/2012	0.95	475.91	476.86
	8/8/2012	0.9	475.91	476.81
Peters Mine Pond	6/26/2012	2.42	517.94	520.36
	6/29/2012	2.38	517.94	520.32
	7/3/2012	2.32	517.94	520.26
	7/5/2012	2.28	517.94	520.22
	7/10/2012	2.19	517.94	520.13
	7/12/2012	2.20	517.94	520.14
	7/17/2012	2.18	517.94	520.12
	7/20/2012	2.27	517.94	520.21
	7/24/2012	2.27	517.94	520.21
	7/27/2012	2.27	517.94	520.21
	7/31/2012	2.38	517.94	520.32
	8/3/2012	2.31	517.94	520.25
	8/6/2012	2.29	517.94	520.23
	8/8/2012	2.26	517.94	520.20

Notes:			
	Rain Gauge	6/26/2012	0.1 in
		6/29/2012	0.8 in
		7/3/2012	0.0 in
		7/5/2012	0.05 in
		7/10/2012	0.0 in
		7/12/2012	0.5 in
		7/17/2012	0.3 in
		7/20/2012	1.6 in
		7/24/2012	0.4 in
		7/27/2012	0.4 in
		7/31/2012	1.9 in
		8/3/2012	0.0 in
		8/6/2012	0.4 in
		8/8/2012	0.0 in

Landfill Area				Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area
Location ID				**CM SHAFT**	**CM SHAFT**	**CM SHAFT**	**CM SHAFT**	**OB-01**	**OB-01**	**OB-02**	**OB-02**
Sample ID		**GWQS[1]**	**EPA**	**CMSHAFT(50)(050712)**	**CMSHAFT(100)(050712)**	**CM SHAFT (160)(050912)**	**CM SHAFT (275)(050912)**	**OB-1 (042612)**	**OB-1**	**OB-2 (041912)**	**OB-2**
Sample Date			**MCLs**	**5/7/2012**	**5/7/2012**	**5/9/2012**	**5/9/2012**	**4/26/2012**	**6/25/2012**	**4/19/2012**	**6/19/2012**
Validation Status	**Units**			**Final**	**Final**	**Final**	**Final**	**Final**	**Final**	**Final**	**Final**
VOC											
1,1,1-Trichloroethane	ug/l	30	200	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	NA	< 0.24	NA
1,1,2,2-Tetrachloroethane	ug/l	1	NS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	NA	< 0.2	NA
1,1,2-Trichloroethane	ug/l	3	5	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	NA	< 0.23	NA
1,1-Dichloroethane	ug/l	50	NS	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	NA	< 0.19	NA
1,1-Dichloroethene	ug/l	1	7	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	NA	< 0.28	NA
1,2,4-Trichlorobenzene	ug/l	9	70	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	NA	< 0.15	NA
1,2-Dibromo-3-Chloropropane (DBCP)	ug/l	0.02 [1]	0.2	< 1.3*	< 1.3*	< 1.3*	< 1.3*	< 1.3*	NA	< 1.3*	NA
1,2-Dibromoethane	ug/l	0.03 [0.5]	0.05	< 0.21*	< 0.21*	< 0.21*	< 0.21*	< 0.21*	NA	< 0.21*	NA
1,2-Dichlorobenzene	ug/l	600	600	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	NA	< 0.18	NA
1,2-Dichloroethane	ug/l	2	5	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	NA	< 0.18	NA
1,2-Dichloropropane	ug/l	1	5	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	NA	< 0.22	NA
1,3-Dichlorobenzene	ug/l	600	NS	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	NA	< 0.29	NA
1,4-Dichlorobenzene	ug/l	75	75	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	NA	< 0.26	NA
2-Butanone (MEK)	ug/l	300	NS	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	NA	< 2.9	NA
2-Hexanone	ug/l	NS	NS	< 3	< 3	< 3	< 3	< 3	NA	< 3	NA
4-methyl-2-pentanone (MIBK)	ug/l	NS	NS	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	NA	< 1.2	NA
Acetone	ug/l	6000	NS	< 5	< 5	< 5	< 5	< 5	NA	< 7.6	NA
Benzene	ug/l	1	5	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	NA	< 0.22	NA
Bromodichloromethane	ug/l	1	80	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	NA	< 0.23	NA
Bromoform	ug/l	4	80	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	NA	< 0.24	NA
Bromomethane	ug/l	10	NS	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	NA	< 0.31	NA
Carbon disulfide	ug/l	700	NS	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	NA	< 0.18	NA
Carbon tetrachloride	ug/l	1	5	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	NA	< 0.19	NA
Chlorobenzene	ug/l	50	100	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	NA	< 0.22	NA
Chloroethane	ug/l	NS	NS	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	NA	< 0.37	NA
Chloroform	ug/l	70	80	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	NA	< 0.21	NA
Chloromethane	ug/l	NS	NS	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	NA	< 0.22	NA
cis-1,2-Dichloroethene	ug/l	70	70	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	NA	< 0.22	NA
cis-1,3-Dichloropropene	ug/l	NS	NS	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	NA	< 0.22	NA
Cyclohexane	ug/l	NS	NS	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	NA	< 0.29	NA
Dibromochloromethane	ug/l	1	80	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	NA	< 0.2	NA
Dichlorodifluoromethane	ug/l	1,000	NS	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	NA	< 0.31	NA
Ethylbenzene	ug/l	700	700	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	NA	< 0.21	NA
Freon 113	ug/l	NS	NS	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	NA	< 0.49	NA
Isopropylbenzene	ug/l	700	NS	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	NA	< 0.19	NA
Methyl acetate	ug/l	7000	NS	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	NA	< 2.9	NA
Methyl tert butyl ether	ug/l	70	NS	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	NA	< 0.18	NA
Methylcyclohexane	ug/l	NS	NS	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	NA	< 0.18	NA
Methylene chloride	ug/l	3	5	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	NA	< 0.2	NA
Styrene	ug/l	100	100	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	NA	< 0.23	NA
Tetrachloroethene	ug/l	1	5	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	NA	< 0.32	NA
Toluene	ug/l	600	1000	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	NA	< 0.15	NA
Trans-1,2-dichloroethene	ug/l	100	100	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	NA	< 0.31	NA
trans-1,3-Dichloropropene	ug/l	NS	NS	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	NA	< 0.19	NA
Trichloroethene	ug/l	1	5	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	NA	< 0.21	NA
Trichlorofluoromethane	ug/l	2000	NS	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	NA	< 0.35	NA
Vinyl Chloride	ug/l	1	2	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	NA	< 0.27	NA
Xylenes	ug/l	1,000	10000	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	NA	< 0.17	NA
Total TIC, Volatile	ug/l	NS	NS	0	0	0	0	0	NA	0	NA

Landfill Area				Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area
Location ID				**CM SHAFT**	**CM SHAFT**	**CM SHAFT**	**CM SHAFT**	**OB-01**	**OB-01**	**OB-02**	**OB-02**
Sample ID		**GWQS[1]**	**EPA**	**CMSHAFT(50)(050712)**	**CMSHAFT(100)(050712)**	**CM SHAFT (160)(050912)**	**CM SHAFT (275)(050912)**	**OB-1 (042612)**	**OB-1**	**OB-2 (041912)**	**OB-2**
Sample Date			**MCLs**	**5/7/2012**	**5/7/2012**	**5/9/2012**	**5/9/2012**	**4/26/2012**	**6/25/2012**	**4/19/2012**	**6/19/2012**
Validation Status	**Units**			**Final**	**Final**	**Final**	**Final**	**Final**	**Final**	**Final**	**Final**
SVOC											
1,1'-Biphenyl	ug/l	400	NS	< 0.33	< 0.33	< 0.3	< 0.3	< 0.31	NA	< 0.33	NA
2,4,5-Trichlorophenol	ug/l	700	NS	< 1.7	< 1.7	< 1.6	< 1.6	< 1.6	NA	< 1.7	NA
2,4,6-Trichlorophenol	ug/l	20	NS	< 1.4	< 1.4	< 1.3	< 1.3	< 1.3	NA	< 1.4	NA
2,4-Dichlorophenol	ug/l	20	NS	< 1.3	< 1.3	< 1.2	< 1.2	< 1.2	NA	< 1.3	NA
2,4-Dimethylphenol	ug/l	100	NS	< 1.7	< 1.7	< 1.5	< 1.5	< 1.5	NA	< 1.7	NA
2,4-Dinitrophenol	ug/l	40	NS	< 18	< 18	< 17	< 17	< 17	NA	< 18	NA
2,4-Dinitrotoluene	ug/l	NS	NS	< 0.47	< 0.47	< 0.43	< 0.43	< 0.43	NA	< 0.47	NA
2,6-Dinitrotoluene	ug/l	NS	NS	< 0.51	< 0.5	< 0.46	< 0.46	< 0.47	NA	< 0.51	NA
2-Chloronaphthalene	ug/l	600	NS	< 0.33	< 0.32	< 0.3	< 0.3	< 0.3	NA	< 0.33	NA
2-Chlorophenol	ug/l	40	NS	< 1.1	< 1.1	< 0.97	< 0.97	< 0.98	NA	< 1.1	NA
2-Methylnaphthalene	ug/l	NS	NS	< 0.42	< 0.42	< 0.38	< 0.38	< 0.39	NA	< 0.42	NA
2-Methylphenol	ug/l	NS	NS	< 1.1	< 1.1	< 1	< 1	< 1.1	NA	< 1.1	NA
2-Nitroaniline	ug/l	NS	NS	< 1.2	< 1.2	< 1.1	< 1.1	< 1.1	NA	< 1.2	NA
2-Nitrophenol	ug/l	NS	NS	< 1.7	< 1.6	< 1.5	< 1.5	< 1.5	NA	< 1.6	NA
3&4-Methylphenol	ug/l	NS	NS	< 1	< 1	< 0.93	< 0.93	< 0.93	NA	< 1	NA
3,3'-Dichlorobenzidine	ug/l	30	NS	< 0.4	< 0.39	< 0.36	< 0.36	< 0.36	NA	< 0.4	NA
3-Nitroaniline	ug/l	NS	NS	< 1.4	< 1.4	< 1.3	< 1.3	< 1.3	NA	< 1.4	NA
4,6-Dinitro-2-methylphenol	ug/l	NS	NS	< 1.1	< 1.1	< 0.99	< 0.99	< 1	NA	< 1.1	NA
4-Bromophenyl phenyl ether	ug/l	NS	NS	< 0.39	< 0.39	< 0.36	< 0.36	< 0.36	NA	< 0.39	NA
4-Chloro-3-Methylphenol	ug/l	NS	NS	< 2	< 2	< 1.8	< 1.8	< 1.8	NA	< 2	NA
4-Chloroaniline	ug/l	30	NS	< 0.58	< 0.58	< 0.53	< 0.53	< 0.53	NA	< 0.58	NA
4-Chlorophenyl phenyl ether	ug/l	NS	NS	< 0.34	< 0.34	< 0.31	< 0.31	< 0.32	NA	< 0.34	NA
4-Nitroaniline	ug/l	NS	NS	< 1.8	< 1.8	< 1.7	< 1.7	< 1.7	NA	< 1.8	NA
4-Nitrophenol	ug/l	NS	NS	< 5.7	< 5.7	< 5.2	< 5.2	< 5.3	NA	< 5.7	NA
Acetophenone	ug/l	700	NS	< 0.32	< 0.31	< 0.29	< 0.29	< 0.29	NA	< 0.31	NA
Atrazine	ug/l	3	3	< 0.54	< 0.53	< 0.49	< 0.49	< 0.49	NA	< 0.54	NA
Benzaldehyde	ug/l	NS	NS	< 3.6	< 3.6	< 3.3	< 3.3	< 3.3	NA	< 3.6	NA
Benzyl butyl phthalate	ug/l	100	NS	< 0.32	< 0.32	< 0.29	< 0.29	< 0.29	NA	< 0.32	NA
bis(2-Chloroethoxy)methane	ug/l	NS	NS	< 0.34	< 0.34	< 0.31	< 0.31	< 0.31	NA	< 0.34	NA
bis(2-Chloroethyl)ether	ug/l	7	NS	< 0.34 J	< 0.34 J	< 0.31	< 0.31	< 0.31	NA	< 0.34	NA
bis(2-Chloroisopropyl)ether	ug/l	300	NS	< 0.5	< 0.5	< 0.45	< 0.45	< 0.46	NA	< 0.5	NA
bis(2-Ethylhexyl)phthalate	ug/l	3	6	< 0.65	< 0.64	< 0.59	< 0.59	< 0.59	NA	< 0.64	NA
Caprolactam	ug/l	NS	NS	< 0.76	< 0.75	< 0.69	< 0.69	< 0.7	NA	< 0.76	NA
Carbazole	ug/l	NS	NS	< 0.4	< 0.39	< 0.36	< 0.36	< 0.36	NA	< 0.4	NA
Dibenzofuran	ug/l	NS	NS	< 0.29	< 0.29	< 0.27	< 0.27	< 0.27	NA	< 0.29	NA
Diethyl phthalate	ug/l	6000	NS	< 0.36	< 0.36	< 0.33	< 0.33	< 0.33	NA	< 0.36	NA
Dimethyl phthalate	ug/l	NS	NS	< 0.31	< 0.31	< 0.28	< 0.28	< 0.29	NA	< 0.31	NA
di-n-butyl phthalate	ug/l	700	NS	< 0.61	< 0.61	< 0.56	< 0.56	< 0.56	NA	< 0.61	NA
di-n-octylphthalate	ug/l	100	NS	< 0.34	< 0.34	< 0.31	< 0.31	< 0.31	NA	< 0.34	NA
Hexachlorobutadiene	ug/l	1	NS	< 0.57	< 0.56	< 0.51	< 0.51	< 0.52	NA	< 0.56	NA
Hexachlorocyclopentadiene	ug/l	40	50	< 7.9	< 7.8	< 7.1	< 7.1	< 7.2	NA	< 7.8	NA
Hexachloroethane	ug/l	7	NS	< 0.61	< 0.6	< 0.55	< 0.55	< 0.56	NA	< 0.6	NA
Isophrone	ug/l	40	NS	< 0.3	< 0.3	< 0.27	< 0.27	< 0.28	NA	< 0.3	NA
Nitrobenzene	ug/l	6	NS	< 0.46	< 0.46	< 0.42	< 0.42	< 0.42	NA	< 0.46	NA
N-Nitroso-di-n-Propylamine	ug/l	10	NS	< 0.33	< 0.33	< 0.3	< 0.3	< 0.31	NA	< 0.33	NA
N-Nitrosodiphenylamine	ug/l	10	NS	< 0.34	< 0.33	< 0.31	< 0.31	< 0.31	NA	< 0.34	NA
Phenol	ug/l	2000	NS	< 1.4	< 1.4	< 1.3	< 1.3	< 1.3	NA	< 1.4	NA
Total TIC, Semi-Volatile	ug/l	NS	NS	0	0	0	0	0	NA	0	NA

Landfill Area				Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area
Location ID				**CM SHAFT**	**CM SHAFT**	**CM SHAFT**	**CM SHAFT**	**OB-01**	**OB-01**	**OB-02**	**OB-02**
Sample ID		**GWQS[1]**	**EPA**	**CMSHAFT(50)(050712)**	**CMSHAFT(100)(050712)**	**CM SHAFT (160)(050912)**	**CM SHAFT (275)(050912)**	**OB-1 (042612)**	**OB-1**	**OB-2 (041912)**	**OB-2**
Sample Date			**MCLs**	**5/7/2012**	**5/7/2012**	**5/9/2012**	**5/9/2012**	**4/26/2012**	**6/25/2012**	**4/19/2012**	**6/19/2012**
Validation Status	**Units**			**Final**	**Final**	**Final**	**Final**	**Final**	**Final**	**Final**	**Final**
SVOC BY SIM											
Acenaphthene	ug/l	400	NS	< 0.015	< 0.015	< 0.014	< 0.014	< 0.014	NA	< 0.015	NA
Acenaphthylene	ug/l	NS	NS	< 0.018	< 0.018	< 0.016	< 0.016	< 0.016	NA	< 0.018	NA
Anthracene	ug/l	2000	NS	< 0.011	< 0.011	< 0.01	< 0.01	< 0.01	NA	< 0.011	NA
Benzo(a)anthracene	ug/l	0.1 [0.2]	NS	< 0.017	< 0.017	< 0.015	< 0.015	< 0.015	NA	< 0.017	NA
Benzo(a)pyrene	ug/l	0.1 [0.2]	0.2	< 0.0054	< 0.0054	< 0.0049	< 0.0049	< 0.0049	NA	< 0.0054	NA
Benzo(b)fluoranthene	ug/l	0.2 [10]	NS	< 0.018	< 0.018	< 0.016	< 0.016	< 0.016	NA	< 0.018	NA
Benzo(g,h,i)perylene	ug/l	NS	NS	< 0.011	< 0.011	< 0.01	< 0.01	< 0.01	NA	< 0.011	NA
Benzo(k)fluoranthene	ug/l	0.5	NS	< 0.014	< 0.014	< 0.013	< 0.013	< 0.013	NA	< 0.014	NA
Chrysene	ug/l	5	NS	< 0.026	< 0.025	< 0.023	< 0.023	< 0.023	NA	< 0.025	NA
Dibenzo(a,h)anthracene	ug/l	0.3 [0.5]	NS	< 0.025	< 0.025	< 0.023	< 0.023	< 0.023	NA	< 0.025	NA
Fluoranthene	ug/l	300	NS	< 0.011	< 0.01	< 0.0096	< 0.0096	< 0.0097	NA	< 0.011	NA
Fluorene	ug/l	300	NS	< 0.016	< 0.016	< 0.015	< 0.015	< 0.015	NA	< 0.016	NA
Hexachlorobenzene	ug/l	0.02 [10]	1	< 0.0088	< 0.0087	< 0.008	< 0.008	< 0.0081	NA	< 0.0088	NA
Indeno(1,2,3-cd)pyrene	ug/l	0.2 [10]	NS	< 0.012	< 0.012	< 0.011	< 0.011	< 0.011	NA	< 0.012	NA
Naphthalene	ug/l	300	NS	< 0.018	< 0.018	< 0.016	< 0.016	< 0.016	NA	< 0.018	NA
Pentachlorophenol	ug/l	0.3 [1]	1	< 0.11	< 0.11	< 0.1 J	< 0.1 J	< 0.1 J	NA	< 0.11 J	NA
Phenanthrene	ug/l	NS	NS	< 0.017	< 0.017	< 0.016	< 0.016	< 0.016	NA	< 0.017	NA
Pyrene	ug/l	200	NS	< 0.009	< 0.0089	< 0.0081	< 0.0081	< 0.0082	NA	< 0.0089	NA
PCBs											
PCB 1016	ug/l	0.5	0.5	< 0.13	< 0.13	< 0.13	< 0.13	< 0.14	NA	< 0.14	NA
PCB 1221	ug/l	0.5	0.5	< 0.27	< 0.28	< 0.27	< 0.27	< 0.3	NA	< 0.29	NA
PCB 1232	ug/l	0.5	0.5	< 0.39	< 0.4	< 0.39	< 0.39	< 0.42	NA	< 0.41	NA
PCB 1242	ug/l	0.5	0.5	< 0.086	< 0.09	< 0.086	< 0.086	< 0.095	NA	< 0.092	NA
PCB 1248	ug/l	0.5	0.5	< 0.15	< 0.15	< 0.15	< 0.15	< 0.16	NA	< 0.16	NA
PCB 1254	ug/l	0.5	0.5	< 0.14	< 0.15	< 0.14	< 0.14	< 0.15	NA	< 0.15	NA
PCB 1260	ug/l	0.5	0.5	< 0.21	< 0.22	< 0.21	< 0.21	< 0.23	NA	< 0.22	NA
Total PCBs	ug/l	0.5	0.5	0	0	0	0	0	NA	0	NA
Metals - Total											
Aluminum	ug/l	200	NS	< 16	31.8 J	< 16	< 200	**262**	NA	70.1 J	NA
Antimony	ug/l	6	6	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	NA	< 6	NA
Arsenic	ug/l	3 [8]	10	< 0.97	< 0.97	< 0.97	< 0.97	< 0.97	NA	< 0.97	NA
Barium	ug/l	6000	2000	103 B	106 B	121 B	121 B	5.3 B	NA	5.6 J	NA
Beryllium	ug/l	1	4	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	NA	< 0.44	NA
Cadmium	ug/l	4	5	< 0.24	< 3	< 0.24	< 3	< 0.24	NA	< 0.24	NA
Calcium	ug/l	NS	NS	76800	78300	80100	79100	4620 B	5820	15900	13800
Chromium	ug/l	70	100	< 0.91	3.3 B	< 0.91	< 10	< 0.91	NA	< 0.91	NA
Cobalt	ug/l	NS	NS	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	NA	< 0.59	NA
Copper	ug/l	1,300	1300	< 10	< 10	< 10	< 10	< 10	NA	4.1 J	NA
Iron	ug/l	300	NS	**16000**	**19100**	**19500**	**21000**	**1310**	**656**	261	141 J
Lead	ug/l	5	15	< 1.7	1.7 B	< 3	< 3	< 1.7	NA	< 1.7	NA
Magnesium	ug/l	NS	NS	23300	23000	22300	20900	1520 B	1870 B	5270	4890 B
Manganese	ug/l	50	NS	**1500**	**1500**	**1550**	**1470**	11.1 B	8 B	7.6 J	< 15
Mercury	ug/l	2	2	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	NA	< 0.075	NA
Nickel	ug/l	100	NS	2.5 J	5.5 B	3.2 J	5.6 J	< 0.94	NA	< 0.94	NA
Potassium	ug/l	NS	NS	3120 B	3500 B	4550 B	5000 B	456 B	494 B	1510 B	1420 J
Selenium	ug/l	40	50	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	NA	< 2.4	NA
Silicon	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	40	NS	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	NA	< 0.85	NA
Sodium	ug/l	50,000	NS	**94300**	**86400**	**83600**	**73500**	1820 B	1970 B	3880 B	3430 B
Thallium	ug/l	2 [10]	2	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	NA	< 1.7	NA
Vanadium	ug/l	NS	NS	< 50	< 50	< 50	< 50	1.5 J	NA	< 0.77	NA
Zinc	ug/l	2000	NS	**3100**	**5180**	**2640**	**2230**	< 2.8	NA	3.4 J	NA

Landfill Area				Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area
Location ID				**CM SHAFT**	**CM SHAFT**	**CM SHAFT**	**CM SHAFT**	**OB-01**	**OB-01**	**OB-02**	**OB-02**
Sample ID		**GWQS[1]**	**EPA**	**CMSHAFT(50)(050712)**	**CMSHAFT(100)(050712)**	**CM SHAFT (160)(050912)**	**CM SHAFT (275)(050912)**	**OB-1 (042612)**	**OB-1**	**OB-2 (041912)**	**OB-2**
Sample Date			**MCLs**	**5/7/2012**	**5/7/2012**	**5/9/2012**	**5/9/2012**	**4/26/2012**	**6/25/2012**	**4/19/2012**	**6/19/2012**
Validation Status	**Units**			**Final**	**Final**	**Final**	**Final**	**Final**	**Final**	**Final**	**Final**
Metals - Dissolved											
Aluminum	ug/l	200	NS	< 16	< 16	< 16	< 16	< 16	NA	< 16	NA
Antimony	ug/l	6	6	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	NA	< 6	NA
Arsenic	ug/l	3 [8]	10	< 0.97	< 0.97	< 0.97	< 0.97	< 0.97	NA	< 0.97	NA
Barium	ug/l	6000	2000	87.5 B	92.1 B	103 B	99 B	4 B	NA	5.4 J	NA
Beryllium	ug/l	1	4	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	NA	< 0.44	NA
Cadmium	ug/l	4	5	< 0.24	< 3	< 0.24	< 0.24	< 0.24	NA	< 0.24	NA
Calcium	ug/l	NS	NS	75600	77600	78500	79100	4860 B	NA	14900	NA
Chromium	ug/l	70	100	< 0.91	< 0.91	< 0.91	< 10	< 0.91	NA	< 0.91	NA
Cobalt	ug/l	NS	NS	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	NA	< 0.59	NA
Copper	ug/l	1,300	1300	< 1.3	< 10	< 1.3	< 1.3	< 10	NA	< 10	NA
Iron	ug/l	300	NS	**4890**	**8090**	**11500**	**9140**	< 24	< 100	< 24	82.1 J
Lead	ug/l	5	15	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	NA	< 1.7	NA
Magnesium	ug/l	NS	NS	23100	23100	21900	21000	1520 B	NA	4950 B	NA
Manganese	ug/l	50	NS	**1470**	**1510**	**1530**	**1460**	1.7 J	2.4 J	< 15	< 0.12
Mercury	ug/l	2	2	NA	NA	NA	NA	NA	NA	< 0.075	NA
Nickel	ug/l	100	NS	2.3 J	4.4 B	3 J	3.7 J	< 0.94	NA	< 0.94	NA
Potassium	ug/l	NS	NS	3050 B	3370 B	4460 B	5120 B	433 B	NA	1330 B	NA
Selenium	ug/l	40	50	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	NA	< 2.4	NA
Silver	ug/l	40	NS	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	NA	0.9 B	NA
Sodium	ug/l	50,000	NS	**94400**	**89300**	**83100**	**73300**	1840 B	NA	3790 B	NA
Thallium	ug/l	2 [10]	2	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	NA	< 1.7	NA
Vanadium	ug/l	NS	NS	< 50	< 50	< 50	< 50	< 0.77	NA	< 0.77	NA
Zinc	ug/l	2000	NS	**2620**	**7870**	**2450**	1520	< 2.8	NA	2.8 J	NA
Other											
Alkalinity, Bicarbonate	ug/l	NS	NS	1880000	201000	259000 J	277000 J	NA	14600	48400	43200
Alkalinity, Carbonate	ug/l	NS	NS	< 5000	< 5000	< 5000	< 5000	NA	< 5000	< 5000	< 5000
Alkalinity, total (as CaCO3)	ug/l	NS	NS	185000	201000	259000 J	277000 J	14600	14600	48300	43200
Carbon dioxide	ug/l	NS	NS	7370	5830	7500	7900	NA	3300	NA	6140
Chloride	ug/l	250000	NS	235000	224000	181000	151000	< 2000	< 2000	< 2000	< 2000
Fluoride	ug/l	2000	4000	< 200	< 200	< 200	< 200	NA	< 200	< 200	< 200
Methane	ug/l	NS	NS	5670	2340	7040	7270	NA	< 0.03	NA	< 0.03
Nitrate	ug/l	10000	10000	< 110	< 110	< 110	< 110	NA	< 110	NA	2500
Nitrogen, Nitrate + Nitrite	ug/l	NS	NS	< 100	< 100	< 100	< 100	NA	< 100	NA	2500
Nitrogen, Nitrite	ug/l	1000	1000	< 10	< 10	< 10	< 10	NA	< 10	NA	< 10
Phosphorus, Total	ug/l	NS	NS	220	250	210	220	NA	< 50	NA	< 50
Radon (pCi/l)	ug/l	NS	300	< 37	< 37	< 38	< 38	NA	1930	NA	257
Radon (pCi/l) Replicate	ug/l	NS	300	< 38	< 38	< 38	< 38	NA	1930	NA	237
Silica, Dissolved	ug/l	NS	NS	NA	NA	NA	NA	NA	13200	NA	16600
Sulfate	ug/l	250000	NS	< 10000	< 10000	< 10000	< 10000	< 10000	< 10000	17500	22000
Total organic carbon	ug/l	NS	NS	2400	2400	2400	2400	NA	< 1000	NA	< 1000

See Footnotes on last page

Landfill Area				Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area
Location ID				**OB-03**	**OB-03**	**OB-04**	**OB-05**	**OB-05**	**OB-05**	**OB-12**	**OB-13**
Sample ID		**GWQS[1]**	**EPA**	**OB-3(042312)**	**OB-3(042312) DUP**	**OB-4 (042712)**	**OB-5 (041912)**	**OB-5 (041912) DUP**	**OB-5**	**OB-12 (041912)**	**OB-13 (042012)**
Sample Date			**MCLs**	**4/23/2012**	**4/23/2012**	**4/27/2012**	**4/19/2012**	**4/19/2012**	**6/20/2012**	**4/19/2012**	**4/20/2012**
Validation Status	**Units**			**Final**	**Final**	**Final**	**Final**	**Final**	**Final**	**Final**	**Final**
VOC											
1,1,1-Trichloroethane	ug/l	30	200	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	NA	< 0.24	< 0.24
1,1,2,2-Tetrachloroethane	ug/l	1	NS	< 0.2 J	< 0.2	< 0.2 J	< 0.2	< 0.2	NA	< 0.2	< 0.2
1,1,2-Trichloroethane	ug/l	3	5	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	NA	< 0.23	< 0.23
1,1-Dichloroethane	ug/l	50	NS	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	NA	< 0.19	< 0.19
1,1-Dichloroethene	ug/l	1	7	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	NA	< 0.28	< 0.28
1,2,4-Trichlorobenzene	ug/l	9	70	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	NA	< 0.15	< 0.15
1,2-Dibromo-3-Chloropropane (DBCP)	ug/l	0.02 [1]	0.2	< 1.3* J	< 1.3*	< 1.3* J	< 1.3*	< 1.3*	NA	< 1.3*	< 1.3*
1,2-Dibromoethane	ug/l	0.03 [0.5]	0.05	< 0.21* J	< 0.21*	< 0.21* J	< 0.21*	< 0.21*	NA	< 0.21*	< 0.21*
1,2-Dichlorobenzene	ug/l	600	600	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	NA	< 0.18	< 0.18
1,2-Dichloroethane	ug/l	2	5	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	NA	< 0.18	< 0.18
1,2-Dichloropropane	ug/l	1	5	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	NA	< 0.22	< 0.22
1,3-Dichlorobenzene	ug/l	600	NS	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	NA	< 0.29	< 0.29
1,4-Dichlorobenzene	ug/l	75	75	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	NA	< 0.26	< 0.26
2-Butanone (MEK)	ug/l	300	NS	< 2.9 J	< 2.9	< 2.9 J	< 2.9	< 2.9	NA	< 2.9	< 2.9
2-Hexanone	ug/l	NS	NS	< 3 J	< 3	< 3 J	< 3	< 3	NA	< 3	< 3
4-methyl-2-pentanone (MIBK)	ug/l	NS	NS	< 1.2 J	< 1.2	< 1.2 J	< 1.2	< 1.2	NA	< 1.2	< 1.2
Acetone	ug/l	6000	NS	< 5 J	< 5	< 5 J	< 7.6	< 7.6	NA	< 7.6	< 7.6
Benzene	ug/l	1	5	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	NA	< 0.22	< 0.22
Bromodichloromethane	ug/l	1	80	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	NA	< 0.23	< 0.23
Bromoform	ug/l	4	80	< 0.24 J	< 0.24	< 0.24	< 0.24	< 0.24	NA	< 0.24	< 0.24
Bromomethane	ug/l	10	NS	< 0.31	< 0.31	< 0.31 J	< 0.31	< 0.31	NA	< 0.31	< 0.31
Carbon disulfide	ug/l	700	NS	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	NA	< 0.18	< 0.18
Carbon tetrachloride	ug/l	1	5	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	NA	< 0.19	< 0.19
Chlorobenzene	ug/l	50	100	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	NA	< 0.22	< 0.22
Chloroethane	ug/l	NS	NS	< 0.37	< 0.37	< 0.37 J	< 0.37	< 0.37	NA	< 0.37	< 0.37
Chloroform	ug/l	70	80	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	NA	< 0.21	< 0.21
Chloromethane	ug/l	NS	NS	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	NA	< 0.22	< 0.22
cis-1,2-Dichloroethene	ug/l	70	70	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	NA	< 0.22	< 0.22
cis-1,3-Dichloropropene	ug/l	NS	NS	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	NA	< 0.22	< 0.22
Cyclohexane	ug/l	NS	NS	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	NA	< 0.29	< 0.29
Dibromochloromethane	ug/l	1	80	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	NA	< 0.2	< 0.2
Dichlorodifluoromethane	ug/l	1,000	NS	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	NA	< 0.31	< 0.31
Ethylbenzene	ug/l	700	700	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	NA	< 0.21	< 0.21
Freon 113	ug/l	NS	NS	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	NA	< 0.49	< 0.49
Isopropylbenzene	ug/l	700	NS	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	NA	< 0.19	< 0.19
Methyl acetate	ug/l	7000	NS	< 2.9	< 2.9	< 2.9 J	< 2.9	< 2.9	NA	< 2.9	< 2.9
Methyl tert butyl ether	ug/l	70	NS	< 0.18	< 0.18	< 0.18	0.57 J	0.55 J	NA	< 0.18	< 0.18
Methylcyclohexane	ug/l	NS	NS	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	NA	< 0.18	< 0.18
Methylene chloride	ug/l	3	5	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	NA	< 0.2	< 0.2
Styrene	ug/l	100	100	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	NA	< 0.23	< 0.23
Tetrachloroethene	ug/l	1	5	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	NA	< 0.32	< 0.32
Toluene	ug/l	600	1000	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	NA	< 0.15	< 0.15
Trans-1,2-dichloroethene	ug/l	100	100	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	NA	< 0.31	< 0.31
trans-1,3-Dichloropropene	ug/l	NS	NS	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	NA	< 0.19	< 0.19
Trichloroethene	ug/l	1	5	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	NA	< 0.21	< 0.21
Trichlorofluoromethane	ug/l	2000	NS	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	NA	< 0.35	< 0.35
Vinyl Chloride	ug/l	1	2	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	NA	< 0.27	< 0.27
Xylenes	ug/l	1,000	10000	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	NA	< 0.17	< 0.17
Total TIC, Volatile	ug/l	NS	NS	0	0	0	0	0	NA	0	0

Landfill Area				Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area
Location ID				**OB-03**	**OB-03**	**OB-04**	**OB-05**	**OB-05**	**OB-05**	**OB-12**	**OB-13**
Sample ID		**GWQS[1]**	**EPA**	**OB-3(042312)**	**OB-3(042312) DUP**	**OB-4 (042712)**	**OB-5 (041912)**	**OB-5 (041912) DUP**	**OB-5**	**OB-12 (041912)**	**OB-13 (042012)**
Sample Date			**MCLs**	**4/23/2012**	**4/23/2012**	**4/27/2012**	**4/19/2012**	**4/19/2012**	**6/20/2012**	**4/19/2012**	**4/20/2012**
Validation Status	**Units**			**Final**	**Final**	**Final**	**Final**	**Final**	**Final**	**Final**	**Final**
SVOC											
1,1'-Biphenyl	ug/l	400	NS	< 0.34	< 0.34	< 0.32	< 0.3	< 0.33	NA	< 0.34	< 0.32
2,4,5-Trichlorophenol	ug/l	700	NS	< 1.8	< 1.8	< 1.7	< 1.6	< 1.7	NA	< 1.7	< 1.6
2,4,6-Trichlorophenol	ug/l	20	NS	< 1.4	< 1.4	< 1.4	< 1.3	< 1.4	NA	< 1.4	< 1.4
2,4-Dichlorophenol	ug/l	20	NS	< 1.3	< 1.3	< 1.2	< 1.2	< 1.3	NA	< 1.3	< 1.2
2,4-Dimethylphenol	ug/l	100	NS	< 1.7	< 1.7	< 1.6	< 1.5	< 1.7	NA	< 1.7	< 1.6
2,4-Dinitrophenol	ug/l	40	NS	< 19	< 19	< 18	< 17	< 18	NA	< 18	< 17
2,4-Dinitrotoluene	ug/l	NS	NS	< 0.48	< 0.48	< 0.45	< 0.43	< 0.47	NA	< 0.47	< 0.45
2,6-Dinitrotoluene	ug/l	NS	NS	< 0.52	< 0.52	< 0.49	< 0.46	< 0.5	NA	< 0.51	< 0.49
2-Chloronaphthalene	ug/l	600	NS	< 0.33	< 0.33	< 0.32	< 0.3	< 0.32	NA	< 0.33	< 0.31
2-Chlorophenol	ug/l	40	NS	< 1.1	< 1.1	< 1	< 0.97	< 1.1	NA	< 1.1	< 1
2-Methylnaphthalene	ug/l	NS	NS	< 0.43	< 0.43	< 0.41	< 0.38	< 0.42	NA	< 0.43	< 0.4
2-Methylphenol	ug/l	NS	NS	< 1.2	< 1.2	< 1.1	< 1	< 1.1	NA	< 1.2	< 1.1
2-Nitroaniline	ug/l	NS	NS	< 1.2	< 1.2	< 1.2	< 1.1	< 1.2	NA	< 1.2	< 1.2
2-Nitrophenol	ug/l	NS	NS	< 1.7	< 1.7	< 1.6	< 1.5	< 1.6	NA	< 1.7	< 1.6
3&4-Methylphenol	ug/l	NS	NS	< 1	< 1	< 0.98	< 0.93	< 1	NA	< 1	< 0.97
3,3'-Dichlorobenzidine	ug/l	30	NS	< 0.4	< 0.4	< 0.38	< 0.36	< 0.39	NA	< 0.4	< 0.38
3-Nitroaniline	ug/l	NS	NS	< 1.4	< 1.4	< 1.3	< 1.3	< 1.4	NA	< 1.4	< 1.3
4,6-Dinitro-2-methylphenol	ug/l	NS	NS	< 1.1	< 1.1	< 1.1	< 0.99	< 1.1	NA	< 1.1	< 1
4-Bromophenyl phenyl ether	ug/l	NS	NS	< 0.4	< 0.4	< 0.38	< 0.36	< 0.39	NA	< 0.4	< 0.38
4-Chloro-3-Methylphenol	ug/l	NS	NS	< 2	< 2	< 1.9	< 1.8	< 2	NA	< 2	< 1.9
4-Chloroaniline	ug/l	30	NS	< 0.59	< 0.59	< 0.56	< 0.53	< 0.58	NA	< 0.59	< 0.56
4-Chlorophenyl phenyl ether	ug/l	NS	NS	< 0.35	< 0.35	< 0.33	< 0.31	< 0.34	NA	< 0.35	< 0.33
4-Nitroaniline	ug/l	NS	NS	< 1.9	< 1.9	< 1.8	< 1.7	< 1.8	NA	< 1.8	< 1.7
4-Nitrophenol	ug/l	NS	NS	< 5.8	< 5.8	< 5.5	< 5.2	< 5.7	NA	< 5.8	< 5.5
Acetophenone	ug/l	700	NS	< 0.32	< 0.32	< 0.3	< 0.29	< 0.31	NA	< 0.32	< 0.3
Atrazine	ug/l	3	3	< 0.55	< 0.55	< 0.52	< 0.49	< 0.53	NA	< 0.54	< 0.51
Benzaldehyde	ug/l	NS	NS	< 3.7	< 3.7	< 3.5	< 3.3	< 3.6	NA	< 3.6	< 3.4
Benzyl butyl phthalate	ug/l	100	NS	< 0.32	< 0.32	< 0.31	< 0.29	< 0.32	NA	< 0.32	< 0.3
bis(2-Chloroethoxy)methane	ug/l	NS	NS	< 0.34	< 0.34	< 0.33	< 0.31	< 0.34	NA	< 0.34	< 0.32
bis(2-Chloroethyl)ether	ug/l	7	NS	< 0.35	< 0.35	< 0.33	< 0.31	< 0.34	NA	< 0.34	< 0.32
bis(2-Chloroisopropyl)ether	ug/l	300	NS	< 0.51	< 0.51	< 0.48	< 0.45	< 0.5	NA	< 0.5	< 0.48
bis(2-Ethylhexyl)phthalate	ug/l	3	6	< 0.66	< 0.66	< 0.62	< 0.59	< 0.64	NA	< 0.65	< 0.62
Caprolactam	ug/l	NS	NS	< 0.77	< 0.77	< 0.73	< 0.69	< 0.75	NA	< 0.77	< 0.73
Carbazole	ug/l	NS	NS	< 0.4	< 0.4	< 0.38	< 0.36	< 0.39	NA	< 0.4	< 0.38
Dibenzofuran	ug/l	NS	NS	< 0.3	< 0.3	< 0.28	< 0.27	< 0.29	NA	< 0.29	< 0.28
Diethyl phthalate	ug/l	6000	NS	< 0.37	< 0.37	< 0.35	< 0.33	< 0.36	NA	< 0.36	< 0.34
Dimethyl phthalate	ug/l	NS	NS	< 0.32	< 0.32	< 0.3	< 0.28	< 0.31	NA	< 0.31	< 0.3
di-n-butyl phthalate	ug/l	700	NS	< 0.62	< 0.62	< 0.59	< 0.56	< 0.61	NA	< 0.62	< 0.58
di-n-octylphthalate	ug/l	100	NS	< 0.35	< 0.35	< 0.33	< 0.31	< 0.34	NA	< 0.34	< 0.32
Hexachlorobutadiene	ug/l	1	NS	< 0.58	< 0.58	< 0.54	< 0.51	< 0.56	NA	< 0.57	< 0.54
Hexachlorocyclopentadiene	ug/l	40	50	< 8	< 8	< 7.6	< 7.1	< 7.8	NA	< 7.9	< 7.5
Hexachloroethane	ug/l	7	NS	< 0.62	< 0.62	< 0.59	< 0.55	< 0.6	NA	< 0.61	< 0.58
Isophrone	ug/l	40	NS	< 0.31	< 0.31	< 0.29	< 0.27	< 0.3	NA	< 0.3	< 0.29
Nitrobenzene	ug/l	6	NS	< 0.47	< 0.47	< 0.45	< 0.42	< 0.46	NA	< 0.47	< 0.44
N-Nitroso-di-n-Propylamine	ug/l	10	NS	< 0.34	< 0.34	< 0.32	< 0.3	< 0.33	NA	< 0.34	< 0.32
N-Nitrosodiphenylamine	ug/l	10	NS	< 0.34	< 0.34	< 0.32	< 0.31	< 0.33	NA	< 0.34	< 0.32
Phenol	ug/l	2000	NS	< 1.4	< 1.4	< 1.4	< 1.3	< 1.4	NA	< 1.4	< 1.3
Total TIC, Semi-Volatile	ug/l	NS	NS	0	0	0	0	0	NA	0	0

Landfill Area				Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area
Location ID				**OB-03**	**OB-03**	**OB-04**	**OB-05**	**OB-05**	**OB-05**	**OB-12**	**OB-13**
Sample ID		**GWQS[1]**	**EPA**	**OB-3(042312)**	**OB-3(042312) DUP**	**OB-4 (042712)**	**OB-5 (041912)**	**OB-5 (041912) DUP**	**OB-5**	**OB-12 (041912)**	**OB-13 (042012)**
Sample Date			**MCLs**	**4/23/2012**	**4/23/2012**	**4/27/2012**	**4/19/2012**	**4/19/2012**	**6/20/2012**	**4/19/2012**	**4/20/2012**
Validation Status	**Units**			**Final**	**Final**	**Final**	**Final**	**Final**	**Final**	**Final**	**Final**
SVOC BY SIM											
Acenaphthene	ug/l	400	NS	< 0.015	< 0.015	< 0.015	0.136	< 0.015	NA	< 0.015	< 0.014
Acenaphthylene	ug/l	NS	NS	< 0.018	< 0.018	< 0.017	0.119	< 0.018	NA	< 0.018	< 0.017
Anthracene	ug/l	2000	NS	< 0.011	< 0.011	< 0.011	< 0.01	< 0.011	NA	< 0.011	< 0.011
Benzo(a)anthracene	ug/l	0.1 [0.2]	NS	< 0.017	< 0.017	< 0.016	< 0.015	< 0.017	NA	< 0.017	< 0.016
Benzo(a)pyrene	ug/l	0.1 [0.2]	0.2	< 0.0054	< 0.0055	< 0.0052	< 0.0049	< 0.0054	NA	< 0.0054	< 0.0052
Benzo(b)fluoranthene	ug/l	0.2 [10]	NS	< 0.018	< 0.018	< 0.017	< 0.016	< 0.018	NA	< 0.018	< 0.017
Benzo(g,h,i)perylene	ug/l	NS	NS	< 0.011	< 0.012	< 0.011	< 0.01	< 0.011	NA	< 0.011	< 0.011
Benzo(k)fluoranthene	ug/l	0.5	NS	< 0.014	< 0.014	< 0.013	< 0.013	< 0.014	NA	< 0.014	< 0.013
Chrysene	ug/l	5	NS	< 0.026	< 0.026	< 0.025	< 0.023	< 0.025	NA	< 0.026	< 0.024
Dibenzo(a,h)anthracene	ug/l	0.3 [0.5]	NS	< 0.025	< 0.025	< 0.024	< 0.023	< 0.025	NA	< 0.025	< 0.024
Fluoranthene	ug/l	300	NS	< 0.011	< 0.011	< 0.01	< 0.0096	< 0.01	NA	< 0.011	< 0.01
Fluorene	ug/l	300	NS	< 0.017	< 0.017	< 0.016	0.155	< 0.016	NA	< 0.017	< 0.016
Hexachlorobenzene	ug/l	0.02 [10]	1	< 0.0089	< 0.009	< 0.0085	< 0.008	< 0.0087	NA	< 0.0089	< 0.0084
Indeno(1,2,3-cd)pyrene	ug/l	0.2 [10]	NS	< 0.012	< 0.012	< 0.011	< 0.011	< 0.012	NA	< 0.012	< 0.011
Naphthalene	ug/l	300	NS	< 0.018	< 0.018	< 0.017	0.231	< 0.018	NA	< 0.018	< 0.017
Pentachlorophenol	ug/l	0.3 [1]	1	< 0.11	< 0.11	< 0.11 J	< 0.1 J	< 0.11 J	NA	< 0.11 J	< 0.11 J
Phenanthrene	ug/l	NS	NS	< 0.017	< 0.018	< 0.017	0.131	< 0.017	NA	< 0.017	< 0.017
Pyrene	ug/l	200	NS	< 0.009	< 0.0091	< 0.0086	< 0.0081	< 0.0089	NA	< 0.009	< 0.0085
PCBs											
PCB 1016	ug/l	0.5	0.5	< 0.15	< 0.14	< 0.14	< 0.13	< 0.13	NA	< 0.14	< 0.13
PCB 1221	ug/l	0.5	0.5	< 0.32	< 0.29	< 0.29	< 0.27	< 0.27	NA	< 0.3	< 0.28
PCB 1232	ug/l	0.5	0.5	< 0.46	< 0.41	< 0.41	< 0.39	< 0.39	NA	< 0.42	< 0.4
PCB 1242	ug/l	0.5	0.5	< 0.1	< 0.092	< 0.092	< 0.086	< 0.086	NA	< 0.095	< 0.089
PCB 1248	ug/l	0.5	0.5	< 0.17	< 0.16	< 0.16	< 0.15	< 0.15	NA	< 0.16	< 0.15
PCB 1254	ug/l	0.5	0.5	< 0.17	< 0.15	< 0.15	< 0.14	< 0.14	NA	< 0.15	< 0.15
PCB 1260	ug/l	0.5	0.5	< 0.25	< 0.22	< 0.22	< 0.21	< 0.21	NA	< 0.23	< 0.22
Total PCBs	ug/l	0.5	0.5	0	0	0	0	0	NA	0	0
Metals - Total											
Aluminum	ug/l	200	NS	< 16	< 16	45.6 J	35.2 J	45.2 J	NA	< 200	< 16
Antimony	ug/l	6	6	< 1.4	< 1.4	< 1.4	< 6	< 1.4	NA	< 6	< 6
Arsenic	ug/l	3 [8]	10	< 0.97	< 0.97	< 0.97	< 0.97	< 0.97	NA	< 0.97	< 0.97
Barium	ug/l	6000	2000	4.4 B	2.7 B	58.2 B	27.3 B	28.4 B	NA	< 200	4.3 J
Beryllium	ug/l	1	4	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	NA	< 0.44	< 0.44
Cadmium	ug/l	4	5	< 0.24	< 0.24	0.9 J	< 3	< 3	NA	< 3	< 0.24
Calcium	ug/l	NS	NS	15500	15100	47300	66500	68500	73000	7940	9560
Chromium	ug/l	70	100	< 0.91	< 0.91	< 0.91	< 0.91	< 0.91	NA	< 0.91	< 0.91
Cobalt	ug/l	NS	NS	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	NA	< 0.59	< 0.59
Copper	ug/l	1,300	1300	< 1.3	< 10	< 10	< 1.3	< 1.3	NA	< 10	< 1.3
Iron	ug/l	300	NS	**819**	**804**	**15700**	**59000**	**60800**	**63800**	51.7 J	< 24
Lead	ug/l	5	15	< 1.7	< 1.7	1.9 J	< 1.7	< 1.7	NA	< 1.7	< 1.7
Magnesium	ug/l	NS	NS	4340 B	4180 B	13500	37200	38700	35800	2970 B	4030 B
Manganese	ug/l	50	NS	8.4 B	6.9 B	**1300**	**1850**	**1910**	**1850**	< 15	< 15
Mercury	ug/l	2	2	< 0.075	< 0.2	< 0.075	< 0.075	< 0.075	NA	< 0.075	< 0.075
Nickel	ug/l	100	NS	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	NA	< 0.94	< 0.94
Potassium	ug/l	NS	NS	1000 B	999 B	2930 B	3530 B	3610 B	3480 B	600 B	1030 B
Selenium	ug/l	40	50	< 2.4	< 2.4	< 2.4	< 10	< 10	NA	< 2.4	< 2.4
Silicon	ug/l	NS	NS	6550	6560	8140 J	NA	NA	NA	NA	NA
Silver	ug/l	40	NS	1.2 J	< 10	< 0.85	4.6 B	4.5 B	NA	< 0.85	< 0.85
Sodium	ug/l	50,000	NS	3150 B	3160 B	**94900**	28100	28900	28300	2680 B	3070 B
Thallium	ug/l	2 [10]	2	< 2	< 1.7	< 1.7	< 1.7	< 1.7	NA	< 1.7	< 1.7
Vanadium	ug/l	NS	NS	< 0.77	< 0.77	0.9 J	< 0.77	< 50	NA	< 0.77	< 0.77
Zinc	ug/l	2000	NS	< 2.8	< 2.8	< 30	5.5 J	4.7 J	NA	4 J	< 2.8

Landfill Area				Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area
Location ID				**OB-03**	**OB-03**	**OB-04**	**OB-05**	**OB-05**	**OB-05**	**OB-12**	**OB-13**
Sample ID		**GWQS[1]**	**EPA**	**OB-3(042312)**	**OB-3(042312) DUP**	**OB-4 (042712)**	**OB-5 (041912)**	**OB-5 (041912) DUP**	**OB-5**	**OB-12 (041912)**	**OB-13 (042012)**
Sample Date			**MCLs**	**4/23/2012**	**4/23/2012**	**4/27/2012**	**4/19/2012**	**4/19/2012**	**6/20/2012**	**4/19/2012**	**4/20/2012**
Validation Status	**Units**			**Final**	**Final**	**Final**	**Final**	**Final**	**Final**	**Final**	**Final**
Metals - Dissolved											
Aluminum	ug/l	200	NS	< 16	< 16	< 16	< 200	< 200	NA	< 16	< 16
Antimony	ug/l	6	6	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	NA	< 6	< 6
Arsenic	ug/l	3 [8]	10	< 0.97	< 0.97	< 0.97	< 0.97	< 0.97	NA	< 0.97	< 0.97
Barium	ug/l	6000	2000	2.5 B	2.6 B	48.2 B	8.2 J	9.7 J	NA	< 200	4.2 J
Beryllium	ug/l	1	4	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	NA	< 0.44	< 0.44
Cadmium	ug/l	4	5	< 0.24	< 0.24	< 0.24	< 3	< 0.24	NA	< 0.24	< 0.24
Calcium	ug/l	NS	NS	14800	14900	45700	62500	65600	NA	7950	9280
Chromium	ug/l	70	100	< 0.91	< 0.91	< 0.91	< 0.91	< 0.91	NA	< 0.91	< 0.91
Cobalt	ug/l	NS	NS	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	NA	< 0.59	< 0.59
Copper	ug/l	1,300	1300	< 1.3	< 1.3	< 10	< 1.3	< 1.3	NA	< 10	< 1.3
Iron	ug/l	300	NS	27.2 B	< 24	241	**18400**	**25900**	**14700**	< 24	< 24
Lead	ug/l	5	15	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	NA	< 1.7	< 1.7
Magnesium	ug/l	NS	NS	4140 B	4110 B	13000	36200	37400	NA	3030 B	3920 B
Manganese	ug/l	50	NS	2.9 B	2.6 B	**1240**	**1720**	**1810**	**1740**	< 15	< 15
Mercury	ug/l	2	2	NA	NA	NA	< 0.075	< 0.075	NA	< 0.075	< 0.075
Nickel	ug/l	100	NS	< 0.94	< 0.94	< 10	< 0.94	< 0.94	NA	< 0.94	< 0.94
Potassium	ug/l	NS	NS	966 B	990 B	2810 B	3360 B	3470 B	NA	542 B	910 B
Selenium	ug/l	40	50	< 2.4	< 2.4	< 2.4	< 10	5.8 J	NA	< 2.4	< 2.4
Silver	ug/l	40	NS	1 J	< 10	< 0.85	3 B	3.6 B	NA	0.9 B	< 0.85
Sodium	ug/l	50,000	NS	3050 B	3160 B	**93400**	26800	27900	NA	2710 B	3020 B
Thallium	ug/l	2 [10]	2	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	NA	< 1.7	< 1.7
Vanadium	ug/l	NS	NS	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	NA	< 0.77	< 0.77
Zinc	ug/l	2000	NS	4.1 B	< 2.8	< 20	< 2.8	< 2.8	NA	5.3 J	< 2.8
Other											
Alkalinity, Bicarbonate	ug/l	NS	NS	46600	46600	109000	NA	NA	364000	NA	NA
Alkalinity, Carbonate	ug/l	NS	NS	< 5000	< 5000	< 5000	NA	NA	< 5000	NA	NA
Alkalinity, total (as CaCO3)	ug/l	NS	NS	46600	46600	110000	333000	343000	364000	47200	38400
Carbon dioxide	ug/l	NS	NS	3780	NA	5490	NA	NA	7110	NA	NA
Chloride	ug/l	250000	NS	< 2000	< 2000	194000	51300	51500	53800	< 2000	< 2000
Fluoride	ug/l	2000	4000	< 200	< 200	< 200	NA	NA	< 200	NA	NA
Methane	ug/l	NS	NS	< 0.25	NA	685	NA	NA	1440	NA	NA
Nitrate	ug/l	10000	10000	330	310	< 110	NA	NA	< 110	NA	NA
Nitrogen, Nitrate + Nitrite	ug/l	NS	NS	330	310	< 100	NA	NA	< 100	NA	NA
Nitrogen, Nitrite	ug/l	1000	1000	< 10	< 10	< 10 J	NA	NA	< 10	NA	NA
Phosphorus, Total	ug/l	NS	NS	< 50	< 50	< 50	NA	NA	< 50	NA	NA
Radon (pCi/l)	ug/l	NS	300	532	NA	< 35	NA	NA	82	NA	NA
Radon (pCi/l) Replicate	ug/l	NS	300	557	NA	< 35	NA	NA	75	NA	NA
Silica, Dissolved	ug/l	NS	NS	9800	9100	13600	NA	NA	10300	NA	NA
Sulfate	ug/l	250000	NS	13600	13800	< 10000	< 10000	< 10000	< 10000	11700	11200
Total organic carbon	ug/l	NS	NS	< 1000	< 1000	1400	NA	NA	2400	NA	NA

See Footnotes on last page

Landfill Area				Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area
Location ID				**RW-1**	**RW-1**	**RW-1**	**RW-1**	**RW-2**	**RW-2**	**RW-2**	**RW-8**
Sample ID		**GWQS[1]**	**EPA**	**RW-1 (64-74)(041712)**	**RW-1 (131-141)(041712)**	**RW-1(64-74)**	**RW-1(131-141)**	**RW-2(279-289)(050812)**	**RW-2(452-462)(051012)**	**RW-2(452-462)(051612)**	**RW-8(163-173)**
Sample Date			**MCLs**	**4/17/2012**	**4/17/2012**	**6/26/2012**	**6/26/2012**	**5/8/2012**	**5/10/2012**	**5/16/2012**	**5/3/2012**
Validation Status	**Units**			**Final**	**Final**	**Final**	**Final**	**Final**	**Final**	**Final**	**Final**
VOC											
1,1,1-Trichloroethane	ug/l	30	200	< 0.24	< 0.24	NA	NA	< 0.24	< 0.24	NA	< 0.24
1,1,2,2-Tetrachloroethane	ug/l	1	NS	< 0.2	< 0.2	NA	NA	< 0.2	< 0.2	NA	< 0.2
1,1,2-Trichloroethane	ug/l	3	5	< 0.23	< 0.23	NA	NA	< 0.23	< 0.23	NA	< 0.23
1,1-Dichloroethane	ug/l	50	NS	< 0.19	< 0.19	NA	NA	< 0.19	< 0.19	NA	< 0.19
1,1-Dichloroethene	ug/l	1	7	< 0.28	< 0.28	NA	NA	< 0.28	< 0.28	NA	< 0.28
1,2,4-Trichlorobenzene	ug/l	9	70	< 0.15	< 0.15	NA	NA	< 0.15	< 0.15	NA	< 0.15
1,2-Dibromo-3-Chloropropane (DBCP)	ug/l	0.02 [1]	0.2	< 1.3*	< 1.3*	NA	NA	< 1.3*	< 1.3*	NA	< 1.3*
1,2-Dibromoethane	ug/l	0.03 [0.5]	0.05	< 0.21*	< 0.21*	NA	NA	< 0.21*	< 0.21*	NA	< 0.21*
1,2-Dichlorobenzene	ug/l	600	600	< 0.18	< 0.18	NA	NA	< 0.18	< 0.18	NA	< 0.18
1,2-Dichloroethane	ug/l	2	5	< 0.18	< 0.18	NA	NA	< 0.18	< 0.18	NA	< 0.18
1,2-Dichloropropane	ug/l	1	5	< 0.22	< 0.22	NA	NA	< 0.22	< 0.22	NA	< 0.22
1,3-Dichlorobenzene	ug/l	600	NS	< 0.29	< 0.29	NA	NA	< 0.29	< 0.29	NA	< 0.29
1,4-Dichlorobenzene	ug/l	75	75	< 0.26	< 0.26	NA	NA	< 0.26	< 0.26	NA	< 0.26
2-Butanone (MEK)	ug/l	300	NS	< 2.9	< 2.9	NA	NA	< 2.9	< 2.9	NA	< 2.9
2-Hexanone	ug/l	NS	NS	< 3	< 3	NA	NA	< 3	< 3	NA	< 3
4-methyl-2-pentanone (MIBK)	ug/l	NS	NS	< 1.2	< 1.2	NA	NA	< 1.2	< 1.2	NA	< 1.2
Acetone	ug/l	6000	NS	< 7.6	< 7.6	NA	NA	12.2	36.1	NA	< 5
Benzene	ug/l	1	5	< 0.22	< 0.22	NA	NA	< 0.22	0.23 J	NA	< 0.22
Bromodichloromethane	ug/l	1	80	< 0.23	< 0.23	NA	NA	< 0.23	< 0.23	NA	< 0.23
Bromoform	ug/l	4	80	< 0.24	< 0.24	NA	NA	< 0.24	< 0.24	NA	< 0.24
Bromomethane	ug/l	10	NS	< 0.31	< 0.31	NA	NA	< 0.31	< 0.31	NA	< 0.31
Carbon disulfide	ug/l	700	NS	< 0.18	< 0.18	NA	NA	0.49 J	< 0.18	NA	0.63 J
Carbon tetrachloride	ug/l	1	5	< 0.19	< 0.19	NA	NA	< 0.19	< 0.19	NA	< 0.19
Chlorobenzene	ug/l	50	100	< 0.22	< 0.22	NA	NA	1.7	< 0.22	NA	< 0.22
Chloroethane	ug/l	NS	NS	< 0.37	< 0.37	NA	NA	< 0.37	< 0.37	NA	< 0.37
Chloroform	ug/l	70	80	< 0.21	< 0.21	NA	NA	< 0.21	< 0.21	NA	< 0.21
Chloromethane	ug/l	NS	NS	< 0.22	< 0.22	NA	NA	< 0.22	< 0.22	NA	< 0.22
cis-1,2-Dichloroethene	ug/l	70	70	< 0.22	< 0.22	NA	NA	< 0.22	< 0.22	NA	< 0.22
cis-1,3-Dichloropropene	ug/l	NS	NS	< 0.22	< 0.22	NA	NA	< 0.22	< 0.22	NA	< 0.22
Cyclohexane	ug/l	NS	NS	< 0.29	< 0.29	NA	NA	< 0.29	< 0.29	NA	< 0.29
Dibromochloromethane	ug/l	1	80	< 0.2	< 0.2	NA	NA	< 0.2	< 0.2	NA	< 0.2
Dichlorodifluoromethane	ug/l	1,000	NS	< 0.31	< 0.31	NA	NA	< 0.31	< 0.31	NA	< 0.31
Ethylbenzene	ug/l	700	700	< 0.21	< 0.21	NA	NA	< 0.21	< 0.21	NA	< 0.21
Freon 113	ug/l	NS	NS	< 0.49	< 0.49	NA	NA	< 0.49	< 0.49	NA	< 0.49
Isopropylbenzene	ug/l	700	NS	< 0.19	< 0.19	NA	NA	< 0.19	< 0.19	NA	< 0.19
Methyl acetate	ug/l	7000	NS	< 2.9	< 2.9	NA	NA	< 2.9	< 2.9	NA	< 2.9
Methyl tert butyl ether	ug/l	70	NS	< 0.18	< 0.18	NA	NA	< 0.18	< 0.18	NA	< 0.18
Methylcyclohexane	ug/l	NS	NS	< 0.18	< 0.18	NA	NA	< 0.18	< 0.18	NA	< 0.18
Methylene chloride	ug/l	3	5	< 0.2	< 0.2	NA	NA	< 0.2	< 0.2	NA	< 0.2
Styrene	ug/l	100	100	< 0.23	< 0.23	NA	NA	< 0.23	< 0.23	NA	< 0.23
Tetrachloroethene	ug/l	1	5	< 0.32	< 0.32	NA	NA	< 0.32	< 0.32	NA	< 0.32
Toluene	ug/l	600	1000	< 0.15	< 0.15	NA	NA	< 0.15	0.49 J	NA	< 0.15
Trans-1,2-dichloroethene	ug/l	100	100	< 0.31	< 0.31	NA	NA	< 0.31	< 0.31	NA	< 0.31
trans-1,3-Dichloropropene	ug/l	NS	NS	< 0.19	< 0.19	NA	NA	< 0.19	< 0.19	NA	< 0.19
Trichloroethene	ug/l	1	5	< 0.21	< 0.21	NA	NA	< 0.21	< 0.21	NA	< 0.21
Trichlorofluoromethane	ug/l	2000	NS	< 0.35	< 0.35	NA	NA	< 0.35	< 0.35	NA	< 0.35
Vinyl Chloride	ug/l	1	2	< 0.27	< 0.27	NA	NA	< 0.27	< 0.27	NA	< 0.27
Xylenes	ug/l	1,000	10000	< 0.17	< 0.17	NA	NA	< 0.17	< 0.17	NA	< 0.17
Total TIC, Volatile	ug/l	NS	NS	9.7 J	0	NA	NA	0	51 JN	NA	38 J

Landfill Area				Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area
Location ID				**RW-1**	**RW-1**	**RW-1**	**RW-1**	**RW-2**	**RW-2**	**RW-2**	**RW-8**
Sample ID		**GWQS[1]**	**EPA**	**RW-1 (64-74)(041712)**	**RW-1 (131-141)(041712)**	**RW-1(64-74)**	**RW-1(131-141)**	**RW-2(279-289)(050812)**	**RW-2(452-462)(051012)**	**RW-2(452-462)(051612)**	**RW-8(163-173)**
Sample Date			**MCLs**	**4/17/2012**	**4/17/2012**	**6/26/2012**	**6/26/2012**	**5/8/2012**	**5/10/2012**	**5/16/2012**	**5/3/2012**
Validation Status	**Units**			**Final**	**Final**	**Final**	**Final**	**Final**	**Final**	**Final**	**Final**
SVOC											
1,1'-Biphenyl	ug/l	400	NS	< 0.34	< 0.35	NA	NA	< 0.32	< 0.34	NA	< 0.34
2,4,5-Trichlorophenol	ug/l	700	NS	< 1.8	< 1.8	NA	NA	< 1.7	< 1.7	NA	< 1.8
2,4,6-Trichlorophenol	ug/l	20	NS	< 1.4	< 1.5	NA	NA	< 1.4	< 1.4	NA	< 1.4
2,4-Dichlorophenol	ug/l	20	NS	< 1.3	< 1.3	NA	NA	< 1.2	< 1.3	NA	< 1.3
2,4-Dimethylphenol	ug/l	100	NS	< 1.7	< 1.8	NA	NA	< 1.6	< 1.7	NA	< 1.7
2,4-Dinitrophenol	ug/l	40	NS	< 19	< 19	NA	NA	< 18	< 18	NA	< 19
2,4-Dinitrotoluene	ug/l	NS	NS	< 0.48	< 0.5	NA	NA	< 0.45	< 0.47	NA	< 0.48
2,6-Dinitrotoluene	ug/l	NS	NS	< 0.52	< 0.54	NA	NA	< 0.49	< 0.51	NA	< 0.52
2-Chloronaphthalene	ug/l	600	NS	< 0.33	< 0.35	NA	NA	< 0.32	< 0.33	NA	< 0.33
2-Chlorophenol	ug/l	40	NS	< 1.1	< 1.1	NA	NA	< 1	< 1.1	NA	< 1.1
2-Methylnaphthalene	ug/l	NS	NS	< 0.43	< 0.45	NA	NA	< 0.41	< 0.43	NA	< 0.43
2-Methylphenol	ug/l	NS	NS	< 1.2	< 1.2	NA	NA	< 1.1	< 1.2	NA	< 1.2
2-Nitroaniline	ug/l	NS	NS	< 1.2	< 1.3	NA	NA	< 1.2	< 1.2	NA	< 1.2
2-Nitrophenol	ug/l	NS	NS	< 1.7	< 1.7	NA	NA	< 1.6	< 1.7	NA	< 1.7
3&4-Methylphenol	ug/l	NS	NS	< 1	< 1.1	NA	NA	< 0.98	< 1	NA	< 1
3,3'-Dichlorobenzidine	ug/l	30	NS	< 0.4	< 0.42	NA	NA	< 0.38	< 0.4	NA	< 0.4
3-Nitroaniline	ug/l	NS	NS	< 1.4	< 1.5	NA	NA	< 1.3	< 1.4	NA	< 1.4
4,6-Dinitro-2-methylphenol	ug/l	NS	NS	< 1.1	< 1.1	NA	NA	< 1.1	< 1.1	NA	< 1.1
4-Bromophenyl phenyl ether	ug/l	NS	NS	< 0.4	< 0.42	NA	NA	< 0.38	< 0.4	NA	< 0.4
4-Chloro-3-Methylphenol	ug/l	NS	NS	< 2	< 2.1	NA	NA	< 1.9	< 2	NA	< 2
4-Chloroaniline	ug/l	30	NS	< 0.59	< 0.61	NA	NA	< 0.56	< 0.59	NA	< 0.59
4-Chlorophenyl phenyl ether	ug/l	NS	NS	< 0.35	< 0.36	NA	NA	< 0.33	< 0.35	NA	< 0.35
4-Nitroaniline	ug/l	NS	NS	< 1.9	< 1.9	NA	NA	< 1.8	< 1.8	NA	< 1.9
4-Nitrophenol	ug/l	NS	NS	< 5.8	< 6	NA	NA	< 5.5	< 5.8	NA	< 5.8
Acetophenone	ug/l	700	NS	< 0.32	< 0.33	NA	NA	< 0.3	1.1 J	NA	< 0.32
Atrazine	ug/l	3	3	< 0.55	< 0.57	NA	NA	< 0.52	< 0.54	NA	< 0.55
Benzaldehyde	ug/l	NS	NS	< 3.7	< 3.8	NA	NA	< 3.5	< 3.6	NA	< 3.7
Benzyl butyl phthalate	ug/l	100	NS	< 0.32	< 0.34	NA	NA	< 0.31	< 0.32	NA	< 0.32
bis(2-Chloroethoxy)methane	ug/l	NS	NS	< 0.34	< 0.36	NA	NA	< 0.33	< 0.34	NA	< 0.34
bis(2-Chloroethyl)ether	ug/l	7	NS	< 0.35	< 0.36	NA	NA	< 0.33	< 0.34	NA	< 0.35
bis(2-Chloroisopropyl)ether	ug/l	300	NS	< 0.51	< 0.53	NA	NA	< 0.48	< 0.5	NA	< 0.51
bis(2-Ethylhexyl)phthalate	ug/l	3	6	< 0.66	< 0.68	NA	NA	< 0.62	< 0.65	NA	< 0.66
Caprolactam	ug/l	NS	NS	< 0.77	< 0.8	NA	NA	< 0.73	< 0.77	NA	< 0.77
Carbazole	ug/l	NS	NS	< 0.4	< 0.42	NA	NA	< 0.38	< 0.4	NA	< 0.4
Dibenzofuran	ug/l	NS	NS	< 0.3	< 0.31	NA	NA	< 0.28	< 0.29	NA	< 0.3
Diethyl phthalate	ug/l	6000	NS	< 0.37	< 0.38	NA	NA	< 0.35	< 0.36	NA	< 0.37
Dimethyl phthalate	ug/l	NS	NS	< 0.32	< 0.33	NA	NA	< 0.3	< 0.31	NA	< 0.32
di-n-butyl phthalate	ug/l	700	NS	< 0.62	< 0.65	NA	NA	< 0.59	< 0.62	NA	< 0.62
di-n-octylphthalate	ug/l	100	NS	< 0.35	< 0.36	NA	NA	< 0.33	< 0.34	NA	< 0.35
Hexachlorobutadiene	ug/l	1	NS	< 0.58	< 0.6	NA	NA	< 0.54	< 0.57	NA	< 0.58
Hexachlorocyclopentadiene	ug/l	40	50	< 8	< 8.3	NA	NA	< 7.6	< 7.9	NA	< 8
Hexachloroethane	ug/l	7	NS	< 0.62	< 0.64	NA	NA	< 0.59	< 0.61	NA	< 0.62
Isophrone	ug/l	40	NS	< 0.31	< 0.32	NA	NA	< 0.29	< 0.3	NA	< 0.31
Nitrobenzene	ug/l	6	NS	< 0.47	< 0.49	NA	NA	< 0.45	< 0.47	NA	< 0.47
N-Nitroso-di-n-Propylamine	ug/l	10	NS	< 0.34	< 0.35	NA	NA	< 0.32	< 0.34	NA	< 0.34
N-Nitrosodiphenylamine	ug/l	10	NS	< 0.34	< 0.35	NA	NA	< 0.32	< 0.34	NA	< 0.34
Phenol	ug/l	2000	NS	< 1.4	< 1.5	NA	NA	< 1.4	8.6	NA	< 1.4
Total TIC, Semi-Volatile	ug/l	NS	NS	170 J	35 J	NA	NA	57.4 J	63.4 JN	NA	0

Landfill Area				Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area
Location ID				**RW-1**	**RW-1**	**RW-1**	**RW-1**	**RW-2**	**RW-2**	**RW-2**	**RW-8**
Sample ID		**GWQS[1]**	**EPA**	**RW-1 (64-74)(041712)**	**RW-1 (131-141)(041712)**	**RW-1(64-74)**	**RW-1(131-141)**	**RW-2(279-289)(050812)**	**RW-2(452-462)(051012)**	**RW-2(452-462)(051612)**	**RW-8(163-173)**
Sample Date			**MCLs**	**4/17/2012**	**4/17/2012**	**6/26/2012**	**6/26/2012**	**5/8/2012**	**5/10/2012**	**5/16/2012**	**5/3/2012**
Validation Status	**Units**			**Final**	**Final**	**Final**	**Final**	**Final**	**Final**	**Final**	**Final**
SVOC BY SIM											
Acenaphthene	ug/l	400	NS	< 0.015	< 0.016	NA	NA	< 0.015	< 0.015	NA	< 0.015
Acenaphthylene	ug/l	NS	NS	< 0.018	< 0.019	NA	NA	< 0.017	< 0.018	NA	< 0.018
Anthracene	ug/l	2000	NS	< 0.011	< 0.012	NA	NA	< 0.011	< 0.011	NA	< 0.011
Benzo(a)anthracene	ug/l	0.1 [0.2]	NS	< 0.017	< 0.018	NA	NA	< 0.016	< 0.017	NA	< 0.017
Benzo(a)pyrene	ug/l	0.1 [0.2]	0.2	< 0.0055	< 0.0057	NA	NA	< 0.0052	< 0.0054	NA	< 0.0055
Benzo(b)fluoranthene	ug/l	0.2 [10]	NS	< 0.018	< 0.019	NA	NA	< 0.017	< 0.018	NA	< 0.018
Benzo(g,h,i)perylene	ug/l	NS	NS	< 0.012	< 0.012	NA	NA	< 0.011	< 0.011	NA	< 0.012
Benzo(k)fluoranthene	ug/l	0.5	NS	< 0.014 J	< 0.015	NA	NA	< 0.013	< 0.014	NA	< 0.014
Chrysene	ug/l	5	NS	< 0.026	< 0.027	NA	NA	< 0.025	< 0.026	NA	< 0.026
Dibenzo(a,h)anthracene	ug/l	0.3 [0.5]	NS	< 0.025	< 0.026	NA	NA	< 0.024	< 0.025	NA	< 0.025
Fluoranthene	ug/l	300	NS	< 0.011	< 0.011	NA	NA	< 0.01	< 0.011	NA	< 0.011
Fluorene	ug/l	300	NS	< 0.017	< 0.017	NA	NA	< 0.016	< 0.017	NA	< 0.017
Hexachlorobenzene	ug/l	0.02 [10]	1	< 0.009	< 0.0093	NA	NA	< 0.0085	< 0.0089	NA	< 0.009
Indeno(1,2,3-cd)pyrene	ug/l	0.2 [10]	NS	< 0.012	< 0.012	NA	NA	< 0.011	< 0.012	NA	< 0.012
Naphthalene	ug/l	300	NS	< 0.018	0.156	NA	NA	0.156	< 0.018	NA	< 0.018
Pentachlorophenol	ug/l	0.3 [1]	1	< 0.11 J	< 0.12 J	NA	NA	< 0.11 J	< 0.11	NA	< 0.11 J
Phenanthrene	ug/l	NS	NS	< 0.018	< 0.018	NA	NA	0.588	0.154	NA	< 0.018
Pyrene	ug/l	200	NS	< 0.0091	< 0.0094	NA	NA	< 0.0086	< 0.009	NA	< 0.0091
PCBs											
PCB 1016	ug/l	0.5	0.5	< 0.18	< 0.15	NA	NA	< 0.13	< 0.14	NA	< 0.14
PCB 1221	ug/l	0.5	0.5	< 0.39	< 0.32	NA	NA	< 0.27	< 0.29	NA	< 0.3
PCB 1232	ug/l	0.5	0.5	< 0.55	< 0.45	NA	NA	< 0.39	< 0.41	NA	< 0.43
PCB 1242	ug/l	0.5	0.5	< 0.12	< 0.1	NA	NA	< 0.086	< 0.092	NA	< 0.096
PCB 1248	ug/l	0.5	0.5	< 0.21	< 0.17	NA	NA	< 0.15	< 0.16	NA	< 0.16
PCB 1254	ug/l	0.5	0.5	< 0.2	< 0.17	NA	NA	< 0.14	< 0.15	NA	< 0.16
PCB 1260	ug/l	0.5	0.5	< 0.3	< 0.25	NA	NA	< 0.21	< 0.22	NA	< 0.23
Total PCBs	ug/l	0.5	0.5	0	0	NA	NA	0	0	NA	0
Metals - Total											
Aluminum	ug/l	200	NS	122 J	< 200	NA	NA	**367**	174 B	NA	63.8 B
Antimony	ug/l	6	6	< 1.4	< 1.4	NA	NA	< 1.4	< 1.4	NA	< 1.4
Arsenic	ug/l	3 [8]	10	< 0.97	3 J	NA	NA	< 0.97	2.5 B	NA	2 J
Barium	ug/l	6000	2000	< 200	26.6 B	NA	NA	55.9 B	77.1 B	NA	17.4 B
Beryllium	ug/l	1	4	< 0.44	< 0.44	NA	NA	< 0.44	< 0.44	NA	< 0.44
Cadmium	ug/l	4	5	< 0.24	< 0.24	NA	NA	< 0.24	< 0.24	NA	< 3
Calcium	ug/l	NS	NS	31700	31900	31700	33800	169000	189000	NA	39500
Chromium	ug/l	70	100	< 0.91	< 0.91	NA	NA	< 0.91	55.8	NA	< 0.91
Cobalt	ug/l	NS	NS	< 0.59	< 0.59	NA	NA	< 0.59	0.6 B	NA	< 0.59
Copper	ug/l	1,300	1300	< 1.3	< 1.3	NA	NA	< 10	6.4 B	NA	< 10
Iron	ug/l	300	NS	< 100	**1740**	46.7 J	**1850**	< 100	187	NA	97.5 B
Lead	ug/l	5	15	< 1.7	< 1.7	NA	NA	< 1.7	< 1.7	NA	< 1.7
Magnesium	ug/l	NS	NS	4180 B	4900 B	4930 B	5100	< 5000	60.4 B	NA	6200
Manganese	ug/l	50	NS	< 0.12	**182**	< 15	**176**	< 15	5.3 B	NA	30.4
Mercury	ug/l	2	2	< 0.075	< 0.075	NA	NA	< 0.075	0.076 B	NA	< 0.075
Nickel	ug/l	100	NS	< 0.94	11.3	NA	NA	6.3 B	12.4 J	NA	< 0.94
Potassium	ug/l	NS	NS	1160 B	903 B	1010 B	956 B	30300	249000 J	NA	3450 B
Selenium	ug/l	40	50	< 2.4	< 2.4	NA	NA	< 10	7.4 B	NA	< 2.4
Silicon	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	40	NS	< 0.85	< 0.85	NA	NA	< 0.85	< 0.85	NA	< 0.85
Sodium	ug/l	50,000	NS	5320 B	**59900**	4220 B	**60800**	**122000**	**373000**	NA	**59900**
Thallium	ug/l	2 [10]	2	< 2	< 1.7	NA	NA	< 1.7	< 1.7	NA	< 1.7
Vanadium	ug/l	NS	NS	< 50	< 0.77	NA	NA	13.7 B	31.1 B	NA	< 0.77
Zinc	ug/l	2000	NS	< 2.8	< 2.8	NA	NA	< 20	< 20	NA	< 2.8

Landfill Area				Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area
Location ID				**RW-1**	**RW-1**	**RW-1**	**RW-1**	**RW-2**	**RW-2**	**RW-2**	**RW-8**
Sample ID		**GWQS[1]**	**EPA**	**RW-1 (64-74)(041712)**	**RW-1 (131-141)(041712)**	**RW-1(64-74)**	**RW-1(131-141)**	**RW-2(279-289)(050812)**	**RW-2(452-462)(051012)**	**RW-2(452-462)(051612)**	**RW-8(163-173)**
Sample Date			**MCLs**	**4/17/2012**	**4/17/2012**	**6/26/2012**	**6/26/2012**	**5/8/2012**	**5/10/2012**	**5/16/2012**	**5/3/2012**
Validation Status	**Units**			**Final**	**Final**	**Final**	**Final**	**Final**	**Final**	**Final**	**Final**
Metals - Dissolved											
Aluminum	ug/l	200	NS	84.5 J	< 200	NA	NA	**370**	103 B	NA	50.5 B
Antimony	ug/l	6	6	< 1.4	< 1.4	NA	NA	< 1.4	< 1.4	NA	< 1.4
Arsenic	ug/l	3 [8]	10	< 0.97	< 3	NA	NA	1.3 J	< 3	NA	1.7 J
Barium	ug/l	6000	2000	< 200	24.1 B	NA	NA	56.3 B	56.5 B	NA	15.7 B
Beryllium	ug/l	1	4	< 0.44	< 0.44	NA	NA	< 0.44	< 0.44	NA	< 0.44
Cadmium	ug/l	4	5	< 0.24	< 0.24	NA	NA	< 0.24	< 0.24	NA	< 0.24
Calcium	ug/l	NS	NS	32000	32900	NA	NA	168000	140000	NA	38800
Chromium	ug/l	70	100	< 0.91	< 0.91	NA	NA	< 0.91	27.2	NA	< 0.91
Cobalt	ug/l	NS	NS	< 0.59	< 0.59	NA	NA	< 0.59	< 0.59	NA	< 0.59
Copper	ug/l	1,300	1300	< 1.3	< 1.3	NA	NA	< 1.3	2 B	NA	< 1.3
Iron	ug/l	300	NS	< 24	186 J	< 24	150	< 24	63.5 B	NA	36.4 B
Lead	ug/l	5	15	< 1.7	< 1.7	NA	NA	< 1.7	< 1.7	NA	< 1.7
Magnesium	ug/l	NS	NS	4590 B	5180	NA	NA	< 5000	< 16	NA	6170
Manganese	ug/l	50	NS	< 0.12	**168**	< 0.12	**172**	< 15	< 0.12	NA	27.1
Mercury	ug/l	2	2	< 0.075	< 0.075	NA	NA	NA	NA	NA	NA
Nickel	ug/l	100	NS	< 0.94	5.3 B	NA	NA	6 B	12.2	NA	< 0.94
Potassium	ug/l	NS	NS	1110 B	941 B	NA	NA	31300	199000 J	NA	3380 B
Selenium	ug/l	40	50	< 2.4	< 2.4	NA	NA	< 10	6.8 B	NA	< 2.4
Silver	ug/l	40	NS	< 0.85	< 0.85	NA	NA	< 0.85	< 0.85	NA	< 0.85
Sodium	ug/l	50,000	NS	5260 B	**58900**	NA	NA	**124000**	**362000**	NA	**55500**
Thallium	ug/l	2 [10]	2	< 1.7	< 1.7	NA	NA	< 1.7	< 1.7	NA	< 1.7
Vanadium	ug/l	NS	NS	< 50	< 0.77	NA	NA	13.3 B	36.5 B	NA	< 0.77
Zinc	ug/l	2000	NS	< 2.8	< 2.8	NA	NA	< 20	< 20	NA	< 2.8
Other											
Alkalinity, Bicarbonate	ug/l	NS	NS	NA	NA	83400	109000	< 5000	NA	< 5000	97700
Alkalinity, Carbonate	ug/l	NS	NS	NA	NA	6000	< 5000	< 5000	NA	14900	< 5000
Alkalinity, total (as CaCO3)	ug/l	NS	NS	83900	101000	89700	110000	157000	85500	197000	99000
Carbon dioxide	ug/l	NS	NS	NA	NA	< 1.7	569	< 1.8	NA	< 1.8	88
Chloride	ug/l	250000	NS	2000	4000	4000	4100	**378000**	NA	**631000**	15900
Fluoride	ug/l	2000	4000	NA	NA	290	450	290	NA	1400	640
Methane	ug/l	NS	NS	NA	NA	0.33	368	17500	NA	126	< 0.87
Nitrate	ug/l	10000	10000	NA	NA	< 110	< 110	< 110	NA	< 110	< 110
Nitrogen, Nitrate + Nitrite	ug/l	NS	NS	NA	NA	< 100	< 100	100	NA	110 J	< 100
Nitrogen, Nitrite	ug/l	1000	1000	NA	NA	< 10	< 10	140	NA	170	< 10
Phosphorus, Total	ug/l	NS	NS	NA	NA	< 50	390	< 50	NA	< 100	< 50
Radon (pCi/l)	ug/l	NS	300	NA	NA	383	411	34 LT	NA	< 31	50 LT
Radon (pCi/l) Replicate	ug/l	NS	300	NA	NA	408	402	< 34	NA	< 31	99
Silica, Dissolved	ug/l	NS	NS	NA	NA	19800	9500	NA	NA	NA	NA
Sulfate	ug/l	250000	NS	20200	126000	15800	124000	65500	NA	172000	98300
Total organic carbon	ug/l	NS	NS	NA	NA	< 1000	2100	4800	NA	11500	1800

See Footnotes on last page

Landfill Area				Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area
Location ID				RW-9	RW-9A	RW-10	RW-10	RW-10	RW-10	RW-10A
Sample ID		GWQS[1]	EPA	RW-9 (206-216)(042012)	RW-9A (85-95)(042012)	RW-10(185-195)(041812)	RW-10 (120-130)(041912)	RW-10(120-130)	RW-10(185-195)	RW-10A(51-61)(041812)
Sample Date			MCLs	4/20/2012	4/20/2012	4/18/2012	4/19/2012	5/4/2012	5/4/2012	4/18/2012
Validation Status	Units			Final	Final	Final	Final	Final	Final	Final
VOC										
1,1,1-Trichloroethane	ug/l	30	200	< 0.24	< 0.24	< 0.24	< 0.24	NA	NA	< 0.24
1,1,2,2-Tetrachloroethane	ug/l	1	NS	< 0.2	< 0.2	< 0.2	< 0.2	NA	NA	< 0.2
1,1,2-Trichloroethane	ug/l	3	5	< 0.23	< 0.23	< 0.23	< 0.23	NA	NA	< 0.23
1,1-Dichloroethane	ug/l	50	NS	< 0.19	< 0.19	< 0.19	< 0.19	NA	NA	< 0.19
1,1-Dichloroethene	ug/l	1	7	< 0.28	< 0.28	< 0.28	< 0.28	NA	NA	< 0.28
1,2,4-Trichlorobenzene	ug/l	9	70	< 0.15	< 0.15	< 0.15	< 0.15	NA	NA	< 0.15
1,2-Dibromo-3-Chloropropane (DBCP)	ug/l	0.02 [1]	0.2	< 1.3*	< 1.3*	< 1.3*	< 1.3*	NA	NA	< 1.3*
1,2-Dibromoethane	ug/l	0.03 [0.5]	0.05	< 0.21*	< 0.21*	< 0.21*	< 0.21*	NA	NA	< 0.21*
1,2-Dichlorobenzene	ug/l	600	600	< 0.18	< 0.18	< 0.18	< 0.18	NA	NA	< 0.18
1,2-Dichloroethane	ug/l	2	5	< 0.18	< 0.18	< 0.18	< 0.18	NA	NA	< 0.18
1,2-Dichloropropane	ug/l	1	5	< 0.22	< 0.22	< 0.22	< 0.22	NA	NA	< 0.22
1,3-Dichlorobenzene	ug/l	600	NS	< 0.29	< 0.29	< 0.29	< 0.29	NA	NA	< 0.29
1,4-Dichlorobenzene	ug/l	75	75	< 0.26	< 0.26	< 0.26	< 0.26	NA	NA	< 0.26
2-Butanone (MEK)	ug/l	300	NS	< 2.9	< 2.9	< 2.9	5.2 J	NA	NA	< 2.9
2-Hexanone	ug/l	NS	NS	< 3	< 3	< 3	< 3	NA	NA	< 3
4-methyl-2-pentanone (MIBK)	ug/l	NS	NS	< 1.2	< 1.2	< 1.2	< 1.2	NA	NA	< 1.2
Acetone	ug/l	6000	NS	< 7.6	< 7.6	26.1	93.3	NA	NA	< 7.6
Benzene	ug/l	1	5	< 0.22	0.23 J	< 0.22	< 0.22	NA	NA	< 0.22
Bromodichloromethane	ug/l	1	80	< 0.23	< 0.23	< 0.23	< 0.23	NA	NA	< 0.23
Bromoform	ug/l	4	80	< 0.24	< 0.24	< 0.24	< 0.24	NA	NA	< 0.24
Bromomethane	ug/l	10	NS	< 0.31	< 0.31	< 0.31	< 0.31	NA	NA	< 0.31
Carbon disulfide	ug/l	700	NS	1.1 J	1.6 J	0.67 J	1.5 J	NA	NA	0.97 J
Carbon tetrachloride	ug/l	1	5	< 0.19	< 0.19	< 0.19	< 0.19	NA	NA	< 0.19
Chlorobenzene	ug/l	50	100	< 0.22	< 0.22	< 0.22	< 0.22	NA	NA	< 0.22
Chloroethane	ug/l	NS	NS	< 0.37	< 0.37	< 0.37	< 0.37	NA	NA	< 0.37
Chloroform	ug/l	70	80	< 0.21	< 0.21	< 0.21	< 0.21	NA	NA	< 0.21
Chloromethane	ug/l	NS	NS	< 0.22	< 0.22	< 0.22	< 0.22	NA	NA	< 0.22
cis-1,2-Dichloroethene	ug/l	70	70	< 0.22	< 0.22	< 0.22	< 0.22	NA	NA	< 0.22
cis-1,3-Dichloropropene	ug/l	NS	NS	< 0.22	< 0.22	< 0.22	< 0.22	NA	NA	< 0.22
Cyclohexane	ug/l	NS	NS	< 0.29	< 0.29	< 0.29	< 0.29	NA	NA	< 0.29
Dibromochloromethane	ug/l	1	80	< 0.2	< 0.2	< 0.2	< 0.2	NA	NA	< 0.2
Dichlorodifluoromethane	ug/l	1,000	NS	< 0.31	< 0.31	< 0.31	< 0.31	NA	NA	< 0.31
Ethylbenzene	ug/l	700	700	< 0.21	< 0.21	< 0.21	< 0.21	NA	NA	< 0.21
Freon 113	ug/l	NS	NS	< 0.49	< 0.49	< 0.49	< 0.49	NA	NA	< 0.49
Isopropylbenzene	ug/l	700	NS	< 0.19	< 0.19	< 0.19	< 0.19	NA	NA	< 0.19
Methyl acetate	ug/l	7000	NS	< 2.9	< 2.9	< 2.9	< 2.9	NA	NA	< 2.9
Methyl tert butyl ether	ug/l	70	NS	< 0.18	< 0.18	< 0.18	< 0.18	NA	NA	< 0.18
Methylcyclohexane	ug/l	NS	NS	< 0.18	< 0.18	< 0.18	< 0.18	NA	NA	< 0.18
Methylene chloride	ug/l	3	5	< 0.2	< 0.2	< 0.2	< 0.2	NA	NA	< 0.2
Styrene	ug/l	100	100	< 0.23	< 0.23	< 0.23	< 0.23	NA	NA	< 0.23
Tetrachloroethene	ug/l	1	5	< 0.32	< 0.32	< 0.32	< 0.32	NA	NA	< 0.32
Toluene	ug/l	600	1000	0.22 J	< 0.15	< 0.15	< 0.15	NA	NA	< 0.15
Trans-1,2-dichloroethene	ug/l	100	100	< 0.31	< 0.31	< 0.31	< 0.31	NA	NA	< 0.31
trans-1,3-Dichloropropene	ug/l	NS	NS	< 0.19	< 0.19	< 0.19	< 0.19	NA	NA	< 0.19
Trichloroethene	ug/l	1	5	< 0.21	< 0.21	< 0.21	< 0.21	NA	NA	< 0.21
Trichlorofluoromethane	ug/l	2000	NS	< 0.35	< 0.35	< 0.35	< 0.35	NA	NA	< 0.35
Vinyl Chloride	ug/l	1	2	< 0.27	< 0.27	< 0.27	< 0.27	NA	NA	< 0.27
Xylenes	ug/l	1,000	10000	< 0.17	< 0.17	< 0.17	< 0.17	NA	NA	< 0.17
Total TIC, Volatile	ug/l	NS	NS	16 J	28 J	0	9.3 J	NA	NA	0

Landfill Area				Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area
Location ID				RW-9	RW-9A	RW-10	RW-10	RW-10	RW-10	RW-10A
Sample ID		GWQS[1]	EPA	RW-9 (206-216)(042012)	RW-9A (85-95)(042012)	RW-10(185-195)(041812)	RW-10 (120-130)(041912)	RW-10(120-130)	RW-10(185-195)	RW-10A(51-61)(041812)
Sample Date			MCLs	4/20/2012	4/20/2012	4/18/2012	4/19/2012	5/4/2012	5/4/2012	4/18/2012
Validation Status	Units			Final	Final	Final	Final	Final	Final	Final
SVOC										
1,1'-Biphenyl	ug/l	400	NS	NA	< 0.35	< 0.37 J	< 0.41	NA	NA	< 0.34
2,4,5-Trichlorophenol	ug/l	700	NS	NA	< 1.8	< 1.9 J	< 2.1	NA	NA	< 1.8
2,4,6-Trichlorophenol	ug/l	20	NS	NA	< 1.5	< 1.6 J	< 1.7	NA	NA	< 1.5
2,4-Dichlorophenol	ug/l	20	NS	NA	< 1.3	< 1.4 J	< 1.6	NA	NA	< 1.3
2,4-Dimethylphenol	ug/l	100	NS	NA	< 1.8	< 1.9 J	< 2.1	NA	NA	< 1.7
2,4-Dinitrophenol	ug/l	40	NS	NA	< 19	< 20 J	< 22	NA	NA	< 19
2,4-Dinitrotoluene	ug/l	NS	NS	NA	< 0.5	< 0.52 J	< 0.58	NA	NA	< 0.48
2,6-Dinitrotoluene	ug/l	NS	NS	NA	< 0.54	< 0.56 J	< 0.62	NA	NA	< 0.52
2-Chloronaphthalene	ug/l	600	NS	NA	< 0.35	< 0.36 J	< 0.4	NA	NA	< 0.34
2-Chlorophenol	ug/l	40	NS	NA	< 1.1	< 1.2 J	< 1.3	NA	NA	< 1.1
2-Methylnaphthalene	ug/l	NS	NS	NA	< 0.45	< 0.47 J	< 0.52	NA	NA	< 0.44
2-Methylphenol	ug/l	NS	NS	NA	< 1.2	< 1.3	< 1.4	NA	NA	< 1.2
2-Nitroaniline	ug/l	NS	NS	NA	< 1.3	< 1.4	< 1.5	NA	NA	< 1.3
2-Nitrophenol	ug/l	NS	NS	NA	< 1.7	< 1.8 J	< 2	NA	NA	< 1.7
3&4-Methylphenol	ug/l	NS	NS	NA	< 1.1	< 1.1	< 1.2	NA	NA	< 1.1
3,3'-Dichlorobenzidine	ug/l	30	NS	NA	< 0.42	< 0.44	< 0.49	NA	NA	< 0.41
3-Nitroaniline	ug/l	NS	NS	NA	< 1.5	< 1.5	< 1.7	NA	NA	< 1.4
4,6-Dinitro-2-methylphenol	ug/l	NS	NS	NA	< 1.1	< 1.2 J	< 1.3	NA	NA	< 1.1
4-Bromophenyl phenyl ether	ug/l	NS	NS	NA	< 0.42	< 0.44 J	< 0.48	NA	NA	< 0.41
4-Chloro-3-Methylphenol	ug/l	NS	NS	NA	< 2.1	< 2.2 J	< 2.5	NA	NA	< 2.1
4-Chloroaniline	ug/l	30	NS	NA	< 0.61	< 0.64	< 0.71	NA	NA	< 0.6
4-Chlorophenyl phenyl ether	ug/l	NS	NS	NA	< 0.36	< 0.38 J	< 0.42	NA	NA	< 0.35
4-Nitroaniline	ug/l	NS	NS	NA	< 1.9	< 2	< 2.2	NA	NA	< 1.9
4-Nitrophenol	ug/l	NS	NS	NA	< 6	< 6.3 J	< 7	NA	NA	< 5.9
Acetophenone	ug/l	700	NS	NA	< 0.33	< 0.35	2.2 J	NA	NA	< 0.32
Atrazine	ug/l	3	3	NA	< 0.57	< 0.6	< 0.66	NA	NA	< 0.55
Benzaldehyde	ug/l	NS	NS	NA	< 3.8	< 4	< 4.4	NA	NA	< 3.7
Benzyl butyl phthalate	ug/l	100	NS	NA	< 0.34	< 0.35 J	< 0.39	NA	NA	< 0.33
bis(2-Chloroethoxy)methane	ug/l	NS	NS	NA	< 0.36	< 0.37 J	< 0.41	NA	NA	< 0.35
bis(2-Chloroethyl)ether	ug/l	7	NS	NA	< 0.36	< 0.38	< 0.42	NA	NA	< 0.35
bis(2-Chloroisopropyl)ether	ug/l	300	NS	NA	< 0.53	< 0.55	< 0.61	NA	NA	< 0.52
bis(2-Ethylhexyl)phthalate	ug/l	3	6	NA	< 0.68	< 0.71	< 0.79	NA	NA	2.6
Caprolactam	ug/l	NS	NS	NA	< 0.8	< 0.84	< 0.93	NA	NA	< 0.78
Carbazole	ug/l	NS	NS	NA	< 0.42	< 0.44 J	< 0.49	NA	NA	< 0.41
Dibenzofuran	ug/l	NS	NS	NA	< 0.31	< 0.32 J	< 0.36	NA	NA	< 0.3
Diethyl phthalate	ug/l	6000	NS	NA	< 0.38	< 0.4 J	< 0.44	NA	NA	< 0.37
Dimethyl phthalate	ug/l	NS	NS	NA	< 0.33	< 0.35	< 0.38	NA	NA	< 0.32
di-n-butyl phthalate	ug/l	700	NS	NA	< 0.65	< 0.68 J	< 0.75	NA	NA	< 0.63
di-n-octylphthalate	ug/l	100	NS	NA	< 0.36	< 0.38	< 0.42	NA	NA	< 0.35
Hexachlorobutadiene	ug/l	1	NS	NA	< 0.6	< 0.62	< 0.69	NA	NA	< 0.58
Hexachlorocyclopentadiene	ug/l	40	50	NA	< 8.3	< 8.7	< 9.6	NA	NA	< 8.1
Hexachloroethane	ug/l	7	NS	NA	< 0.64	< 0.67	< 0.74	NA	NA	< 0.62
Isophrone	ug/l	40	NS	NA	< 0.32	< 0.33 J	2 J	NA	NA	< 0.31
Nitrobenzene	ug/l	6	NS	NA	< 0.49	< 0.51 J	< 0.57	NA	NA	< 0.48
N-Nitroso-di-n-Propylamine	ug/l	10	NS	NA	< 0.35	< 0.37	< 0.41	NA	NA	< 0.34
N-Nitrosodiphenylamine	ug/l	10	NS	NA	< 0.35	< 0.37 J	< 0.41	NA	NA	< 0.35
Phenol	ug/l	2000	NS	NA	< 1.5	< 1.6	2.5 J	NA	NA	< 1.5
Total TIC, Semi-Volatile	ug/l	NS	NS	NA	0	27 J	39.5 J	NA	NA	29 J

Landfill Area				Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area
Location ID				**RW-9**	**RW-9A**	**RW-10**	**RW-10**	**RW-10**	**RW-10**	**RW-10A**
Sample ID		**GWQS[1]**	**EPA**	**RW-9 (206-216)(042012)**	**RW-9A (85-95)(042012)**	**RW-10(185-195)(041812)**	**RW-10 (120-130)(041912)**	**RW-10(120-130)**	**RW-10(185-195)**	**RW-10A(51-61)(041812)**
Sample Date			**MCLs**	**4/20/2012**	**4/20/2012**	**4/18/2012**	**4/19/2012**	**5/4/2012**	**5/4/2012**	**4/18/2012**
Validation Status	**Units**			**Final**	**Final**	**Final**	**Final**	**Final**	**Final**	**Final**
SVOC BY SIM										
Acenaphthene	ug/l	400	NS	NA	< 0.016	< 0.017	0.195	NA	NA	< 0.016
Acenaphthylene	ug/l	NS	NS	NA	< 0.019	< 0.02	0.17	NA	NA	< 0.018
Anthracene	ug/l	2000	NS	NA	< 0.012	< 0.012	< 0.014	NA	NA	< 0.011
Benzo(a)anthracene	ug/l	0.1 [0.2]	NS	NA	< 0.018	< 0.018	< 0.02	NA	NA	< 0.017
Benzo(a)pyrene	ug/l	0.1 [0.2]	0.2	NA	< 0.0057	< 0.006	< 0.0066	NA	NA	< 0.0056
Benzo(b)fluoranthene	ug/l	0.2 [10]	NS	NA	< 0.019	< 0.02	< 0.022	NA	NA	< 0.019
Benzo(g,h,i)perylene	ug/l	NS	NS	NA	< 0.012	< 0.013	< 0.014	NA	NA	< 0.012
Benzo(k)fluoranthene	ug/l	0.5	NS	NA	< 0.015	< 0.015	< 0.017	NA	NA	< 0.014
Chrysene	ug/l	5	NS	NA	< 0.027	< 0.028	< 0.031	NA	NA	< 0.026
Dibenzo(a,h)anthracene	ug/l	0.3 [0.5]	NS	NA	< 0.026	< 0.027	< 0.03	NA	NA	< 0.026
Fluoranthene	ug/l	300	NS	NA	< 0.011	< 0.012	< 0.013	NA	NA	< 0.011
Fluorene	ug/l	300	NS	NA	< 0.017	< 0.018	0.265	NA	NA	< 0.017
Hexachlorobenzene	ug/l	0.02 [10]	1	NA	< 0.0093	< 0.0098 J	< 0.011	NA	NA	< 0.0091
Indeno(1,2,3-cd)pyrene	ug/l	0.2 [10]	NS	NA	< 0.012	< 0.013	< 0.014	NA	NA	< 0.012
Naphthalene	ug/l	300	NS	NA	< 0.019	< 0.02	0.289	NA	NA	< 0.018
Pentachlorophenol	ug/l	0.3 [1]	1	NA	< 0.12 J	< 0.12 J	**1.47 J**	NA	NA	< 0.11 J
Phenanthrene	ug/l	NS	NS	NA	< 0.018	0.284	0.608	NA	NA	< 0.018
Pyrene	ug/l	200	NS	NA	< 0.0094	< 0.0099 J	< 0.011	NA	NA	< 0.0092
PCBs										
PCB 1016	ug/l	0.5	0.5	NA	< 0.14	< 0.16	< 0.16	NA	NA	< 0.15
PCB 1221	ug/l	0.5	0.5	NA	< 0.29	< 0.33	< 0.33	NA	NA	< 0.32
PCB 1232	ug/l	0.5	0.5	NA	< 0.41	< 0.48	< 0.47	NA	NA	< 0.45
PCB 1242	ug/l	0.5	0.5	NA	< 0.092	< 0.11	< 0.1	NA	NA	< 0.1
PCB 1248	ug/l	0.5	0.5	NA	< 0.16	< 0.18	< 0.18	NA	NA	< 0.17
PCB 1254	ug/l	0.5	0.5	NA	< 0.15	< 0.17	< 0.17	NA	NA	< 0.16
PCB 1260	ug/l	0.5	0.5	NA	< 0.22	< 0.26	< 0.25	NA	NA	< 0.24
Total PCBs	ug/l	0.5	0.5	NA	0	0	0	NA	NA	0
Metals - Total										
Aluminum	ug/l	200	NS	84.8 B	**323**	**528**	**327**	NA	NA	< 16
Antimony	ug/l	6	6	< 1.4	< 1.4	< 1.4	< 1.4	NA	NA	< 1.4
Arsenic	ug/l	3 [8]	10	< 3	2.8 J	**3.6 J**	**3.7 J**	NA	NA	< 3
Barium	ug/l	6000	2000	63 B	26.9 B	15.5 B	23 B	NA	NA	24.6 B
Beryllium	ug/l	1	4	< 0.44	< 0.44	< 0.44	< 0.44	NA	NA	< 0.44
Cadmium	ug/l	4	5	< 0.24	< 3	< 3	< 3	NA	NA	< 3
Calcium	ug/l	NS	NS	74500	37800	54800	41200	NA	NA	61600
Chromium	ug/l	70	100	4.3 J	< 0.91	2.8 B	< 10	NA	NA	< 0.91
Cobalt	ug/l	NS	NS	< 0.59	< 0.59	< 0.59	< 0.59	NA	NA	< 50
Copper	ug/l	1,300	1300	< 1.3	< 1.3	< 10	< 1.3	NA	NA	< 10
Iron	ug/l	300	NS	**535**	**670**	< 24	95.2 J	NA	NA	**432**
Lead	ug/l	5	15	< 1.7	< 1.7	< 1.7	< 1.7	NA	NA	< 1.7
Magnesium	ug/l	NS	NS	21400	7680	376 B	< 16	NA	NA	15400
Manganese	ug/l	50	NS	**183**	**99.6**	< 0.12	< 0.12	NA	NA	**2210**
Mercury	ug/l	2	2	< 0.075	< 0.075	< 0.075	< 0.075	NA	NA	< 0.075
Nickel	ug/l	100	NS	< 10	6.4 J	5.6 J	19.4	NA	NA	9.9 B
Potassium	ug/l	NS	NS	28200	3050 B	17900	44300	NA	NA	4220 B
Selenium	ug/l	40	50	< 2.4	< 2.4	< 10	6.1 J	NA	NA	< 2.4
Silicon	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	40	NS	< 0.85	< 0.85	1.8 J	< 0.85	NA	NA	1.2 J
Sodium	ug/l	50,000	NS	**116000**	32900	**61500**	**82700**	NA	NA	33200
Thallium	ug/l	2 [10]	2	< 1.7	< 1.7	< 1.7	< 1.7	NA	NA	< 1.7
Vanadium	ug/l	NS	NS	< 0.77	< 0.77	5.7 J	42 B	NA	NA	< 0.77
Zinc	ug/l	2000	NS	3.7 J	4.1 J	< 2.8	< 2.8	NA	NA	< 2.8

Landfill Area				Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area
Location ID				**RW-9**	**RW-9A**	**RW-10**	**RW-10**	**RW-10**	**RW-10**	**RW-10A**
Sample ID		**GWQS[1]**	**EPA**	**RW-9 (206-216)(042012)**	**RW-9A (85-95)(042012)**	**RW-10(185-195)(041812)**	**RW-10 (120-130)(041912)**	**RW-10(120-130)**	**RW-10(185-195)**	**RW-10A(51-61)(041812)**
Sample Date			**MCLs**	**4/20/2012**	**4/20/2012**	**4/18/2012**	**4/19/2012**	**5/4/2012**	**5/4/2012**	**4/18/2012**
Validation Status	**Units**			**Final**	**Final**	**Final**	**Final**	**Final**	**Final**	**Final**
Metals - Dissolved										
Aluminum	ug/l	200	NS	< 16	< 16	**560**	**319**	NA	NA	< 16
Antimony	ug/l	6	6	< 6	< 6	< 1.4	< 6	NA	NA	< 1.4
Arsenic	ug/l	3 [8]	10	< 0.97	2.5 J	**3.6 J**	**3.6 J**	NA	NA	< 3
Barium	ug/l	6000	2000	49.6 B	24.6 B	15.2 B	18.1 B	NA	NA	23.6 B
Beryllium	ug/l	1	4	< 0.44	< 0.44	< 0.44	< 0.44	NA	NA	< 0.44
Cadmium	ug/l	4	5	< 0.24	< 0.24	< 0.24	< 3	NA	NA	< 3
Calcium	ug/l	NS	NS	68900	36100	52600	39300	NA	NA	61600
Chromium	ug/l	70	100	3 J	< 0.91	2.3 B	< 10	NA	NA	< 0.91
Cobalt	ug/l	NS	NS	< 0.59	< 0.59	< 0.59	< 0.59	NA	NA	< 50
Copper	ug/l	1,300	1300	< 1.3	< 1.3	< 10	< 1.3	NA	NA	< 10
Iron	ug/l	300	NS	< 100	< 24	< 24	62.7 J	NA	NA	209 J
Lead	ug/l	5	15	< 1.7	< 1.7	< 1.7	< 1.7	NA	NA	< 1.7
Magnesium	ug/l	NS	NS	20600	7300	308 B	< 16	NA	NA	15400
Manganese	ug/l	50	NS	**165**	**90.6**	< 0.12	< 0.12	NA	NA	**1920**
Mercury	ug/l	2	2	< 0.075	< 0.075	< 0.2	< 0.075	NA	NA	< 0.075
Nickel	ug/l	100	NS	< 0.94	3.5 J	5.8 J	19.1	NA	NA	8.9 B
Potassium	ug/l	NS	NS	25800	2650 B	18500	42700	NA	NA	4200 B
Selenium	ug/l	40	50	< 2.4	< 2.4	< 10	8.2 J	NA	NA	< 2.4
Silver	ug/l	40	NS	< 0.85	< 0.85	1.8 J	< 0.85	NA	NA	1.3 J
Sodium	ug/l	50,000	NS	**116000**	33300	**65700**	**82600**	NA	NA	31500
Thallium	ug/l	2 [10]	2	< 1.7	< 1.7	< 1.7	< 1.7	NA	NA	< 1.7
Vanadium	ug/l	NS	NS	< 0.77	< 0.77	6 J	42.4 B	NA	NA	< 0.77
Zinc	ug/l	2000	NS	< 2.8	< 2.8	< 20	3.2 J	NA	NA	< 20
Other										
Alkalinity, Bicarbonate	ug/l	NS	NS	22400	10900	NA	NA	< 5000	< 5000	NA
Alkalinity, Carbonate	ug/l	NS	NS	< 5000	< 5000	NA	NA	96200	41000	NA
Alkalinity, total (as CaCO3)	ug/l	NS	NS	271000	128000	139000	191000	210000	141000	207000
Carbon dioxide	ug/l	NS	NS	NA	NA	NA	NA	< 1.8	148	NA
Chloride	ug/l	250000	NS	NA	5700	4800	12100	11900	4500	2700
Fluoride	ug/l	2000	4000	< 200	< 200	NA	NA	< 1500	< 200	NA
Methane	ug/l	NS	NS	NA	NA	NA	NA	1.8	1.8	NA
Nitrate	ug/l	10000	10000	NA	< 110	NA	NA	< 110	< 110	NA
Nitrogen, Nitrate + Nitrite	ug/l	NS	NS	NA	< 100	NA	NA	< 100	< 100	NA
Nitrogen, Nitrite	ug/l	1000	1000	< 10	< 10	NA	NA	38	< 10	NA
Phosphorus, Total	ug/l	NS	NS	NA	< 50	NA	NA	< 50	< 50	NA
Radon (pCi/l)	ug/l	NS	300	NA	NA	NA	NA	< 36	318	NA
Radon (pCi/l) Replicate	ug/l	NS	300	NA	NA	NA	NA	< 36	259	NA
Silica, Dissolved	ug/l	NS	NS	NA	7300	NA	NA	NA	NA	NA
Sulfate	ug/l	250000	NS	NA	76300	116000	118000	116000	137000	72600
Total organic carbon	ug/l	NS	NS	NA	NA	NA	NA	11600	3000	NA

See Footnotes on last page

Landfill Area				Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	O'Connor Disposal Area
Location ID				**RW-10A**	**RW-10A**	**RW-10A**	**RW-10A**	**SC-02**	**SC-02**	**OB-14A**
Sample ID		**GWQS[1]**	**EPA**	**RW-10A(75-85)(041812)**	**RW-10A(75-85)(041812) DUP**	**RW-10A(51-61)(050712)**	**RW-10A(75-85)(050712)**	**SC-2 (041912)**	**SC-2**	**OB-14A(041812)**
Sample Date			**MCLs**	**4/18/2012**	**4/18/2012**	**5/7/2012**	**5/7/2012**	**4/19/2012**	**6/19/2012**	**4/18/2012**
Validation Status	**Units**			**Final**	**Final**	**Final**	**Final**	**Final**	**Final**	**Final**
VOC										
1,1,1-Trichloroethane	ug/l	30	200	< 0.24	< 0.24	NA	NA	< 0.24	NA	< 0.24
1,1,2,2-Tetrachloroethane	ug/l	1	NS	< 0.2	< 0.2	NA	NA	< 0.2	NA	< 0.2
1,1,2-Trichloroethane	ug/l	3	5	< 0.23	< 0.23	NA	NA	< 0.23	NA	< 0.23
1,1-Dichloroethane	ug/l	50	NS	< 0.19	< 0.19	NA	NA	< 0.19	NA	< 0.19
1,1-Dichloroethene	ug/l	1	7	< 0.28	< 0.28	NA	NA	< 0.28	NA	< 0.28
1,2,4-Trichlorobenzene	ug/l	9	70	< 0.15	< 0.15	NA	NA	< 0.15	NA	< 0.15
1,2-Dibromo-3-Chloropropane (DBCP)	ug/l	0.02 [1]	0.2	< 1.3*	< 1.3*	NA	NA	< 1.3*	NA	< 1.3*
1,2-Dibromoethane	ug/l	0.03 [0.5]	0.05	< 0.21*	< 0.21*	NA	NA	< 0.21*	NA	< 0.21*
1,2-Dichlorobenzene	ug/l	600	600	< 0.18	< 0.18	NA	NA	< 0.18	NA	< 0.18
1,2-Dichloroethane	ug/l	2	5	< 0.18	< 0.18	NA	NA	< 0.18	NA	< 0.18
1,2-Dichloropropane	ug/l	1	5	< 0.22	< 0.22	NA	NA	< 0.22	NA	< 0.22
1,3-Dichlorobenzene	ug/l	600	NS	< 0.29	< 0.29	NA	NA	< 0.29	NA	< 0.29
1,4-Dichlorobenzene	ug/l	75	75	< 0.26	< 0.26	NA	NA	< 0.26	NA	< 0.26
2-Butanone (MEK)	ug/l	300	NS	< 2.9	< 2.9	NA	NA	< 2.9	NA	< 2.9 J
2-Hexanone	ug/l	NS	NS	< 3	< 3	NA	NA	< 3	NA	< 3 J
4-methyl-2-pentanone (MIBK)	ug/l	NS	NS	< 1.2	< 1.2	NA	NA	< 1.2	NA	< 1.2 J
Acetone	ug/l	6000	NS	< 7.6	< 7.6	NA	NA	< 7.6	NA	< 7.6 J
Benzene	ug/l	1	5	< 0.22	< 0.22	NA	NA	< 0.22	NA	< 0.22
Bromodichloromethane	ug/l	1	80	< 0.23	< 0.23	NA	NA	< 0.23	NA	< 0.23
Bromoform	ug/l	4	80	< 0.24	< 0.24	NA	NA	< 0.24	NA	< 0.24
Bromomethane	ug/l	10	NS	< 0.31	< 0.31	NA	NA	< 0.31	NA	< 0.31
Carbon disulfide	ug/l	700	NS	< 0.18	< 0.18	NA	NA	< 0.18	NA	< 0.18
Carbon tetrachloride	ug/l	1	5	< 0.19	< 0.19	NA	NA	< 0.19	NA	< 0.19
Chlorobenzene	ug/l	50	100	< 0.22	< 0.22	NA	NA	< 0.22	NA	< 0.22
Chloroethane	ug/l	NS	NS	< 0.37	< 0.37	NA	NA	< 0.37	NA	< 0.37
Chloroform	ug/l	70	80	< 0.21	< 0.21	NA	NA	< 0.21	NA	< 0.21
Chloromethane	ug/l	NS	NS	< 0.22	< 0.22	NA	NA	< 0.22	NA	< 0.22
cis-1,2-Dichloroethene	ug/l	70	70	< 0.22	< 0.22	NA	NA	< 0.22	NA	< 0.22
cis-1,3-Dichloropropene	ug/l	NS	NS	< 0.22	< 0.22	NA	NA	< 0.22	NA	< 0.22
Cyclohexane	ug/l	NS	NS	< 0.29	< 0.29	NA	NA	< 0.29	NA	< 0.29
Dibromochloromethane	ug/l	1	80	< 0.2	< 0.2	NA	NA	< 0.2	NA	< 0.2
Dichlorodifluoromethane	ug/l	1,000	NS	< 0.31	< 0.31	NA	NA	< 0.31	NA	< 0.31
Ethylbenzene	ug/l	700	700	< 0.21	< 0.21	NA	NA	< 0.21	NA	< 0.21
Freon 113	ug/l	NS	NS	< 0.49	< 0.49	NA	NA	< 0.49	NA	< 0.49
Isopropylbenzene	ug/l	700	NS	< 0.19	< 0.19	NA	NA	< 0.19	NA	< 0.19
Methyl acetate	ug/l	7000	NS	< 2.9	< 2.9	NA	NA	< 2.9	NA	< 2.9 J
Methyl tert butyl ether	ug/l	70	NS	< 0.18	< 0.18	NA	NA	< 0.18	NA	< 0.18
Methylcyclohexane	ug/l	NS	NS	< 0.18	< 0.18	NA	NA	< 0.18	NA	< 0.18
Methylene chloride	ug/l	3	5	< 0.2	< 0.2	NA	NA	< 0.2	NA	< 0.2
Styrene	ug/l	100	100	< 0.23	< 0.23	NA	NA	< 0.23	NA	< 0.23
Tetrachloroethene	ug/l	1	5	< 0.32	< 0.32	NA	NA	< 0.32	NA	< 0.32
Toluene	ug/l	600	1000	< 0.15	< 0.15	NA	NA	< 0.15	NA	< 0.15
Trans-1,2-dichloroethene	ug/l	100	100	< 0.31	< 0.31	NA	NA	< 0.31	NA	< 0.31
trans-1,3-Dichloropropene	ug/l	NS	NS	< 0.19	< 0.19	NA	NA	< 0.19	NA	< 0.19
Trichloroethene	ug/l	1	5	< 0.21	< 0.21	NA	NA	< 0.21	NA	< 0.21
Trichlorofluoromethane	ug/l	2000	NS	< 0.35	< 0.35	NA	NA	< 0.35	NA	< 0.35
Vinyl Chloride	ug/l	1	2	< 0.27	< 0.27	NA	NA	< 0.27	NA	< 0.27
Xylenes	ug/l	1,000	10000	< 0.17	< 0.17	NA	NA	< 0.17	NA	< 0.17
Total TIC, Volatile	ug/l	NS	NS	0	0	NA	NA	0	NA	0

Landfill Area				Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	O'Connor Disposal Area
Location ID				**RW-10A**	**RW-10A**	**RW-10A**	**RW-10A**	**SC-02**	**SC-02**	**OB-14A**
Sample ID		**GWQS[1]**	**EPA**	**RW-10A(75-85)(041812)**	**RW-10A(75-85)(041812) DUP**	**RW-10A(51-61)(050712)**	**RW-10A(75-85)(050712)**	**SC-2 (041912)**	**SC-2**	**OB-14A(041812)**
Sample Date			**MCLs**	**4/18/2012**	**4/18/2012**	**5/7/2012**	**5/7/2012**	**4/19/2012**	**6/19/2012**	**4/18/2012**
Validation Status	**Units**			**Final**	**Final**	**Final**	**Final**	**Final**	**Final**	**Final**
SVOC										
1,1'-Biphenyl	ug/l	400	NS	< 0.35	< 0.34	NA	NA	< 0.3	NA	< 0.34
2,4,5-Trichlorophenol	ug/l	700	NS	< 1.8	< 1.8	NA	NA	< 1.6	NA	< 1.7
2,4,6-Trichlorophenol	ug/l	20	NS	< 1.5	< 1.5	NA	NA	< 1.3	NA	< 1.4
2,4-Dichlorophenol	ug/l	20	NS	< 1.3	< 1.3	NA	NA	< 1.2	NA	< 1.3
2,4-Dimethylphenol	ug/l	100	NS	< 1.8	< 1.7	NA	NA	< 1.5	NA	< 1.7
2,4-Dinitrophenol	ug/l	40	NS	< 19	< 19	NA	NA	< 17	NA	< 18
2,4-Dinitrotoluene	ug/l	NS	NS	< 0.5	< 0.48	NA	NA	< 0.43	NA	< 0.47
2,6-Dinitrotoluene	ug/l	NS	NS	< 0.54	< 0.52	NA	NA	< 0.46	NA	< 0.51
2-Chloronaphthalene	ug/l	600	NS	< 0.35	< 0.34	NA	NA	< 0.3	NA	< 0.33
2-Chlorophenol	ug/l	40	NS	< 1.1	< 1.1	NA	NA	< 0.97	NA	< 1.1
2-Methylnaphthalene	ug/l	NS	NS	< 0.45	< 0.44	NA	NA	< 0.38	NA	< 0.43
2-Methylphenol	ug/l	NS	NS	< 1.2	< 1.2	NA	NA	< 1	NA	< 1.2
2-Nitroaniline	ug/l	NS	NS	< 1.3	< 1.3	NA	NA	< 1.1	NA	< 1.2
2-Nitrophenol	ug/l	NS	NS	< 1.7	< 1.7	NA	NA	< 1.5	NA	< 1.7
3&4-Methylphenol	ug/l	NS	NS	< 1.1	< 1.1	NA	NA	< 0.93	NA	< 1
3,3'-Dichlorobenzidine	ug/l	30	NS	< 0.42	< 0.41	NA	NA	< 0.36	NA	< 0.4
3-Nitroaniline	ug/l	NS	NS	< 1.5	< 1.4	NA	NA	< 1.3	NA	< 1.4
4,6-Dinitro-2-methylphenol	ug/l	NS	NS	< 1.1	< 1.1	NA	NA	< 0.99	NA	< 1.1
4-Bromophenyl phenyl ether	ug/l	NS	NS	< 0.42	< 0.41	NA	NA	< 0.36	NA	< 0.4
4-Chloro-3-Methylphenol	ug/l	NS	NS	< 2.1	< 2.1	NA	NA	< 1.8	NA	< 2
4-Chloroaniline	ug/l	30	NS	< 0.61	< 0.6	NA	NA	< 0.53	NA	< 0.59
4-Chlorophenyl phenyl ether	ug/l	NS	NS	< 0.36	< 0.35	NA	NA	< 0.31	NA	< 0.35
4-Nitroaniline	ug/l	NS	NS	< 1.9	< 1.9	NA	NA	< 1.7	NA	< 1.8
4-Nitrophenol	ug/l	NS	NS	< 6	< 5.9	NA	NA	< 5.2	NA	< 5.8
Acetophenone	ug/l	700	NS	< 0.33	< 0.32	NA	NA	< 0.29	NA	< 0.32
Atrazine	ug/l	3	3	< 0.57	< 0.55	NA	NA	< 0.49	NA	< 0.54
Benzaldehyde	ug/l	NS	NS	< 3.8	< 3.7	NA	NA	< 3.3	NA	< 3.6
Benzyl butyl phthalate	ug/l	100	NS	< 0.34	< 0.33	NA	NA	< 0.29	NA	< 0.32
bis(2-Chloroethoxy)methane	ug/l	NS	NS	< 0.36	< 0.35	NA	NA	< 0.31	NA	< 0.34
bis(2-Chloroethyl)ether	ug/l	7	NS	< 0.36	< 0.35	NA	NA	< 0.31	NA	< 0.34
bis(2-Chloroisopropyl)ether	ug/l	300	NS	< 0.53	< 0.52	NA	NA	< 0.45	NA	< 0.5
bis(2-Ethylhexyl)phthalate	ug/l	3	6	**6.8**	< 0.67	NA	NA	< 0.59	NA	< 0.65
Caprolactam	ug/l	NS	NS	< 0.8	< 0.78	NA	NA	< 0.69	NA	< 0.77
Carbazole	ug/l	NS	NS	< 0.42	< 0.41	NA	NA	< 0.36	NA	< 0.4
Dibenzofuran	ug/l	NS	NS	< 0.31	< 0.3	NA	NA	< 0.27	NA	< 0.29
Diethyl phthalate	ug/l	6000	NS	< 0.38	< 0.37	NA	NA	< 0.33	NA	< 0.36
Dimethyl phthalate	ug/l	NS	NS	< 0.33	< 0.32	NA	NA	< 0.28	NA	< 0.31
di-n-butyl phthalate	ug/l	700	NS	< 0.65	< 0.63	NA	NA	< 0.56	NA	< 0.62
di-n-octylphthalate	ug/l	100	NS	< 0.36	< 0.35	NA	NA	< 0.31	NA	< 0.34
Hexachlorobutadiene	ug/l	1	NS	< 0.6	< 0.58	NA	NA	< 0.51	NA	< 0.57
Hexachlorocyclopentadiene	ug/l	40	50	< 8.3	< 8.1	NA	NA	< 7.1	NA	< 7.9
Hexachloroethane	ug/l	7	NS	< 0.64	< 0.62	NA	NA	< 0.55	NA	< 0.61
Isophrone	ug/l	40	NS	< 0.32	< 0.31	NA	NA	< 0.27	NA	< 0.3
Nitrobenzene	ug/l	6	NS	< 0.49	< 0.48	NA	NA	< 0.42	NA	< 0.47
N-Nitroso-di-n-Propylamine	ug/l	10	NS	< 0.35	< 0.34	NA	NA	< 0.3	NA	< 0.34
N-Nitrosodiphenylamine	ug/l	10	NS	< 0.35	< 0.35	NA	NA	< 0.31	NA	< 0.34
Phenol	ug/l	2000	NS	< 1.5	< 1.5	NA	NA	< 1.3	NA	< 1.4
Total TIC, Semi-Volatile	ug/l	NS	NS	0	8.6 J	NA	NA	0	NA	73.4 J

Landfill Area				Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	O'Connor Disposal Area
Location ID				**RW-10A**	**RW-10A**	**RW-10A**	**RW-10A**	**SC-02**	**SC-02**	**OB-14A**
Sample ID		**GWQS[1]**	**EPA**	**RW-10A(75-85)(041812)**	**RW-10A(75-85)(041812) DUP**	**RW-10A(51-61)(050712)**	**RW-10A(75-85)(050712)**	**SC-2 (041912)**	**SC-2**	**OB-14A(041812)**
Sample Date			**MCLs**	**4/18/2012**	**4/18/2012**	**5/7/2012**	**5/7/2012**	**4/19/2012**	**6/19/2012**	**4/18/2012**
Validation Status	**Units**			**Final**	**Final**	**Final**	**Final**	**Final**	**Final**	**Final**
SVOC BY SIM										
Acenaphthene	ug/l	400	NS	< 0.016	< 0.016	NA	NA	< 0.014	NA	< 0.015
Acenaphthylene	ug/l	NS	NS	< 0.019	< 0.018	NA	NA	< 0.016	NA	< 0.018
Anthracene	ug/l	2000	NS	< 0.012	< 0.011	NA	NA	0.169	NA	< 0.011
Benzo(a)anthracene	ug/l	0.1 [0.2]	NS	< 0.018	< 0.017	NA	NA	**0.322**	NA	< 0.017
Benzo(a)pyrene	ug/l	0.1 [0.2]	0.2	< 0.0057	< 0.0056	NA	NA	< 0.0049	NA	< 0.0054
Benzo(b)fluoranthene	ug/l	0.2 [10]	NS	< 0.019	< 0.019	NA	NA	**0.223**	NA	< 0.018
Benzo(g,h,i)perylene	ug/l	NS	NS	< 0.012	< 0.012	NA	NA	0.118	NA	< 0.011
Benzo(k)fluoranthene	ug/l	0.5	NS	< 0.015	< 0.014	NA	NA	0.116	NA	< 0.014
Chrysene	ug/l	5	NS	< 0.027	< 0.026	NA	NA	0.169	NA	< 0.026
Dibenzo(a,h)anthracene	ug/l	0.3 [0.5]	NS	< 0.026	< 0.026	NA	NA	0.106	NA	< 0.025
Fluoranthene	ug/l	300	NS	< 0.011	< 0.011	NA	NA	0.249	NA	< 0.011
Fluorene	ug/l	300	NS	< 0.017	< 0.017	NA	NA	< 0.015	NA	< 0.017
Hexachlorobenzene	ug/l	0.02 [10]	1	< 0.0093	< 0.0091	NA	NA	< 0.008	NA	< 0.0089
Indeno(1,2,3-cd)pyrene	ug/l	0.2 [10]	NS	< 0.012	< 0.012	NA	NA	0.135	NA	< 0.012
Naphthalene	ug/l	300	NS	< 0.019	< 0.018	NA	NA	0.145	NA	< 0.018
Pentachlorophenol	ug/l	0.3 [1]	1	< 0.12 J	< 0.11 J	NA	NA	< 0.1 J	NA	< 0.11 J
Phenanthrene	ug/l	NS	NS	< 0.018	< 0.018	NA	NA	0.187	NA	< 0.017
Pyrene	ug/l	200	NS	< 0.0094	< 0.0092	NA	NA	0.254	NA	< 0.009
PCBs										
PCB 1016	ug/l	0.5	0.5	< 0.14	< 0.14	NA	NA	< 0.13	NA	< 0.13
PCB 1221	ug/l	0.5	0.5	< 0.29	< 0.3	NA	NA	< 0.27	NA	< 0.27
PCB 1232	ug/l	0.5	0.5	< 0.42	< 0.42	NA	NA	< 0.39	NA	< 0.39
PCB 1242	ug/l	0.5	0.5	< 0.093	< 0.095	NA	NA	< 0.086	NA	< 0.086
PCB 1248	ug/l	0.5	0.5	< 0.16	< 0.16	NA	NA	< 0.15	NA	< 0.15
PCB 1254	ug/l	0.5	0.5	< 0.15	< 0.15	NA	NA	< 0.14	NA	< 0.14
PCB 1260	ug/l	0.5	0.5	< 0.23	< 0.23	NA	NA	< 0.21	NA	< 0.21
Total PCBs	ug/l	0.5	0.5	0	0	NA	NA	0	NA	0
Metals - Total										
Aluminum	ug/l	200	NS	32.5 J	< 200	NA	NA	**245**	NA	67.7 B
Antimony	ug/l	6	6	< 1.4	< 1.4	NA	NA	< 6	NA	< 1.4
Arsenic	ug/l	3 [8]	10	< 0.97	< 0.97	NA	NA	< 0.97	NA	< 0.97
Barium	ug/l	6000	2000	9.2 B	9.1 B	NA	NA	35.9 B	NA	445
Beryllium	ug/l	1	4	< 0.44	< 0.44	NA	NA	< 0.44	NA	< 0.44
Cadmium	ug/l	4	5	< 3	< 3	NA	NA	< 3	NA	< 0.24
Calcium	ug/l	NS	NS	52100	52100	NA	NA	62100	57900	122000
Chromium	ug/l	70	100	< 0.91	< 0.91	NA	NA	< 0.91	NA	< 0.91
Cobalt	ug/l	NS	NS	< 0.59	< 0.59	NA	NA	3.8 J	NA	< 0.59
Copper	ug/l	1,300	1300	< 10	< 10	NA	NA	12.5 J	NA	< 1.3
Iron	ug/l	300	NS	< 100	< 24	NA	NA	**1660**	**937**	**46600**
Lead	ug/l	5	15	< 1.7	< 1.7	NA	NA	2.9 J	NA	< 1.7
Magnesium	ug/l	NS	NS	14400	14500	NA	NA	15400	13400	10600
Manganese	ug/l	50	NS	< 15	< 15	NA	NA	**219**	**89.5**	**1120**
Mercury	ug/l	2	2	< 0.075	< 0.075	NA	NA	< 0.2	NA	< 0.075
Nickel	ug/l	100	NS	4 J	3 J	NA	NA	4.1 J	NA	< 0.94
Potassium	ug/l	NS	NS	2170 B	2150 B	NA	NA	3600 B	2530 B	5570 B
Selenium	ug/l	40	50	< 10	< 10	NA	NA	< 2.4	NA	< 10
Silicon	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	40	NS	1.3 J	1.2 J	NA	NA	< 0.85	NA	2.1 B
Sodium	ug/l	50,000	NS	5890 B	5870 B	NA	NA	7720 B	6240 B	21900
Thallium	ug/l	2 [10]	2	< 1.7	< 1.7	NA	NA	< 1.7	NA	< 1.7
Vanadium	ug/l	NS	NS	< 0.77	< 0.77	NA	NA	< 50	NA	2.5 J
Zinc	ug/l	2000	NS	< 20	< 20	NA	NA	46	NA	< 20

Landfill Area				Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	Cannon Mine Pit Area	O'Connor Disposal Area
Location ID				**RW-10A**	**RW-10A**	**RW-10A**	**RW-10A**	**SC-02**	**SC-02**	**OB-14A**
Sample ID		**GWQS[1]**	**EPA**	**RW-10A(75-85)(041812)**	**RW-10A(75-85)(041812) DUP**	**RW-10A(51-61)(050712)**	**RW-10A(75-85)(050712)**	**SC-2 (041912)**	**SC-2**	**OB-14A(041812)**
Sample Date			**MCLs**	**4/18/2012**	**4/18/2012**	**5/7/2012**	**5/7/2012**	**4/19/2012**	**6/19/2012**	**4/18/2012**
Validation Status	**Units**			**Final**	**Final**	**Final**	**Final**	**Final**	**Final**	**Final**
Metals - Dissolved										
Aluminum	ug/l	200	NS	< 16	< 16	NA	NA	< 16	NA	< 16
Antimony	ug/l	6	6	< 1.4	< 1.4	NA	NA	< 6	NA	< 1.4
Arsenic	ug/l	3 [8]	10	< 0.97	< 0.97	NA	NA	< 0.97	NA	< 0.97
Barium	ug/l	6000	2000	9.2 B	10.1 B	NA	NA	32.7 B	NA	347
Beryllium	ug/l	1	4	< 0.44	< 0.44	NA	NA	< 0.44	NA	< 0.44
Cadmium	ug/l	4	5	< 3	< 3	NA	NA	< 3	NA	< 3
Calcium	ug/l	NS	NS	51100	51400	NA	NA	63000	NA	121000
Chromium	ug/l	70	100	< 0.91	< 0.91	NA	NA	< 0.91	NA	< 0.91
Cobalt	ug/l	NS	NS	< 0.59	< 0.59	NA	NA	< 50	NA	< 0.59
Copper	ug/l	1,300	1300	< 10	< 10	NA	NA	6.3 J	NA	< 1.3
Iron	ug/l	300	NS	< 24	< 24	NA	NA	< 24	**327**	**26000**
Lead	ug/l	5	15	< 1.7	< 1.7	NA	NA	< 1.7	NA	< 1.7
Magnesium	ug/l	NS	NS	14200	14400	NA	NA	15700	NA	10400
Manganese	ug/l	50	NS	< 15	< 15	NA	NA	**129**	38.6	**1130**
Mercury	ug/l	2	2	< 0.075	< 0.075	NA	NA	< 0.075	NA	< 0.075
Nickel	ug/l	100	NS	2.4 J	2.7 J	NA	NA	< 10	NA	< 10
Potassium	ug/l	NS	NS	2100 B	2140 B	NA	NA	3240 B	NA	5430 B
Selenium	ug/l	40	50	< 2.4	< 10	NA	NA	< 2.4	NA	< 2.4
Silver	ug/l	40	NS	1.1 J	1.1 J	NA	NA	< 0.85	NA	2.2 B
Sodium	ug/l	50,000	NS	5780 B	5880 B	NA	NA	7770 B	NA	21800
Thallium	ug/l	2 [10]	2	< 1.7	< 1.7	NA	NA	< 1.7	NA	< 1.7
Vanadium	ug/l	NS	NS	< 0.77	< 0.77	NA	NA	< 0.77	NA	< 0.77
Zinc	ug/l	2000	NS	< 20	< 20	NA	NA	41.2	NA	< 20
Other										
Alkalinity, Bicarbonate	ug/l	NS	NS	NA	NA	189000	163000	211000	213000	NA
Alkalinity, Carbonate	ug/l	NS	NS	NA	NA	< 5000	< 5000	< 5000	< 5000	NA
Alkalinity, total (as CaCO3)	ug/l	NS	NS	163000	163000	189000	163000	211000	213000	375000
Carbon dioxide	ug/l	NS	NS	NA	NA	3740	3460	NA	8410	NA
Chloride	ug/l	250000	NS	2000	2000	2600	2300	3000	3000	23900
Fluoride	ug/l	2000	4000	NA	NA	< 200	< 200	< 200	< 200	NA
Methane	ug/l	NS	NS	NA	NA	115	< 0.022	NA	< 0.03	NA
Nitrate	ug/l	10000	10000	NA	NA	420	660	NA	120	NA
Nitrogen, Nitrate + Nitrite	ug/l	NS	NS	NA	NA	430	660	NA	120	NA
Nitrogen, Nitrite	ug/l	1000	1000	NA	NA	< 10	< 10	NA	< 10	NA
Phosphorus, Total	ug/l	NS	NS	NA	NA	< 50	< 50	NA	< 72	NA
Radon (pCi/l)	ug/l	NS	300	NA	NA	582	635	NA	79	NA
Radon (pCi/l) Replicate	ug/l	NS	300	NA	NA	555	660	NA	61	NA
Silica, Dissolved	ug/l	NS	NS	NA	NA	NA	NA	NA	14100	NA
Sulfate	ug/l	250000	NS	44100	44800	68200	51000	28200	29600	< 10000
Total organic carbon	ug/l	NS	NS	NA	NA	1300	< 1000	NA	< 1000	NA

See Footnotes on last page

Landfill Area				O'Connor Disposal Area	O'Connor Disposal Area	O'Connor Disposal Area	O'Connor Disposal Area	O'Connor Disposal Area	O'Connor Disposal Area	O'Connor Disposal Area
Location ID				**OB-14B**	**OB-16**	**OB-17**	**OB-18**	**OB-22**	**OB-24**	**OB-25**
Sample ID		**GWQS[1]**	**EPA**	**OB-14B(041812)**	**OB-16(041712)**	**OB-17(041712)**	**OB-18(041712)**	**OB-22 (041912)**	**OB-24(041812)**	**OB-25 (042012)**
Sample Date			**MCLs**	**4/18/2012**	**4/17/2012**	**4/17/2012**	**4/17/2012**	**4/19/2012**	**4/18/2012**	**4/20/2012**
Validation Status	**Units**			**Final**	**Final**	**Final**	**Final**	**Final**	**Final**	**Final**
VOC										
1,1,1-Trichloroethane	ug/l	30	200	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
1,1,2,2-Tetrachloroethane	ug/l	1	NS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1,2-Trichloroethane	ug/l	3	5	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
1,1-Dichloroethane	ug/l	50	NS	< 0.19	< 0.19	1	< 0.19	< 0.19	< 0.19	< 0.19
1,1-Dichloroethene	ug/l	1	7	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
1,2,4-Trichlorobenzene	ug/l	9	70	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
1,2-Dibromo-3-Chloropropane (DBCP)	ug/l	0.02 [1]	0.2	< 1.3*	< 1.3*	< 1.3*	< 1.3*	< 1.3*	< 1.3*	< 1.3*
1,2-Dibromoethane	ug/l	0.03 [0.5]	0.05	< 0.21*	< 0.21*	< 0.21*	< 0.21*	< 0.21*	< 0.21*	< 0.21*
1,2-Dichlorobenzene	ug/l	600	600	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
1,2-Dichloroethane	ug/l	2	5	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
1,2-Dichloropropane	ug/l	1	5	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
1,3-Dichlorobenzene	ug/l	600	NS	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29
1,4-Dichlorobenzene	ug/l	75	75	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
2-Butanone (MEK)	ug/l	300	NS	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9
2-Hexanone	ug/l	NS	NS	< 3	< 3	< 3	< 3	< 3	< 3	< 3
4-methyl-2-pentanone (MIBK)	ug/l	NS	NS	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Acetone	ug/l	6000	NS	< 7.6	< 7.6	< 7.6	< 7.6	< 7.6	< 7.6	< 7.6
Benzene	ug/l	1	5	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Bromodichloromethane	ug/l	1	80	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Bromoform	ug/l	4	80	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Bromomethane	ug/l	10	NS	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
Carbon disulfide	ug/l	700	NS	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
Carbon tetrachloride	ug/l	1	5	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Chlorobenzene	ug/l	50	100	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Chloroethane	ug/l	NS	NS	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
Chloroform	ug/l	70	80	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Chloromethane	ug/l	NS	NS	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
cis-1,2-Dichloroethene	ug/l	70	70	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
cis-1,3-Dichloropropene	ug/l	NS	NS	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Cyclohexane	ug/l	NS	NS	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29
Dibromochloromethane	ug/l	1	80	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Dichlorodifluoromethane	ug/l	1,000	NS	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
Ethylbenzene	ug/l	700	700	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Freon 113	ug/l	NS	NS	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49
Isopropylbenzene	ug/l	700	NS	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Methyl acetate	ug/l	7000	NS	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9
Methyl tert butyl ether	ug/l	70	NS	0.24 J	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
Methylcyclohexane	ug/l	NS	NS	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
Methylene chloride	ug/l	3	5	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Styrene	ug/l	100	100	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Tetrachloroethene	ug/l	1	5	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
Toluene	ug/l	600	1000	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Trans-1,2-dichloroethene	ug/l	100	100	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
trans-1,3-Dichloropropene	ug/l	NS	NS	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Trichloroethene	ug/l	1	5	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Trichlorofluoromethane	ug/l	2000	NS	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
Vinyl Chloride	ug/l	1	2	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27
Xylenes	ug/l	1,000	10000	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Total TIC, Volatile	ug/l	NS	NS	0	0	0	0	0	0	0

Landfill Area				O'Connor Disposal Area	O'Connor Disposal Area	O'Connor Disposal Area	O'Connor Disposal Area	O'Connor Disposal Area	O'Connor Disposal Area	O'Connor Disposal Area
Location ID				**OB-14B**	**OB-16**	**OB-17**	**OB-18**	**OB-22**	**OB-24**	**OB-25**
Sample ID		**GWQS[1]**	**EPA**	**OB-14B(041812)**	**OB-16(041712)**	**OB-17(041712)**	**OB-18(041712)**	**OB-22 (041912)**	**OB-24(041812)**	**OB-25 (042012)**
Sample Date			**MCLs**	**4/18/2012**	**4/17/2012**	**4/17/2012**	**4/17/2012**	**4/19/2012**	**4/18/2012**	**4/20/2012**
Validation Status	**Units**			**Final**	**Final**	**Final**	**Final**	**Final**	**Final**	**Final**
SVOC										
1,1'-Biphenyl	ug/l	400	NS	< 0.33	< 0.3	< 0.32	< 0.36	NA	< 0.31	< 0.31
2,4,5-Trichlorophenol	ug/l	700	NS	< 1.7	< 1.6	< 1.7	< 1.9	NA	< 1.6	< 1.6
2,4,6-Trichlorophenol	ug/l	20	NS	< 1.4	< 1.3	< 1.4	< 1.5	NA	< 1.3	< 1.3
2,4-Dichlorophenol	ug/l	20	NS	< 1.2	< 1.2	< 1.2	< 1.4	NA	< 1.2	< 1.2
2,4-Dimethylphenol	ug/l	100	NS	< 1.6	< 1.5	< 1.6	< 1.8	NA	< 1.6	< 1.6
2,4-Dinitrophenol	ug/l	40	NS	< 18	< 17	< 18	< 20	NA	< 17	< 17
2,4-Dinitrotoluene	ug/l	NS	NS	< 0.46	< 0.43	< 0.45	< 0.51	NA	< 0.43	< 0.44
2,6-Dinitrotoluene	ug/l	NS	NS	< 0.5	< 0.46	< 0.49	< 0.55	NA	< 0.47	< 0.48
2-Chloronaphthalene	ug/l	600	NS	< 0.32	< 0.3	< 0.32	< 0.35	NA	< 0.3	< 0.31
2-Chlorophenol	ug/l	40	NS	< 1	< 0.97	< 1	< 1.2	NA	< 0.99	< 1
2-Methylnaphthalene	ug/l	NS	NS	< 0.41	< 0.38	< 0.41	< 0.46	NA	< 0.39	< 0.4
2-Methylphenol	ug/l	NS	NS	< 1.1	< 1	< 1.1	< 1.2	NA	< 1.1	< 1.1
2-Nitroaniline	ug/l	NS	NS	< 1.2	< 1.1	< 1.2	< 1.3	NA	< 1.1	< 1.2
2-Nitrophenol	ug/l	NS	NS	< 1.6	< 1.5	< 1.6	< 1.8	NA	< 1.5	< 1.6
3&4-Methylphenol	ug/l	NS	NS	< 0.99	< 0.93	< 0.98	< 1.1	NA	< 0.94	< 0.96
3,3'-Dichlorobenzidine	ug/l	30	NS	< 0.39	< 0.36	< 0.38	< 0.43	NA	< 0.37	< 0.37
3-Nitroaniline	ug/l	NS	NS	< 1.4	< 1.3	< 1.3	< 1.5	NA	< 1.3	< 1.3
4,6-Dinitro-2-methylphenol	ug/l	NS	NS	< 1.1	< 0.99	< 1.1	< 1.2	NA	< 1	< 1
4-Bromophenyl phenyl ether	ug/l	NS	NS	< 0.38	< 0.36	< 0.38	< 0.43	NA	< 0.36	< 0.37
4-Chloro-3-Methylphenol	ug/l	NS	NS	< 2	< 1.8	< 1.9	< 2.2	NA	< 1.9	< 1.9
4-Chloroaniline	ug/l	30	NS	< 0.53	< 0.53	< 0.56	< 0.63	NA	< 0.54	< 0.55
4-Chlorophenyl phenyl ether	ug/l	NS	NS	< 0.34	< 0.31	< 0.33	< 0.37	NA	< 0.32	< 0.32
4-Nitroaniline	ug/l	NS	NS	< 1.8	< 1.7	< 1.8	< 2	NA	< 1.7	< 1.7
4-Nitrophenol	ug/l	NS	NS	< 5.6	< 5.2	< 5.5	< 6.2	NA	< 5.3	< 5.4
Acetophenone	ug/l	700	NS	< 0.31	< 0.29	< 0.3	< 0.34	NA	< 0.29	< 0.3
Atrazine	ug/l	3	3	< 0.52	< 0.49	< 0.52	< 0.58	NA	< 0.5	< 0.51
Benzaldehyde	ug/l	NS	NS	< 3.5	< 3.3	< 3.5	< 3.9	NA	< 3.3	< 3.4
Benzyl butyl phthalate	ug/l	100	NS	< 0.31	< 0.29	< 0.31	< 0.34	NA	< 0.29	< 0.3
bis(2-Chloroethoxy)methane	ug/l	NS	NS	< 0.33	< 0.31	< 0.33	< 0.37	NA	< 0.31	< 0.32
bis(2-Chloroethyl)ether	ug/l	7	NS	< 0.33	< 0.31	< 0.33	< 0.37	NA	< 0.31	< 0.32
bis(2-Chloroisopropyl)ether	ug/l	300	NS	< 0.49	< 0.45	< 0.48	< 0.54	NA	< 0.46	< 0.47
bis(2-Ethylhexyl)phthalate	ug/l	3	6	< 0.63	< 0.59	< 0.62	< 0.7	NA	< 0.6	< 0.61
Caprolactam	ug/l	NS	NS	< 0.74	< 0.69	< 0.73	< 0.82	NA	< 0.7	< 0.71
Carbazole	ug/l	NS	NS	< 0.39	< 0.36	< 0.38	< 0.43	NA	< 0.37	< 0.37
Dibenzofuran	ug/l	NS	NS	< 0.28	< 0.27	< 0.28	< 0.32	NA	< 0.27	< 0.27
Diethyl phthalate	ug/l	6000	NS	< 0.35	< 0.33	< 0.35	< 0.39	NA	< 0.33	< 0.34
Dimethyl phthalate	ug/l	NS	NS	< 0.3	< 0.28	< 0.3	< 0.34	NA	< 0.29	< 0.29
di-n-butyl phthalate	ug/l	700	NS	< 0.6	< 0.56	< 0.59	< 0.66	NA	< 0.57	< 0.58
di-n-octylphthalate	ug/l	100	NS	< 0.33	< 0.31	< 0.33	< 0.37	NA	< 0.31	< 0.32
Hexachlorobutadiene	ug/l	1	NS	< 0.55	< 0.51	< 0.54	< 0.61	NA	< 0.52	< 0.53
Hexachlorocyclopentadiene	ug/l	40	50	< 7.6	< 7.1	< 7.6	< 8.5	NA	< 7.3	< 7.4
Hexachloroethane	ug/l	7	NS	< 0.59	< 0.55	< 0.59	< 0.65	NA	< 0.56	< 0.57
Isophrone	ug/l	40	NS	< 0.29	< 0.27	< 0.29	< 0.33	NA	< 0.28	< 0.28
Nitrobenzene	ug/l	6	NS	< 0.45	< 0.42	< 0.45	< 0.5	NA	< 0.43	< 0.43
N-Nitroso-di-n-Propylamine	ug/l	10	NS	< 0.32	< 0.3	< 0.32	< 0.36	NA	< 0.31	< 0.31
N-Nitrosodiphenylamine	ug/l	10	NS	< 0.33	< 0.31	< 0.32	< 0.36	NA	< 0.31	< 0.32
Phenol	ug/l	2000	NS	< 1.4	< 1.3	< 1.4	< 1.5	NA	< 1.3	< 1.3
Total TIC, Semi-Volatile	ug/l	NS	NS	6 J	23.1 J	17 J	0	NA	0	0 J

Landfill Area				O'Connor Disposal Area	O'Connor Disposal Area	O'Connor Disposal Area	O'Connor Disposal Area	O'Connor Disposal Area	O'Connor Disposal Area	O'Connor Disposal Area
Location ID				**OB-14B**	**OB-16**	**OB-17**	**OB-18**	**OB-22**	**OB-24**	**OB-25**
Sample ID		**GWQS[1]**	**EPA**	**OB-14B(041812)**	**OB-16(041712)**	**OB-17(041712)**	**OB-18(041712)**	**OB-22 (041912)**	**OB-24(041812)**	**OB-25 (042012)**
Sample Date			**MCLs**	**4/18/2012**	**4/17/2012**	**4/17/2012**	**4/17/2012**	**4/19/2012**	**4/18/2012**	**4/20/2012**
Validation Status	**Units**			**Final**	**Final**	**Final**	**Final**	**Final**	**Final**	**Final**
SVOC BY SIM										
Acenaphthene	ug/l	400	NS	< 0.015	< 0.014	< 0.015	< 0.016	NA	< 0.014	< 0.014
Acenaphthylene	ug/l	NS	NS	< 0.017	< 0.016	< 0.017	< 0.019	NA	< 0.016	< 0.017
Anthracene	ug/l	2000	NS	< 0.011	< 0.01	< 0.011	< 0.012	NA	< 0.01	< 0.01
Benzo(a)anthracene	ug/l	0.1 [0.2]	NS	< 0.016	< 0.015	< 0.016	< 0.018	NA	< 0.015	< 0.016
Benzo(a)pyrene	ug/l	0.1 [0.2]	0.2	< 0.0053	< 0.0049	< 0.0052	< 0.0058	NA	< 0.005	< 0.0051
Benzo(b)fluoranthene	ug/l	0.2 [10]	NS	< 0.018	< 0.016	< 0.017	< 0.019	NA	< 0.017	< 0.017
Benzo(g,h,i)perylene	ug/l	NS	NS	< 0.011	< 0.01	< 0.011	< 0.012	NA	< 0.011	< 0.011
Benzo(k)fluoranthene	ug/l	0.5	NS	< 0.013	< 0.013	< 0.013	< 0.015	NA	< 0.013	< 0.013
Chrysene	ug/l	5	NS	< 0.025	< 0.023	< 0.025	< 0.028	NA	< 0.024	< 0.024
Dibenzo(a,h)anthracene	ug/l	0.3 [0.5]	NS	< 0.024	< 0.023	< 0.024	< 0.027	NA	< 0.023	< 0.023
Fluoranthene	ug/l	300	NS	< 0.01	< 0.0096	< 0.01	< 0.011	NA	< 0.0098	< 0.0099
Fluorene	ug/l	300	NS	< 0.016	< 0.015	< 0.016	< 0.018	NA	< 0.015	< 0.015
Hexachlorobenzene	ug/l	0.02 [10]	1	< 0.0086	< 0.008	< 0.0085	< 0.0095	NA	< 0.0082	< 0.0083
Indeno(1,2,3-cd)pyrene	ug/l	0.2 [10]	NS	< 0.011	< 0.011	< 0.011	< 0.013	NA	< 0.011	< 0.011
Naphthalene	ug/l	300	NS	< 0.017	< 0.016	< 0.017	< 0.019	NA	< 0.017	< 0.017
Pentachlorophenol	ug/l	0.3 [1]	1	< 0.11 J	< 0.1 J	< 0.11 J	< 0.12 J	NA	< 0.1 J	< 0.1 J
Phenanthrene	ug/l	NS	NS	< 0.017	< 0.016	< 0.017	< 0.019	NA	< 0.016	< 0.016
Pyrene	ug/l	200	NS	< 0.0087	< 0.0081	< 0.0086	< 0.0096	NA	< 0.0083	< 0.0084
PCBs										
PCB 1016	ug/l	0.5	0.5	< 0.13	< 0.14	< 0.14	< 0.14	NA	< 0.13	< 0.14
PCB 1221	ug/l	0.5	0.5	< 0.27	< 0.3	< 0.29	< 0.29	NA	< 0.27	< 0.29
PCB 1232	ug/l	0.5	0.5	< 0.39	< 0.43	< 0.41	< 0.42	NA	< 0.39	< 0.41
PCB 1242	ug/l	0.5	0.5	< 0.086	< 0.096	< 0.091	< 0.093	NA	< 0.086	< 0.091
PCB 1248	ug/l	0.5	0.5	< 0.15	< 0.16	< 0.15	< 0.16	NA	< 0.15	< 0.15
PCB 1254	ug/l	0.5	0.5	< 0.14	< 0.16	< 0.15	< 0.15	NA	< 0.14	< 0.15
PCB 1260	ug/l	0.5	0.5	< 0.21	< 0.23	< 0.22	< 0.23	NA	< 0.21	< 0.22
Total PCBs	ug/l	0.5	0.5	0	0	0	0	NA	0	0
Metals - Total										
Aluminum	ug/l	200	NS	164 B	60 J	51.2 J	**327**	NA	**216**	**5640**
Antimony	ug/l	6	6	< 1.4	< 1.4	< 1.4	< 1.4	NA	< 1.4	< 6
Arsenic	ug/l	3 [8]	10	< 3	**6.9 J**	< 0.97	< 0.97	NA	< 0.97	2.1 J
Barium	ug/l	6000	2000	55.6 B	99.9 B	12.6 J	8.5 J	NA	40.2 B	51.9 B
Beryllium	ug/l	1	4	< 0.44	< 1	< 0.44	< 0.44	NA	< 0.44	< 0.44
Cadmium	ug/l	4	5	< 3	< 0.24	< 0.24	< 0.24	NA	< 3	< 3
Calcium	ug/l	NS	NS	112000	143000	102000	50000	NA	98300	39900
Chromium	ug/l	70	100	< 0.91	< 0.91	< 0.91	< 10	NA	< 0.91	6.9 J
Cobalt	ug/l	NS	NS	< 0.59	< 50	< 0.59	< 0.59	NA	< 0.59	2.9 J
Copper	ug/l	1,300	1300	< 10	< 10	< 1.3	< 1.3	NA	< 10	32.9
Iron	ug/l	300	NS	**865**	**17700**	**5200**	**404**	NA	**464**	**7710**
Lead	ug/l	5	15	< 1.7	< 1.7	< 1.7	< 1.7	NA	< 1.7	**17.2**
Magnesium	ug/l	NS	NS	31700	18800	31100	10600	NA	24700	9730
Manganese	ug/l	50	NS	**2110**	**4180**	**608**	9 B	NA	**628**	**213**
Mercury	ug/l	2	2	< 0.075	< 0.075	< 0.075	< 0.075	NA	< 0.075	< 0.075
Nickel	ug/l	100	NS	2.4 J	< 0.94	< 0.94	2.5 B	NA	< 10	8.5 J
Potassium	ug/l	NS	NS	3540 B	9640 B	775 B	483 B	NA	2150 B	6650 B
Selenium	ug/l	40	50	< 10	8.7 B	< 2.4	< 2.4	NA	< 10	< 2.4
Silicon	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	40	NS	2.1 B	6.9 B	< 10	< 0.85	NA	1.6 J	1.4 B
Sodium	ug/l	50,000	NS	25300	34600	15000	6030 B	NA	16500	**54200**
Thallium	ug/l	2 [10]	2	< 1.7	< 1.7	< 1.7	< 1.7	NA	< 1.7	< 1.7
Vanadium	ug/l	NS	NS	< 0.77	< 0.77	< 0.77	< 50	NA	< 50	12.1 B
Zinc	ug/l	2000	NS	< 2.8	< 20	< 2.8	< 2.8	NA	< 2.8	56.2

Landfill Area				O'Connor Disposal Area	O'Connor Disposal Area	O'Connor Disposal Area	O'Connor Disposal Area	O'Connor Disposal Area	O'Connor Disposal Area	O'Connor Disposal Area
Location ID				**OB-14B**	**OB-16**	**OB-17**	**OB-18**	**OB-22**	**OB-24**	**OB-25**
Sample ID		**GWQS[1]**	**EPA**	**OB-14B(041812)**	**OB-16(041712)**	**OB-17(041712)**	**OB-18(041712)**	**OB-22 (041912)**	**OB-24(041812)**	**OB-25 (042012)**
Sample Date			**MCLs**	**4/18/2012**	**4/17/2012**	**4/17/2012**	**4/17/2012**	**4/19/2012**	**4/18/2012**	**4/20/2012**
Validation Status	**Units**			**Final**	**Final**	**Final**	**Final**	**Final**	**Final**	**Final**
Metals - Dissolved										
Aluminum	ug/l	200	NS	< 16	50 J	47.3 J	< 200	NA	< 16	< 200
Antimony	ug/l	6	6	< 1.4	< 1.4	< 1.4	< 1.4	NA	< 1.4	< 6
Arsenic	ug/l	3 [8]	10	< 0.97	< 3	< 0.97	< 0.97	NA	< 0.97	< 0.97
Barium	ug/l	6000	2000	53.3 B	70.6 B	9.5 J	6.4 J	NA	35.9 B	21.9 B
Beryllium	ug/l	1	4	< 0.44	< 1	< 0.44	< 0.44	NA	< 0.44	< 0.44
Cadmium	ug/l	4	5	< 3	< 3	< 3	< 0.24	NA	< 3	< 0.24
Calcium	ug/l	NS	NS	112000	143000	102000	50100	NA	95600	40800
Chromium	ug/l	70	100	< 0.91	< 0.91	< 10	< 0.91	NA	< 0.91	< 0.91
Cobalt	ug/l	NS	NS	< 0.59	< 50	< 0.59	< 0.59	NA	< 0.59	< 0.59
Copper	ug/l	1,300	1300	< 10	< 1.3	< 1.3	< 1.3	NA	< 10	< 10
Iron	ug/l	300	NS	102 J	**5150**	102 J	< 24	NA	< 24	< 100
Lead	ug/l	5	15	< 1.7	1.8 B	< 1.7	< 1.7	NA	< 1.7	< 1.7
Magnesium	ug/l	NS	NS	31600	19700	32800	10600	NA	24200	8380
Manganese	ug/l	50	NS	**2090**	**4010**	**580**	< 15	NA	**69.7**	15.8
Mercury	ug/l	2	2	< 0.075	< 0.075	< 0.075	< 0.075	NA	< 0.075	< 0.075
Nickel	ug/l	100	NS	2.3 J	< 0.94	1.5 J	1.8 J	NA	< 10	< 10
Potassium	ug/l	NS	NS	3590 B	9430 B	785 B	386 B	NA	2120 B	5300 B
Selenium	ug/l	40	50	< 10	8.3 B	2.7 J	< 2.4	NA	< 10	< 2.4
Silver	ug/l	40	NS	2 J	6.9 B	< 0.85	< 0.85	NA	1.7 J	< 0.85
Sodium	ug/l	50,000	NS	26100	33800	14800	5980 B	NA	16700	**57700**
Thallium	ug/l	2 [10]	2	< 1.7	< 1.7	< 1.7	< 1.7	NA	< 1.7	< 1.7
Vanadium	ug/l	NS	NS	< 0.77	< 50	< 0.77	< 0.77	NA	< 0.77	< 0.77
Zinc	ug/l	2000	NS	< 20	< 2.8	< 2.8	< 2.8	NA	< 20	5.3 J
Other										
Alkalinity, Bicarbonate	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA
Alkalinity, Carbonate	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA
Alkalinity, total (as CaCO3)	ug/l	NS	NS	414000	451000	366000	161000	NA	241000	128000
Carbon dioxide	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA
Chloride	ug/l	250000	NS	53500	57800	8100	< 2000	NA	89300	94900
Fluoride	ug/l	2000	4000	NA	NA	NA	NA	NA	NA	NA
Methane	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA
Nitrate	ug/l	10000	10000	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrate + Nitrite	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrite	ug/l	1000	1000	NA	NA	NA	NA	NA	NA	NA
Phosphorus, Total	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA
Radon (pCi/l)	ug/l	NS	300	NA	NA	NA	NA	NA	NA	NA
Radon (pCi/l) Replicate	ug/l	NS	300	NA	NA	NA	NA	NA	NA	NA
Silica, Dissolved	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA
Sulfate	ug/l	250000	NS	12700	< 10000	44600	14800	NA	31700	14500
Total organic carbon	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA

See Footnotes on last page

Landfill Area				O'Connor Disposal Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area
Location ID				**OB-28**	**OB-11R**	**OB-15B**	**OB-19**	**OB-20A**	**OB-20B**	**OB-21**	**OB-27**
Sample ID		**GWQS[1]**	**EPA**	**OB-28(041712)**	**OB-11R (042612)**	**OB-15B(042412)**	**OB-19 (042512)**	**OB-20A (042712)**	**OB-20B (042712)**	**OB-21(042412)**	**OB-27 (042512)**
Sample Date			**MCLs**	**4/17/2012**	**4/26/2012**	**4/24/2012**	**4/25/2012**	**4/27/2012**	**4/27/2012**	**4/24/2012**	**4/25/2012**
Validation Status	**Units**			**Final**	**Final**	**Final**	**Final**	**Final**	**Final**	**Final**	**Final**
VOC											
1,1,1-Trichloroethane	ug/l	30	200	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
1,1,2,2-Tetrachloroethane	ug/l	1	NS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1,2-Trichloroethane	ug/l	3	5	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
1,1-Dichloroethane	ug/l	50	NS	< 0.19	0.4 J	< 0.19	< 0.19	< 0.19	0.36 J	< 0.19	3.7
1,1-Dichloroethene	ug/l	1	7	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
1,2,4-Trichlorobenzene	ug/l	9	70	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
1,2-Dibromo-3-Chloropropane (DBCP)	ug/l	0.02 [1]	0.2	< 1.3*	< 1.3*	< 1.3*	< 1.3*	< 1.3*	< 1.3*	< 1.3*	< 1.3*
1,2-Dibromoethane	ug/l	0.03 [0.5]	0.05	< 0.21*	< 0.21*	< 0.21*	< 0.21*	< 0.21*	< 0.21*	< 0.21*	< 0.21*
1,2-Dichlorobenzene	ug/l	600	600	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
1,2-Dichloroethane	ug/l	2	5	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
1,2-Dichloropropane	ug/l	1	5	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
1,3-Dichlorobenzene	ug/l	600	NS	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29
1,4-Dichlorobenzene	ug/l	75	75	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
2-Butanone (MEK)	ug/l	300	NS	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9
2-Hexanone	ug/l	NS	NS	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
4-methyl-2-pentanone (MIBK)	ug/l	NS	NS	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Acetone	ug/l	6000	NS	< 7.6	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Benzene	ug/l	1	5	< 0.22	**3.7**	< 0.22	0.32 J	< 0.22	0.66 J	< 0.22	**5.5**
Bromodichloromethane	ug/l	1	80	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Bromoform	ug/l	4	80	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Bromomethane	ug/l	10	NS	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
Carbon disulfide	ug/l	700	NS	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
Carbon tetrachloride	ug/l	1	5	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Chlorobenzene	ug/l	50	100	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Chloroethane	ug/l	NS	NS	< 0.37	37.9 J	< 0.37	2.3	< 0.37	1.6 J	< 0.37	208
Chloroform	ug/l	70	80	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Chloromethane	ug/l	NS	NS	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
cis-1,2-Dichloroethene	ug/l	70	70	< 0.22	0.29 J	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	0.6 J
cis-1,3-Dichloropropene	ug/l	NS	NS	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Cyclohexane	ug/l	NS	NS	< 0.29	1.1 J	< 0.29	< 0.29	< 0.29	0.43 J	< 0.29	3.3 J
Dibromochloromethane	ug/l	1	80	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Dichlorodifluoromethane	ug/l	1,000	NS	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
Ethylbenzene	ug/l	700	700	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Freon 113	ug/l	NS	NS	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49
Isopropylbenzene	ug/l	700	NS	< 0.19	< 0.19	< 0.19	0.28 J	< 0.19	< 0.19	< 0.19	3.1
Methyl acetate	ug/l	7000	NS	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9
Methyl tert butyl ether	ug/l	70	NS	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
Methylcyclohexane	ug/l	NS	NS	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	0.45 J	< 0.18	0.79 J
Methylene chloride	ug/l	3	5	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	0.99 J
Styrene	ug/l	100	100	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Tetrachloroethene	ug/l	1	5	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
Toluene	ug/l	600	1000	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Trans-1,2-dichloroethene	ug/l	100	100	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
trans-1,3-Dichloropropene	ug/l	NS	NS	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Trichloroethene	ug/l	1	5	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Trichlorofluoromethane	ug/l	2000	NS	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
Vinyl Chloride	ug/l	1	2	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27
Xylenes	ug/l	1,000	10000	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	0.32 J
Total TIC, Volatile	ug/l	NS	NS	0	0	0	0	0	0	0	81.9 JN

Landfill Area				O'Connor Disposal Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area
Location ID				**OB-28**	**OB-11R**	**OB-15B**	**OB-19**	**OB-20A**	**OB-20B**	**OB-21**	**OB-27**
Sample ID		**GWQS[1]**	**EPA**	**OB-28(041712)**	**OB-11R (042612)**	**OB-15B(042412)**	**OB-19 (042512)**	**OB-20A (042712)**	**OB-20B (042712)**	**OB-21(042412)**	**OB-27 (042512)**
Sample Date			**MCLs**	**4/17/2012**	**4/26/2012**	**4/24/2012**	**4/25/2012**	**4/27/2012**	**4/27/2012**	**4/24/2012**	**4/25/2012**
Validation Status	**Units**			**Final**	**Final**	**Final**	**Final**	**Final**	**Final**	**Final**	**Final**
SVOC											
1,1'-Biphenyl	ug/l	400	NS	< 0.31	< 0.32	< 0.37	< 0.34	< 0.33	< 0.3	< 0.33	< 0.31
2,4,5-Trichlorophenol	ug/l	700	NS	< 1.6	< 1.6	< 1.9	< 1.7	< 1.7	< 1.6	< 1.7	< 1.6
2,4,6-Trichlorophenol	ug/l	20	NS	< 1.3	< 1.4	< 1.6	< 1.4	< 1.4	< 1.3	< 1.4	< 1.3
2,4-Dichlorophenol	ug/l	20	NS	< 1.2	< 1.2	< 1.4	< 1.3	< 1.3	< 1.2	< 1.3	< 1.2
2,4-Dimethylphenol	ug/l	100	NS	< 1.6	< 1.6	< 1.9	< 1.7	< 1.7	< 1.5	< 1.7	< 1.5
2,4-Dinitrophenol	ug/l	40	NS	< 17	< 17	< 20	< 18	< 18	< 17	< 18	< 17
2,4-Dinitrotoluene	ug/l	NS	NS	< 0.44	< 0.45	< 0.52	< 0.47	< 0.47	< 0.43	< 0.47	< 0.43
2,6-Dinitrotoluene	ug/l	NS	NS	< 0.48	< 0.48	< 0.56	< 0.51	< 0.51	< 0.46	< 0.5	< 0.47
2-Chloronaphthalene	ug/l	600	NS	< 0.31	< 0.31	< 0.36	< 0.33	< 0.33	< 0.3	< 0.32	< 0.3
2-Chlorophenol	ug/l	40	NS	< 1	< 1	< 1.2	< 1.1	< 1.1	< 0.97	< 1.1	< 0.98
2-Methylnaphthalene	ug/l	NS	NS	< 0.4	< 0.4	< 0.47	< 0.43	< 0.42	< 0.38	< 0.42	0.8 J
2-Methylphenol	ug/l	NS	NS	< 1.1	< 1.1	< 1.3	< 1.2	< 1.1	< 1	< 1.1	< 1.1
2-Nitroaniline	ug/l	NS	NS	< 1.1	< 1.2	< 1.4	< 1.2	< 1.2	< 1.1	< 1.2	< 1.1
2-Nitrophenol	ug/l	NS	NS	< 1.5	< 1.6	< 1.8	< 1.7	< 1.7	< 1.5	< 1.6	< 1.5
3&4-Methylphenol	ug/l	NS	NS	< 0.95	< 0.97	< 1.1	< 1	< 1	< 0.93	< 1	< 0.93
3,3'-Dichlorobenzidine	ug/l	30	NS	< 0.37	< 0.38	< 0.44	< 0.4	< 0.4	< 0.36	< 0.39	< 0.36
3-Nitroaniline	ug/l	NS	NS	< 1.3	< 1.3	< 1.5	< 1.4	< 1.4	< 1.3	< 1.4	< 1.3
4,6-Dinitro-2-methylphenol	ug/l	NS	NS	< 1	< 1	< 1.2	< 1.1	< 1.1	< 0.99	< 1.1	< 1
4-Bromophenyl phenyl ether	ug/l	NS	NS	< 0.37	< 0.37	< 0.44	< 0.4	< 0.39	< 0.36	< 0.39	< 0.36
4-Chloro-3-Methylphenol	ug/l	NS	NS	< 1.9	< 1.9	< 2.2	< 2	< 2	< 1.8	< 2	< 1.8
4-Chloroaniline	ug/l	30	NS	< 0.54	< 0.55	< 0.64	< 0.59	< 0.58	< 0.53	< 0.58	< 0.53
4-Chlorophenyl phenyl ether	ug/l	NS	NS	< 0.32	< 0.33	< 0.38	< 0.35	< 0.34	< 0.31	< 0.34	< 0.32
4-Nitroaniline	ug/l	NS	NS	< 1.7	< 1.7	< 2	< 1.8	< 1.8	< 1.7	< 1.8	< 1.7
4-Nitrophenol	ug/l	NS	NS	< 5.4	< 5.4	< 6.3	< 5.8	< 5.7	< 5.2	< 5.7	< 5.3 J
Acetophenone	ug/l	700	NS	< 0.29	< 0.3	< 0.35	< 0.32	< 0.32	< 0.29	< 0.31	< 0.29
Atrazine	ug/l	3	3	< 0.5	< 0.51	< 0.6	< 0.54	< 0.54	< 0.49	< 0.53	< 0.49
Benzaldehyde	ug/l	NS	NS	< 3.4	< 3.4	< 4	< 3.6	< 3.6	< 3.3	< 3.6	< 3.3
Benzyl butyl phthalate	ug/l	100	NS	< 0.3	< 0.3	< 0.35	< 0.32	< 0.32	< 0.29	< 0.32	< 0.29
bis(2-Chloroethoxy)methane	ug/l	NS	NS	< 0.32	< 0.32	< 0.37	< 0.34	< 0.34	< 0.31	< 0.34	< 0.31
bis(2-Chloroethyl)ether	ug/l	7	NS	< 0.32	< 0.32	< 0.38	< 0.34 J	< 0.34	< 0.31	< 0.34	< 0.31
bis(2-Chloroisopropyl)ether	ug/l	300	NS	< 0.47	< 0.48	< 0.55	< 0.5	< 0.5	< 0.45	< 0.5	< 0.46
bis(2-Ethylhexyl)phthalate	ug/l	3	6	< 0.6	< 0.61	< 0.71	< 0.65	< 0.65	< 0.59	< 0.64	< 0.59
Caprolactam	ug/l	NS	NS	< 0.71	< 0.72	< 0.84	< 0.77 J	< 0.76	< 0.69	< 0.75	< 0.7 J
Carbazole	ug/l	NS	NS	< 0.37	< 0.38	< 0.44	< 0.4	< 0.4	< 0.36	< 0.39	< 0.36
Dibenzofuran	ug/l	NS	NS	< 0.27	< 0.28	< 0.32	< 0.29	< 0.29	< 0.27	< 0.29	< 0.27
Diethyl phthalate	ug/l	6000	NS	< 0.34	< 0.34	< 0.4	< 0.36	< 0.36	< 0.33	< 0.36	< 0.33
Dimethyl phthalate	ug/l	NS	NS	< 0.29	< 0.3	< 0.35	< 0.31	< 0.31	< 0.28	< 0.31	< 0.29
di-n-butyl phthalate	ug/l	700	NS	< 0.57	< 0.58	< 0.68	< 0.62	< 0.61	< 0.56	< 0.61	< 0.56
di-n-octylphthalate	ug/l	100	NS	< 0.32	< 0.32	< 0.38	< 0.34	< 0.34	< 0.31	< 0.34	< 0.31
Hexachlorobutadiene	ug/l	1	NS	< 0.53	< 0.54	< 0.62	< 0.57	< 0.57	< 0.51	< 0.56	< 0.52
Hexachlorocyclopentadiene	ug/l	40	50	< 7.3	< 7.4	< 8.7	< 7.9	< 7.9	< 7.1	< 7.8	< 7.2
Hexachloroethane	ug/l	7	NS	< 0.57	< 0.58	< 0.67	< 0.61	< 0.61	< 0.55	< 0.6	< 0.56
Isophrone	ug/l	40	NS	< 0.28	< 0.29	< 0.33	< 0.3	< 0.3	< 0.27	< 0.3	< 0.28
Nitrobenzene	ug/l	6	NS	< 0.43	< 0.44	< 0.51	< 0.47	< 0.46	< 0.42	< 0.46	< 0.42
N-Nitroso-di-n-Propylamine	ug/l	10	NS	< 0.31	< 0.32	< 0.37	< 0.34	< 0.33	< 0.3	< 0.33	< 0.31
N-Nitrosodiphenylamine	ug/l	10	NS	< 0.31	< 0.32	< 0.37	< 0.34	< 0.34	< 0.31	< 0.33	< 0.31
Phenol	ug/l	2000	NS	< 1.3	< 1.3	< 1.6	< 1.4	< 1.4	< 1.3	< 1.4	< 1.3
Total TIC, Semi-Volatile	ug/l	NS	NS	39 J	31.5 J	0	0	0	4.7 J	0	93.6 JN

Landfill Area				O'Connor Disposal Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area
Location ID				**OB-28**	**OB-11R**	**OB-15B**	**OB-19**	**OB-20A**	**OB-20B**	**OB-21**	**OB-27**
Sample ID		**GWQS[1]**	**EPA**	**OB-28(041712)**	**OB-11R (042612)**	**OB-15B(042412)**	**OB-19 (042512)**	**OB-20A (042712)**	**OB-20B (042712)**	**OB-21(042412)**	**OB-27 (042512)**
Sample Date			**MCLs**	**4/17/2012**	**4/26/2012**	**4/24/2012**	**4/25/2012**	**4/27/2012**	**4/27/2012**	**4/24/2012**	**4/25/2012**
Validation Status	**Units**			**Final**	**Final**	**Final**	**Final**	**Final**	**Final**	**Final**	**Final**
SVOC BY SIM											
Acenaphthene	ug/l	400	NS	< 0.014	< 0.014	< 0.017	< 0.015	< 0.015	< 0.014	< 0.015	0.374
Acenaphthylene	ug/l	NS	NS	< 0.017	< 0.017	< 0.02	< 0.018	< 0.018	< 0.016	< 0.018	< 0.016
Anthracene	ug/l	2000	NS	< 0.01	< 0.01	< 0.012	< 0.011	< 0.011	< 0.01	< 0.011	< 0.01
Benzo(a)anthracene	ug/l	0.1 [0.2]	NS	< 0.016	< 0.016	< 0.018	< 0.017	< 0.017	< 0.015	< 0.017	< 0.015
Benzo(a)pyrene	ug/l	0.1 [0.2]	0.2	< 0.0051	< 0.0051	< 0.006	< 0.0054	< 0.0054	< 0.0049	< 0.0054	< 0.0049
Benzo(b)fluoranthene	ug/l	0.2 [10]	NS	< 0.017	< 0.017	< 0.02	< 0.018	< 0.018	< 0.016	< 0.018	< 0.016
Benzo(g,h,i)perylene	ug/l	NS	NS	< 0.011	< 0.011	< 0.013	< 0.011	< 0.011	< 0.01	< 0.011	< 0.01
Benzo(k)fluoranthene	ug/l	0.5	NS	< 0.013	< 0.013	< 0.015	< 0.014	< 0.014	< 0.013	< 0.014	< 0.013 J
Chrysene	ug/l	5	NS	< 0.024	< 0.024	< 0.028	< 0.026	< 0.026	< 0.023	< 0.025	< 0.023
Dibenzo(a,h)anthracene	ug/l	0.3 [0.5]	NS	< 0.023	< 0.024	< 0.027	< 0.025	< 0.025	< 0.023	< 0.025	< 0.023
Fluoranthene	ug/l	300	NS	< 0.0099	< 0.01	< 0.012	< 0.011	< 0.011	< 0.0096	< 0.01	< 0.0097
Fluorene	ug/l	300	NS	< 0.015	< 0.016	< 0.018	< 0.017	< 0.016	< 0.015	< 0.016	0.402
Hexachlorobenzene	ug/l	0.02 [10]	1	< 0.0082	< 0.0084	< 0.0098	< 0.0089	< 0.0088	< 0.008	< 0.0087	< 0.0081
Indeno(1,2,3-cd)pyrene	ug/l	0.2 [10]	NS	< 0.011	< 0.011	< 0.013	< 0.012	< 0.012	< 0.011	< 0.012	< 0.011
Naphthalene	ug/l	300	NS	< 0.017	< 0.017	< 0.02	< 0.018	< 0.018	0.942	< 0.018	3.71
Pentachlorophenol	ug/l	0.3 [1]	1	< 0.1 J	< 0.1 J	< 0.12	< 0.11	< 0.11 J	< 0.1 J	< 0.11	< 0.1
Phenanthrene	ug/l	NS	NS	< 0.016	< 0.016	< 0.019	< 0.017	< 0.017	< 0.016	< 0.017	0.545
Pyrene	ug/l	200	NS	< 0.0084	< 0.0085	< 0.0099	< 0.009	< 0.009	< 0.0081	< 0.0089	< 0.0082
PCBs											
PCB 1016	ug/l	0.5	0.5	< 0.13	< 0.13	< 0.14	< 0.13	< 0.14	< 0.14	< 0.13	< 0.13
PCB 1221	ug/l	0.5	0.5	< 0.28	< 0.28	< 0.29	< 0.28	< 0.31	< 0.29	< 0.29	< 0.28
PCB 1232	ug/l	0.5	0.5	< 0.4	< 0.4	< 0.41	< 0.4	< 0.44	< 0.41	< 0.41	< 0.4
PCB 1242	ug/l	0.5	0.5	< 0.09	< 0.089	< 0.092	< 0.09	< 0.097	< 0.091	< 0.091	< 0.09
PCB 1248	ug/l	0.5	0.5	< 0.15	< 0.15	< 0.16	< 0.15	< 0.16	< 0.15	< 0.15	< 0.15
PCB 1254	ug/l	0.5	0.5	< 0.15	< 0.15	< 0.15	< 0.15	< 0.16	< 0.15	< 0.15	< 0.15
PCB 1260	ug/l	0.5	0.5	< 0.22	< 0.22	< 0.22	< 0.22	< 0.24	< 0.22	< 0.22	< 0.22
Total PCBs	ug/l	0.5	0.5	0	0	0	0	0	0	0	0
Metals - Total											
Aluminum	ug/l	200	NS	**581**	18.5 J	147 B	55.4 B	**972**	**299**	**1070**	**218 J**
Antimony	ug/l	6	6	< 1.4	< 1.4	< 1.4	< 6	< 1.4	< 1.4	< 1.4	< 1.4
Arsenic	ug/l	3 [8]	10	< 0.97	**21**	1.5 B	< 0.97	< 3	< 0.97	< 3	**21.5**
Barium	ug/l	6000	2000	58.7 B	71.3 B	28 B	94.5 B	129 B	58.7 B	9.1 B	53.3 B
Beryllium	ug/l	1	4	< 1	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 1
Cadmium	ug/l	4	5	< 3	0.5 J	< 0.24	< 3	0.4 J	0.4 J	< 0.24	< 3
Calcium	ug/l	NS	NS	143000	47300	21300	12600	19100	43700	9660	33700
Chromium	ug/l	70	100	< 0.91	< 0.91	< 0.91	< 0.91	1.8 B	< 0.91	1.3 B	< 0.91
Cobalt	ug/l	NS	NS	< 50	< 0.59	< 0.59	< 0.59	0.9 J	22.4 B	0.7 B	< 50
Copper	ug/l	1,300	1300	< 10	< 10	< 1.3	< 1.3	7.3 J	5.1 J	5.7 B	< 1.3
Iron	ug/l	300	NS	**1020**	**53800**	**539**	**15900**	**20100**	**31100**	**1670**	**45800**
Lead	ug/l	5	15	< 1.7	4.5	< 1.7	< 1.7	3 J	2.8 J	< 1.7	< 1.7
Magnesium	ug/l	NS	NS	31300	6060	5240	2080 B	2290 B	7940	4360 B	4510 B
Manganese	ug/l	50	NS	**3960**	**10000**	**3750**	**322**	**444**	**6820**	**101**	**7470**
Mercury	ug/l	2	2	< 0.075	< 0.075	< 0.2	< 0.075	< 0.075	< 0.075	< 0.2	< 0.075
Nickel	ug/l	100	NS	1.6 J	< 0.94	16.9	< 0.94	< 10	< 10	2 B	< 0.94
Potassium	ug/l	NS	NS	3740 B	2660 B	661 B	1020 B	1950 B	2580 B	1130 B	1580 B
Selenium	ug/l	40	50	8.5 B	3 J	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	8.2 B
Silicon	ug/l	NS	NS	NA	11300 J	NA	5330	7300 J	11400	NA	10700
Silver	ug/l	40	NS	6.6 B	2.7 B	1 B	< 0.85	< 0.85	1.7 J	1.1 B	< 0.85
Sodium	ug/l	50,000	NS	19800	3270 B	3620 B	2680 B	3060 B	4120 B	3300 B	2890 B
Thallium	ug/l	2 [10]	2	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
Vanadium	ug/l	NS	NS	3 J	< 0.77	2.9 B	1.6 B	3.1 B	2.4 B	2.1 B	< 0.77
Zinc	ug/l	2000	NS	< 20	< 30	3.2 B	15.8 B	44.6 J	< 20	6.5 B	4.5 B

Table 14: Summary of 2012 Ground Water Analytical Results,
Ringwood Mines/Landfill Site, Ringwood, New Jersey

Landfill Area				O'Connor Disposal Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area
Location ID				**OB-28**	**OB-11R**	**OB-15B**	**OB-19**	**OB-20A**	**OB-20B**	**OB-21**	**OB-27**
Sample ID		**GWQS[1]**	**EPA**	**OB-28(041712)**	**OB-11R (042612)**	**OB-15B(042412)**	**OB-19 (042512)**	**OB-20A (042712)**	**OB-20B (042712)**	**OB-21(042412)**	**OB-27 (042512)**
Sample Date			**MCLs**	**4/17/2012**	**4/26/2012**	**4/24/2012**	**4/25/2012**	**4/27/2012**	**4/27/2012**	**4/24/2012**	**4/25/2012**
Validation Status	**Units**			**Final**	**Final**	**Final**	**Final**	**Final**	**Final**	**Final**	**Final**
Metals - Dissolved											
Aluminum	ug/l	200	NS	54.5 J	< 16	< 16	< 16	< 16	< 16	< 16	< 200
Antimony	ug/l	6	6	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
Arsenic	ug/l	3 [8]	10	< 0.97	**7.5 J**	1.4 B	< 0.97	< 3	< 0.97	< 0.97	**18**
Barium	ug/l	6000	2000	55.2 B	53.4 B	2 B	84.6 B	125 B	48.1 B	3.2 B	49.2 B
Beryllium	ug/l	1	4	< 1	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 1
Cadmium	ug/l	4	5	< 3	0.6 J	< 0.24	< 3	< 0.24	0.4 J	< 0.24	< 3
Calcium	ug/l	NS	NS	144000	46800	23100	12300	20600	44000	10400	33200
Chromium	ug/l	70	100	< 0.91	< 0.91	< 0.91	< 0.91	< 0.91	< 0.91	< 0.91	< 0.91
Cobalt	ug/l	NS	NS	< 50	< 0.59	< 0.59	< 0.59	0.6 J	22.2 B	< 0.59	< 50
Copper	ug/l	1,300	1300	< 10	< 10	< 1.3	< 1.3	< 10	< 10	< 1.3	< 1.3
Iron	ug/l	300	NS	< 24	**40600**	< 24	**2710**	**19300**	**28000**	30.6 B	**42800**
Lead	ug/l	5	15	< 1.7	3.7 J	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
Magnesium	ug/l	NS	NS	31300	5980	5660	2040 B	2280 B	7890	4450 B	4430 B
Manganese	ug/l	50	NS	**3830**	**9770**	3.4 B	**316**	**482**	**6840**	0.8 B	**7290**
Mercury	ug/l	2	2	< 0.075	NA	NA	NA	NA	NA	NA	NA
Nickel	ug/l	100	NS	1 J	< 0.94	< 0.94	< 10	< 10	< 10	< 0.94	< 0.94
Potassium	ug/l	NS	NS	3650 B	2640 B	687 B	997 B	1960 B	2510 B	860 B	1530 J
Selenium	ug/l	40	50	8.8 B	3.2 J	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	9.2 B
Silver	ug/l	40	NS	6.3 B	2.9 B	1.3 B	< 0.85	< 0.85	1.6 J	1 B	< 0.85
Sodium	ug/l	50,000	NS	19900	3240 B	3990 B	2640 B	3310 B	4090 B	3600 B	2830 B
Thallium	ug/l	2 [10]	2	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
Vanadium	ug/l	NS	NS	< 50	< 0.77	1 B	< 0.77	< 0.77	0.9 J	< 0.77	< 0.77
Zinc	ug/l	2000	NS	< 20	< 20	< 2.8	14.2 B	< 20	< 20	< 2.8	7.2 B
Other											
Alkalinity, Bicarbonate	ug/l	NS	NS	NA	213000	74000	48300	71100	201000	39600	194000
Alkalinity, Carbonate	ug/l	NS	NS	NA	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000
Alkalinity, total (as CaCO3)	ug/l	NS	NS	360000	213000	74000	48300	71100	201000	39600	194000
Carbon dioxide	ug/l	NS	NS	NA	22700	NA	7080	27700 D	44100	2890	193000 D
Chloride	ug/l	250000	NS	93200	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000
Fluoride	ug/l	2000	4000	NA	< 200	< 200	< 200	< 200	< 200	< 200	< 200
Methane	ug/l	NS	NS	NA	10900	NA	2540	1990	17100	< 0.022	2580
Nitrate	ug/l	10000	10000	NA	< 110	< 110	< 110	< 110	< 110	< 110	< 110
Nitrogen, Nitrate + Nitrite	ug/l	NS	NS	NA	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Nitrogen, Nitrite	ug/l	1000	1000	NA	< 10 J	< 10	< 10	< 10 J	< 10 J	< 10	< 10
Phosphorus, Total	ug/l	NS	NS	NA	< 50	220	130	180	330	58	130
Radon (pCi/l)	ug/l	NS	300	NA	980	NA	176	670	1090	739	744
Radon (pCi/l) Replicate	ug/l	NS	300	NA	990	NA	240	730	1170	950	356
Silica, Dissolved	ug/l	NS	NS	NA	16700	12700	9800	11800	19800	13200	28800
Sulfate	ug/l	250000	NS	31000	< 10000	13800	< 10000	< 10000	< 10000	< 10000	< 10000
Total organic carbon	ug/l	NS	NS	NA	2900	< 1000	1800	1700	2000	< 1000	1900

See Footnotes on last page

Landfill Area				Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area
Location ID				OB-30A	OB-30B	OB-30C	PM AIR SHAFT	PM AIR SHAFT	PM AIR SHAFT	PM AIR SHAFT
Sample ID		GWQS[1]	EPA	OB-30A(051012)	OB-30B(051112)	OB-30C (5/9/2012)	PM AIR SHAFT-50(042312)	PM AIR SHAFT-180(042312)	PM AIR SHAFT-230(042412)	PM AIR SHAFT-230(042412) DUP
Sample Date			MCLs	5/10/2012	5/11/2012	5/9/2012	4/23/2012	4/23/2012	4/24/2012	4/24/2012
Validation Status	Units			Final	Final	Final	Final	Final	Final	Final
VOC										
1,1,1-Trichloroethane	ug/l	30	200	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
1,1,2,2-Tetrachloroethane	ug/l	1	NS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1,2-Trichloroethane	ug/l	3	5	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
1,1-Dichloroethane	ug/l	50	NS	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
1,1-Dichloroethene	ug/l	1	7	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
1,2,4-Trichlorobenzene	ug/l	9	70	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
1,2-Dibromo-3-Chloropropane (DBCP)	ug/l	0.02 [1]	0.2	< 1.3*	< 1.3*	< 1.3*	< 1.3*	< 1.3*	< 1.3*	< 1.3*
1,2-Dibromoethane	ug/l	0.03 [0.5]	0.05	< 0.21*	< 0.21*	< 0.21*	< 0.21*	< 0.21*	< 0.21*	< 0.21*
1,2-Dichlorobenzene	ug/l	600	600	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
1,2-Dichloroethane	ug/l	2	5	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
1,2-Dichloropropane	ug/l	1	5	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
1,3-Dichlorobenzene	ug/l	600	NS	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29
1,4-Dichlorobenzene	ug/l	75	75	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
2-Butanone (MEK)	ug/l	300	NS	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9
2-Hexanone	ug/l	NS	NS	< 3	< 3	< 3	< 3	< 3	< 3	< 3
4-methyl-2-pentanone (MIBK)	ug/l	NS	NS	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Acetone	ug/l	6000	NS	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Benzene	ug/l	1	5	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Bromodichloromethane	ug/l	1	80	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Bromoform	ug/l	4	80	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Bromomethane	ug/l	10	NS	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
Carbon disulfide	ug/l	700	NS	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
Carbon tetrachloride	ug/l	1	5	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Chlorobenzene	ug/l	50	100	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Chloroethane	ug/l	NS	NS	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
Chloroform	ug/l	70	80	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Chloromethane	ug/l	NS	NS	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
cis-1,2-Dichloroethene	ug/l	70	70	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
cis-1,3-Dichloropropene	ug/l	NS	NS	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Cyclohexane	ug/l	NS	NS	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29
Dibromochloromethane	ug/l	1	80	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Dichlorodifluoromethane	ug/l	1,000	NS	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
Ethylbenzene	ug/l	700	700	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Freon 113	ug/l	NS	NS	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49
Isopropylbenzene	ug/l	700	NS	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Methyl acetate	ug/l	7000	NS	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9
Methyl tert butyl ether	ug/l	70	NS	< 0.18	< 0.18	0.47 J	< 0.18	< 0.18	< 0.18	< 0.18
Methylcyclohexane	ug/l	NS	NS	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
Methylene chloride	ug/l	3	5	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Styrene	ug/l	100	100	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Tetrachloroethene	ug/l	1	5	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
Toluene	ug/l	600	1000	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Trans-1,2-dichloroethene	ug/l	100	100	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
trans-1,3-Dichloropropene	ug/l	NS	NS	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Trichloroethene	ug/l	1	5	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Trichlorofluoromethane	ug/l	2000	NS	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
Vinyl Chloride	ug/l	1	2	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27
Xylenes	ug/l	1,000	10000	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Total TIC, Volatile	ug/l	NS	NS	0	0	0	0	0	0	0

Landfill Area				Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area
Location ID				OB-30A	OB-30B	OB-30C	PM AIR SHAFT	PM AIR SHAFT	PM AIR SHAFT	PM AIR SHAFT
Sample ID		GWQS[1]	EPA	OB-30A(051012)	OB-30B(051112)	OB-30C (5/9/2012)	PM AIR SHAFT-50(042312)	PM AIR SHAFT-180(042312)	PM AIR SHAFT-230(042412)	PM AIR SHAFT-230(042412) DUP
Sample Date			MCLs	5/10/2012	5/11/2012	5/9/2012	4/23/2012	4/23/2012	4/24/2012	4/24/2012
Validation Status	Units			Final	Final	Final	Final	Final	Final	Final
SVOC										
1,1'-Biphenyl	ug/l	400	NS	< 0.3	< 0.33	< 0.3	< 0.3	< 0.35	< 0.3	< 0.3
2,4,5-Trichlorophenol	ug/l	700	NS	< 1.6	< 1.7	< 1.6	< 1.6	< 1.8	< 1.6	< 1.6
2,4,6-Trichlorophenol	ug/l	20	NS	< 1.3	< 1.4	< 1.3	< 1.3	< 1.5	< 1.3	< 1.3
2,4-Dichlorophenol	ug/l	20	NS	< 1.2	< 1.3	< 1.2	< 1.2	< 1.3	< 1.2	< 1.2
2,4-Dimethylphenol	ug/l	100	NS	< 1.5	< 1.7	< 1.5	< 1.5	< 1.8	< 1.5	< 1.5
2,4-Dinitrophenol	ug/l	40	NS	< 17	< 18	< 17	< 17	< 19	< 17	< 17
2,4-Dinitrotoluene	ug/l	NS	NS	< 0.43	< 0.47	< 0.43	< 0.43	< 0.49	< 0.43	< 0.43
2,6-Dinitrotoluene	ug/l	NS	NS	< 0.46	< 0.51	< 0.46	< 0.46	< 0.53	< 0.46	< 0.46
2-Chloronaphthalene	ug/l	600	NS	< 0.3	< 0.33	< 0.3	< 0.3	< 0.34	< 0.3	< 0.3
2-Chlorophenol	ug/l	40	NS	< 0.97	< 1.1	< 0.97	< 0.97	< 1.1	< 0.97	< 0.97
2-Methylnaphthalene	ug/l	NS	NS	< 0.38	< 0.42	< 0.38	< 0.38	< 0.44	< 0.38	< 0.38
2-Methylphenol	ug/l	NS	NS	< 1	< 1.1	< 1	< 1	< 1.2	< 1	< 1
2-Nitroaniline	ug/l	NS	NS	< 1.1	< 1.2	< 1.1	< 1.1	< 1.3	< 1.1	< 1.1
2-Nitrophenol	ug/l	NS	NS	< 1.5	< 1.6	< 1.5	< 1.5	< 1.7	< 1.5	< 1.5
3&4-Methylphenol	ug/l	NS	NS	< 0.93	< 1	< 0.93	< 0.93	< 1.1	< 0.93	< 0.93
3,3'-Dichlorobenzidine	ug/l	30	NS	< 0.36	< 0.4	< 0.36	< 0.36	< 0.41	< 0.36	< 0.36
3-Nitroaniline	ug/l	NS	NS	< 1.3	< 1.4	< 1.3	< 1.3	< 1.4	< 1.3	< 1.3
4,6-Dinitro-2-methylphenol	ug/l	NS	NS	< 0.99	< 1.1	< 0.99	< 0.99	< 1.1	< 0.99	< 0.99
4-Bromophenyl phenyl ether	ug/l	NS	NS	< 0.36	< 0.39	< 0.36	< 0.36	< 0.41	< 0.36	< 0.36
4-Chloro-3-Methylphenol	ug/l	NS	NS	< 1.8	< 2	< 1.8	< 1.8	< 2.1	< 1.8	< 1.8
4-Chloroaniline	ug/l	30	NS	< 0.53	< 0.58	< 0.53	< 0.53	< 0.61	< 0.53	< 0.53
4-Chlorophenyl phenyl ether	ug/l	NS	NS	< 0.31	< 0.34	< 0.31	< 0.31	< 0.36	< 0.31	< 0.31
4-Nitroaniline	ug/l	NS	NS	< 1.7	< 1.8	< 1.7	< 1.7	< 1.9	< 1.7	< 1.7
4-Nitrophenol	ug/l	NS	NS	< 5.2	< 5.7	< 5.2	< 5.2	< 6	< 5.2	< 5.2
Acetophenone	ug/l	700	NS	< 0.29	< 0.31	< 0.29	< 0.29	< 0.33	< 0.29	< 0.29
Atrazine	ug/l	3	3	< 0.49	< 0.54	< 0.49	< 0.49	< 0.56	< 0.49	< 0.49
Benzaldehyde	ug/l	NS	NS	< 3.3	< 3.6	< 3.3	< 3.3	< 3.7	< 3.3	< 3.3
Benzyl butyl phthalate	ug/l	100	NS	< 0.29	< 0.32	< 0.29	< 0.29	< 0.33	< 0.29	< 0.29
bis(2-Chloroethoxy)methane	ug/l	NS	NS	< 0.31	< 0.34	< 0.31	< 0.31	< 0.35	< 0.31	< 0.31
bis(2-Chloroethyl)ether	ug/l	7	NS	< 0.31	< 0.34	< 0.31	< 0.31	< 0.35	< 0.31	< 0.31
bis(2-Chloroisopropyl)ether	ug/l	300	NS	< 0.45	< 0.5	< 0.45	< 0.45	< 0.52	< 0.45	< 0.45
bis(2-Ethylhexyl)phthalate	ug/l	3	6	< 0.59	< 0.64	< 0.59	< 0.59	< 0.67	< 0.59	< 0.59
Caprolactam	ug/l	NS	NS	< 0.69	< 0.76	< 0.69	< 0.69	< 0.79	< 0.69	< 0.69
Carbazole	ug/l	NS	NS	< 0.36	< 0.4	< 0.36	< 0.36	< 0.41	< 0.36	< 0.36
Dibenzofuran	ug/l	NS	NS	< 0.27	< 0.29	< 0.27	< 0.27	< 0.3	< 0.27	< 0.27
Diethyl phthalate	ug/l	6000	NS	< 0.33	< 0.36	< 0.33	< 0.33	< 0.38	< 0.33	< 0.33
Dimethyl phthalate	ug/l	NS	NS	< 0.28	< 0.31	< 0.28	< 0.28	< 0.33	< 0.28	< 0.28
di-n-butyl phthalate	ug/l	700	NS	< 0.56	< 0.61	< 0.56	< 0.56	< 0.64	< 0.56	< 0.56
di-n-octylphthalate	ug/l	100	NS	< 0.31	< 0.34	< 0.31	< 0.31	< 0.35	< 0.31	< 0.31
Hexachlorobutadiene	ug/l	1	NS	< 0.51	< 0.56	< 0.51	< 0.51	< 0.59	< 0.51	< 0.51
Hexachlorocyclopentadiene	ug/l	40	50	< 7.1	< 7.8	< 7.1	< 7.1	< 8.2	< 7.1	< 7.1
Hexachloroethane	ug/l	7	NS	< 0.55	< 0.6	< 0.55	< 0.55	< 0.63	< 0.55	< 0.55
Isophrone	ug/l	40	NS	< 0.27	< 0.3	< 0.27	< 0.27	< 0.31	< 0.27	< 0.27
Nitrobenzene	ug/l	6	NS	< 0.42	< 0.46	< 0.42	< 0.42	< 0.48	< 0.42	< 0.42
N-Nitroso-di-n-Propylamine	ug/l	10	NS	< 0.3	< 0.33	< 0.3	< 0.3	< 0.35	< 0.3	< 0.3
N-Nitrosodiphenylamine	ug/l	10	NS	< 0.31	< 0.34	< 0.31	< 0.31	< 0.35	< 0.31	< 0.31
Phenol	ug/l	2000	NS	< 1.3	< 1.4	< 1.3	< 1.3	< 1.5	< 1.3	< 1.3
Total TIC, Semi-Volatile	ug/l	NS	NS	0	0	0	0	0	0	0

Landfill Area				Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area
Location ID				**OB-30A**	**OB-30B**	**OB-30C**	**PM AIR SHAFT**	**PM AIR SHAFT**	**PM AIR SHAFT**	**PM AIR SHAFT**
Sample ID		**GWQS[1]**	**EPA**	**OB-30A(051012)**	**OB-30B(051112)**	**OB-30C (5/9/2012)**	**PM AIR SHAFT-50(042312)**	**PM AIR SHAFT-180(042312)**	**PM AIR SHAFT-230(042412)**	**PM AIR SHAFT-230(042412) DUP**
Sample Date			**MCLs**	**5/10/2012**	**5/11/2012**	**5/9/2012**	**4/23/2012**	**4/23/2012**	**4/24/2012**	**4/24/2012**
Validation Status	**Units**			**Final**	**Final**	**Final**	**Final**	**Final**	**Final**	**Final**
SVOC BY SIM										
Acenaphthene	ug/l	400	NS	< 0.014	< 0.015	< 0.014	< 0.014	< 0.016	< 0.014	< 0.014
Acenaphthylene	ug/l	NS	NS	< 0.016	< 0.018	< 0.016	< 0.016	< 0.019	< 0.016	< 0.016
Anthracene	ug/l	2000	NS	< 0.01	< 0.011	< 0.01	< 0.01	< 0.011	< 0.01	< 0.01
Benzo(a)anthracene	ug/l	0.1 [0.2]	NS	< 0.015	< 0.017	< 0.015	< 0.015	< 0.017	< 0.015	< 0.015
Benzo(a)pyrene	ug/l	0.1 [0.2]	0.2	< 0.0049	< 0.0054	< 0.0049	< 0.0049	< 0.0056	< 0.0049	< 0.0049
Benzo(b)fluoranthene	ug/l	0.2 [10]	NS	< 0.016	< 0.018	< 0.016	< 0.016	< 0.019	< 0.016	< 0.016
Benzo(g,h,i)perylene	ug/l	NS	NS	< 0.01	< 0.011	< 0.01	< 0.01	< 0.012	< 0.01	< 0.01
Benzo(k)fluoranthene	ug/l	0.5	NS	< 0.013	< 0.014	< 0.013	< 0.013	< 0.014	< 0.013	< 0.013
Chrysene	ug/l	5	NS	< 0.023	< 0.025	< 0.023	< 0.023	< 0.027	< 0.023	< 0.023
Dibenzo(a,h)anthracene	ug/l	0.3 [0.5]	NS	< 0.023	< 0.025	< 0.023	< 0.023	< 0.026	< 0.023	< 0.023
Fluoranthene	ug/l	300	NS	< 0.0096	< 0.011	< 0.0096	< 0.0096	< 0.011	< 0.0096	< 0.0096
Fluorene	ug/l	300	NS	< 0.015	< 0.016	< 0.015	< 0.015	< 0.017	< 0.015	< 0.015
Hexachlorobenzene	ug/l	0.02 [10]	1	< 0.008	< 0.0088	< 0.008	< 0.008	< 0.0092	< 0.008	< 0.008
Indeno(1,2,3-cd)pyrene	ug/l	0.2 [10]	NS	< 0.011	< 0.012	< 0.011	< 0.011	< 0.012	< 0.011	< 0.011
Naphthalene	ug/l	300	NS	< 0.016	< 0.018	< 0.016	< 0.016	< 0.019	< 0.016	< 0.016
Pentachlorophenol	ug/l	0.3 [1]	1	< 0.1	< 0.11	< 0.1 J	< 0.1	< 0.11	< 0.1 J	< 0.1
Phenanthrene	ug/l	NS	NS	< 0.016	< 0.017	< 0.016	< 0.016	< 0.018	< 0.016	< 0.016
Pyrene	ug/l	200	NS	< 0.0081	< 0.0089	< 0.0081	< 0.0081	< 0.0093	< 0.0081	< 0.0081
PCBs										
PCB 1016	ug/l	0.5	0.5	< 0.14	< 0.14	< 0.17	< 0.14	< 0.15	< 0.13	< 0.13
PCB 1221	ug/l	0.5	0.5	< 0.29	< 0.29	< 0.36	< 0.29	< 0.32	< 0.27	< 0.27
PCB 1232	ug/l	0.5	0.5	< 0.41	< 0.41	< 0.51	< 0.41	< 0.45	< 0.39	< 0.39
PCB 1242	ug/l	0.5	0.5	< 0.092	< 0.092	< 0.11	< 0.091	< 0.1	< 0.086	< 0.086
PCB 1248	ug/l	0.5	0.5	< 0.16	< 0.16	< 0.19	< 0.15	< 0.17	< 0.15	< 0.15
PCB 1254	ug/l	0.5	0.5	< 0.15	< 0.15	< 0.19	< 0.15	< 0.17	< 0.14	< 0.14
PCB 1260	ug/l	0.5	0.5	< 0.22	< 0.22	< 0.28	< 0.22	< 0.25	< 0.21	< 0.21
Total PCBs	ug/l	0.5	0.5	0	0	0	0	0	0	0
Metals - Total										
Aluminum	ug/l	200	NS	**357**	54.4 J	**928**	**256**	25.9 B	20.3 B	27.3 B
Antimony	ug/l	6	6	< 1.4	1.5 B	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
Arsenic	ug/l	3 [8]	10	< 0.97	< 0.97	< 0.97	< 0.97	< 0.97	1 B	< 0.97
Barium	ug/l	6000	2000	29.2 B	33.6 B	15.2 B	9.1 B	9 B	9 B	9.2 B
Beryllium	ug/l	1	4	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
Cadmium	ug/l	4	5	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Calcium	ug/l	NS	NS	24100	25700	39000	5160	5160	5490	5590
Chromium	ug/l	70	100	< 0.91	< 0.91	< 10	< 0.91	< 0.91	< 0.91	< 0.91
Cobalt	ug/l	NS	NS	1 B	1.7 B	< 50	< 0.59	< 0.59	< 0.59	< 0.59
Copper	ug/l	1,300	1300	2.8 B	1.8 B	< 10	2.3 J	2.9 J	1.7 B	1.6 B
Iron	ug/l	300	NS	**703**	140	**1350**	**425**	176	173	182
Lead	ug/l	5	15	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	1.9 B
Magnesium	ug/l	NS	NS	5200	5570	14100	1460 B	1450 B	1580 B	1620 B
Manganese	ug/l	50	NS	**1180**	**1140**	**122**	31.9	6.7 B	6.3 B	6.5 B
Mercury	ug/l	2	2	< 0.075	< 0.075	< 0.075	< 0.2	< 0.2	< 0.2	< 0.2
Nickel	ug/l	100	NS	2.6 B	< 10	4 J	< 0.94	< 0.94	< 0.94	< 0.94
Potassium	ug/l	NS	NS	2720 J	2790 J	2280 B	492 B	363 B	342 B	341 B
Selenium	ug/l	40	50	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4
Silicon	ug/l	NS	NS	NA	NA	NA	4790	4670	NA	NA
Silver	ug/l	40	NS	< 0.85	< 0.85	< 0.85	< 0.85	< 10	< 0.85	< 0.85
Sodium	ug/l	50,000	NS	32500	34100	5780 B	2340 B	2380 B	2350 B	2370 B
Thallium	ug/l	2 [10]	2	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
Vanadium	ug/l	NS	NS	1.3 B	1.1 B	3.4 J	< 0.77	< 0.77	< 0.77	< 0.77
Zinc	ug/l	2000	NS	< 20	< 20	9 J	< 20	12.4 J	65.6	75.2

Landfill Area				Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area
Location ID				**OB-30A**	**OB-30B**	**OB-30C**	**PM AIR SHAFT**	**PM AIR SHAFT**	**PM AIR SHAFT**	**PM AIR SHAFT**
Sample ID		**GWQS[1]**	**EPA**	**OB-30A(051012)**	**OB-30B(051112)**	**OB-30C (5/9/2012)**	**PM AIR SHAFT-50(042312)**	**PM AIR SHAFT-180(042312)**	**PM AIR SHAFT-230(042412)**	**PM AIR SHAFT-230(042412) DUP**
Sample Date			**MCLs**	**5/10/2012**	**5/11/2012**	**5/9/2012**	**4/23/2012**	**4/23/2012**	**4/24/2012**	**4/24/2012**
Validation Status	**Units**			**Final**	**Final**	**Final**	**Final**	**Final**	**Final**	**Final**
Metals - Dissolved										
Aluminum	ug/l	200	NS	< 16	< 16	**622**	40 B	< 16	< 16	< 16
Antimony	ug/l	6	6	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
Arsenic	ug/l	3 [8]	10	< 0.97	< 0.97	< 0.97	< 0.97	< 0.97	< 0.97	< 0.97
Barium	ug/l	6000	2000	26.9 B	32.4 B	14.3 B	7.2 B	8.5 B	8.8 B	8.6 B
Beryllium	ug/l	1	4	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
Cadmium	ug/l	4	5	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Calcium	ug/l	NS	NS	23800	24900	43600	5010	4940 B	5390	5370
Chromium	ug/l	70	100	< 0.91	< 0.91	< 10	< 0.91	< 0.91	< 0.91	< 0.91
Cobalt	ug/l	NS	NS	0.9 B	1.7 B	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59
Copper	ug/l	1,300	1300	< 1.3	1.8 B	< 1.3	2.2 J	7.9 B	< 1.3	< 1.3
Iron	ug/l	300	NS	43.2 B	< 24	**948**	136	84.4 B	87.2 B	82.7 B
Lead	ug/l	5	15	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
Magnesium	ug/l	NS	NS	5080	5380	15600	1380 B	1400 B	1560 B	1570 B
Manganese	ug/l	50	NS	**1140**	**1110**	**124**	14.9 B	3.1 B	3.8 B	3.4 B
Mercury	ug/l	2	2	NA	NA	NA	NA	NA	NA	NA
Nickel	ug/l	100	NS	2.4 B	2.2 B	< 10	1.2 B	< 0.94	< 0.94	< 0.94
Potassium	ug/l	NS	NS	2690 J	2740 J	2410 B	450 B	345 B	334 B	324 B
Selenium	ug/l	40	50	< 2.4	< 2.4	2.5 B	< 2.4	< 2.4	< 2.4	< 2.4
Silver	ug/l	40	NS	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85
Sodium	ug/l	50,000	NS	32300	33700	6490 B	2370 B	2380 B	2350 B	2280 B
Thallium	ug/l	2 [10]	2	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
Vanadium	ug/l	NS	NS	0.8 B	1 B	3.3 J	< 0.77	< 0.77	< 0.77	< 0.77
Zinc	ug/l	2000	NS	8.4 B	< 20	6.3 J	6.8 B	15.7 B	65.4	72.4
Other										
Alkalinity, Bicarbonate	ug/l	NS	NS	NA	NA	134000 J	16300	15800	15100	14000
Alkalinity, Carbonate	ug/l	NS	NS	NA	NA	< 5000	< 5000	< 5000	< 5000	< 5000
Alkalinity, total (as CaCO3)	ug/l	NS	NS	64400	68000	137000 J	16300	15700	15100	13400
Carbon dioxide	ug/l	NS	NS	NA	NA	NA	704	733	621	596
Chloride	ug/l	250000	NS	42700	45300	31300	< 2000	< 2000	< 2000	< 2000
Fluoride	ug/l	2000	4000	NA	NA	< 200	< 200	< 200	< 200	< 200
Methane	ug/l	NS	NS	NA	NA	NA	1.3	< 1.2	< 0.56	< 0.61
Nitrate	ug/l	10000	10000	NA	NA	180	130	< 110	< 110	160
Nitrogen, Nitrate + Nitrite	ug/l	NS	NS	NA	NA	280	130	< 100	< 100	160
Nitrogen, Nitrite	ug/l	1000	1000	NA	NA	100	< 10	< 10	< 10	< 10
Phosphorus, Total	ug/l	NS	NS	NA	NA	< 50	< 50	< 50	< 50	< 50
Radon (pCi/l)	ug/l	NS	300	NA	NA	NA	66	< 37	< 33	NA
Radon (pCi/l) Replicate	ug/l	NS	300	NA	NA	NA	68	< 37	< 33	NA
Silica, Dissolved	ug/l	NS	NS	NA	NA	NA	6200	5100	6600	7200
Sulfate	ug/l	250000	NS	16600	17800	28400	< 10000	< 10000	< 10000	< 10000
Total organic carbon	ug/l	NS	NS	NA	NA	NA	3600	1800	1500	1600

See Footnotes on last page

Landfill Area				Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area
Location ID				PM AIR SHAFT	PM AIR SHAFT	PM AIR SHAFT	PM AIR SHAFT	RW-3	RW-3DD	RW-3DS
Sample ID		GWQS[1]	EPA	PM AIRSHAFT-50(071112)	PM AIRSHAFT-180(071112)	PM AIRSHAFT-180(071112) DUP	PM AIRSHAFT-230(071112)	RW-3 (77-87)(042612)	RW-3DD (175-180)(043012)	RW-3DS (155-160)(043012)
Sample Date			MCLs	7/11/2012	7/11/2012	7/11/2012	7/11/2012	4/27/2012	4/30/2012	4/30/2012
Validation Status	Units			Final	Final	Final	Final	Final	Final	Final
VOC										
1,1,1-Trichloroethane	ug/l	30	200	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
1,1,2,2-Tetrachloroethane	ug/l	1	NS	< 0.21	< 0.21	< 0.21	< 0.21	< 0.2	< 0.2	< 0.2
1,1,2-Trichloroethane	ug/l	3	5	< 0.29	< 0.29	< 0.29	< 0.29	< 0.23	< 0.23	< 0.23
1,1-Dichloroethane	ug/l	50	NS	< 0.11	< 0.11	< 0.11	< 0.11	0.29 J	1.1	0.94 J
1,1-Dichloroethene	ug/l	1	7	< 0.19	< 0.19	< 0.19	< 0.19	< 0.28	< 0.28	< 0.28
1,2,4-Trichlorobenzene	ug/l	9	70	< 0.2	< 0.2	< 0.2	< 0.2	< 0.15	< 0.15	< 0.15
1,2-Dibromo-3-Chloropropane (DBCP)	ug/l	0.02 [1]	0.2	< 0.54*	< 0.54*	< 0.54*	< 0.54*	< 1.3*	< 1.3*	< 1.3*
1,2-Dibromoethane	ug/l	0.03 [0.5]	0.05	< 0.2*	< 0.2*	< 0.2*	< 0.2*	< 0.21*	< 0.21*	< 0.21*
1,2-Dichlorobenzene	ug/l	600	600	< 0.22	< 0.22	< 0.22	0.44 J	< 0.18	< 0.18	< 0.18
1,2-Dichloroethane	ug/l	2	5	< 0.26	< 0.26	< 0.26	< 0.26	< 0.18	< 0.18	< 0.18
1,2-Dichloropropane	ug/l	1	5	< 0.48	< 0.48	< 0.48	< 0.48	< 0.22	< 0.22	< 0.22
1,3-Dichlorobenzene	ug/l	600	NS	< 0.22	< 0.22	< 0.22	1.8	< 0.29	< 0.29	< 0.29
1,4-Dichlorobenzene	ug/l	75	75	< 0.3	< 0.3	< 0.3	4.2	< 0.26	< 0.26	< 0.26
2-Butanone (MEK)	ug/l	300	NS	< 2.4	< 2.4	< 2.4	< 2.4	< 2.9	< 2.9	< 2.9
2-Hexanone	ug/l	NS	NS	< 1.1	< 1.1	< 1.1	< 1.1	< 3	< 3	< 3
4-methyl-2-pentanone (MIBK)	ug/l	NS	NS	< 0.83	< 0.83	< 0.83	< 0.83	< 1.2	< 1.2	< 1.2
Acetone	ug/l	6000	NS	< 3.3	< 3.3	< 3.3	< 3.3	< 5	52	41.8
Benzene	ug/l	1	5	< 0.24	< 0.24	< 0.24	**28.5**	< 0.22	< 0.22	< 0.22
Bromodichloromethane	ug/l	1	80	< 0.21	< 0.21	< 0.21	< 0.21	< 0.23	< 0.23	< 0.23
Bromoform	ug/l	4	80	< 0.21	< 0.21	< 0.21	< 0.21	< 0.24	< 0.24	< 0.24
Bromomethane	ug/l	10	NS	< 0.22	< 0.22	< 0.22	< 0.22	< 0.31	< 0.31	< 0.31
Carbon disulfide	ug/l	700	NS	< 0.19	< 0.19	< 0.19	< 0.19	< 0.18	4.8	3.8
Carbon tetrachloride	ug/l	1	5	< 0.22	< 0.22	< 0.22	< 0.22	< 0.19	< 0.19	< 0.19
Chlorobenzene	ug/l	50	100	< 0.23	< 0.23	< 0.23	16.4	< 0.22	< 0.22	< 0.22
Chloroethane	ug/l	NS	NS	< 0.26	< 0.26	< 0.26	9.6	< 0.37	< 0.37	< 0.37
Chloroform	ug/l	70	80	< 0.2	< 0.2	< 0.2	< 0.2	< 0.21	< 0.21	< 0.21
Chloromethane	ug/l	NS	NS	< 0.21	< 0.21	< 0.21	< 0.21	< 0.22	< 0.22	< 0.22
cis-1,2-Dichloroethene	ug/l	70	70	< 0.19	< 0.19	< 0.19	< 0.19	< 0.22	< 0.22	< 0.22
cis-1,3-Dichloropropene	ug/l	NS	NS	< 0.21	< 0.21	< 0.21	< 0.21	< 0.22	< 0.22	< 0.22
Cyclohexane	ug/l	NS	NS	< 0.35	< 0.35	< 0.35	0.83 J	< 0.29	< 0.29	< 0.29
Dibromochloromethane	ug/l	1	80	< 0.14	< 0.14	< 0.14	< 0.14	< 0.2	< 0.2	< 0.2
Dichlorodifluoromethane	ug/l	1,000	NS	< 0.27	< 0.27	< 0.27	< 0.27	< 0.31	< 0.31	< 0.31
Ethylbenzene	ug/l	700	700	< 0.23	< 0.23	< 0.23	< 0.23	< 0.21	< 0.21	< 0.21
Freon 113	ug/l	NS	NS	< 0.53	< 0.53	< 0.53	< 0.53	< 0.49	< 0.49	< 0.49
Isopropylbenzene	ug/l	700	NS	< 0.45	< 0.45	< 0.45	8	< 0.19	< 0.19	< 0.19
Methyl acetate	ug/l	7000	NS	< 1.2	< 1.2	< 1.2	< 1.2	< 2.9	< 2.9	< 2.9
Methyl tert butyl ether	ug/l	70	NS	< 0.16	< 0.16	< 0.16	< 0.16	< 0.18	< 0.18	< 0.18
Methylcyclohexane	ug/l	NS	NS	< 0.26	< 0.26	< 0.26	< 0.26	< 0.18	< 0.18	< 0.18
Methylene chloride	ug/l	3	5	< 0.7	< 0.7	< 0.7	< 0.7	< 0.2	< 0.2	< 0.2
Styrene	ug/l	100	100	< 0.21	< 0.21	< 0.21	< 0.21	< 0.23	< 0.23	< 0.23
Tetrachloroethene	ug/l	1	5	< 0.28	< 0.28	< 0.28	< 0.28	< 0.32	< 0.32	< 0.32
Toluene	ug/l	600	1000	< 0.23	< 0.23	< 0.23	0.45 J	< 0.15	< 0.15	< 0.15
Trans-1,2-dichloroethene	ug/l	100	100	< 0.21	< 0.21	< 0.21	< 0.21	< 0.31	< 0.31	< 0.31
trans-1,3-Dichloropropene	ug/l	NS	NS	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Trichloroethene	ug/l	1	5	< 0.22	< 0.22	< 0.22	< 0.22	< 0.21	< 0.21	< 0.21
Trichlorofluoromethane	ug/l	2000	NS	< 0.27	< 0.27	< 0.27	< 0.27	< 0.35	< 0.35	< 0.35
Vinyl Chloride	ug/l	1	2	< 0.21	< 0.21	< 0.21	< 0.21	< 0.27	< 0.27	< 0.27
Xylenes	ug/l	1,000	10000	< 0.24	< 0.24	< 0.24	0.77 J	< 0.17	< 0.17	< 0.17
Total TIC, Volatile	ug/l	NS	NS	0	0	0	0	0	0	0

Landfill Area				Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area
Location ID				PM AIR SHAFT	PM AIR SHAFT	PM AIR SHAFT	PM AIR SHAFT	RW-3	RW-3DD	RW-3DS
Sample ID		GWQS[1]	EPA	PM AIRSHAFT-50(071112)	PM AIRSHAFT-180(071112)	PM AIRSHAFT-180(071112) DUP	PM AIRSHAFT-230(071112)	RW-3 (77-87)(042612)	RW-3DD (175-180)(043012)	RW-3DS (155-160)(043012)
Sample Date			MCLs	7/11/2012	7/11/2012	7/11/2012	7/11/2012	4/27/2012	4/30/2012	4/30/2012
Validation Status	Units			Final	Final	Final	Final	Final	Final	Final
SVOC										
1,1'-Biphenyl	ug/l	400	NS	< 0.3	< 0.33	< 0.3	< 0.32	< 0.34	< 0.35	< 0.34
2,4,5-Trichlorophenol	ug/l	700	NS	< 1.6	< 1.7	< 1.6	< 1.6	< 1.8	< 1.8	< 1.8
2,4,6-Trichlorophenol	ug/l	20	NS	< 1.3	< 1.4	< 1.3	< 1.4	< 1.5	< 1.5	< 1.4
2,4-Dichlorophenol	ug/l	20	NS	< 1.2	< 1.3	< 1.2	< 1.2	< 1.3	< 1.3	< 1.3
2,4-Dimethylphenol	ug/l	100	NS	< 1.5	< 1.7	< 1.5	< 1.6	< 1.7	< 1.8	< 1.7
2,4-Dinitrophenol	ug/l	40	NS	< 17	< 18	< 17	< 17	< 19	< 19	< 19
2,4-Dinitrotoluene	ug/l	NS	NS	< 0.43	< 0.47	< 0.43	< 0.45	< 0.48	< 0.49	< 0.48
2,6-Dinitrotoluene	ug/l	NS	NS	< 0.46	< 0.51	< 0.46	< 0.49	< 0.52	< 0.53	< 0.52
2-Chloronaphthalene	ug/l	600	NS	< 0.3	< 0.33	< 0.3	< 0.31	< 0.34	< 0.34	< 0.33
2-Chlorophenol	ug/l	40	NS	< 0.97	< 1.1	< 0.97	< 1	< 1.1	< 1.1	< 1.1
2-Methylnaphthalene	ug/l	NS	NS	< 0.38	< 0.42	< 0.38	< 0.4	< 0.43	< 0.44	< 0.43
2-Methylphenol	ug/l	NS	NS	< 1	< 1.1	< 1	< 1.1	< 1.2	< 1.2	< 1.2
2-Nitroaniline	ug/l	NS	NS	< 1.1	< 1.2	< 1.1	< 1.2	< 1.3	< 1.3	< 1.2
2-Nitrophenol	ug/l	NS	NS	< 1.5	< 1.6	< 1.5	< 1.6	< 1.7	< 1.7	< 1.7
3&4-Methylphenol	ug/l	NS	NS	< 0.93	< 1	< 0.93	< 0.97	< 1	< 1.1	< 1
3,3'-Dichlorobenzidine	ug/l	30	NS	< 0.36	< 0.4	< 0.36	< 0.38	< 0.41	< 0.41	< 0.4
3-Nitroaniline	ug/l	NS	NS	< 1.3	< 1.4	< 1.3	< 1.3	< 1.4	< 1.4	< 1.4
4,6-Dinitro-2-methylphenol	ug/l	NS	NS	< 0.99	< 1.1	< 0.99	< 1	< 1.1	< 1.1	< 1.1
4-Bromophenyl phenyl ether	ug/l	NS	NS	< 0.36	< 0.39	< 0.36	< 0.38	< 0.4	< 0.41	< 0.4
4-Chloro-3-Methylphenol	ug/l	NS	NS	< 1.8	< 2	< 1.8	< 1.9	< 2.1	< 2.1	< 2
4-Chloroaniline	ug/l	30	NS	< 0.53	< 0.58	< 0.53	< 0.56	< 0.6	< 0.61	< 0.59
4-Chlorophenyl phenyl ether	ug/l	NS	NS	< 0.31	< 0.34	< 0.31	< 0.33	< 0.35	< 0.36	< 0.35
4-Nitroaniline	ug/l	NS	NS	< 1.7	< 1.8	< 1.7	< 1.7	< 1.9	< 1.9	< 1.9
4-Nitrophenol	ug/l	NS	NS	< 5.2	< 5.7	< 5.2	< 5.5	< 5.9	< 6	< 5.8
Acetophenone	ug/l	700	NS	< 0.29	< 0.31	< 0.29	< 0.3	< 0.32	< 0.33	< 0.32
Atrazine	ug/l	3	3	< 0.49	< 0.54	< 0.49	< 0.51	< 0.55	< 0.56	< 0.55
Benzaldehyde	ug/l	NS	NS	< 3.3	< 3.6	< 3.3	< 3.4	< 3.7	< 3.7	< 3.7
Benzyl butyl phthalate	ug/l	100	NS	< 0.29	< 0.32	< 0.29	< 0.3	< 0.33	< 0.33	< 0.32
bis(2-Chloroethoxy)methane	ug/l	NS	NS	< 0.31	< 0.34	< 0.31	< 0.32	< 0.35	< 0.35	< 0.34
bis(2-Chloroethyl)ether	ug/l	7	NS	< 0.31	< 0.34	< 0.31	< 0.32	< 0.35	< 0.35	< 0.35
bis(2-Chloroisopropyl)ether	ug/l	300	NS	< 0.45	< 0.5	< 0.45	< 0.48	< 0.51	< 0.52	< 0.51
bis(2-Ethylhexyl)phthalate	ug/l	3	6	< 0.59	< 0.64	< 0.59	< 0.62	< 0.66	**3.3**	< 0.66
Caprolactam	ug/l	NS	NS	< 0.69	< 0.76	< 0.69	< 0.73	< 0.78	< 0.79	< 0.77
Carbazole	ug/l	NS	NS	< 0.36	< 0.4	< 0.36	< 0.38	< 0.41	< 0.41	< 0.4
Dibenzofuran	ug/l	NS	NS	< 0.27	< 0.29	< 0.27	< 0.28	< 0.3	< 0.3	< 0.3
Diethyl phthalate	ug/l	6000	NS	< 0.33	< 0.36	< 0.33	< 0.34	< 0.37	< 0.38	< 0.37
Dimethyl phthalate	ug/l	NS	NS	< 0.28	< 0.31	< 0.28	< 0.3	< 0.32	< 0.33	< 0.32
di-n-butyl phthalate	ug/l	700	NS	< 0.56	< 0.61	< 0.56	< 0.58	< 0.63	< 0.64	< 0.62
di-n-octylphthalate	ug/l	100	NS	< 0.31	< 0.34	< 0.31	< 0.32	< 0.35	< 0.35	< 0.35
Hexachlorobutadiene	ug/l	1	NS	< 0.51	< 0.56	< 0.51	< 0.54	< 0.58	< 0.59	< 0.58
Hexachlorocyclopentadiene	ug/l	40	50	< 7.1	< 7.8	< 7.1	< 7.5	< 8	< 8.2	< 8
Hexachloroethane	ug/l	7	NS	< 0.55	< 0.6	< 0.55	< 0.58	< 0.62	< 0.63	< 0.62
Isophrone	ug/l	40	NS	< 0.27	< 0.3	< 0.27	< 0.29	< 0.31	< 0.31	< 0.31
Nitrobenzene	ug/l	6	NS	< 0.42	< 0.46	< 0.42	< 0.44	< 0.47	< 0.48	< 0.47
N-Nitroso-di-n-Propylamine	ug/l	10	NS	< 0.3	< 0.33	< 0.3	< 0.32	< 0.34	< 0.35	< 0.34
N-Nitrosodiphenylamine	ug/l	10	NS	< 0.31	< 0.34	< 0.31	0.95 J	< 0.34	< 0.35	< 0.34
Phenol	ug/l	2000	NS	< 1.3	< 1.4	< 1.3	< 1.3	< 1.4	< 1.5	< 1.4
Total TIC, Semi-Volatile	ug/l	NS	NS	0	0	0	188.2 J	0	38.3 J	36.2 J

Landfill Area				Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area
Location ID				**PM AIR SHAFT**	**PM AIR SHAFT**	**PM AIR SHAFT**	**PM AIR SHAFT**	**RW-3**	**RW-3DD**	**RW-3DS**
Sample ID		**GWQS[1]**	**EPA**	**PM AIRSHAFT-50(071112)**	**PM AIRSHAFT-180(071112)**	**PM AIRSHAFT-180(071112) DUP**	**PM AIRSHAFT-230(071112)**	**RW-3 (77-87)(042612)**	**RW-3DD (175-180)(043012)**	**RW-3DS (155-160)(043012)**
Sample Date			**MCLs**	**7/11/2012**	**7/11/2012**	**7/11/2012**	**7/11/2012**	**4/27/2012**	**4/30/2012**	**4/30/2012**
Validation Status	**Units**			**Final**	**Final**	**Final**	**Final**	**Final**	**Final**	**Final**
SVOC BY SIM										
Acenaphthene	ug/l	400	NS	< 0.014	< 0.015	< 0.014	0.176	< 0.015	< 0.016	< 0.015
Acenaphthylene	ug/l	NS	NS	< 0.016	< 0.018	< 0.016	< 0.017	< 0.018	< 0.019	< 0.018
Anthracene	ug/l	2000	NS	< 0.01	< 0.011	< 0.01	< 0.011	< 0.011	< 0.011	< 0.011
Benzo(a)anthracene	ug/l	0.1 [0.2]	NS	< 0.015	< 0.017	< 0.015	< 0.016	< 0.017	< 0.017	< 0.017
Benzo(a)pyrene	ug/l	0.1 [0.2]	0.2	< 0.0049	< 0.0054	< 0.0049	< 0.0052	< 0.0055	< 0.0056	< 0.0055
Benzo(b)fluoranthene	ug/l	0.2 [10]	NS	< 0.016	< 0.018	< 0.016	< 0.017	< 0.018	< 0.019	< 0.018
Benzo(g,h,i)perylene	ug/l	NS	NS	< 0.01	< 0.011	< 0.01	< 0.011	< 0.012	< 0.012	< 0.012
Benzo(k)fluoranthene	ug/l	0.5	NS	< 0.013	< 0.014	< 0.013	< 0.013	< 0.014	< 0.014	< 0.014
Chrysene	ug/l	5	NS	< 0.023	< 0.025	< 0.023	< 0.024	< 0.026	< 0.027	< 0.026
Dibenzo(a,h)anthracene	ug/l	0.3 [0.5]	NS	< 0.023	< 0.025	< 0.023	< 0.024	< 0.025	< 0.026	< 0.025
Fluoranthene	ug/l	300	NS	< 0.0096	< 0.011	< 0.0096	< 0.01	< 0.011	< 0.011	< 0.011
Fluorene	ug/l	300	NS	< 0.015	< 0.016	< 0.015	< 0.016	< 0.017	< 0.017	0.399
Hexachlorobenzene	ug/l	0.02 [10]	1	< 0.008	< 0.0088	< 0.008	< 0.0084	< 0.009	< 0.0092	< 0.009
Indeno(1,2,3-cd)pyrene	ug/l	0.2 [10]	NS	< 0.011	< 0.012	< 0.011	< 0.011	< 0.012	< 0.012	< 0.012
Naphthalene	ug/l	300	NS	< 0.016	< 0.018	< 0.016	2.55	< 0.018	< 0.019	0.162
Pentachlorophenol	ug/l	0.3 [1]	1	< 0.1 J	< 0.11 J	< 0.1 J	< 0.11 J	< 0.11 J	< 0.11 J	< 0.11 J
Phenanthrene	ug/l	NS	NS	< 0.016	< 0.017	< 0.016	< 0.017	< 0.018	0.16	1.49
Pyrene	ug/l	200	NS	< 0.0081	< 0.0089	< 0.0081	< 0.0085	< 0.0092	< 0.0093	< 0.0091
PCBs										
PCB 1016	ug/l	0.5	0.5	< 0.15	< 0.15	< 0.13	< 0.15	< 0.15	< 0.13	< 0.18
PCB 1221	ug/l	0.5	0.5	< 0.32	< 0.32	< 0.29	< 0.31	< 0.32	< 0.27	< 0.39
PCB 1232	ug/l	0.5	0.5	< 0.45	< 0.46	< 0.41	< 0.44	< 0.45	< 0.39	< 0.55
PCB 1242	ug/l	0.5	0.5	< 0.1	< 0.1	< 0.091	< 0.099	< 0.1	< 0.086	< 0.12
PCB 1248	ug/l	0.5	0.5	< 0.17	< 0.17	< 0.15	< 0.17	< 0.17	< 0.15	< 0.21
PCB 1254	ug/l	0.5	0.5	< 0.16	< 0.17	< 0.15	< 0.16	< 0.16	< 0.14	< 0.2
PCB 1260	ug/l	0.5	0.5	< 0.24	< 0.25	< 0.22	< 0.24	< 0.24	< 0.21	< 0.3
Total PCBs	ug/l	0.5	0.5	0	0	0	0	0	0	0
Metals - Total										
Aluminum	ug/l	200	NS	< 200	< 16	< 200	< 16	< 16	**314**	58.4 J
Antimony	ug/l	6	6	< 1.4	< 1.4	< 1.4	2.2 J	< 1.4	< 1.4	< 1.4
Arsenic	ug/l	3 [8]	10	< 0.97	< 0.97	< 0.97	< 0.97	< 0.97	**10.4**	**7.4**
Barium	ug/l	6000	2000	9.7 B	15.8 B	15.7 B	513	40.5 B	13 B	12.4 B
Beryllium	ug/l	1	4	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
Cadmium	ug/l	4	5	< 0.24	< 0.24	< 0.24	< 3	< 0.24	< 0.24	< 0.24
Calcium	ug/l	NS	NS	5280	5380	5380	101000	45600	77100	67900
Chromium	ug/l	70	100	< 0.91	< 0.91	< 0.91	2.9 J	< 0.91	3.2 B	2.9 J
Cobalt	ug/l	NS	NS	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59
Copper	ug/l	1,300	1300	< 10	4.7 J	5.1 J	4 J	< 10	< 10	< 10
Iron	ug/l	300	NS	**310**	**609**	**443**	**133000**	< 24	27.6 J	36.4 B
Lead	ug/l	5	15	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
Magnesium	ug/l	NS	NS	1480 J	1440 J	1430 J	11400 J	12400	1470 B	3850 B
Manganese	ug/l	50	NS	14.1 B	14 B	13.3 B	**2270**	**64.4**	< 15	0.4 J
Mercury	ug/l	2	2	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.2	< 0.2
Nickel	ug/l	100	NS	< 0.94	< 0.94	< 0.94	< 0.94	< 10	3.4 J	5.5 B
Potassium	ug/l	NS	NS	506 J	463 J	459 J	8310 B	2440 B	16400	101000
Selenium	ug/l	40	50	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 10	8.4 J
Silicon	ug/l	NS	NS	NA	NA	NA	NA	9510 J	10300	13400
Silver	ug/l	40	NS	< 0.85	< 0.85	< 0.85	< 10	< 0.85	< 0.85	< 0.85
Sodium	ug/l	50,000	NS	2240 B	2230 B	2220 B	32500	7670 B	**83400**	**126000**
Thallium	ug/l	2 [10]	2	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 2	< 1.7
Vanadium	ug/l	NS	NS	< 0.77	< 0.77	< 0.77	4.8 B	1 J	11.7 B	21.6 B
Zinc	ug/l	2000	NS	4.7 J	19 J	17.5 J	143 J	< 2.8	5.9 J	< 2.8

Landfill Area				Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area
Location ID				PM AIR SHAFT	PM AIR SHAFT	PM AIR SHAFT	PM AIR SHAFT	RW-3	RW-3DD	RW-3DS
Sample ID		GWQS[1]	EPA	PM AIRSHAFT-50(071112)	PM AIRSHAFT-180(071112)	PM AIRSHAFT-180(071112) DUP	PM AIRSHAFT-230(071112)	RW-3 (77-87)(042612)	RW-3DD (175-180)(043012)	RW-3DS (155-160)(043012)
Sample Date			MCLs	7/11/2012	7/11/2012	7/11/2012	7/11/2012	4/27/2012	4/30/2012	4/30/2012
Validation Status	Units			Final	Final	Final	Final	Final	Final	Final
Metals - Dissolved										
Aluminum	ug/l	200	NS	< 16	< 16	< 16	< 16	< 16	< 16	< 16
Antimony	ug/l	6	6	< 1.4	< 1.4	< 1.4	< 6	< 1.4	< 1.4	< 1.4
Arsenic	ug/l	3 [8]	10	< 0.97	< 0.97	< 0.97	< 0.97	< 0.97	**5.4**	**3.3**
Barium	ug/l	6000	2000	9.3 B	14.7 B	15.1 B	388	39.7 B	9.5 B	5.5 B
Beryllium	ug/l	1	4	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
Cadmium	ug/l	4	5	< 0.24	< 3	< 3	< 3	< 0.24	< 0.24	< 0.24
Calcium	ug/l	NS	NS	5160	5150	5320	98300	45100	54600	23900
Chromium	ug/l	70	100	< 0.91	< 0.91	< 0.91	< 0.91	< 0.91	2.5 J	8.9 B
Cobalt	ug/l	NS	NS	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59
Copper	ug/l	1,300	1300	< 10	< 10	< 10	1.9 B	< 10	< 1.3	< 1.3
Iron	ug/l	300	NS	103	136	128	**108000**	< 24	< 24	< 24
Lead	ug/l	5	15	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
Magnesium	ug/l	NS	NS	1430 B	1370 B	1420 B	11200	12400	428 B	1810 B
Manganese	ug/l	50	NS	8.5 B	4.7 B	4.7 B	**2200**	**62.2**	< 0.12	< 0.12
Mercury	ug/l	2	2	< 0.075	< 0.075	< 0.075	< 0.075	NA	NA	NA
Nickel	ug/l	100	NS	1.1 B	< 0.94	1 B	< 0.94	< 10	2.2 J	4.5 B
Potassium	ug/l	NS	NS	480 J	430 J	441 J	8120 B	2370 B	14800	93000
Selenium	ug/l	40	50	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 10	7.6 J
Silver	ug/l	40	NS	< 0.85	< 0.85	< 0.85	< 10	< 0.85	< 0.85	< 0.85
Sodium	ug/l	50,000	NS	2220 B	2150 B	2250 B	31800	7540 B	**75000**	**114000**
Thallium	ug/l	2 [10]	2	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
Vanadium	ug/l	NS	NS	< 0.77	< 0.77	< 0.77	2.1 B	0.9 J	10.4 B	20 B
Zinc	ug/l	2000	NS	7.4 J	18.7 J	17.8 J	135	< 20	< 2.8	< 2.8
Other										
Alkalinity, Bicarbonate	ug/l	NS	NS	NA	NA	NA	NA	172000	< 5000	< 5000
Alkalinity, Carbonate	ug/l	NS	NS	NA	NA	NA	NA	< 5000	27900	45400
Alkalinity, total (as CaCO3)	ug/l	NS	NS	18100	18200	20000	238000	174000	109000	137000
Carbon dioxide	ug/l	NS	NS	NA	NA	NA	NA	1240	< 1.8	< 1.8
Chloride	ug/l	250000	NS	< 2000	< 2000	< 2000	3200	7300	14300	28100
Fluoride	ug/l	2000	4000	NA	NA	NA	NA	< 200	630	< 1000
Methane	ug/l	NS	NS	NA	NA	NA	NA	5	29.6	31.6
Nitrate	ug/l	10000	10000	NA	NA	NA	NA	< 110	< 110	< 110
Nitrogen, Nitrate + Nitrite	ug/l	NS	NS	NA	NA	NA	NA	< 100	< 100	< 100
Nitrogen, Nitrite	ug/l	1000	1000	NA	NA	NA	NA	< 10 J	< 10	< 10
Phosphorus, Total	ug/l	NS	NS	NA	NA	NA	NA	< 50	< 50	< 50
Radon (pCi/l)	ug/l	NS	300	NA	NA	NA	NA	200	69	< 35
Radon (pCi/l) Replicate	ug/l	NS	300	NA	NA	NA	NA	109	75	< 36
Silica, Dissolved	ug/l	NS	NS	NA	NA	NA	NA	18800	18200	20300
Sulfate	ug/l	250000	NS	< 10000	< 10000	< 10000	< 10000	11100	111000	**257000**
Total organic carbon	ug/l	NS	NS	NA	NA	NA	NA	< 1000	7500	9900

See Footnotes on last page

Landfill Area				Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area
Location ID				RW-4	RW-4	RW-4A	RW-4A	RW-5	RW-5A	RW-6	RW-6A
Sample ID		GWQS[1]	EPA	RW-4 (333-343)(042512)	RW-4 (393-403)(042612)	RW-4A (113-123)(042512)	RW-4A (62-72)(042512)	RW-5 (042612)	RW-5A (042512)	RW-6 (042712)	RW-6A (042712)
Sample Date			MCLs	4/25/2012	4/26/2012	4/25/2012	4/25/2012	4/26/2012	4/25/2012	4/27/2012	4/27/2012
Validation Status	Units			Final	Final	Final	Final	Final	Final	Final	Final
VOC											
1,1,1-Trichloroethane	ug/l	30	200	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
1,1,2,2-Tetrachloroethane	ug/l	1	NS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1,2-Trichloroethane	ug/l	3	5	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
1,1-Dichloroethane	ug/l	50	NS	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	0.38 J	0.66 J
1,1-Dichloroethene	ug/l	1	7	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
1,2,4-Trichlorobenzene	ug/l	9	70	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
1,2-Dibromo-3-Chloropropane (DBCP)	ug/l	0.02 [1]	0.2	< 1.3*	< 1.3*	< 1.3*	< 1.3*	< 1.3*	< 1.3*	< 1.3*	< 1.3*
1,2-Dibromoethane	ug/l	0.03 [0.5]	0.05	< 0.21*	< 0.21*	< 0.21*	< 0.21*	< 0.21*	< 0.21*	< 0.21*	< 0.21*
1,2-Dichlorobenzene	ug/l	600	600	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
1,2-Dichloroethane	ug/l	2	5	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
1,2-Dichloropropane	ug/l	1	5	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
1,3-Dichlorobenzene	ug/l	600	NS	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29
1,4-Dichlorobenzene	ug/l	75	75	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
2-Butanone (MEK)	ug/l	300	NS	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9
2-Hexanone	ug/l	NS	NS	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
4-methyl-2-pentanone (MIBK)	ug/l	NS	NS	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Acetone	ug/l	6000	NS	8.2 J	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Benzene	ug/l	1	5	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	0.74 J	**2**
Bromodichloromethane	ug/l	1	80	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Bromoform	ug/l	4	80	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Bromomethane	ug/l	10	NS	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
Carbon disulfide	ug/l	700	NS	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
Carbon tetrachloride	ug/l	1	5	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Chlorobenzene	ug/l	50	100	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Chloroethane	ug/l	NS	NS	< 0.37	< 0.37	< 0.37	< 0.37	5.1 J	< 0.37	2.5 J	1.7 J
Chloroform	ug/l	70	80	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Chloromethane	ug/l	NS	NS	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
cis-1,2-Dichloroethene	ug/l	70	70	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
cis-1,3-Dichloropropene	ug/l	NS	NS	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Cyclohexane	ug/l	NS	NS	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	0.91 J
Dibromochloromethane	ug/l	1	80	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Dichlorodifluoromethane	ug/l	1,000	NS	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
Ethylbenzene	ug/l	700	700	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Freon 113	ug/l	NS	NS	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49
Isopropylbenzene	ug/l	700	NS	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	1.9 J
Methyl acetate	ug/l	7000	NS	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9
Methyl tert butyl ether	ug/l	70	NS	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
Methylcyclohexane	ug/l	NS	NS	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	0.42 J
Methylene chloride	ug/l	3	5	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Styrene	ug/l	100	100	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Tetrachloroethene	ug/l	1	5	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
Toluene	ug/l	600	1000	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Trans-1,2-dichloroethene	ug/l	100	100	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
trans-1,3-Dichloropropene	ug/l	NS	NS	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Trichloroethene	ug/l	1	5	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Trichlorofluoromethane	ug/l	2000	NS	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
Vinyl Chloride	ug/l	1	2	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27
Xylenes	ug/l	1,000	10000	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Total TIC, Volatile	ug/l	NS	NS	6.6 JN	0	5.5 JN	0	0	0	0	10.8 J

Landfill Area				Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area
Location ID				RW-4	RW-4	RW-4A	RW-4A	RW-5	RW-5A	RW-6	RW-6A
Sample ID		GWQS[1]	EPA	RW-4 (333-343)(042512)	RW-4 (393-403)(042612)	RW-4A (113-123)(042512)	RW-4A (62-72)(042512)	RW-5 (042612)	RW-5A (042512)	RW-6 (042712)	RW-6A (042712)
Sample Date			MCLs	4/25/2012	4/26/2012	4/25/2012	4/25/2012	4/26/2012	4/25/2012	4/27/2012	4/27/2012
Validation Status	Units			Final	Final	Final	Final	Final	Final	Final	Final
SVOC											
1,1'-Biphenyl	ug/l	400	NS	< 0.35	< 0.35	< 0.34	< 0.36	< 0.31	< 0.3	< 0.33	< 0.32
2,4,5-Trichlorophenol	ug/l	700	NS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.6	< 1.6	< 1.7	< 1.7
2,4,6-Trichlorophenol	ug/l	20	NS	< 1.5	< 1.5	< 1.5	< 1.5	< 1.3	< 1.3	< 1.4	< 1.4
2,4-Dichlorophenol	ug/l	20	NS	< 1.3	< 1.3	< 1.3	< 1.4	< 1.2	< 1.2	< 1.3	< 1.2
2,4-Dimethylphenol	ug/l	100	NS	< 1.8	< 1.8	< 1.7	< 1.8	< 1.6	< 1.5	< 1.7	< 1.6
2,4-Dinitrophenol	ug/l	40	NS	< 19	< 19	< 19	< 19	< 17	< 17	< 18	< 18
2,4-Dinitrotoluene	ug/l	NS	NS	< 0.49	< 0.49	< 0.48	< 0.5	< 0.43	< 0.43	< 0.47	< 0.45
2,6-Dinitrotoluene	ug/l	NS	NS	< 0.53	< 0.53	< 0.52	< 0.54	< 0.47	< 0.46	< 0.51	< 0.49
2-Chloronaphthalene	ug/l	600	NS	< 0.34	< 0.34	< 0.34	< 0.35	< 0.3	< 0.3	< 0.33	< 0.32
2-Chlorophenol	ug/l	40	NS	< 1.1	< 1.1	< 1.1	< 1.1	< 0.99	< 0.97	< 1.1	< 1
2-Methylnaphthalene	ug/l	NS	NS	< 0.44	< 0.44	< 0.43	< 0.45	< 0.39	< 0.38	< 0.42	< 0.41
2-Methylphenol	ug/l	NS	NS	< 1.2	< 1.2	< 1.2	< 1.2	< 1.1	< 1	< 1.1	< 1.1
2-Nitroaniline	ug/l	NS	NS	< 1.3	< 1.3	< 1.3	< 1.3	< 1.1	< 1.1	< 1.2	< 1.2
2-Nitrophenol	ug/l	NS	NS	< 1.7	< 1.7	< 1.7	< 1.8	< 1.5	< 1.5	< 1.6	< 1.6
3&4-Methylphenol	ug/l	NS	NS	< 1.1	< 1.1	< 1	< 1.1	< 0.94	< 0.93	< 1	< 0.98
3,3'-Dichlorobenzidine	ug/l	30	NS	< 0.42	< 0.41	< 0.41	< 0.42	< 0.37	< 0.36	< 0.4	< 0.38
3-Nitroaniline	ug/l	NS	NS	< 1.5	< 1.4	< 1.4	< 1.5	< 1.3	< 1.3	< 1.4	< 1.3
4,6-Dinitro-2-methylphenol	ug/l	NS	NS	< 1.1	< 1.1	< 1.1	< 1.2	< 1	< 0.99	< 1.1	< 1.1
4-Bromophenyl phenyl ether	ug/l	NS	NS	< 0.41	< 0.41	< 0.4	< 0.42	< 0.36	< 0.36	< 0.39	< 0.38
4-Chloro-3-Methylphenol	ug/l	NS	NS	< 2.1	< 2.1	< 2.1	< 2.1	< 1.9	< 1.8	< 2	< 1.9
4-Chloroaniline	ug/l	30	NS	< 0.61	< 0.61	< 0.6	< 0.62	< 0.54	< 0.53	< 0.58	< 0.56
4-Chlorophenyl phenyl ether	ug/l	NS	NS	< 0.36	< 0.36	< 0.35	< 0.37	< 0.32	< 0.31	< 0.34	< 0.33
4-Nitroaniline	ug/l	NS	NS	< 1.9	< 1.9	< 1.9	< 1.9	< 1.7	< 1.7	< 1.8	< 1.8
4-Nitrophenol	ug/l	NS	NS	< 6	< 6	< 5.9	< 6.1	< 5.3	< 5.2	< 5.7	< 5.5
Acetophenone	ug/l	700	NS	< 0.33	< 0.33	< 0.32	< 0.34	< 0.29	< 0.29	< 0.31	< 0.3
Atrazine	ug/l	3	3	< 0.56	< 0.56	< 0.55	< 0.57	< 0.5	< 0.49	< 0.54	< 0.52
Benzaldehyde	ug/l	NS	NS	< 3.8	< 3.7	< 3.7	< 3.8	< 3.3	< 3.3	< 3.6	< 3.5
Benzyl butyl phthalate	ug/l	100	NS	< 0.33	< 0.33	< 0.33	< 0.34	< 0.29	< 0.29	< 0.32	< 0.31
bis(2-Chloroethoxy)methane	ug/l	NS	NS	< 0.35	< 0.35	< 0.35	< 0.36	< 0.31	< 0.31	< 0.34	< 0.33
bis(2-Chloroethyl)ether	ug/l	7	NS	< 0.36	< 0.35	< 0.35	< 0.36	< 0.31	< 0.31	< 0.34	< 0.33
bis(2-Chloroisopropyl)ether	ug/l	300	NS	< 0.52	< 0.52	< 0.51	< 0.53	< 0.46	< 0.45	< 0.5	< 0.48
bis(2-Ethylhexyl)phthalate	ug/l	3	6	< 0.68	< 0.67	< 0.66	< 0.69	< 0.6	< 0.59	< 0.64	< 0.62
Caprolactam	ug/l	NS	NS	< 0.8	< 0.79	< 0.78	< 0.81	< 0.7	< 0.69	< 0.76	< 0.73
Carbazole	ug/l	NS	NS	< 0.42	< 0.41	< 0.41	< 0.42	< 0.37	< 0.36	< 0.4	< 0.38
Dibenzofuran	ug/l	NS	NS	< 0.31	< 0.3	< 0.3	< 0.31	< 0.27	< 0.27	< 0.29	< 0.28
Diethyl phthalate	ug/l	6000	NS	< 0.38	< 0.38	< 0.37	< 0.38	< 0.33	< 0.33	< 0.36	< 0.35
Dimethyl phthalate	ug/l	NS	NS	< 0.33	< 0.33	< 0.32	< 0.33	< 0.29	< 0.28	< 0.31	< 0.3
di-n-butyl phthalate	ug/l	700	NS	< 0.64	< 0.64	< 0.63	< 0.65	< 0.57	< 0.56	< 0.61	< 0.59
di-n-octylphthalate	ug/l	100	NS	< 0.36	< 0.35	< 0.35	< 0.36	< 0.31	< 0.31	< 0.34	< 0.33
Hexachlorobutadiene	ug/l	1	NS	< 0.59	< 0.59	< 0.58	< 0.6	< 0.52	< 0.51	< 0.56	< 0.54
Hexachlorocyclopentadiene	ug/l	40	50	< 8.2	< 8.2	< 8	< 8.4	< 7.3	< 7.1	< 7.8	< 7.6
Hexachloroethane	ug/l	7	NS	< 0.64	< 0.63	< 0.62	< 0.65	< 0.56	< 0.55	< 0.6	< 0.59
Isophrone	ug/l	40	NS	< 0.32	< 0.31	< 0.31	< 0.32	< 0.28	< 0.27	< 0.3	< 0.29
Nitrobenzene	ug/l	6	NS	< 0.48	< 0.48	< 0.47	< 0.49	< 0.43	< 0.42	< 0.46	< 0.45
N-Nitroso-di-n-Propylamine	ug/l	10	NS	< 0.35	< 0.35	< 0.34	< 0.36	< 0.31	< 0.3	< 0.33	< 0.32
N-Nitrosodiphenylamine	ug/l	10	NS	< 0.35	< 0.35	< 0.34	< 0.36	< 0.31	< 0.31	< 0.34	< 0.32
Phenol	ug/l	2000	NS	< 1.5	< 1.5	< 1.4	< 1.5	< 1.3	< 1.3	< 1.4	< 1.4
Total TIC, Semi-Volatile	ug/l	NS	NS	0	0	0	0	0	0	9.3 J	36.3 J

Landfill Area				Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area
Location ID				RW-4	RW-4	RW-4A	RW-4A	RW-5	RW-5A	RW-6	RW-6A
Sample ID		GWQS[1]	EPA	RW-4 (333-343)(042512)	RW-4 (393-403)(042612)	RW-4A (113-123)(042512)	RW-4A (62-72)(042512)	RW-5 (042612)	RW-5A (042512)	RW-6 (042712)	RW-6A (042712)
Sample Date			MCLs	4/25/2012	4/26/2012	4/25/2012	4/25/2012	4/26/2012	4/25/2012	4/27/2012	4/27/2012
Validation Status	Units			Final	Final	Final	Final	Final	Final	Final	Final
SVOC BY SIM											
Acenaphthene	ug/l	400	NS	< 0.017	< 0.016	< 0.016	< 0.016	< 0.014	< 0.015	< 0.015	< 0.015
Acenaphthylene	ug/l	NS	NS	< 0.02	< 0.019	< 0.019	< 0.019	< 0.016	< 0.018	< 0.018	< 0.017
Anthracene	ug/l	2000	NS	< 0.013	< 0.011	< 0.012	< 0.012	< 0.01	< 0.011	< 0.011	< 0.011
Benzo(a)anthracene	ug/l	0.1 [0.2]	NS	< 0.019	< 0.017	< 0.018	< 0.018	**0.142**	< 0.017	**0.233**	< 0.016
Benzo(a)pyrene	ug/l	0.1 [0.2]	0.2	< 0.0061	< 0.0056	< 0.0058	< 0.0057	< 0.005	< 0.0054	**1.25**	< 0.0052
Benzo(b)fluoranthene	ug/l	0.2 [10]	NS	< 0.02	< 0.019	< 0.019	< 0.019	**0.22**	< 0.018	**0.714**	< 0.017
Benzo(g,h,i)perylene	ug/l	NS	NS	< 0.013	< 0.012	< 0.012	< 0.012	1.95	< 0.011	3.25	< 0.011
Benzo(k)fluoranthene	ug/l	0.5	NS	< 0.016	< 0.014	< 0.015	< 0.015	0.283	< 0.014	**1.24**	< 0.013
Chrysene	ug/l	5	NS	< 0.029	< 0.027	< 0.027	< 0.027	< 0.024	< 0.026	0.15	< 0.025
Dibenzo(a,h)anthracene	ug/l	0.3 [0.5]	NS	< 0.028	< 0.026	< 0.026	< 0.026	**0.402**	< 0.025	**0.616**	< 0.024
Fluoranthene	ug/l	300	NS	< 0.012	< 0.011	< 0.011	< 0.011	< 0.0098	< 0.011	< 0.011	< 0.01
Fluorene	ug/l	300	NS	< 0.019	< 0.017	< 0.018	< 0.017	< 0.015	< 0.017	< 0.016	< 0.016
Hexachlorobenzene	ug/l	0.02 [10]	1	< 0.01	< 0.0092	< 0.0094	< 0.0093	< 0.0082	< 0.0089	< 0.0088	< 0.0085
Indeno(1,2,3-cd)pyrene	ug/l	0.2 [10]	NS	< 0.013	< 0.012	< 0.012	< 0.012	**0.526**	< 0.012	**0.818**	< 0.011
Naphthalene	ug/l	300	NS	0.193	< 0.019	< 0.019	< 0.019	< 0.017	< 0.018	< 0.018	1.75
Pentachlorophenol	ug/l	0.3 [1]	1	< 0.13	< 0.11 J	< 0.12	< 0.12	< 0.1 J	< 0.11	< 0.11 J	< 0.11 J
Phenanthrene	ug/l	NS	NS	< 0.02	< 0.018	< 0.018	< 0.018	0.122	< 0.017	0.141	< 0.017
Pyrene	ug/l	200	NS	< 0.01	< 0.0093	< 0.0095	< 0.0094	< 0.0083	< 0.009	< 0.0089	< 0.0086
PCBs											
PCB 1016	ug/l	0.5	0.5	< 0.13	< 0.15	< 0.15	< 0.17	< 0.13	< 0.13	< 0.14	< 0.13
PCB 1221	ug/l	0.5	0.5	< 0.27	< 0.31	< 0.31	< 0.36	< 0.28	< 0.28	< 0.29	< 0.27
PCB 1232	ug/l	0.5	0.5	< 0.39	< 0.44	< 0.44	< 0.51	< 0.4	< 0.39	< 0.42	< 0.39
PCB 1242	ug/l	0.5	0.5	< 0.086	< 0.099	< 0.099	< 0.11	< 0.09	< 0.088	< 0.093	< 0.086
PCB 1248	ug/l	0.5	0.5	< 0.15	< 0.17	< 0.17	< 0.19	< 0.15	< 0.15	< 0.16	< 0.15
PCB 1254	ug/l	0.5	0.5	< 0.14	< 0.16	< 0.16	< 0.19	< 0.15	< 0.14	< 0.15	< 0.14
PCB 1260	ug/l	0.5	0.5	< 0.21	< 0.24	< 0.24	< 0.28	< 0.22	< 0.21	< 0.23	< 0.21
Total PCBs	ug/l	0.5	0.5	0	0	0	0	0	0	0	0
Metals - Total											
Aluminum	ug/l	200	NS	**1050**	111 B	90.9 B	**240**	66.9 B	**810**	< 16	< 16
Antimony	ug/l	6	6	< 1.4	< 1.4	< 6	< 6	< 1.4	< 1.4	< 1.4	< 1.4
Arsenic	ug/l	3 [8]	10	< 0.97	< 3	< 0.97	< 0.97	< 3	**4.9 J**	< 3	< 0.97
Barium	ug/l	6000	2000	56.3 B	16.3 B	19.2 B	5.4 B	21.9 B	26.8 B	230	25.2 B
Beryllium	ug/l	1	4	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
Cadmium	ug/l	4	5	< 3	< 0.24	< 3	< 3	< 3	< 3	< 0.24	0.4 J
Calcium	ug/l	NS	NS	93500	17000	14500	10000	39900	30900	59500	63600
Chromium	ug/l	70	100	51.1	< 0.91	< 0.91	< 0.91	< 0.91	1.8 B	< 0.91	< 0.91
Cobalt	ug/l	NS	NS	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	8.7 B
Copper	ug/l	1,300	1300	4.2 B	< 10	< 1.3	< 1.3	7.9 J	4.5 B	< 10	6.3 J
Iron	ug/l	300	NS	< 24	79.4 B	< 100	**319 J**	**2860**	**3000**	**31400**	**10800**
Lead	ug/l	5	15	< 1.7	< 1.7	< 1.7	< 1.7	1.9 J	< 1.7	2.3 J	1.8 J
Magnesium	ug/l	NS	NS	< 16	5140	4480 B	3670 B	11800	6910	7810	15300
Manganese	ug/l	50	NS	< 15	< 15	7.4 B	3.7 J	**1550**	**352**	**4650**	**11200**
Mercury	ug/l	2	2	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075
Nickel	ug/l	100	NS	< 0.94	< 10	9.2 B	10.1	< 10	2 J	< 0.94	< 10
Potassium	ug/l	NS	NS	10400	2290 B	1780 B	1580 B	18500	29200 J	4470 B	2510 B
Selenium	ug/l	40	50	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	2.8 J	2.5 J
Silicon	ug/l	NS	NS	5110	10000 J	9620	11500	7510 J	7430	10600 J	12700 J
Silver	ug/l	40	NS	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	1 J	2.1 B
Sodium	ug/l	50,000	NS	21800	7750 B	7270 B	6280 B	17300	23500 J	8580 B	8020 B
Thallium	ug/l	2 [10]	2	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 3.5
Vanadium	ug/l	NS	NS	5.5 B	1.1 J	0.9 B	0.8 B	0.8 J	2.1 B	1.4 J	< 0.77
Zinc	ug/l	2000	NS	< 2.8	< 30	< 2.8	8.2 B	35.3 J	6.2 B	< 30	< 30

Landfill Area				Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area
Location ID				**RW-4**	**RW-4**	**RW-4A**	**RW-4A**	**RW-5**	**RW-5A**	**RW-6**	**RW-6A**
Sample ID		**GWQS[1]**	**EPA**	**RW-4 (333-343)(042512)**	**RW-4 (393-403)(042612)**	**RW-4A (113-123)(042512)**	**RW-4A (62-72)(042512)**	**RW-5 (042612)**	**RW-5A (042512)**	**RW-6 (042712)**	**RW-6A (042712)**
Sample Date			**MCLs**	**4/25/2012**	**4/26/2012**	**4/25/2012**	**4/25/2012**	**4/26/2012**	**4/25/2012**	**4/27/2012**	**4/27/2012**
Validation Status	**Units**			**Final**	**Final**	**Final**	**Final**	**Final**	**Final**	**Final**	**Final**
Metals - Dissolved											
Aluminum	ug/l	200	NS	**1010**	< 16	< 200	< 200	22.4 J	67 J	< 16	< 16
Antimony	ug/l	6	6	< 1.4	< 1.4	1.8 B	< 1.4	< 1.4	< 6	< 1.4	< 1.4
Arsenic	ug/l	3 [8]	10	< 0.97	< 0.97	< 0.97	< 0.97	< 3	**5.9 J**	< 0.97	< 0.97
Barium	ug/l	6000	2000	53 B	15.8 B	18.8 B	5 B	34 B	26 B	220	20.3 B
Beryllium	ug/l	1	4	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
Cadmium	ug/l	4	5	< 3	< 0.24	< 3	< 3	< 0.24	< 3	< 0.24	0.4 J
Calcium	ug/l	NS	NS	89300	18200	14500	9810	39800	34100	60800	60100
Chromium	ug/l	70	100	50.4	< 0.91	< 0.91	< 0.91	< 0.91	< 0.91	< 0.91	< 0.91
Cobalt	ug/l	NS	NS	< 0.59	< 0.59	< 0.59	< 0.59	0.6 J	< 0.59	< 0.59	8.3 B
Copper	ug/l	1,300	1300	3.5 B	< 10	< 1.3	< 1.3	7 J	< 1.3	< 10	< 10
Iron	ug/l	300	NS	< 24	< 24	< 24	51.4 B	**2410**	**2400**	**28200**	**3700**
Lead	ug/l	5	15	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	2.6 J	< 1.7
Magnesium	ug/l	NS	NS	< 16	5500	4410 B	3640 B	11700	7440	7990	14400
Manganese	ug/l	50	NS	< 0.12	< 0.12	6.5 B	< 15	**1490**	**372**	**4680**	**11200**
Mercury	ug/l	2	2	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	ug/l	100	NS	< 0.94	< 0.94	7.7 B	5.6 J	11.3 J	< 10	< 0.94	< 10
Potassium	ug/l	NS	NS	9670 B	2520 B	1790 B	1580 B	17400	33700 J	4580 B	2350 B
Selenium	ug/l	40	50	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	3.3 B	2.4 J	< 2.4
Silver	ug/l	40	NS	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	1.2 J	2.1 B
Sodium	ug/l	50,000	NS	20900	8520 B	7340 B	6360 B	17900	27300 J	8900 B	7570 B
Thallium	ug/l	2 [10]	2	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
Vanadium	ug/l	NS	NS	5.4 B	1.2 J	< 0.77	< 0.77	1.4 J	< 50	0.8 J	< 0.77
Zinc	ug/l	2000	NS	< 2.8	< 20	3.3 B	6.4 B	< 2.8	8.6 B	< 2.8	< 20
Other											
Alkalinity, Bicarbonate	ug/l	NS	NS	38200	74700	51800	33800	195000	190000	9400	303000
Alkalinity, Carbonate	ug/l	NS	NS	211000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000
Alkalinity, total (as CaCO3)	ug/l	NS	NS	279000	75700	51800	33800	196000	190000	9400	303000
Carbon dioxide	ug/l	NS	NS	< 1.8	< 199	527	1010	858	262000 D	27100	32000
Chloride	ug/l	250000	NS	10200	< 2000	< 2000	< 2000	< 2000	< 2000	2100	2300
Fluoride	ug/l	2000	4000	250	370	230	< 200	< 200	< 200	< 200	< 200
Methane	ug/l	NS	NS	< 0.96	< 0.4	< 0.19	< 0.022	80.3	11.6	18100	21000
Nitrate	ug/l	10000	10000	130	< 110	< 110	< 110	< 110	< 110	< 110	< 110
Nitrogen, Nitrate + Nitrite	ug/l	NS	NS	160	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Nitrogen, Nitrite	ug/l	1000	1000	34	< 10 J	< 10	< 10	< 10 J	< 10	< 10 J	< 10 J
Phosphorus, Total	ug/l	NS	NS	< 50	< 50	< 50	< 50	< 50	54	100	130
Radon (pCi/l)	ug/l	NS	300	78	< 40	197	757	77	< 44	< 35	291
Radon (pCi/l) Replicate	ug/l	NS	300	62	< 40	190	767	62	< 44	< 35	261
Silica, Dissolved	ug/l	NS	NS	10600	20900	19500	22800	16900	13100	17800	23000
Sulfate	ug/l	250000	NS	14700	19800	19300	15300	18300	23900	< 10000	< 10000
Total organic carbon	ug/l	NS	NS	< 1000	< 1000	< 1000	< 1000	2500	1700	2400	1600

See Footnotes on last page

Landfill Area				Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Off-Site or Other	Off-Site or Other
Location ID				**RW-7**	**RW-11D**	**RW-11D**	**RW-11S**	**RW-11S**	**SC-01**	**OB-07**	**OB-10**
Sample ID		**GWQS[1]**	**EPA**	**RW-7(042412)**	**RW-11D (262-267) (050112)**	**RW-11D(262-267)**	**RW-11S (236-241) (050112)**	**RW-11S (236-241) (050112) DUP**	**SC-1 (042712)**	**OB-7 (041912)**	**OB-10 (042012)**
Sample Date			**MCLs**	**4/24/2012**	**5/1/2012**	**5/2/2012**	**5/1/2012**	**5/1/2012**	**4/27/2012**	**4/19/2012**	**4/20/2012**
Validation Status	**Units**			**Final**	**Final**	**Final**	**Final**	**Final**	**Final**	**Final**	**Final**
VOC											
1,1,1-Trichloroethane	ug/l	30	200	< 0.24	< 0.24	NA	< 0.24	NA	< 0.24	< 0.24	< 0.24
1,1,2,2-Tetrachloroethane	ug/l	1	NS	< 0.2	< 0.2	NA	< 0.2	NA	< 0.2	< 0.2	< 0.2
1,1,2-Trichloroethane	ug/l	3	5	< 0.23	< 0.23	NA	< 0.23	NA	< 0.23	< 0.23	< 0.23
1,1-Dichloroethane	ug/l	50	NS	< 0.19	< 0.19	NA	< 0.19	NA	0.37 J	< 0.19	< 0.19
1,1-Dichloroethene	ug/l	1	7	< 0.28	< 0.28	NA	< 0.28	NA	< 0.28	< 0.28	< 0.28
1,2,4-Trichlorobenzene	ug/l	9	70	< 0.15	< 0.15	NA	< 0.15	NA	< 0.15	< 0.15	< 0.15
1,2-Dibromo-3-Chloropropane (DBCP)	ug/l	0.02 [1]	0.2	< 1.3*	< 1.3*	NA	< 1.3*	NA	< 1.3*	< 1.3*	< 1.3*
1,2-Dibromoethane	ug/l	0.03 [0.5]	0.05	< 0.21*	< 0.21*	NA	< 0.21*	NA	< 0.21*	< 0.21*	< 0.21*
1,2-Dichlorobenzene	ug/l	600	600	< 0.18	< 0.18	NA	< 0.18	NA	< 0.18	< 0.18	< 0.18
1,2-Dichloroethane	ug/l	2	5	< 0.18	< 0.18	NA	< 0.18	NA	< 0.18	< 0.18	< 0.18
1,2-Dichloropropane	ug/l	1	5	< 0.22	< 0.22	NA	< 0.22	NA	< 0.22	< 0.22	< 0.22
1,3-Dichlorobenzene	ug/l	600	NS	< 0.29	< 0.29	NA	< 0.29	NA	< 0.29	< 0.29	< 0.29
1,4-Dichlorobenzene	ug/l	75	75	< 0.26	< 0.26	NA	< 0.26	NA	< 0.26	< 0.26	< 0.26
2-Butanone (MEK)	ug/l	300	NS	< 2.9	< 2.9	NA	< 2.9	NA	< 2.9	< 2.9	< 2.9
2-Hexanone	ug/l	NS	NS	< 3	< 3	NA	< 3	NA	< 3	< 3	< 3
4-methyl-2-pentanone (MIBK)	ug/l	NS	NS	< 1.2	< 1.2	NA	< 1.2	NA	< 1.2	< 1.2	< 1.2
Acetone	ug/l	6000	NS	< 5	< 5	NA	< 5	NA	< 5	< 7.6	< 7.6
Benzene	ug/l	1	5	< 0.22	< 0.22	NA	< 0.22	NA	**1.2**	< 0.22	< 0.22
Bromodichloromethane	ug/l	1	80	< 0.23	< 0.23	NA	< 0.23	NA	< 0.23	< 0.23	< 0.23
Bromoform	ug/l	4	80	< 0.24	< 0.24	NA	< 0.24	NA	< 0.24	< 0.24	< 0.24
Bromomethane	ug/l	10	NS	< 0.31	< 0.31	NA	< 0.31	NA	< 0.31	< 0.31	< 0.31
Carbon disulfide	ug/l	700	NS	< 0.18	< 0.18	NA	< 0.18	NA	< 0.18	< 0.18	< 0.18
Carbon tetrachloride	ug/l	1	5	< 0.19	< 0.19	NA	< 0.19	NA	< 0.19	< 0.19	< 0.19
Chlorobenzene	ug/l	50	100	< 0.22	< 0.22	NA	< 0.22	NA	< 0.22	< 0.22	< 0.22
Chloroethane	ug/l	NS	NS	< 0.37	< 0.37	NA	< 0.37	NA	1.2 J	< 0.37	< 0.37
Chloroform	ug/l	70	80	< 0.21	< 0.21	NA	< 0.21	NA	< 0.21	< 0.21	< 0.21
Chloromethane	ug/l	NS	NS	< 0.22	< 0.22	NA	< 0.22	NA	< 0.22	< 0.22	< 0.22
cis-1,2-Dichloroethene	ug/l	70	70	< 0.22	< 0.22	NA	< 0.22	NA	< 0.22	< 0.22	< 0.22
cis-1,3-Dichloropropene	ug/l	NS	NS	< 0.22	< 0.22	NA	< 0.22	NA	< 0.22	< 0.22	< 0.22
Cyclohexane	ug/l	NS	NS	< 0.29	< 0.29	NA	< 0.29	NA	1.4 J	< 0.29	< 0.29
Dibromochloromethane	ug/l	1	80	< 0.2	< 0.2	NA	< 0.2	NA	< 0.2	< 0.2	< 0.2
Dichlorodifluoromethane	ug/l	1,000	NS	< 0.31	< 0.31	NA	< 0.31	NA	< 0.31	< 0.31	< 0.31
Ethylbenzene	ug/l	700	700	< 0.21	< 0.21	NA	< 0.21	NA	6.8	< 0.21	< 0.21
Freon 113	ug/l	NS	NS	< 0.49	< 0.49	NA	< 0.49	NA	< 0.49	< 0.49	< 0.49
Isopropylbenzene	ug/l	700	NS	< 0.19	< 0.19	NA	< 0.19	NA	1.7 J	< 0.19	< 0.19
Methyl acetate	ug/l	7000	NS	< 2.9	< 2.9	NA	< 2.9	NA	< 2.9	< 2.9	< 2.9
Methyl tert butyl ether	ug/l	70	NS	< 0.18	< 0.18	NA	< 0.18	NA	< 0.18	< 0.18	< 0.18
Methylcyclohexane	ug/l	NS	NS	< 0.18	< 0.18	NA	< 0.18	NA	1.9 J	< 0.18	< 0.18
Methylene chloride	ug/l	3	5	< 0.2	< 0.2	NA	< 0.2	NA	< 0.2	< 0.2	< 0.2
Styrene	ug/l	100	100	< 0.23	< 0.23	NA	< 0.23	NA	< 0.23	< 0.23	< 0.23
Tetrachloroethene	ug/l	1	5	< 0.32	< 0.32	NA	< 0.32	NA	< 0.32	< 0.32	< 0.32
Toluene	ug/l	600	1000	< 0.15	0.22 J	NA	< 0.15	NA	0.59 J	< 0.15	< 0.15
Trans-1,2-dichloroethene	ug/l	100	100	< 0.31	< 0.31	NA	< 0.31	NA	< 0.31	< 0.31	< 0.31
trans-1,3-Dichloropropene	ug/l	NS	NS	< 0.19	< 0.19	NA	< 0.19	NA	< 0.19	< 0.19	< 0.19
Trichloroethene	ug/l	1	5	< 0.21	< 0.21	NA	< 0.21	NA	< 0.21	< 0.21	< 0.21
Trichlorofluoromethane	ug/l	2000	NS	< 0.35	< 0.35	NA	< 0.35	NA	< 0.35	< 0.35	< 0.35
Vinyl Chloride	ug/l	1	2	< 0.27	< 0.27	NA	< 0.27	NA	< 0.27	< 0.27	< 0.27
Xylenes	ug/l	1,000	10000	< 0.17	< 0.17	NA	< 0.17	NA	81.8	< 0.17	< 0.17
Total TIC, Volatile	ug/l	NS	NS	0	0	NA	0	NA	13 J	0	0

Landfill Area				Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Off-Site or Other	Off-Site or Other
Location ID				RW-7	RW-11D	RW-11D	RW-11S	RW-11S	SC-01	OB-07	OB-10
Sample ID		GWQS[1]	EPA	RW-7(042412)	RW-11D (262-267) (050112)	RW-11D(262-267)	RW-11S (236-241) (050112)	RW-11S (236-241) (050112) DUP	SC-1 (042712)	OB-7 (041912)	OB-10 (042012)
Sample Date			MCLs	4/24/2012	5/1/2012	5/2/2012	5/1/2012	5/1/2012	4/27/2012	4/19/2012	4/20/2012
Validation Status	Units			Final	Final	Final	Final	Final	Final	Final	Final
SVOC											
1,1'-Biphenyl	ug/l	400	NS	< 0.34	NA	NA	< 0.3	NA	< 0.3	< 0.31	< 0.3
2,4,5-Trichlorophenol	ug/l	700	NS	< 1.7	NA	NA	< 1.6	NA	< 1.6	< 1.6	< 1.6
2,4,6-Trichlorophenol	ug/l	20	NS	< 1.4	NA	NA	< 1.3	NA	< 1.3	< 1.3	< 1.3
2,4-Dichlorophenol	ug/l	20	NS	< 1.3	NA	NA	< 1.2	NA	< 1.2	< 1.2	< 1.2
2,4-Dimethylphenol	ug/l	100	NS	< 1.7	NA	NA	< 1.5	NA	< 1.5	< 1.6	< 1.5
2,4-Dinitrophenol	ug/l	40	NS	< 18	NA	NA	< 17 J	NA	< 17	< 17	< 17
2,4-Dinitrotoluene	ug/l	NS	NS	< 0.48	NA	NA	< 0.43	NA	< 0.43	< 0.43	< 0.43
2,6-Dinitrotoluene	ug/l	NS	NS	< 0.52	NA	NA	< 0.46	NA	< 0.46	< 0.47	< 0.46
2-Chloronaphthalene	ug/l	600	NS	< 0.33	NA	NA	< 0.3	NA	< 0.3	< 0.3	< 0.3
2-Chlorophenol	ug/l	40	NS	< 1.1	NA	NA	< 0.97	NA	< 0.97	< 0.99	< 0.97
2-Methylnaphthalene	ug/l	NS	NS	< 0.43	NA	NA	< 0.38	NA	0.7 J	< 0.39	< 0.38
2-Methylphenol	ug/l	NS	NS	< 1.2	NA	NA	< 1	NA	< 1	< 1.1	< 1
2-Nitroaniline	ug/l	NS	NS	< 1.2	NA	NA	< 1.1	NA	< 1.1	< 1.1	< 1.1
2-Nitrophenol	ug/l	NS	NS	< 1.7	NA	NA	< 1.5	NA	< 1.5	< 1.5	< 1.5
3&4-Methylphenol	ug/l	NS	NS	< 1	NA	NA	< 0.93	NA	< 0.93	< 0.94	< 0.93
3,3'-Dichlorobenzidine	ug/l	30	NS	< 0.4	NA	NA	< 0.36	NA	< 0.36	< 0.37	< 0.36
3-Nitroaniline	ug/l	NS	NS	< 1.4	NA	NA	< 1.3	NA	< 1.3	< 1.3	< 1.3
4,6-Dinitro-2-methylphenol	ug/l	NS	NS	< 1.1	NA	NA	< 0.99	NA	< 0.99	< 1	< 0.99
4-Bromophenyl phenyl ether	ug/l	NS	NS	< 0.4	NA	NA	< 0.36	NA	< 0.36	< 0.36	< 0.36
4-Chloro-3-Methylphenol	ug/l	NS	NS	< 2	NA	NA	< 1.8	NA	< 1.8	< 1.8	< 1.8
4-Chloroaniline	ug/l	30	NS	< 0.59	NA	NA	< 0.53	NA	< 0.53	< 0.54	< 0.53
4-Chlorophenyl phenyl ether	ug/l	NS	NS	< 0.35	NA	NA	< 0.31	NA	< 0.31	< 0.32	< 0.31
4-Nitroaniline	ug/l	NS	NS	< 1.8	NA	NA	< 1.7	NA	< 1.7	< 1.7	< 1.7
4-Nitrophenol	ug/l	NS	NS	< 5.8	NA	NA	< 5.2	NA	< 5.2	< 5.3	< 5.2
Acetophenone	ug/l	700	NS	< 0.32	NA	NA	< 0.29	NA	< 0.29	< 0.29	< 0.29
Atrazine	ug/l	3	3	< 0.55	NA	NA	< 0.49	NA	< 0.49	< 0.5	< 0.49
Benzaldehyde	ug/l	NS	NS	< 3.6	NA	NA	< 3.3	NA	< 3.3	< 3.3	< 3.3
Benzyl butyl phthalate	ug/l	100	NS	< 0.32	NA	NA	< 0.29	NA	< 0.29	< 0.29	< 0.29
bis(2-Chloroethoxy)methane	ug/l	NS	NS	< 0.34	NA	NA	< 0.31	NA	< 0.31	< 0.31	< 0.31
bis(2-Chloroethyl)ether	ug/l	7	NS	< 0.34	NA	NA	< 0.31	NA	< 0.31	< 0.31	< 0.31
bis(2-Chloroisopropyl)ether	ug/l	300	NS	< 0.51	NA	NA	< 0.45	NA	< 0.45	< 0.46	< 0.45
bis(2-Ethylhexyl)phthalate	ug/l	3	6	< 0.65	NA	NA	< 0.59	NA	< 0.59	< 0.59	< 0.59
Caprolactam	ug/l	NS	NS	< 0.77	NA	NA	< 0.69	NA	< 0.69	< 0.7	< 0.69
Carbazole	ug/l	NS	NS	< 0.4	NA	NA	< 0.36	NA	< 0.36	< 0.37	< 0.36
Dibenzofuran	ug/l	NS	NS	< 0.3	NA	NA	< 0.27	NA	< 0.27	< 0.27	< 0.27
Diethyl phthalate	ug/l	6000	NS	< 0.37	NA	NA	< 0.33	NA	< 0.33	< 0.33	< 0.33
Dimethyl phthalate	ug/l	NS	NS	< 0.32	NA	NA	< 0.28	NA	< 0.28	< 0.29	< 0.28
di-n-butyl phthalate	ug/l	700	NS	< 0.62	NA	NA	< 2	NA	< 0.56	< 0.56	< 0.56
di-n-octylphthalate	ug/l	100	NS	< 0.34	NA	NA	< 0.31	NA	< 0.31	< 0.31	< 0.31
Hexachlorobutadiene	ug/l	1	NS	< 0.57	NA	NA	< 0.51	NA	< 0.51	< 0.52	< 0.51
Hexachlorocyclopentadiene	ug/l	40	50	< 7.9	NA	NA	< 7.1	NA	< 7.1	< 7.2	< 7.1
Hexachloroethane	ug/l	7	NS	< 0.61	NA	NA	< 0.55	NA	< 0.55	< 0.56	< 0.55
Isophrone	ug/l	40	NS	< 0.31	NA	NA	< 0.27	NA	< 0.27	< 0.28	< 0.27
Nitrobenzene	ug/l	6	NS	< 0.47	NA	NA	< 0.42	NA	< 0.42	< 0.43	< 0.42
N-Nitroso-di-n-Propylamine	ug/l	10	NS	< 0.34	NA	NA	< 0.3	NA	< 0.3	< 0.31	< 0.3
N-Nitrosodiphenylamine	ug/l	10	NS	< 0.34	NA	NA	< 0.31	NA	1.5 J	< 0.31	< 0.31
Phenol	ug/l	2000	NS	< 1.4	NA	NA	< 1.3	NA	< 1.3	< 1.3	< 1.3
Total TIC, Semi-Volatile	ug/l	NS	NS	0	NA	NA	0	NA	46.7 J	0	0

Landfill Area				Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Off-Site or Other	Off-Site or Other
Location ID				**RW-7**	**RW-11D**	**RW-11D**	**RW-11S**	**RW-11S**	**SC-01**	**OB-07**	**OB-10**
Sample ID		**GWQS[1]**	**EPA**	**RW-7(042412)**	**RW-11D (262-267) (050112)**	**RW-11D(262-267)**	**RW-11S (236-241) (050112)**	**RW-11S (236-241) (050112) DUP**	**SC-1 (042712)**	**OB-7 (041912)**	**OB-10 (042012)**
Sample Date			**MCLs**	**4/24/2012**	**5/1/2012**	**5/2/2012**	**5/1/2012**	**5/1/2012**	**4/27/2012**	**4/19/2012**	**4/20/2012**
Validation Status	**Units**			**Final**	**Final**	**Final**	**Final**	**Final**	**Final**	**Final**	**Final**
SVOC BY SIM											
Acenaphthene	ug/l	400	NS	< 0.015	NA	NA	< 0.014	NA	< 0.014	< 0.014	< 0.014
Acenaphthylene	ug/l	NS	NS	< 0.018	NA	NA	< 0.016	NA	< 0.016	< 0.016	< 0.016
Anthracene	ug/l	2000	NS	< 0.011	NA	NA	< 0.01	NA	< 0.01	< 0.01	< 0.01
Benzo(a)anthracene	ug/l	0.1 [0.2]	NS	< 0.017	NA	NA	< 0.015	NA	< 0.015	< 0.015	< 0.015
Benzo(a)pyrene	ug/l	0.1 [0.2]	0.2	< 0.0055	NA	NA	< 0.0049	NA	< 0.0049	< 0.005	< 0.0049
Benzo(b)fluoranthene	ug/l	0.2 [10]	NS	< 0.018	NA	NA	< 0.016	NA	< 0.016	< 0.017	< 0.016
Benzo(g,h,i)perylene	ug/l	NS	NS	< 0.012	NA	NA	< 0.01	NA	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	ug/l	0.5	NS	< 0.014	NA	NA	< 0.013	NA	< 0.013	< 0.013	< 0.013
Chrysene	ug/l	5	NS	< 0.026	NA	NA	< 0.023	NA	< 0.023	< 0.024	< 0.023
Dibenzo(a,h)anthracene	ug/l	0.3 [0.5]	NS	< 0.025	NA	NA	< 0.023	NA	< 0.023	< 0.023	< 0.023
Fluoranthene	ug/l	300	NS	< 0.011	NA	NA	< 0.0096	NA	< 0.0096	< 0.0097	< 0.0096
Fluorene	ug/l	300	NS	< 0.017	NA	NA	< 0.015	NA	< 0.015	< 0.015	< 0.015
Hexachlorobenzene	ug/l	0.02 [10]	1	< 0.0089	NA	NA	< 0.008	NA	< 0.008	< 0.0081	< 0.008
Indeno(1,2,3-cd)pyrene	ug/l	0.2 [10]	NS	< 0.012	NA	NA	< 0.011	NA	< 0.011	< 0.011	< 0.011
Naphthalene	ug/l	300	NS	< 0.018	NA	NA	< 0.016	NA	4.5	< 0.016	< 0.016
Pentachlorophenol	ug/l	0.3 [1]	1	< 0.11	NA	NA	< 0.1	NA	< 0.1 J	< 0.1 J	< 0.1 J
Phenanthrene	ug/l	NS	NS	< 0.018	NA	NA	< 0.016	NA	0.148	< 0.016	< 0.016
Pyrene	ug/l	200	NS	< 0.0091	NA	NA	< 0.0081	NA	< 0.0081	< 0.0082	< 0.0081
PCBs											
PCB 1016	ug/l	0.5	0.5	< 0.14	NA	NA	< 0.13	NA	< 0.13	< 0.13	< 0.13
PCB 1221	ug/l	0.5	0.5	< 0.29	NA	NA	< 0.27	NA	< 0.28	< 0.27	< 0.27
PCB 1232	ug/l	0.5	0.5	< 0.42	NA	NA	< 0.39	NA	< 0.4	< 0.39	< 0.39
PCB 1242	ug/l	0.5	0.5	< 0.093	NA	NA	< 0.087	NA	< 0.089	< 0.086	< 0.086
PCB 1248	ug/l	0.5	0.5	< 0.16	NA	NA	< 0.15	NA	< 0.15	< 0.15	< 0.15
PCB 1254	ug/l	0.5	0.5	< 0.15	NA	NA	< 0.14	NA	< 0.15	< 0.14	< 0.14
PCB 1260	ug/l	0.5	0.5	< 0.23	NA	NA	< 0.21	NA	< 0.22	< 0.21	< 0.21
Total PCBs	ug/l	0.5	0.5	0	NA	NA	0	NA	0	0	0
Metals - Total											
Aluminum	ug/l	200	NS	< 16	NA	NA	27.7 B	NA	88.1 B	28.3 J	< 16
Antimony	ug/l	6	6	< 1.4	NA	NA	< 6	NA	1.8 J	< 1.4	< 6
Arsenic	ug/l	3 [8]	10	1.1 B	NA	NA	< 0.97	NA	< 0.97	< 0.97	< 0.97
Barium	ug/l	6000	2000	1.7 B	NA	NA	10.2 B	NA	426	16.5 B	6.8 J
Beryllium	ug/l	1	4	< 0.44	NA	NA	< 0.44	NA	< 0.44	< 0.44	< 0.44
Cadmium	ug/l	4	5	< 0.24	NA	NA	< 0.24	NA	0.5 J	< 3	< 0.24
Calcium	ug/l	NS	NS	11300	NA	NA	9760	NA	32100	62800	14900
Chromium	ug/l	70	100	< 0.91	NA	NA	< 0.91	NA	4.9 B	< 0.91	< 0.91
Cobalt	ug/l	NS	NS	< 0.59	NA	NA	< 0.59	NA	0.9 J	< 50	< 0.59
Copper	ug/l	1,300	1300	< 1.3	NA	NA	19	NA	< 10	< 10	< 1.3
Iron	ug/l	300	NS	44.3 B	NA	NA	43.6 B	NA	**61700**	**3620**	**515**
Lead	ug/l	5	15	< 1.7	NA	NA	< 1.7	NA	**9.4**	< 1.7	< 1.7
Magnesium	ug/l	NS	NS	3970 B	NA	NA	1560 B	NA	3660 B	27900	4360 B
Manganese	ug/l	50	NS	< 0.12	NA	NA	37.2	NA	**575**	**2440**	**50.5**
Mercury	ug/l	2	2	< 0.2	NA	NA	< 0.075	NA	< 0.075	< 0.075	< 0.075
Nickel	ug/l	100	NS	< 0.94	NA	NA	20.2	NA	< 10	< 10	< 0.94
Potassium	ug/l	NS	NS	1300 B	NA	NA	857 B	NA	1840 B	2610 B	1380 B
Selenium	ug/l	40	50	< 2.4	NA	NA	< 2.4	NA	< 2.4	5.6 J	< 2.4
Silicon	ug/l	NS	NS	NA	NA	NA	NA	NA	6740	NA	NA
Silver	ug/l	40	NS	0.9 B	NA	NA	< 0.85	NA	< 0.85	4 B	< 0.85
Sodium	ug/l	50,000	NS	3910 B	NA	NA	3560 B	NA	2870 B	9250 B	3730 B
Thallium	ug/l	2 [10]	2	< 1.7	NA	NA	< 1.7	NA	< 1.7	< 1.7	< 1.7
Vanadium	ug/l	NS	NS	< 0.77	NA	NA	< 0.77	NA	2.8 B	< 0.77	< 0.77
Zinc	ug/l	2000	NS	< 2.8	NA	NA	14 B	NA	65.3 J	< 2.8	< 2.8

Landfill Area				Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Peters Mine Pit Area	Off-Site or Other	Off-Site or Other
Location ID				**RW-7**	**RW-11D**	**RW-11D**	**RW-11S**	**RW-11S**	**SC-01**	**OB-07**	**OB-10**
Sample ID		**GWQS[1]**	**EPA**	**RW-7(042412)**	**RW-11D (262-267) (050112)**	**RW-11D(262-267)**	**RW-11S (236-241) (050112)**	**RW-11S (236-241) (050112) DUP**	**SC-1 (042712)**	**OB-7 (041912)**	**OB-10 (042012)**
Sample Date			**MCLs**	**4/24/2012**	**5/1/2012**	**5/2/2012**	**5/1/2012**	**5/1/2012**	**4/27/2012**	**4/19/2012**	**4/20/2012**
Validation Status	**Units**			**Final**	**Final**	**Final**	**Final**	**Final**	**Final**	**Final**	**Final**
Metals - Dissolved											
Aluminum	ug/l	200	NS	< 16	NA	NA	< 16	NA	< 16	41 J	< 16
Antimony	ug/l	6	6	< 1.4	NA	NA	< 6	NA	< 1.4	< 6	< 1.4
Arsenic	ug/l	3 [8]	10	< 0.97	NA	NA	< 0.97	NA	< 0.97	< 0.97	< 0.97
Barium	ug/l	6000	2000	1.6 B	NA	NA	9.8 B	NA	423	12.5 B	6.2 J
Beryllium	ug/l	1	4	< 0.44	NA	NA	< 0.44	NA	< 0.44	< 0.44	< 0.44
Cadmium	ug/l	4	5	< 0.24	NA	NA	< 0.24	NA	< 0.24	< 3	< 0.24
Calcium	ug/l	NS	NS	10900	NA	NA	8730	NA	32600	62400	14600
Chromium	ug/l	70	100	< 0.91	NA	NA	< 0.91	NA	2.7 B	< 0.91	< 0.91
Cobalt	ug/l	NS	NS	< 0.59	NA	NA	< 0.59	NA	0.8 J	< 50	< 0.59
Copper	ug/l	1,300	1300	< 1.3	NA	NA	18.7	NA	< 1.3	< 1.3	< 1.3
Iron	ug/l	300	NS	< 24	NA	NA	< 24	NA	**61800**	99.6 J	< 24
Lead	ug/l	5	15	< 1.7	NA	NA	< 1.7	NA	< 1.7	< 1.7	< 1.7
Magnesium	ug/l	NS	NS	3820 B	NA	NA	1560 B	NA	3680 B	27800	4290 B
Manganese	ug/l	50	NS	< 0.12	NA	NA	34.3	NA	**581**	**2340**	< 15
Mercury	ug/l	2	2	NA	NA	NA	NA	NA	NA	< 0.075	< 0.075
Nickel	ug/l	100	NS	< 0.94	NA	NA	8.6 B	NA	< 10	< 10	< 0.94
Potassium	ug/l	NS	NS	1250 B	NA	NA	814 B	NA	1810 B	2610 B	1260 B
Selenium	ug/l	40	50	< 2.4	NA	NA	< 2.4	NA	< 2.4	7.6 J	< 2.4
Silver	ug/l	40	NS	1 B	NA	NA	< 0.85	NA	< 0.85	4.1 B	< 0.85
Sodium	ug/l	50,000	NS	3800 B	NA	NA	2780 B	NA	2830 B	9300 B	3770 B
Thallium	ug/l	2 [10]	2	< 1.7	NA	NA	< 1.7	NA	< 1.7	< 1.7	< 1.7
Vanadium	ug/l	NS	NS	< 0.77	NA	NA	< 0.77	NA	1.1 J	< 50	< 0.77
Zinc	ug/l	2000	NS	2.8 B	NA	NA	15.7 B	NA	< 20	< 2.8	< 2.8
Other											
Alkalinity, Bicarbonate	ug/l	NS	NS	41700	NA	NA	28500	30600	183000	NA	NA
Alkalinity, Carbonate	ug/l	NS	NS	< 5000	NA	NA	< 5000	< 5000	< 5000	NA	NA
Alkalinity, total (as CaCO3)	ug/l	NS	NS	43700	NA	NA	28500	30300	183000	307000	57700
Carbon dioxide	ug/l	NS	NS	1150	NA	< 1.8	1930 J	3850 J	73800	NA	NA
Chloride	ug/l	250000	NS	< 2000	NA	NA	< 2000	< 2000	< 2000	7500	3000
Fluoride	ug/l	2000	4000	< 200	NA	NA	< 200	< 200	< 200	NA	NA
Methane	ug/l	NS	NS	< 0.022	13.2	NA	8.7 J	< 0.022 J	42700	NA	NA
Nitrate	ug/l	10000	10000	< 110	NA	NA	< 110	< 110	170	NA	NA
Nitrogen, Nitrate + Nitrite	ug/l	NS	NS	< 100	NA	NA	< 100	< 100	170	NA	NA
Nitrogen, Nitrite	ug/l	1000	1000	< 10	NA	NA	< 10	< 10	< 10 J	NA	NA
Phosphorus, Total	ug/l	NS	NS	< 50	NA	NA	< 50	< 50	56	NA	NA
Radon (pCi/l)	ug/l	NS	300	< 33	NA	NA	< 31	< 31	< 37	NA	NA
Radon (pCi/l) Replicate	ug/l	NS	300	< 33	NA	NA	< 32	< 31	< 38	NA	NA
Silica, Dissolved	ug/l	NS	NS	12500	NA	NA	NA	NA	12000	NA	NA
Sulfate	ug/l	250000	NS	11200	NA	NA	< 10000	< 10000	< 10000	< 10000	< 10000
Total organic carbon	ug/l	NS	NS	< 1000	NA	NA	< 1000	< 1000	3300	NA	NA

See Footnotes on last page

Landfill Area				Off-Site or Other	Off-Site or Other	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank
Location ID				OB-26	OB-29	FB	FB	FB	FB	FB	FB	FB	FB	FB	FB	FB
Sample ID		GWQS[1]	EPA	OB-26 (042012)	OB-29(051112)	FB(041712)	FB(041812)	FB (041912)	FB (042012)	FB(042312)	FB(042412)	FB (042512)	FB(042612)	FB(042712)	FB (043012)	FB (050112)	FB (050212)
Sample Date			MCLs	4/20/2012	5/11/2012	4/17/2012	4/18/2012	4/19/2012	4/20/2012	4/23/2012	4/24/2012	4/25/2012	4/26/2012	4/27/2012	4/30/2012	5/1/2012	5/2/2012
Validation Status	Units			Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
VOC																	
1,1,1-Trichloroethane	ug/l	30	200	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
1,1,2,2-Tetrachloroethane	ug/l	1	NS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1,2-Trichloroethane	ug/l	3	5	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
1,1-Dichloroethane	ug/l	50	NS	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
1,1-Dichloroethene	ug/l	1	7	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
1,2,4-Trichlorobenzene	ug/l	9	70	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
1,2-Dibromo-3-Chloropropane (DBCP)	ug/l	0.02 [1]	0.2	< 1.3*	< 1.3*	< 1.3*	< 1.3*	< 1.3*	< 1.3*	< 1.3*	< 1.3*	< 1.3*	< 1.3*	< 1.3*	< 1.3*	< 1.3*	< 1.3*
1,2-Dibromoethane	ug/l	0.03 [0.5]	0.05	< 0.21*	< 0.21*	< 0.21*	< 0.21*	< 0.21*	< 0.21*	< 0.21*	< 0.21*	< 0.21*	< 0.21*	< 0.21*	< 0.21*	< 0.21*	< 0.21*
1,2-Dichlorobenzene	ug/l	600	600	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
1,2-Dichloroethane	ug/l	2	5	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
1,2-Dichloropropane	ug/l	1	5	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
1,3-Dichlorobenzene	ug/l	600	NS	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29
1,4-Dichlorobenzene	ug/l	75	75	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
2-Butanone (MEK)	ug/l	300	NS	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9
2-Hexanone	ug/l	NS	NS	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
4-methyl-2-pentanone (MIBK)	ug/l	NS	NS	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Acetone	ug/l	6000	NS	< 7.6	< 5	< 7.6	< 7.6	< 7.6	< 7.6	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Benzene	ug/l	1	5	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Bromodichloromethane	ug/l	1	80	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Bromoform	ug/l	4	80	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Bromomethane	ug/l	10	NS	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
Carbon disulfide	ug/l	700	NS	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
Carbon tetrachloride	ug/l	1	5	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Chlorobenzene	ug/l	50	100	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Chloroethane	ug/l	NS	NS	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
Chloroform	ug/l	70	80	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Chloromethane	ug/l	NS	NS	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
cis-1,2-Dichloroethene	ug/l	70	70	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
cis-1,3-Dichloropropene	ug/l	NS	NS	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Cyclohexane	ug/l	NS	NS	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29
Dibromochloromethane	ug/l	1	80	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Dichlorodifluoromethane	ug/l	1,000	NS	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
Ethylbenzene	ug/l	700	700	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Freon 113	ug/l	NS	NS	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49
Isopropylbenzene	ug/l	700	NS	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Methyl acetate	ug/l	7000	NS	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9
Methyl tert butyl ether	ug/l	70	NS	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
Methylcyclohexane	ug/l	NS	NS	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
Methylene chloride	ug/l	3	5	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Styrene	ug/l	100	100	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Tetrachloroethene	ug/l	1	5	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
Toluene	ug/l	600	1000	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Trans-1,2-dichloroethene	ug/l	100	100	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
trans-1,3-Dichloropropene	ug/l	NS	NS	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Trichloroethene	ug/l	1	5	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Trichlorofluoromethane	ug/l	2000	NS	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
Vinyl Chloride	ug/l	1	2	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27
Xylenes	ug/l	1,000	10000	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Total TIC, Volatile	ug/l	NS	NS	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Landfill Area				Off-Site or Other	Off-Site or Other	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank
Location ID				OB-26	OB-29	FB	FB	FB	FB	FB	FB	FB	FB	FB	FB	FB
Sample ID		GWQS[1]	EPA	OB-26 (042012)	OB-29(051112)	FB(041712)	FB(041812)	FB (041912)	FB (042012)	FB(042312)	FB(042412)	FB (042512)	FB(042612)	FB(042712)	FB (043012)	FB (050112)	FB (050212)
Sample Date			MCLs	4/20/2012	5/11/2012	4/17/2012	4/18/2012	4/19/2012	4/20/2012	4/23/2012	4/24/2012	4/25/2012	4/26/2012	4/27/2012	4/30/2012	5/1/2012	5/2/2012
Validation Status	Units			Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
SVOC																	
1,1'-Biphenyl	ug/l	400	NS	< 0.32	< 0.34	< 0.3	< 0.31	< 0.3	< 0.32	< 0.3	< 0.33	< 0.34	< 0.3	< 0.33	< 0.32	< 0.32	NA
2,4,5-Trichlorophenol	ug/l	700	NS	< 1.7	< 1.7	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.7	< 1.8	< 1.6	< 1.7	< 1.7	< 1.6	NA
2,4,6-Trichlorophenol	ug/l	20	NS	< 1.4	< 1.4	< 1.3	< 1.3	< 1.3	< 1.4	< 1.3	< 1.4	< 1.5	< 1.3	< 1.4	< 1.4	< 1.4	NA
2,4-Dichlorophenol	ug/l	20	NS	< 1.2	< 1.3	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.3	< 1.2	< 1.3	< 1.2	< 1.2	NA
2,4-Dimethylphenol	ug/l	100	NS	< 1.6	< 1.7	< 1.5	< 1.5	< 1.5	< 1.6	< 1.5	< 1.6	< 1.7	< 1.5	< 1.7	< 1.6	< 1.6	NA
2,4-Dinitrophenol	ug/l	40	NS	< 18	< 18	< 17	< 17	< 17	< 17	< 17	< 18	< 19	< 17	< 18	< 18	< 17 J	NA
2,4-Dinitrotoluene	ug/l	NS	NS	< 0.45	< 0.47	< 0.43	< 0.43	< 0.43	< 0.45	< 0.43	< 0.46	< 0.48	< 0.43	< 0.47	< 0.45	< 0.45	NA
2,6-Dinitrotoluene	ug/l	NS	NS	< 0.49	< 0.51	< 0.46	< 0.47	< 0.46	< 0.49	< 0.46	< 0.5	< 0.52	< 0.46	< 0.5	< 0.49	< 0.49	NA
2-Chloronaphthalene	ug/l	600	NS	< 0.32	< 0.33	< 0.3	< 0.3	< 0.3	< 0.31	< 0.3	< 0.32	< 0.34	< 0.3	< 0.32	< 0.32	< 0.31	NA
2-Chlorophenol	ug/l	40	NS	< 1	< 1.1	< 0.97	< 0.98	< 0.97	< 1	< 0.97	< 1	< 1.1	< 0.97	< 1.1	< 1	< 1	NA
2-Methylnaphthalene	ug/l	NS	NS	< 0.41	< 0.43	< 0.38	< 0.39	< 0.38	< 0.4	< 0.38	< 0.41	< 0.44	< 0.38	< 0.42	< 0.41	< 0.4	NA
2-Methylphenol	ug/l	NS	NS	< 1.1	< 1.2	< 1	< 1.1	< 1	< 1.1	< 1	< 1.1	< 1.2	< 1	< 1.1	< 1.1	< 1.1	NA
2-Nitroaniline	ug/l	NS	NS	< 1.2	< 1.2	< 1.1	< 1.1	< 1.1	< 1.2	< 1.1	< 1.2	< 1.3	< 1.1	< 1.2	< 1.2	< 1.2	NA
2-Nitrophenol	ug/l	NS	NS	< 1.6	< 1.7	< 1.5	< 1.5	< 1.5	< 1.6	< 1.5	< 1.6	< 1.7	< 1.5	< 1.6	< 1.6	< 1.6	NA
3&4-Methylphenol	ug/l	NS	NS	< 0.98	< 1	< 0.93	< 0.93	< 0.93	< 0.97	< 0.93	< 0.99	< 1.1	< 0.93	< 1	< 0.98	< 0.97	NA
3,3'-Dichlorobenzidine	ug/l	30	NS	< 0.38	< 0.4	< 0.36	< 0.36	< 0.36	< 0.38	< 0.36	< 0.39	< 0.41	< 0.36	< 0.39	< 0.38	< 0.38	NA
3-Nitroaniline	ug/l	NS	NS	< 1.3	< 1.4	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.4	< 1.4	< 1.3	< 1.4	< 1.3	< 1.3	NA
4,6-Dinitro-2-methylphenol	ug/l	NS	NS	< 1.1	< 1.1	< 0.99	< 1	< 0.99	< 1	< 0.99	< 1.1	< 1.1	< 0.99	< 1.1	< 1.1	< 1	NA
4-Bromophenyl phenyl ether	ug/l	NS	NS	< 0.38	< 0.4	< 0.36	< 0.36	< 0.36	< 0.38	< 0.36	< 0.38	< 0.41	< 0.36	< 0.39	< 0.38	< 0.38	NA
4-Chloro-3-Methylphenol	ug/l	NS	NS	< 1.9	< 2	< 1.8	< 1.8	< 1.8	< 1.9	< 1.8	< 2	< 2.1	< 1.8	< 2	< 1.9	< 1.9	NA
4-Chloroaniline	ug/l	30	NS	< 0.56	< 0.59	< 0.53	< 0.53	< 0.53	< 0.56	< 0.53	< 0.57	< 0.6	< 0.53	< 0.58	< 0.56	< 0.56	NA
4-Chlorophenyl phenyl ether	ug/l	NS	NS	< 0.33	< 0.35	< 0.31	< 0.32	< 0.31	< 0.33	< 0.31	< 0.34	< 0.35	< 0.31	< 0.34	< 0.33	< 0.33	NA
4-Nitroaniline	ug/l	NS	NS	< 1.8	< 1.8	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.8	< 1.9	< 1.7	< 1.8	< 1.8	< 1.7	NA
4-Nitrophenol	ug/l	NS	NS	< 5.5	< 5.8	< 5.2	< 5.3	< 5.2	< 5.5	< 5.2	< 5.6	< 5.9	< 5.2	< 5.7	< 5.5	< 5.5	NA
Acetophenone	ug/l	700	NS	< 0.3	< 0.32	< 0.29	< 0.29	< 0.29	< 0.3	< 0.29	< 0.31	< 0.32	< 0.29	< 0.31	< 0.3	< 0.3	NA
Atrazine	ug/l	3	3	< 0.52	< 0.54	< 0.49	< 0.49	< 0.49	< 0.51	< 0.49	< 0.52	< 0.55	< 0.49	< 0.53	< 0.52	< 0.51	NA
Benzaldehyde	ug/l	NS	NS	< 3.5	< 3.6	< 3.3	< 3.3	< 3.3	< 3.4	< 3.3	< 3.5	< 3.7	< 3.3	< 3.6	< 3.5	< 3.4	NA
Benzyl butyl phthalate	ug/l	100	NS	< 0.31	< 0.32	< 0.29	< 0.29	< 0.29	< 0.3	< 0.29	< 0.31	< 0.33	< 0.29	< 0.32	< 0.31	< 0.3	NA
bis(2-Chloroethoxy)methane	ug/l	NS	NS	< 0.33	< 0.34	< 0.31	< 0.31	< 0.31	< 0.32	< 0.31	< 0.33	< 0.35	< 0.31	< 0.34	< 0.33	< 0.32	NA
bis(2-Chloroethyl)ether	ug/l	7	NS	< 0.33	< 0.34	< 0.31	< 0.31	< 0.31	< 0.32	< 0.31	< 0.33	< 0.35 J	< 0.31	< 0.34	< 0.33	< 0.32	NA
bis(2-Chloroisopropyl)ether	ug/l	300	NS	< 0.48	< 0.5	< 0.45	< 0.46	< 0.45	< 0.48	< 0.45	< 0.49	< 0.52	< 0.45	< 0.5	< 0.48	< 0.48	NA
bis(2-Ethylhexyl)phthalate	ug/l	3	6	< 0.62	< 0.65	< 0.59	< 0.59	< 0.59	< 0.62	< 0.59	< 0.63	< 0.67	< 0.59	< 0.64	< 0.62	< 0.62	NA
Caprolactam	ug/l	NS	NS	< 0.73	< 0.77	< 0.69	< 0.7	< 0.69	< 0.73	< 0.69	< 0.74	< 0.78 J	< 0.69	< 0.75	< 0.73	< 0.73	NA
Carbazole	ug/l	NS	NS	< 0.38	< 0.4	< 0.36	< 0.36	< 0.36	< 0.38	< 0.36	< 0.39	< 0.41	< 0.36	< 0.39	< 0.38	< 0.38	NA
Dibenzofuran	ug/l	NS	NS	< 0.28	< 0.29	< 0.27	< 0.27	< 0.27	< 0.28	< 0.27	< 0.28	< 0.3	< 0.27	< 0.29	< 0.28	< 0.28	NA
Diethyl phthalate	ug/l	6000	NS	< 0.35	< 0.36	< 0.33	< 0.33	< 0.33	< 0.34	< 0.33	< 0.35	< 0.37	< 0.33	< 0.36	< 0.35	< 0.34	NA
Dimethyl phthalate	ug/l	NS	NS	< 0.3	< 0.31	< 0.28	< 0.29	< 0.28	< 0.3	< 0.28	< 0.3	< 0.32	< 0.28	< 0.31	< 0.3	< 0.3	NA
di-n-butyl phthalate	ug/l	700	NS	< 0.59	< 0.62	< 0.56	< 0.56	< 0.56	< 0.58	< 0.56	< 0.6	< 0.63	< 0.56	< 0.61	< 0.59	1.3 J	NA
di-n-octylphthalate	ug/l	100	NS	< 0.33	< 0.34	< 0.31	< 0.31	< 0.31	< 0.32	< 0.31	< 0.33	< 0.35	< 0.31	< 0.34	< 0.33	< 0.32	NA
Hexachlorobutadiene	ug/l	1	NS	< 0.54	< 0.57	< 0.51	< 0.52	< 0.51	< 0.54	< 0.51	< 0.55	< 0.58	< 0.51	< 0.56	< 0.54	< 0.54	NA
Hexachlorocyclopentadiene	ug/l	40	50	< 7.6	< 7.9	< 7.1	< 7.2	< 7.1	< 7.5	< 7.1	< 7.6	< 8.1	< 7.1	< 7.8	< 7.6	< 7.5	NA
Hexachloroethane	ug/l	7	NS	< 0.59	< 0.61	< 0.55	< 0.56	< 0.55	< 0.58	< 0.55	< 0.59	< 0.62	< 0.55	< 0.6	< 0.59	< 0.58	NA
Isophrone	ug/l	40	NS	< 0.29	< 0.3	< 0.27	< 0.28	< 0.27	< 0.29	< 0.27	< 0.29	< 0.31	< 0.27	< 0.3	< 0.29	< 0.29	NA
Nitrobenzene	ug/l	6	NS	< 0.45	< 0.47	< 0.42	< 0.42	< 0.42	< 0.44	< 0.42	< 0.45	< 0.48	< 0.42	< 0.46	< 0.45	< 0.44	NA
N-Nitroso-di-n-Propylamine	ug/l	10	NS	< 0.32	< 0.34	< 0.3	< 0.31	< 0.3	< 0.32	< 0.3	< 0.32	< 0.34	< 0.3	< 0.33	< 0.32	< 0.32	NA
N-Nitrosodiphenylamine	ug/l	10	NS	< 0.32	< 0.34	< 0.31	< 0.31	< 0.31	< 0.32	< 0.31	< 0.33	< 0.35	< 0.31	< 0.33	< 0.32	< 0.32	NA
Phenol	ug/l	2000	NS	< 1.4	< 1.4	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.4	< 1.5	< 1.3	< 1.4	< 1.4	< 1.3	NA
Total TIC, Semi-Volatile	ug/l	NS	NS	0 J	0	0	0	0	31 J	0	0	0	0	0	0	0	NA

Landfill Area				Off-Site or Other	Off-Site or Other	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank
Location ID				OB-26	OB-29	FB	FB	FB	FB	FB	FB	FB	FB	FB	FB	FB
Sample ID		GWQS[1]	EPA	OB-26 (042012)	OB-29(051112)	FB(041712)	FB(041812)	FB (041912)	FB (042012)	FB(042312)	FB(042412)	FB (042512)	FB(042612)	FB(042712)	FB (043012)	FB (050112)	FB (050212)
Sample Date			MCLs	4/20/2012	5/11/2012	4/17/2012	4/18/2012	4/19/2012	4/20/2012	4/23/2012	4/24/2012	4/25/2012	4/26/2012	4/27/2012	4/30/2012	5/1/2012	5/2/2012
Validation Status	Units			Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
SVOC BY SIM																	
Acenaphthene	ug/l	400	NS	< 0.015	< 0.015	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.015	< 0.016	< 0.014	< 0.015	< 0.015	< 0.014	NA
Acenaphthylene	ug/l	NS	NS	< 0.017	< 0.018	< 0.016	< 0.016	< 0.016	< 0.017	< 0.016	< 0.017	< 0.018	< 0.016	< 0.018	< 0.017	< 0.017	NA
Anthracene	ug/l	2000	NS	< 0.011	< 0.011	< 0.01	< 0.01	< 0.01	< 0.011	< 0.01	< 0.011	< 0.011	< 0.01	< 0.011	< 0.011	< 0.011	NA
Benzo(a)anthracene	ug/l	0.1 [0.2]	NS	< 0.016	< 0.017	< 0.015	< 0.015	< 0.015	< 0.016	< 0.015	< 0.016	< 0.017	< 0.015	< 0.017	< 0.016	< 0.016	NA
Benzo(a)pyrene	ug/l	0.1 [0.2]	0.2	< 0.0052	< 0.0054	< 0.0049	< 0.0049	< 0.0049	< 0.0052	< 0.0049	< 0.0053	< 0.0056	< 0.0049	< 0.0054	< 0.0052	< 0.0052	NA
Benzo(b)fluoranthene	ug/l	0.2 [10]	NS	< 0.017	< 0.018	< 0.016	< 0.016	< 0.016	< 0.017	< 0.016	< 0.018	< 0.019	< 0.016	< 0.018	< 0.017	< 0.017	NA
Benzo(g,h,i)perylene	ug/l	NS	NS	< 0.011	< 0.011	< 0.01	< 0.01	< 0.01	< 0.011	< 0.01	< 0.011	< 0.012	< 0.01	< 0.011	< 0.011	< 0.011	NA
Benzo(k)fluoranthene	ug/l	0.5	NS	< 0.013	< 0.014	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.014	< 0.013	< 0.014	< 0.013	< 0.013	NA
Chrysene	ug/l	5	NS	< 0.025	< 0.026	< 0.023	< 0.023	< 0.023	< 0.024	< 0.023	< 0.025	< 0.026	< 0.023	< 0.025	< 0.025	< 0.024	NA
Dibenzo(a,h)anthracene	ug/l	0.3 [0.5]	NS	< 0.024	< 0.025	< 0.023	< 0.023	< 0.023	< 0.024	< 0.023	< 0.024	< 0.026	< 0.023	< 0.025	< 0.024	< 0.024	NA
Fluoranthene	ug/l	300	NS	< 0.01	< 0.011	< 0.0096	< 0.0097	< 0.0096	< 0.01	< 0.0096	< 0.01	< 0.011	< 0.0096	< 0.01	< 0.01	< 0.01	NA
Fluorene	ug/l	300	NS	< 0.016	< 0.017	< 0.015	< 0.015	< 0.015	< 0.016	< 0.015	< 0.016	< 0.017	< 0.015	< 0.016	< 0.016	< 0.016	NA
Hexachlorobenzene	ug/l	0.02 [10]	1	< 0.0085	< 0.0089	< 0.008	< 0.0081	< 0.008	< 0.0084	< 0.008	< 0.0086	< 0.0091	< 0.008	< 0.0087	< 0.0085	< 0.0084	NA
Indeno(1,2,3-cd)pyrene	ug/l	0.2 [10]	NS	< 0.011	< 0.012	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.012	< 0.011	< 0.012	< 0.011	< 0.011	NA
Naphthalene	ug/l	300	NS	< 0.017	< 0.018	< 0.016	< 0.016	< 0.016	< 0.017	< 0.016	< 0.017	< 0.018	< 0.016	< 0.018	< 0.017	< 0.017	NA
Pentachlorophenol	ug/l	0.3 [1]	1	< 0.11 J	< 0.11	< 0.1 J	< 0.1 J	< 0.1 J	< 0.11 J	< 0.1	< 0.11	< 0.11	< 0.1 J	< 0.11 J	< 0.11 J	< 0.11	NA
Phenanthrene	ug/l	NS	NS	< 0.017	< 0.017	< 0.016	< 0.016	< 0.016	< 0.017	< 0.016	< 0.017	< 0.018	< 0.016	< 0.017	< 0.017	< 0.017	NA
Pyrene	ug/l	200	NS	< 0.0086	< 0.009	< 0.0081	< 0.0082	< 0.0081	< 0.0085	< 0.0081	< 0.0087	< 0.0092	< 0.0081	< 0.0089	< 0.0086	< 0.0085	NA
PCBs																	
PCB 1016	ug/l	0.5	0.5	< 0.14	< 0.14	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.14	< 0.14	< 0.13	< 0.14	< 0.13	< 0.13	NA
PCB 1221	ug/l	0.5	0.5	< 0.29	< 0.29	< 0.27	< 0.27	< 0.27	< 0.29	< 0.27	< 0.29	< 0.3	< 0.28	< 0.29	< 0.28	< 0.28	NA
PCB 1232	ug/l	0.5	0.5	< 0.42	< 0.41	< 0.39	< 0.39	< 0.39	< 0.41	< 0.39	< 0.42	< 0.43	< 0.4	< 0.41	< 0.4	< 0.39	NA
PCB 1242	ug/l	0.5	0.5	< 0.093	< 0.091	< 0.086	< 0.086	< 0.086	< 0.091	< 0.086	< 0.093	< 0.096	< 0.089	< 0.091	< 0.089	< 0.088	NA
PCB 1248	ug/l	0.5	0.5	< 0.16	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.16	< 0.16	< 0.15	< 0.15	< 0.15	< 0.15	NA
PCB 1254	ug/l	0.5	0.5	< 0.15	< 0.15	< 0.14	< 0.14	< 0.14	< 0.15	< 0.14	< 0.15	< 0.16	< 0.15	< 0.15	< 0.15	< 0.14	NA
PCB 1260	ug/l	0.5	0.5	< 0.23	< 0.22	< 0.21	< 0.21	< 0.21	< 0.22	< 0.21	< 0.23	< 0.23	< 0.22	< 0.22	< 0.22	< 0.21	NA
Total PCBs	ug/l	0.5	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	NA
Metals - Total																	
Aluminum	ug/l	200	NS	**5780**	**1610**	< 16	< 16	< 16	< 16	< 16	< 16	< 16	< 16	< 16	< 16	< 16	NA
Antimony	ug/l	6	6	< 6	< 1.4	< 1.4	< 1.4	1.6 B	1.6 B	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	1.6 B	NA
Arsenic	ug/l	3 [8]	10	< 0.97	< 0.97	< 0.97	< 0.97	< 0.97	< 0.97	< 0.97	< 0.97	< 0.97	< 0.97	< 0.97	< 0.97	< 0.97	NA
Barium	ug/l	6000	2000	38.1 B	16.7 B	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	NA
Beryllium	ug/l	1	4	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	NA
Cadmium	ug/l	4	5	< 3	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	NA
Calcium	ug/l	NS	NS	6750	17000	< 39	< 39	< 39	< 39	53.4 B	< 39	< 39	< 39	< 39	< 39	< 39	NA
Chromium	ug/l	70	100	6 J	3 B	< 0.91	< 0.91	< 0.91	< 0.91	< 0.91	< 0.91	< 0.91	< 0.91	< 0.91	< 0.91	< 0.91	NA
Cobalt	ug/l	NS	NS	2.5 J	0.8 B	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	NA
Copper	ug/l	1,300	1300	12.5 J	5.8 B	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	2 B	< 1.3	NA
Iron	ug/l	300	NS	**5880**	**2140**	< 24	< 24	< 24	< 24	< 24	< 24	36.6 B	< 24	< 24	< 24	< 24	NA
Lead	ug/l	5	15	5 J	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	NA
Magnesium	ug/l	NS	NS	3590 B	4590 B	< 16	< 16	< 16	< 16	< 16	< 16	< 16	< 16	< 16	< 16	< 16	NA
Manganese	ug/l	50	NS	**201**	**50.4**	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	0.5 B	< 0.12	0.2 B	< 0.12	< 0.12	NA
Mercury	ug/l	2	2	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	0.094 B	< 0.2	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	NA
Nickel	ug/l	100	NS	5.5 J	< 10	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	NA
Potassium	ug/l	NS	NS	1730 B	1460 J	< 62	< 62	< 62	< 62	< 62	< 62	< 62	< 62	< 62	< 62	< 62	NA
Selenium	ug/l	40	50	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	NA
Silicon	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	< 18	< 18	83.8 B	< 18	< 18	< 18	NA	NA
Silver	ug/l	40	NS	1.1 B	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	NA
Sodium	ug/l	50,000	NS	2440 B	3320 B	14.5 B	< 13	< 13	20.4 B	< 13	< 13	< 13	< 13	14.1 B	14.7 B	< 13	NA
Thallium	ug/l	2 [10]	2	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	NA
Vanadium	ug/l	NS	NS	10.3 B	2.9 B	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	NA
Zinc	ug/l	2000	NS	34.5	< 20	< 2.8	3.6 B	< 2.8	< 2.8	3 B	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	< 2.8	NA

Landfill Area				Off-Site or Other	Off-Site or Other	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank
Location ID				OB-26	OB-29	FB	FB	FB	FB	FB	FB	FB	FB	FB	FB	FB
Sample ID		GWQS[1]	EPA	OB-26 (042012)	OB-29(051112)	FB(041712)	FB(041812)	FB (041912)	FB (042012)	FB(042312)	FB(042412)	FB (042512)	FB(042612)	FB(042712)	FB (043012)	FB (050112)	FB (050212)
Sample Date			MCLs	4/20/2012	5/11/2012	4/17/2012	4/18/2012	4/19/2012	4/20/2012	4/23/2012	4/24/2012	4/25/2012	4/26/2012	4/27/2012	4/30/2012	5/1/2012	5/2/2012
Validation Status	Units			Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
Metals - Dissolved																	
Aluminum	ug/l	200	NS	< 16	< 16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	ug/l	6	6	< 6	< 1.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	ug/l	3 [8]	10	< 0.97	< 0.97	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	6000	2000	8.9 J	6.6 B	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	ug/l	1	4	< 0.44	< 0.44	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	4	5	< 3	< 0.24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	ug/l	NS	NS	6080	18200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	70	100	< 0.91	< 0.91	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	ug/l	NS	NS	< 0.59	< 0.59	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1,300	1300	< 1.3	< 1.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	ug/l	300	NS	< 24	< 24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	5	15	< 1.7	< 1.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	ug/l	NS	NS	2330 B	4450 B	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	50	NS	31.7	1.8 B	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	2	< 0.075	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	ug/l	100	NS	< 0.94	< 0.94	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	ug/l	NS	NS	633 B	1310 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	ug/l	40	50	< 2.4	< 2.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	40	NS	< 0.85	< 0.85	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	ug/l	50,000	NS	2270 B	3530 B	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	ug/l	2 [10]	2	< 1.7	< 1.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	NS	NS	< 0.77	< 0.77	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	2000	NS	9.8 B	< 2.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																	
Alkalinity, Bicarbonate	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	NA
Alkalinity, Carbonate	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	NA
Alkalinity, total (as CaCO3)	ug/l	NS	NS	17500	63300	< 5000	< 10000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	NA
Carbon dioxide	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	< 1.8	< 1.8	< 1.8	160	< 1.8	< 1.8	< 1.8	< 1.8
Chloride	ug/l	250000	NS	< 2000	3300	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	NA
Fluoride	ug/l	2000	4000	NA	NA	NA	NA	NA	NA	< 200	< 200	< 200	< 200	< 200	< 200	< 200	NA
Methane	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	0.26	0.2	0.23	0.25	0.44	0.37	0.32	NA
Nitrate	ug/l	10000	10000	NA	NA	NA	NA	NA	NA	< 110	< 110	< 110	< 110	< 110	< 110	< 110	NA
Nitrogen, Nitrate + Nitrite	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	< 100	< 100	< 100	< 100	< 100	< 100	< 100	NA
Nitrogen, Nitrite	ug/l	1000	1000	NA	NA	NA	NA	NA	NA	< 10	< 10	< 10	< 10 J	< 10 J	< 10	< 10	NA
Phosphorus, Total	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	< 50	< 50	< 50	< 50	< 50	< 50	< 50	NA
Radon (pCi/l)	ug/l	NS	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Radon (pCi/l) Replicate	ug/l	NS	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silica, Dissolved	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	NA	NA
Sulfate	ug/l	250000	NS	12500	< 10000	< 10000	< 10000	< 10000	< 10000	< 10000	< 10000	< 10000	< 10000	< 10000	< 10000	< 10000	NA
Total organic carbon	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	NA

See Footnotes on last page

Landfill Area				Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank
Location ID				FB	FB	FB	FB	FB	FB	FB	FB	TB	TB	TB	TB	TB
Sample ID		GWQS[1]	EPA	FB(050312)	FB(050712)	FB(050812)	FB (050912)	FB(051012)	FB(051112)	FB(051612)	FB (071112)	TB(041712)	TB(041812)	TB (041912)	TB(042312)	TRIP BLANK (4/24/2012)
Sample Date			MCLs	5/3/2012	5/7/2012	5/8/2012	5/9/2012	5/10/2012	5/11/2012	5/16/2012	7/11/2012	4/17/2012	4/18/2012	4/20/2012	4/23/2012	4/24/2012
Validation Status	Units			Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
VOC																
1,1,1-Trichloroethane	ug/l	30	200	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	NA	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
1,1,2,2-Tetrachloroethane	ug/l	1	NS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	NA	< 0.21	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1,2-Trichloroethane	ug/l	3	5	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	NA	< 0.29	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
1,1-Dichloroethane	ug/l	50	NS	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	NA	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
1,1-Dichloroethene	ug/l	1	7	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	NA	< 0.19	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
1,2,4-Trichlorobenzene	ug/l	9	70	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	NA	< 0.2	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
1,2-Dibromo-3-Chloropropane (DBCP)	ug/l	0.02 [1]	0.2	< 1.3*	< 1.3*	< 1.3*	< 1.3*	< 1.3*	< 1.3*	NA	< 0.54*	< 1.3*	< 1.3*	< 1.3*	< 1.3*	< 1.3*
1,2-Dibromoethane	ug/l	0.03 [0.5]	0.05	< 0.21*	< 0.21*	< 0.21*	< 0.21*	< 0.21*	< 0.21*	NA	< 0.2*	< 0.21*	< 0.21*	< 0.21*	< 0.21*	< 0.21*
1,2-Dichlorobenzene	ug/l	600	600	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	NA	< 0.22	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
1,2-Dichloroethane	ug/l	2	5	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	NA	< 0.26	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
1,2-Dichloropropane	ug/l	1	5	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	NA	< 0.48	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
1,3-Dichlorobenzene	ug/l	600	NS	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	NA	< 0.22	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29
1,4-Dichlorobenzene	ug/l	75	75	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	NA	< 0.3	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
2-Butanone (MEK)	ug/l	300	NS	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	NA	< 2.4	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9
2-Hexanone	ug/l	NS	NS	< 3	< 3	< 3	< 3	< 3	< 3	NA	< 1.1	< 3	< 3	< 3	< 3	< 3
4-methyl-2-pentanone (MIBK)	ug/l	NS	NS	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	NA	< 0.83	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Acetone	ug/l	6000	NS	< 5	< 5	< 5	< 5	< 5	< 5	NA	< 3.3	< 7.6	< 7.6	< 7.6	< 5	< 5
Benzene	ug/l	1	5	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	NA	< 0.24	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Bromodichloromethane	ug/l	1	80	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	NA	< 0.21	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Bromoform	ug/l	4	80	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	NA	< 0.21	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Bromomethane	ug/l	10	NS	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	NA	< 0.22	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
Carbon disulfide	ug/l	700	NS	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	NA	< 0.19	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
Carbon tetrachloride	ug/l	1	5	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	NA	< 0.22	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Chlorobenzene	ug/l	50	100	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	NA	< 0.23	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Chloroethane	ug/l	NS	NS	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	NA	< 0.26	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
Chloroform	ug/l	70	80	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	NA	< 0.2	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Chloromethane	ug/l	NS	NS	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	NA	< 0.21	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
cis-1,2-Dichloroethene	ug/l	70	70	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	NA	< 0.19	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
cis-1,3-Dichloropropene	ug/l	NS	NS	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	NA	< 0.21	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Cyclohexane	ug/l	NS	NS	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	NA	< 0.35	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29
Dibromochloromethane	ug/l	1	80	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	NA	< 0.14	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Dichlorodifluoromethane	ug/l	1,000	NS	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	NA	< 0.27	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
Ethylbenzene	ug/l	700	700	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	NA	< 0.23	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Freon 113	ug/l	NS	NS	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	NA	< 0.53	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49
Isopropylbenzene	ug/l	700	NS	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	NA	< 0.45	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Methyl acetate	ug/l	7000	NS	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	NA	< 1.2	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9
Methyl tert butyl ether	ug/l	70	NS	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	NA	< 0.16	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
Methylcyclohexane	ug/l	NS	NS	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	NA	< 0.26	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
Methylene chloride	ug/l	3	5	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	NA	< 0.7	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Styrene	ug/l	100	100	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	NA	< 0.21	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Tetrachloroethene	ug/l	1	5	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	NA	< 0.28	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
Toluene	ug/l	600	1000	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	NA	< 0.23	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Trans-1,2-dichloroethene	ug/l	100	100	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	NA	< 0.21	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
trans-1,3-Dichloropropene	ug/l	NS	NS	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	NA	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Trichloroethene	ug/l	1	5	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	NA	< 0.22	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Trichlorofluoromethane	ug/l	2000	NS	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	NA	< 0.27	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
Vinyl Chloride	ug/l	1	2	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	NA	< 0.21	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27
Xylenes	ug/l	1,000	10000	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	NA	< 0.24	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Total TIC, Volatile	ug/l	NS	NS	0	0	0	0	0	0	NA	0	0	0	0	0	0

Landfill Area				Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank
Location ID				FB	FB	FB	FB	FB	FB	FB	FB	TB	TB	TB	TB	TB
Sample ID		GWQS[1]	EPA	FB(050312)	FB(050712)	FB(050812)	FB (050912)	FB(051012)	FB(051112)	FB(051612)	FB (071112)	TB(041712)	TB(041812)	TB (041912)	TB(042312)	TRIP BLANK (4/24/2012)
Sample Date			MCLs	5/3/2012	5/7/2012	5/8/2012	5/9/2012	5/10/2012	5/11/2012	5/16/2012	7/11/2012	4/17/2012	4/18/2012	4/20/2012	4/23/2012	4/24/2012
Validation Status	Units			Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
SVOC																
1,1'-Biphenyl	ug/l	400	NS	< 0.33	< 0.32	< 0.31	< 0.32	< 0.3	< 0.3	NA	< 0.34	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/l	700	NS	< 1.7	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	NA	< 1.8	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	ug/l	20	NS	< 1.4	< 1.4	< 1.3	< 1.3	< 1.3	< 1.3	NA	< 1.4	NA	NA	NA	NA	NA
2,4-Dichlorophenol	ug/l	20	NS	< 1.3	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	NA	< 1.3	NA	NA	NA	NA	NA
2,4-Dimethylphenol	ug/l	100	NS	< 1.7	< 1.6	< 1.6	< 1.6	< 1.5	< 1.5	NA	< 1.7	NA	NA	NA	NA	NA
2,4-Dinitrophenol	ug/l	40	NS	< 18	< 17	< 17	< 17	< 17	< 17	NA	< 19	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	ug/l	NS	NS	< 0.47	< 0.45	< 0.44	< 0.44	< 0.43	< 0.43	NA	< 0.48	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	ug/l	NS	NS	< 0.51	< 0.49	< 0.48	< 0.48	< 0.46	< 0.46	NA	< 0.52	NA	NA	NA	NA	NA
2-Chloronaphthalene	ug/l	600	NS	< 0.33	< 0.31	< 0.31	< 0.31	< 0.3	< 0.3	NA	< 0.33	NA	NA	NA	NA	NA
2-Chlorophenol	ug/l	40	NS	< 1.1	< 1	< 1	< 1	< 0.97	< 0.97	NA	< 1.1	NA	NA	NA	NA	NA
2-Methylnaphthalene	ug/l	NS	NS	< 0.42	< 0.4	< 0.4	< 0.4	< 0.38	< 0.38	NA	< 0.43	NA	NA	NA	NA	NA
2-Methylphenol	ug/l	NS	NS	< 1.1	< 1.1	< 1.1	< 1.1	< 1	< 1	NA	< 1.2	NA	NA	NA	NA	NA
2-Nitroaniline	ug/l	NS	NS	< 1.2	< 1.2	< 1.1	< 1.2	< 1.1	< 1.1	NA	< 1.2	NA	NA	NA	NA	NA
2-Nitrophenol	ug/l	NS	NS	< 1.6	< 1.6	< 1.5	< 1.6	< 1.5	< 1.5	NA	< 1.7	NA	NA	NA	NA	NA
3&4-Methylphenol	ug/l	NS	NS	< 1	< 0.97	< 0.95	< 0.96	< 0.93	< 0.93	NA	< 1	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	ug/l	30	NS	< 0.4	< 0.38	< 0.37	< 0.38	< 0.36	< 0.36	NA	< 0.4	NA	NA	NA	NA	NA
3-Nitroaniline	ug/l	NS	NS	< 1.4	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	NA	< 1.4	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	ug/l	NS	NS	< 1.1	< 1	< 1	< 1	< 0.99	< 0.99	NA	< 1.1	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	ug/l	NS	NS	< 0.39	< 0.38	< 0.37	< 0.37	< 0.36	< 0.36	NA	< 0.4	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	ug/l	NS	NS	< 2	< 1.9	< 1.9	< 1.9	< 1.8	< 1.8	NA	< 2	NA	NA	NA	NA	NA
4-Chloroaniline	ug/l	30	NS	< 0.58	< 0.56	< 0.54	< 0.55	< 0.53	< 0.53	NA	< 0.59	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	ug/l	NS	NS	< 0.34	< 0.33	< 0.32	< 0.33	< 0.31	< 0.31	NA	< 0.35	NA	NA	NA	NA	NA
4-Nitroaniline	ug/l	NS	NS	< 1.8	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	NA	< 1.9	NA	NA	NA	NA	NA
4-Nitrophenol	ug/l	NS	NS	< 5.7	< 5.5	< 5.4	< 5.4	< 5.2	< 5.2	NA	< 5.8	NA	NA	NA	NA	NA
Acetophenone	ug/l	700	NS	< 0.31	< 0.3	3.8	< 0.3	< 0.29	< 0.29	NA	< 0.32	NA	NA	NA	NA	NA
Atrazine	ug/l	3	3	< 0.54	< 0.51	< 0.5	< 0.51	< 0.49	< 0.49	NA	< 0.55	NA	NA	NA	NA	NA
Benzaldehyde	ug/l	NS	NS	< 3.6	< 3.4	< 3.4	< 3.4	< 3.3	< 3.3	NA	< 3.7	NA	NA	NA	NA	NA
Benzyl butyl phthalate	ug/l	100	NS	< 0.32	< 0.3	< 0.3	< 0.3	< 0.29	< 0.29	NA	< 0.32	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/l	NS	NS	< 0.34	< 0.32	< 0.32	< 0.32	< 0.31	< 0.31	NA	< 0.34	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	ug/l	7	NS	< 0.34	< 0.32 J	< 0.32	< 0.32	< 0.31	< 0.31	NA	< 0.35	NA	NA	NA	NA	NA
bis(2-Chloroisopropyl)ether	ug/l	300	NS	< 0.5	< 0.48	< 0.47	< 0.47	< 0.45	< 0.45	NA	< 0.51	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	ug/l	3	6	< 0.64	< 0.62	< 0.6	< 0.61	< 0.59	< 0.59	NA	< 0.66	NA	NA	NA	NA	NA
Caprolactam	ug/l	NS	NS	< 0.76	< 0.73	< 0.71	< 0.72	< 0.69	< 0.69	NA	< 0.77	NA	NA	NA	NA	NA
Carbazole	ug/l	NS	NS	< 0.4	< 0.38	< 0.37	< 0.38	< 0.36	< 0.36	NA	< 0.4	NA	NA	NA	NA	NA
Dibenzofuran	ug/l	NS	NS	< 0.29	< 0.28	< 0.27	< 0.28	< 0.27	< 0.27	NA	< 0.3	NA	NA	NA	NA	NA
Diethyl phthalate	ug/l	6000	NS	< 0.36	< 0.34	< 0.34	< 0.34	< 0.33	< 0.33	NA	< 0.37	NA	NA	NA	NA	NA
Dimethyl phthalate	ug/l	NS	NS	< 0.31	< 0.3	< 0.29	< 0.29	< 0.28	< 0.28	NA	< 0.32	NA	NA	NA	NA	NA
di-n-butyl phthalate	ug/l	700	NS	< 0.61	< 0.58	< 0.57	< 0.58	< 0.56	< 0.56	NA	< 0.62	NA	NA	NA	NA	NA
di-n-octylphthalate	ug/l	100	NS	< 0.34	< 0.32	< 0.32	< 0.32	< 0.31	< 0.31	NA	< 0.35	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/l	1	NS	< 0.56	< 0.54	< 0.53	< 0.53	< 0.51	< 0.51	NA	< 0.58	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	ug/l	40	50	< 7.8	< 7.5	< 7.3	< 7.4	< 7.1	< 7.1	NA	< 8	NA	NA	NA	NA	NA
Hexachloroethane	ug/l	7	NS	< 0.6	< 0.58	< 0.57	< 0.57	< 0.55	< 0.55	NA	< 0.62	NA	NA	NA	NA	NA
Isophrone	ug/l	40	NS	< 0.3	< 0.29	< 0.28	< 0.28	< 0.27	< 0.27	NA	< 0.31	NA	NA	NA	NA	NA
Nitrobenzene	ug/l	6	NS	< 0.46	< 0.44	< 0.43	< 0.44	< 0.42	< 0.42	NA	< 0.47	NA	NA	NA	NA	NA
N-Nitroso-di-n-Propylamine	ug/l	10	NS	< 0.33	< 0.32	< 0.31	< 0.31	< 0.3	< 0.3	NA	< 0.34	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	ug/l	10	NS	< 0.34	< 0.32	< 0.31	< 0.32	< 0.31	< 0.31	NA	< 0.34	NA	NA	NA	NA	NA
Phenol	ug/l	2000	NS	< 1.4	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	NA	< 1.4	NA	NA	NA	NA	NA
Total TIC, Semi-Volatile	ug/l	NS	NS	0	0	4.6 J	0	0	0	NA	0	NA	NA	NA	NA	NA

Landfill Area				Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank
Location ID				FB	FB	FB	FB	FB	FB	FB	FB	TB	TB	TB	TB	TB
Sample ID		GWQS[1]	EPA	FB(050312)	FB(050712)	FB(050812)	FB (050912)	FB(051012)	FB(051112)	FB(051612)	FB (071112)	TB(041712)	TB(041812)	TB (041912)	TB(042312)	TRIP BLANK (4/24/2012)
Sample Date			MCLs	5/3/2012	5/7/2012	5/8/2012	5/9/2012	5/10/2012	5/11/2012	5/16/2012	7/11/2012	4/17/2012	4/18/2012	4/20/2012	4/23/2012	4/24/2012
Validation Status	Units			Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
SVOC BY SIM																
Acenaphthene	ug/l	400	NS	< 0.015	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	NA	< 0.015	NA	NA	NA	NA	NA
Acenaphthylene	ug/l	NS	NS	< 0.018	< 0.017	< 0.017	< 0.017	< 0.016	< 0.016	NA	< 0.018	NA	NA	NA	NA	NA
Anthracene	ug/l	2000	NS	< 0.011	< 0.011	< 0.01	< 0.01	< 0.01	< 0.01	NA	< 0.011	NA	NA	NA	NA	NA
Benzo(a)anthracene	ug/l	0.1 [0.2]	NS	< 0.017	< 0.016	< 0.016	< 0.016	< 0.015	< 0.015	NA	< 0.017	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/l	0.1 [0.2]	0.2	< 0.0054	< 0.0052	< 0.0051	< 0.0051	< 0.0049	< 0.0049	NA	< 0.0055	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/l	0.2 [10]	NS	< 0.018	< 0.017	< 0.017	< 0.017	< 0.016	< 0.016	NA	< 0.018	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/l	NS	NS	< 0.011	< 0.011	< 0.011	< 0.011	< 0.01	< 0.01	NA	< 0.012	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/l	0.5	NS	< 0.014	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	NA	< 0.014	NA	NA	NA	NA	NA
Chrysene	ug/l	5	NS	< 0.025	< 0.024	< 0.024	< 0.024	< 0.023	< 0.023	NA	< 0.026	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	ug/l	0.3 [0.5]	NS	< 0.025	< 0.024	< 0.023	< 0.023	< 0.023	< 0.023	NA	< 0.025	NA	NA	NA	NA	NA
Fluoranthene	ug/l	300	NS	< 0.011	< 0.01	< 0.0099	< 0.01	< 0.0096	< 0.0096	NA	< 0.011	NA	NA	NA	NA	NA
Fluorene	ug/l	300	NS	< 0.016	< 0.016	< 0.015	< 0.016	< 0.015	< 0.015	NA	< 0.017	NA	NA	NA	NA	NA
Hexachlorobenzene	ug/l	0.02 [10]	1	< 0.0088	< 0.0084	< 0.0082	< 0.0083	< 0.008	< 0.008	NA	< 0.009	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/l	0.2 [10]	NS	< 0.012	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	NA	< 0.012	NA	NA	NA	NA	NA
Naphthalene	ug/l	300	NS	< 0.018	< 0.017	< 0.017	< 0.017	< 0.016	< 0.016	NA	< 0.018	NA	NA	NA	NA	NA
Pentachlorophenol	ug/l	0.3 [1]	1	< 0.11 J	< 0.11	< 0.1 J	< 0.1 J	< 0.1	< 0.1	NA	< 0.11 J	NA	NA	NA	NA	NA
Phenanthrene	ug/l	NS	NS	< 0.017	< 0.017	< 0.016	< 0.016	< 0.016	< 0.016	NA	< 0.018	NA	NA	NA	NA	NA
Pyrene	ug/l	200	NS	< 0.0089	< 0.0085	< 0.0084	< 0.0084	< 0.0081	< 0.0081	NA	< 0.0091	NA	NA	NA	NA	NA
PCBs																
PCB 1016	ug/l	0.5	0.5	< 0.13	< 0.13	< 0.14	< 0.14	< 0.14	< 0.13	NA	< 0.13	NA	NA	NA	NA	NA
PCB 1221	ug/l	0.5	0.5	< 0.27	< 0.28	< 0.29	< 0.29	< 0.29	< 0.27	NA	< 0.27	NA	NA	NA	NA	NA
PCB 1232	ug/l	0.5	0.5	< 0.39	< 0.4	< 0.41	< 0.41	< 0.41	< 0.39	NA	< 0.39	NA	NA	NA	NA	NA
PCB 1242	ug/l	0.5	0.5	< 0.086	< 0.09	< 0.091	< 0.092	< 0.092	< 0.086	NA	< 0.086	NA	NA	NA	NA	NA
PCB 1248	ug/l	0.5	0.5	< 0.15	< 0.15	< 0.15	< 0.16	< 0.16	< 0.15	NA	< 0.15	NA	NA	NA	NA	NA
PCB 1254	ug/l	0.5	0.5	< 0.14	< 0.15	< 0.15	< 0.15	< 0.15	< 0.14	NA	< 0.14	NA	NA	NA	NA	NA
PCB 1260	ug/l	0.5	0.5	< 0.21	< 0.22	< 0.22	< 0.22	< 0.22	< 0.21	NA	< 0.21	NA	NA	NA	NA	NA
Total PCBs	ug/l	0.5	0.5	0	0	0	0	0	0	NA	0	NA	NA	NA	NA	NA
Metals - Total																
Aluminum	ug/l	200	NS	< 16	< 16	< 16	< 16	< 16	< 16	NA	< 16	NA	NA	NA	NA	NA
Antimony	ug/l	6	6	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	NA	< 1.4	NA	NA	NA	NA	NA
Arsenic	ug/l	3 [8]	10	< 0.97	< 0.97	< 0.97	< 0.97	< 0.97	< 0.97	NA	< 0.97	NA	NA	NA	NA	NA
Barium	ug/l	6000	2000	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	NA	< 0.66	NA	NA	NA	NA	NA
Beryllium	ug/l	1	4	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	NA	< 0.44	NA	NA	NA	NA	NA
Cadmium	ug/l	4	5	0.3 B	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	NA	< 0.24	NA	NA	NA	NA	NA
Calcium	ug/l	NS	NS	< 39	< 39	< 39	< 39	< 39	< 39	NA	< 39	NA	NA	NA	NA	NA
Chromium	ug/l	70	100	< 0.91	< 0.91	< 0.91	< 0.91	< 0.91	< 0.91	NA	< 0.91	NA	NA	NA	NA	NA
Cobalt	ug/l	NS	NS	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	NA	< 0.59	NA	NA	NA	NA	NA
Copper	ug/l	1,300	1300	2 B	1.3 B	< 1.3	< 1.3	< 1.3	< 1.3	NA	< 1.3	NA	NA	NA	NA	NA
Iron	ug/l	300	NS	< 24	< 24	< 24	< 24	< 24	< 24	NA	< 24	NA	NA	NA	NA	NA
Lead	ug/l	5	15	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	NA	< 1.7	NA	NA	NA	NA	NA
Magnesium	ug/l	NS	NS	< 16	< 16	< 16	< 16	< 16	< 16	NA	< 16 J	NA	NA	NA	NA	NA
Manganese	ug/l	50	NS	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	NA	0.4 B	NA	NA	NA	NA	NA
Mercury	ug/l	2	2	< 0.075	0.094 B	< 0.075	< 0.075	< 0.075	< 0.075	NA	< 0.075	NA	NA	NA	NA	NA
Nickel	ug/l	100	NS	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	NA	< 0.94	NA	NA	NA	NA	NA
Potassium	ug/l	NS	NS	< 62	< 62	< 62	< 62	< 62 J	< 62 J	NA	< 62	NA	NA	NA	NA	NA
Selenium	ug/l	40	50	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	NA	< 2.4	NA	NA	NA	NA	NA
Silicon	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	40	NS	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	NA	< 0.85	NA	NA	NA	NA	NA
Sodium	ug/l	50,000	NS	< 13	40.9 B	33.1 B	69.1 B	< 13	< 13	NA	25.3 B	NA	NA	NA	NA	NA
Thallium	ug/l	2 [10]	2	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	NA	< 1.7	NA	NA	NA	NA	NA
Vanadium	ug/l	NS	NS	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	NA	< 0.77	NA	NA	NA	NA	NA
Zinc	ug/l	2000	NS	< 2.8	< 2.8	< 2.8	< 2.8	4.1 B	< 2.8	NA	< 2.8	NA	NA	NA	NA	NA

Landfill Area				Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank
Location ID				FB	FB	FB	FB	FB	FB	FB	FB	TB	TB	TB	TB	TB
Sample ID		GWQS[1]	EPA	FB(050312)	FB(050712)	FB(050812)	FB (050912)	FB(051012)	FB(051112)	FB(051612)	FB (071112)	TB(041712)	TB(041812)	TB (041912)	TB(042312)	TRIP BLANK (4/24/2012)
Sample Date			MCLs	5/3/2012	5/7/2012	5/8/2012	5/9/2012	5/10/2012	5/11/2012	5/16/2012	7/11/2012	4/17/2012	4/18/2012	4/20/2012	4/23/2012	4/24/2012
Validation Status	Units			Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
Metals - Dissolved																
Aluminum	ug/l	200	NS	NA	NA	< 16	< 16	< 16	< 16	NA	< 16	NA	NA	NA	NA	NA
Antimony	ug/l	6	6	NA	NA	< 1.4	< 1.4	< 1.4	< 1.4	NA	< 1.4	NA	NA	NA	NA	NA
Arsenic	ug/l	3 [8]	10	NA	NA	< 0.97	< 0.97	< 0.97	< 0.97	NA	< 0.97	NA	NA	NA	NA	NA
Barium	ug/l	6000	2000	NA	NA	< 0.66	< 0.66	< 0.66	< 0.66	NA	< 0.66	NA	NA	NA	NA	NA
Beryllium	ug/l	1	4	NA	NA	< 0.44	< 0.44	< 0.44	< 0.44	NA	< 0.44	NA	NA	NA	NA	NA
Cadmium	ug/l	4	5	NA	NA	< 0.24	< 0.24	< 0.24	< 0.24	NA	0.3 B	NA	NA	NA	NA	NA
Calcium	ug/l	NS	NS	NA	NA	< 39	< 39	< 39	< 39	NA	< 39	NA	NA	NA	NA	NA
Chromium	ug/l	70	100	NA	NA	< 0.91	< 0.91	< 0.91	< 0.91	NA	< 0.91	NA	NA	NA	NA	NA
Cobalt	ug/l	NS	NS	NA	NA	< 0.59	< 0.59	< 0.59	< 0.59	NA	< 0.59	NA	NA	NA	NA	NA
Copper	ug/l	1,300	1300	NA	NA	< 1.3	< 1.3	< 1.3	< 1.3	NA	< 1.3	NA	NA	NA	NA	NA
Iron	ug/l	300	NS	NA	NA	< 24	< 24	< 24	< 24	NA	< 24	NA	NA	NA	NA	NA
Lead	ug/l	5	15	NA	NA	< 1.7	< 1.7	< 1.7	< 1.7	NA	< 1.7	NA	NA	NA	NA	NA
Magnesium	ug/l	NS	NS	NA	NA	16.1 B	< 16	< 16	< 16	NA	< 16	NA	NA	NA	NA	NA
Manganese	ug/l	50	NS	NA	NA	< 0.12	< 0.12	< 0.12	< 0.12	NA	0.7 B	NA	NA	NA	NA	NA
Mercury	ug/l	2	2	NA	NA	NA	NA	NA	NA	NA	< 0.075	NA	NA	NA	NA	NA
Nickel	ug/l	100	NS	NA	NA	< 0.94	< 0.94	< 0.94	< 0.94	NA	< 0.94	NA	NA	NA	NA	NA
Potassium	ug/l	NS	NS	NA	NA	< 62	< 62	< 62 J	< 62 J	NA	< 62	NA	NA	NA	NA	NA
Selenium	ug/l	40	50	NA	NA	< 2.4	< 2.4	< 2.4	< 2.4	NA	< 2.4	NA	NA	NA	NA	NA
Silver	ug/l	40	NS	NA	NA	< 0.85	< 0.85	< 0.85	< 0.85	NA	0.9 B	NA	NA	NA	NA	NA
Sodium	ug/l	50,000	NS	NA	NA	72.6 B	33.9 B	19.6 B	23 B	NA	31.8 B	NA	NA	NA	NA	NA
Thallium	ug/l	2 [10]	2	NA	NA	< 1.7	< 1.7	< 1.7	< 1.7	NA	< 1.7	NA	NA	NA	NA	NA
Vanadium	ug/l	NS	NS	NA	NA	< 0.77	< 0.77	< 0.77	< 0.77	NA	< 0.77	NA	NA	NA	NA	NA
Zinc	ug/l	2000	NS	NA	NA	< 2.8	< 2.8	< 2.8	< 2.8	NA	3.7 B	NA	NA	NA	NA	NA
Other																
Alkalinity, Bicarbonate	ug/l	NS	NS	< 5000	< 5000	< 5000	58000	NA	NA	< 5000	NA	NA	NA	NA	NA	NA
Alkalinity, Carbonate	ug/l	NS	NS	< 5000	< 5000	< 5000	< 5000	NA	NA	< 5000	NA	NA	NA	NA	NA	NA
Alkalinity, total (as CaCO3)	ug/l	NS	NS	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	NA	NA	NA	NA	NA
Carbon dioxide	ug/l	NS	NS	< 1.8	< 1.8	< 1.8	< 1.8	NA	NA	< 1.8	NA	NA	NA	NA	NA	NA
Chloride	ug/l	250000	NS	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	NA	NA	NA	NA	NA
Fluoride	ug/l	2000	4000	< 200	< 200	< 200	< 200	NA	NA	< 200	NA	NA	NA	NA	NA	NA
Methane	ug/l	NS	NS	0.23	0.23	0.12	0.12	NA	NA	< 0.022	NA	NA	NA	NA	NA	NA
Nitrate	ug/l	10000	10000	< 110	< 110	< 110	< 110	NA	NA	< 110	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrate + Nitrite	ug/l	NS	NS	< 100	< 100	< 100	< 100	NA	NA	< 100 J	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrite	ug/l	1000	1000	< 10	< 10	< 10	< 10	NA	NA	< 10	NA	NA	NA	NA	NA	NA
Phosphorus, Total	ug/l	NS	NS	< 50	< 50	< 50	< 50	NA	NA	< 100	NA	NA	NA	NA	NA	NA
Radon (pCi/l)	ug/l	NS	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Radon (pCi/l) Replicate	ug/l	NS	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silica, Dissolved	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	ug/l	250000	NS	< 10000	< 10000	< 10000	< 10000	< 10000	< 10000	< 10000	< 10000	NA	NA	NA	NA	NA
Total organic carbon	ug/l	NS	NS	< 1000	< 1000	< 1000	< 1000	NA	NA	< 1000	NA	NA	NA	NA	NA	NA

See Footnotes on last page

Landfill Area				Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank
Location ID				TB	TB	TB	TB	TB	TB	TB
Sample ID		GWQS[1]	EPA	TRIP BLANK (4/25/2012)	TRIP BLANK (4/27/2012)	TRIP BLANK (4/30/2012)	TRIP BLANK (5/1/2012)	TRIP BLANK (5/1/2012) JB5517	TRIP BLANK(050212)	TRIP BLANK (5/4/2012)
Sample Date			MCLs	4/25/2012	4/27/2012	4/30/2012	5/1/2012	5/1/2012	5/2/2012	5/4/2012
Validation Status	Units			Final	Final	Final	Final	Final	Final	Final
VOC										
1,1,1-Trichloroethane	ug/l	30	200	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
1,1,2,2-Tetrachloroethane	ug/l	1	NS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1,2-Trichloroethane	ug/l	3	5	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
1,1-Dichloroethane	ug/l	50	NS	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
1,1-Dichloroethene	ug/l	1	7	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
1,2,4-Trichlorobenzene	ug/l	9	70	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
1,2-Dibromo-3-Chloropropane (DBCP)	ug/l	0.02 [1]	0.2	< 1.3*	< 1.3*	< 1.3*	< 1.3*	< 1.3*	< 1.3*	< 1.3*
1,2-Dibromoethane	ug/l	0.03 [0.5]	0.05	< 0.21*	< 0.21*	< 0.21*	< 0.21*	< 0.21*	< 0.21*	< 0.21*
1,2-Dichlorobenzene	ug/l	600	600	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
1,2-Dichloroethane	ug/l	2	5	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
1,2-Dichloropropane	ug/l	1	5	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
1,3-Dichlorobenzene	ug/l	600	NS	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29
1,4-Dichlorobenzene	ug/l	75	75	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
2-Butanone (MEK)	ug/l	300	NS	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9
2-Hexanone	ug/l	NS	NS	< 3	< 3	< 3	< 3	< 3	< 3	< 3
4-methyl-2-pentanone (MIBK)	ug/l	NS	NS	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Acetone	ug/l	6000	NS	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Benzene	ug/l	1	5	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Bromodichloromethane	ug/l	1	80	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Bromoform	ug/l	4	80	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Bromomethane	ug/l	10	NS	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
Carbon disulfide	ug/l	700	NS	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
Carbon tetrachloride	ug/l	1	5	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Chlorobenzene	ug/l	50	100	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Chloroethane	ug/l	NS	NS	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
Chloroform	ug/l	70	80	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Chloromethane	ug/l	NS	NS	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
cis-1,2-Dichloroethene	ug/l	70	70	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
cis-1,3-Dichloropropene	ug/l	NS	NS	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Cyclohexane	ug/l	NS	NS	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29
Dibromochloromethane	ug/l	1	80	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Dichlorodifluoromethane	ug/l	1,000	NS	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
Ethylbenzene	ug/l	700	700	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Freon 113	ug/l	NS	NS	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49
Isopropylbenzene	ug/l	700	NS	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Methyl acetate	ug/l	7000	NS	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9
Methyl tert butyl ether	ug/l	70	NS	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
Methylcyclohexane	ug/l	NS	NS	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
Methylene chloride	ug/l	3	5	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Styrene	ug/l	100	100	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Tetrachloroethene	ug/l	1	5	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
Toluene	ug/l	600	1000	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Trans-1,2-dichloroethene	ug/l	100	100	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
trans-1,3-Dichloropropene	ug/l	NS	NS	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Trichloroethene	ug/l	1	5	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Trichlorofluoromethane	ug/l	2000	NS	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
Vinyl Chloride	ug/l	1	2	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27
Xylenes	ug/l	1,000	10000	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Total TIC, Volatile	ug/l	NS	NS	0	0	0	0	0	0	0

Landfill Area				Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank
Location ID				TB	TB	TB	TB	TB	TB	TB
Sample ID		GWQS[1]	EPA	TRIP BLANK (4/25/2012)	TRIP BLANK (4/27/2012)	TRIP BLANK (4/30/2012)	TRIP BLANK (5/1/2012)	TRIP BLANK (5/1/2012) JB5517	TRIP BLANK(050212)	TRIP BLANK (5/4/2012)
Sample Date			MCLs	4/25/2012	4/27/2012	4/30/2012	5/1/2012	5/1/2012	5/2/2012	5/4/2012
Validation Status	Units			Final	Final	Final	Final	Final	Final	Final
SVOC										
1,1'-Biphenyl	ug/l	400	NS	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/l	700	NS	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	ug/l	20	NS	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	ug/l	20	NS	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	ug/l	100	NS	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	ug/l	40	NS	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	ug/l	600	NS	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	ug/l	40	NS	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	ug/l	30	NS	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	ug/l	30	NS	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA
Acetophenone	ug/l	700	NS	NA	NA	NA	NA	NA	NA	NA
Atrazine	ug/l	3	3	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA
Benzyl butyl phthalate	ug/l	100	NS	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	ug/l	7	NS	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroisopropyl)ether	ug/l	300	NS	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	ug/l	3	6	NA	NA	NA	NA	NA	NA	NA
Caprolactam	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA
Carbazole	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	ug/l	6000	NS	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA
di-n-butyl phthalate	ug/l	700	NS	NA	NA	NA	NA	NA	NA	NA
di-n-octylphthalate	ug/l	100	NS	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/l	1	NS	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	ug/l	40	50	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	ug/l	7	NS	NA	NA	NA	NA	NA	NA	NA
Isophrone	ug/l	40	NS	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	ug/l	6	NS	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-Propylamine	ug/l	10	NS	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	ug/l	10	NS	NA	NA	NA	NA	NA	NA	NA
Phenol	ug/l	2000	NS	NA	NA	NA	NA	NA	NA	NA
Total TIC, Semi-Volatile	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA

Landfill Area				Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank
Location ID				TB	TB	TB	TB	TB	TB	TB
Sample ID		GWQS[1]	EPA	TRIP BLANK (4/25/2012)	TRIP BLANK (4/27/2012)	TRIP BLANK (4/30/2012)	TRIP BLANK (5/1/2012)	TRIP BLANK (5/1/2012) JB5517	TRIP BLANK(050212)	TRIP BLANK (5/4/2012)
Sample Date			MCLs	4/25/2012	4/27/2012	4/30/2012	5/1/2012	5/1/2012	5/2/2012	5/4/2012
Validation Status	Units			Final	Final	Final	Final	Final	Final	Final
SVOC BY SIM										
Acenaphthene	ug/l	400	NS	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA
Anthracene	ug/l	2000	NS	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	ug/l	0.1 [0.2]	NS	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/l	0.1 [0.2]	0.2	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/l	0.2 [10]	NS	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/l	0.5	NS	NA	NA	NA	NA	NA	NA	NA
Chrysene	ug/l	5	NS	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	ug/l	0.3 [0.5]	NS	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	ug/l	300	NS	NA	NA	NA	NA	NA	NA	NA
Fluorene	ug/l	300	NS	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	ug/l	0.02 [10]	1	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/l	0.2 [10]	NS	NA	NA	NA	NA	NA	NA	NA
Naphthalene	ug/l	300	NS	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	ug/l	0.3 [1]	1	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA
Pyrene	ug/l	200	NS	NA	NA	NA	NA	NA	NA	NA
PCBs										
PCB 1016	ug/l	0.5	0.5	NA	NA	NA	NA	NA	NA	NA
PCB 1221	ug/l	0.5	0.5	NA	NA	NA	NA	NA	NA	NA
PCB 1232	ug/l	0.5	0.5	NA	NA	NA	NA	NA	NA	NA
PCB 1242	ug/l	0.5	0.5	NA	NA	NA	NA	NA	NA	NA
PCB 1248	ug/l	0.5	0.5	NA	NA	NA	NA	NA	NA	NA
PCB 1254	ug/l	0.5	0.5	NA	NA	NA	NA	NA	NA	NA
PCB 1260	ug/l	0.5	0.5	NA	NA	NA	NA	NA	NA	NA
Total PCBs	ug/l	0.5	0.5	NA	NA	NA	NA	NA	NA	NA
Metals - Total										
Aluminum	ug/l	200	NS	NA	NA	NA	NA	NA	NA	NA
Antimony	ug/l	6	6	NA	NA	NA	NA	NA	NA	NA
Arsenic	ug/l	3 [8]	10	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	6000	2000	NA	NA	NA	NA	NA	NA	NA
Beryllium	ug/l	1	4	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	4	5	NA	NA	NA	NA	NA	NA	NA
Calcium	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	70	100	NA	NA	NA	NA	NA	NA	NA
Cobalt	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1,300	1300	NA	NA	NA	NA	NA	NA	NA
Iron	ug/l	300	NS	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	5	15	NA	NA	NA	NA	NA	NA	NA
Magnesium	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	50	NS	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	2	NA	NA	NA	NA	NA	NA	NA
Nickel	ug/l	100	NS	NA	NA	NA	NA	NA	NA	NA
Potassium	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA
Selenium	ug/l	40	50	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	40	NS	NA	NA	NA	NA	NA	NA	NA
Sodium	ug/l	50,000	NS	NA	NA	NA	NA	NA	NA	NA
Thallium	ug/l	2 [10]	2	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	2000	NS	NA	NA	NA	NA	NA	NA	NA

Landfill Area				Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank
Location ID				TB	TB	TB	TB	TB	TB	TB
Sample ID		GWQS[1]	EPA	TRIP BLANK (4/25/2012)	TRIP BLANK (4/27/2012)	TRIP BLANK (4/30/2012)	TRIP BLANK (5/1/2012)	TRIP BLANK (5/1/2012) JB5517	TRIP BLANK(050212)	TRIP BLANK (5/4/2012)
Sample Date			MCLs	4/25/2012	4/27/2012	4/30/2012	5/1/2012	5/1/2012	5/2/2012	5/4/2012
Validation Status	Units			Final	Final	Final	Final	Final	Final	Final
Metals - Dissolved										
Aluminum	ug/l	200	NS	NA	NA	NA	NA	NA	NA	NA
Antimony	ug/l	6	6	NA	NA	NA	NA	NA	NA	NA
Arsenic	ug/l	3 [8]	10	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	6000	2000	NA	NA	NA	NA	NA	NA	NA
Beryllium	ug/l	1	4	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	4	5	NA	NA	NA	NA	NA	NA	NA
Calcium	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	70	100	NA	NA	NA	NA	NA	NA	NA
Cobalt	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1,300	1300	NA	NA	NA	NA	NA	NA	NA
Iron	ug/l	300	NS	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	5	15	NA	NA	NA	NA	NA	NA	NA
Magnesium	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	50	NS	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	2	NA	NA	NA	NA	NA	NA	NA
Nickel	ug/l	100	NS	NA	NA	NA	NA	NA	NA	NA
Potassium	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA
Selenium	ug/l	40	50	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	40	NS	NA	NA	NA	NA	NA	NA	NA
Sodium	ug/l	50,000	NS	NA	NA	NA	NA	NA	NA	NA
Thallium	ug/l	2 [10]	2	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	2000	NS	NA	NA	NA	NA	NA	NA	NA
Other										
Alkalinity, Bicarbonate	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA
Alkalinity, Carbonate	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA
Alkalinity, total (as CaCO3)	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA
Carbon dioxide	ug/l	NS	NS	NA	NA	NA	NA	NA	< 1.8	< 1.8
Chloride	ug/l	250000	NS	NA	NA	NA	NA	NA	NA	NA
Fluoride	ug/l	2000	4000	NA	NA	NA	NA	NA	NA	NA
Methane	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA
Nitrate	ug/l	10000	10000	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrate + Nitrite	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrite	ug/l	1000	1000	NA	NA	NA	NA	NA	NA	NA
Phosphorus, Total	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA
Radon (pCi/l)	ug/l	NS	300	NA	NA	NA	NA	NA	NA	NA
Radon (pCi/l) Replicate	ug/l	NS	300	NA	NA	NA	NA	NA	NA	NA
Silica, Dissolved	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA
Sulfate	ug/l	250000	NS	NA	NA	NA	NA	NA	NA	NA
Total organic carbon	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA

See Footnotes on last page

Landfill Area				Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank
Location ID				TB	TB	TB	TB	TB
Sample ID		GWQS[1]	EPA	TRIP BLANK (5/7/2012)	TRIP BLANK (5/8/2012)	TRIP BLANK (5/9/2012)	TRIP BLANK(051612)	TRIP BLANK (7/11/2012)
Sample Date			MCLs	5/7/2012	5/8/2012	5/9/2012	5/16/2012	7/11/2012
Validation Status	Units			Final	Final	Final	Final	Final
VOC								
1,1,1-Trichloroethane	ug/l	30	200	< 0.24	< 0.24	< 0.24	NA	< 0.24
1,1,2,2-Tetrachloroethane	ug/l	1	NS	< 0.2	< 0.2	< 0.2	NA	< 0.21
1,1,2-Trichloroethane	ug/l	3	5	< 0.23	< 0.23	< 0.23	NA	< 0.29
1,1-Dichloroethane	ug/l	50	NS	< 0.19	< 0.19	< 0.19	NA	< 0.11
1,1-Dichloroethene	ug/l	1	7	< 0.28	< 0.28	< 0.28	NA	< 0.19
1,2,4-Trichlorobenzene	ug/l	9	70	< 0.15	< 0.15	< 0.15	NA	< 0.2
1,2-Dibromo-3-Chloropropane (DBCP)	ug/l	0.02 [1]	0.2	< 1.3*	< 1.3*	< 1.3*	NA	< 0.54*
1,2-Dibromoethane	ug/l	0.03 [0.5]	0.05	< 0.21*	< 0.21*	< 0.21*	NA	< 0.2*
1,2-Dichlorobenzene	ug/l	600	600	< 0.18	< 0.18	< 0.18	NA	< 0.22
1,2-Dichloroethane	ug/l	2	5	< 0.18	< 0.18	< 0.18	NA	< 0.26
1,2-Dichloropropane	ug/l	1	5	< 0.22	< 0.22	< 0.22	NA	< 0.48
1,3-Dichlorobenzene	ug/l	600	NS	< 0.29	< 0.29	< 0.29	NA	< 0.22
1,4-Dichlorobenzene	ug/l	75	75	< 0.26	< 0.26	< 0.26	NA	< 0.3
2-Butanone (MEK)	ug/l	300	NS	< 2.9	< 2.9	< 2.9	NA	< 2.4
2-Hexanone	ug/l	NS	NS	< 3	< 3	< 3	NA	< 1.1
4-methyl-2-pentanone (MIBK)	ug/l	NS	NS	< 1.2	< 1.2	< 1.2	NA	< 0.83
Acetone	ug/l	6000	NS	< 5	< 5	< 5	NA	< 3.3
Benzene	ug/l	1	5	< 0.22	< 0.22	< 0.22	NA	< 0.24
Bromodichloromethane	ug/l	1	80	< 0.23	< 0.23	< 0.23	NA	< 0.21
Bromoform	ug/l	4	80	< 0.24	< 0.24	< 0.24	NA	< 0.21
Bromomethane	ug/l	10	NS	< 0.31	< 0.31	< 0.31	NA	< 0.22
Carbon disulfide	ug/l	700	NS	< 0.18	< 0.18	< 0.18	NA	< 0.19
Carbon tetrachloride	ug/l	1	5	< 0.19	< 0.19	< 0.19	NA	< 0.22
Chlorobenzene	ug/l	50	100	< 0.22	< 0.22	< 0.22	NA	< 0.23
Chloroethane	ug/l	NS	NS	< 0.37	< 0.37	< 0.37	NA	< 0.26
Chloroform	ug/l	70	80	< 0.21	< 0.21	< 0.21	NA	< 0.2
Chloromethane	ug/l	NS	NS	< 0.22	< 0.22	< 0.22	NA	< 0.21
cis-1,2-Dichloroethene	ug/l	70	70	< 0.22	< 0.22	< 0.22	NA	< 0.19
cis-1,3-Dichloropropene	ug/l	NS	NS	< 0.22	< 0.22	< 0.22	NA	< 0.21
Cyclohexane	ug/l	NS	NS	< 0.29	< 0.29	< 0.29	NA	< 0.35
Dibromochloromethane	ug/l	1	80	< 0.2	< 0.2	< 0.2	NA	< 0.14
Dichlorodifluoromethane	ug/l	1,000	NS	< 0.31	< 0.31	< 0.31	NA	< 0.27
Ethylbenzene	ug/l	700	700	< 0.21	< 0.21	< 0.21	NA	< 0.23
Freon 113	ug/l	NS	NS	< 0.49	< 0.49	< 0.49	NA	< 0.53
Isopropylbenzene	ug/l	700	NS	< 0.19	< 0.19	< 0.19	NA	< 0.45
Methyl acetate	ug/l	7000	NS	< 2.9	< 2.9	< 2.9	NA	< 1.2
Methyl tert butyl ether	ug/l	70	NS	< 0.18	< 0.18	< 0.18	NA	< 0.16
Methylcyclohexane	ug/l	NS	NS	< 0.18	< 0.18	< 0.18	NA	< 0.26
Methylene chloride	ug/l	3	5	< 0.2	< 0.2	< 0.2	NA	< 0.7
Styrene	ug/l	100	100	< 0.23	< 0.23	< 0.23	NA	< 0.21
Tetrachloroethene	ug/l	1	5	< 0.32	< 0.32	< 0.32	NA	< 0.28
Toluene	ug/l	600	1000	< 0.15	< 0.15	< 0.15	NA	< 0.23
Trans-1,2-dichloroethene	ug/l	100	100	< 0.31	< 0.31	< 0.31	NA	< 0.21
trans-1,3-Dichloropropene	ug/l	NS	NS	< 0.19	< 0.19	< 0.19	NA	< 0.19
Trichloroethene	ug/l	1	5	< 0.21	< 0.21	< 0.21	NA	< 0.22
Trichlorofluoromethane	ug/l	2000	NS	< 0.35	< 0.35	< 0.35	NA	< 0.27
Vinyl Chloride	ug/l	1	2	< 0.27	< 0.27	< 0.27	NA	< 0.21
Xylenes	ug/l	1,000	10000	< 0.17	< 0.17	< 0.17	NA	< 0.24
Total TIC, Volatile	ug/l	NS	NS	0	0	0	NA	0

Landfill Area				Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank
Location ID				TB	TB	TB	TB	TB
Sample ID		GWQS[1]	EPA	TRIP BLANK (5/7/2012)	TRIP BLANK (5/8/2012)	TRIP BLANK (5/9/2012)	TRIP BLANK(051612)	TRIP BLANK (7/11/2012)
Sample Date			MCLs	5/7/2012	5/8/2012	5/9/2012	5/16/2012	7/11/2012
Validation Status	Units			Final	Final	Final	Final	Final
SVOC								
1,1'-Biphenyl	ug/l	400	NS	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/l	700	NS	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	ug/l	20	NS	NA	NA	NA	NA	NA
2,4-Dichlorophenol	ug/l	20	NS	NA	NA	NA	NA	NA
2,4-Dimethylphenol	ug/l	100	NS	NA	NA	NA	NA	NA
2,4-Dinitrophenol	ug/l	40	NS	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	ug/l	NS	NS	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	ug/l	NS	NS	NA	NA	NA	NA	NA
2-Chloronaphthalene	ug/l	600	NS	NA	NA	NA	NA	NA
2-Chlorophenol	ug/l	40	NS	NA	NA	NA	NA	NA
2-Methylnaphthalene	ug/l	NS	NS	NA	NA	NA	NA	NA
2-Methylphenol	ug/l	NS	NS	NA	NA	NA	NA	NA
2-Nitroaniline	ug/l	NS	NS	NA	NA	NA	NA	NA
2-Nitrophenol	ug/l	NS	NS	NA	NA	NA	NA	NA
3&4-Methylphenol	ug/l	NS	NS	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	ug/l	30	NS	NA	NA	NA	NA	NA
3-Nitroaniline	ug/l	NS	NS	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	ug/l	NS	NS	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	ug/l	NS	NS	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	ug/l	NS	NS	NA	NA	NA	NA	NA
4-Chloroaniline	ug/l	30	NS	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	ug/l	NS	NS	NA	NA	NA	NA	NA
4-Nitroaniline	ug/l	NS	NS	NA	NA	NA	NA	NA
4-Nitrophenol	ug/l	NS	NS	NA	NA	NA	NA	NA
Acetophenone	ug/l	700	NS	NA	NA	NA	NA	NA
Atrazine	ug/l	3	3	NA	NA	NA	NA	NA
Benzaldehyde	ug/l	NS	NS	NA	NA	NA	NA	NA
Benzyl butyl phthalate	ug/l	100	NS	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/l	NS	NS	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	ug/l	7	NS	NA	NA	NA	NA	NA
bis(2-Chloroisopropyl)ether	ug/l	300	NS	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	ug/l	3	6	NA	NA	NA	NA	NA
Caprolactam	ug/l	NS	NS	NA	NA	NA	NA	NA
Carbazole	ug/l	NS	NS	NA	NA	NA	NA	NA
Dibenzofuran	ug/l	NS	NS	NA	NA	NA	NA	NA
Diethyl phthalate	ug/l	6000	NS	NA	NA	NA	NA	NA
Dimethyl phthalate	ug/l	NS	NS	NA	NA	NA	NA	NA
di-n-butyl phthalate	ug/l	700	NS	NA	NA	NA	NA	NA
di-n-octylphthalate	ug/l	100	NS	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/l	1	NS	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	ug/l	40	50	NA	NA	NA	NA	NA
Hexachloroethane	ug/l	7	NS	NA	NA	NA	NA	NA
Isophrone	ug/l	40	NS	NA	NA	NA	NA	NA
Nitrobenzene	ug/l	6	NS	NA	NA	NA	NA	NA
N-Nitroso-di-n-Propylamine	ug/l	10	NS	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	ug/l	10	NS	NA	NA	NA	NA	NA
Phenol	ug/l	2000	NS	NA	NA	NA	NA	NA
Total TIC, Semi-Volatile	ug/l	NS	NS	NA	NA	NA	NA	NA

Landfill Area				Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank
Location ID				TB	TB	TB	TB	TB
Sample ID		GWQS[1]	EPA	TRIP BLANK (5/7/2012)	TRIP BLANK (5/8/2012)	TRIP BLANK (5/9/2012)	TRIP BLANK(051612)	TRIP BLANK (7/11/2012)
Sample Date			MCLs	5/7/2012	5/8/2012	5/9/2012	5/16/2012	7/11/2012
Validation Status	Units			Final	Final	Final	Final	Final
SVOC BY SIM								
Acenaphthene	ug/l	400	NS	NA	NA	NA	NA	NA
Acenaphthylene	ug/l	NS	NS	NA	NA	NA	NA	NA
Anthracene	ug/l	2000	NS	NA	NA	NA	NA	NA
Benzo(a)anthracene	ug/l	0.1 [0.2]	NS	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/l	0.1 [0.2]	0.2	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/l	0.2 [10]	NS	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/l	NS	NS	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/l	0.5	NS	NA	NA	NA	NA	NA
Chrysene	ug/l	5	NS	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	ug/l	0.3 [0.5]	NS	NA	NA	NA	NA	NA
Fluoranthene	ug/l	300	NS	NA	NA	NA	NA	NA
Fluorene	ug/l	300	NS	NA	NA	NA	NA	NA
Hexachlorobenzene	ug/l	0.02 [10]	1	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/l	0.2 [10]	NS	NA	NA	NA	NA	NA
Naphthalene	ug/l	300	NS	NA	NA	NA	NA	NA
Pentachlorophenol	ug/l	0.3 [1]	1	NA	NA	NA	NA	NA
Phenanthrene	ug/l	NS	NS	NA	NA	NA	NA	NA
Pyrene	ug/l	200	NS	NA	NA	NA	NA	NA
PCBs								
PCB 1016	ug/l	0.5	0.5	NA	NA	NA	NA	NA
PCB 1221	ug/l	0.5	0.5	NA	NA	NA	NA	NA
PCB 1232	ug/l	0.5	0.5	NA	NA	NA	NA	NA
PCB 1242	ug/l	0.5	0.5	NA	NA	NA	NA	NA
PCB 1248	ug/l	0.5	0.5	NA	NA	NA	NA	NA
PCB 1254	ug/l	0.5	0.5	NA	NA	NA	NA	NA
PCB 1260	ug/l	0.5	0.5	NA	NA	NA	NA	NA
Total PCBs	ug/l	0.5	0.5	NA	NA	NA	NA	NA
Metals - Total								
Aluminum	ug/l	200	NS	NA	NA	NA	NA	NA
Antimony	ug/l	6	6	NA	NA	NA	NA	NA
Arsenic	ug/l	3 [8]	10	NA	NA	NA	NA	NA
Barium	ug/l	6000	2000	NA	NA	NA	NA	NA
Beryllium	ug/l	1	4	NA	NA	NA	NA	NA
Cadmium	ug/l	4	5	NA	NA	NA	NA	NA
Calcium	ug/l	NS	NS	NA	NA	NA	NA	NA
Chromium	ug/l	70	100	NA	NA	NA	NA	NA
Cobalt	ug/l	NS	NS	NA	NA	NA	NA	NA
Copper	ug/l	1,300	1300	NA	NA	NA	NA	NA
Iron	ug/l	300	NS	NA	NA	NA	NA	NA
Lead	ug/l	5	15	NA	NA	NA	NA	NA
Magnesium	ug/l	NS	NS	NA	NA	NA	NA	NA
Manganese	ug/l	50	NS	NA	NA	NA	NA	NA
Mercury	ug/l	2	2	NA	NA	NA	NA	NA
Nickel	ug/l	100	NS	NA	NA	NA	NA	NA
Potassium	ug/l	NS	NS	NA	NA	NA	NA	NA
Selenium	ug/l	40	50	NA	NA	NA	NA	NA
Silicon	ug/l	NS	NS	NA	NA	NA	NA	NA
Silver	ug/l	40	NS	NA	NA	NA	NA	NA
Sodium	ug/l	50,000	NS	NA	NA	NA	NA	NA
Thallium	ug/l	2 [10]	2	NA	NA	NA	NA	NA
Vanadium	ug/l	NS	NS	NA	NA	NA	NA	NA
Zinc	ug/l	2000	NS	NA	NA	NA	NA	NA

Landfill Area				Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank
Location ID				TB	TB	TB	TB	TB
Sample ID		GWQS[1]	EPA	TRIP BLANK (5/7/2012)	TRIP BLANK (5/8/2012)	TRIP BLANK (5/9/2012)	TRIP BLANK(051612)	TRIP BLANK (7/11/2012)
Sample Date			MCLs	5/7/2012	5/8/2012	5/9/2012	5/16/2012	7/11/2012
Validation Status	Units			Final	Final	Final	Final	Final
Metals - Dissolved								
Aluminum	ug/l	200	NS	NA	NA	NA	NA	NA
Antimony	ug/l	6	6	NA	NA	NA	NA	NA
Arsenic	ug/l	3 [8]	10	NA	NA	NA	NA	NA
Barium	ug/l	6000	2000	NA	NA	NA	NA	NA
Beryllium	ug/l	1	4	NA	NA	NA	NA	NA
Cadmium	ug/l	4	5	NA	NA	NA	NA	NA
Calcium	ug/l	NS	NS	NA	NA	NA	NA	NA
Chromium	ug/l	70	100	NA	NA	NA	NA	NA
Cobalt	ug/l	NS	NS	NA	NA	NA	NA	NA
Copper	ug/l	1,300	1300	NA	NA	NA	NA	NA
Iron	ug/l	300	NS	NA	NA	NA	NA	NA
Lead	ug/l	5	15	NA	NA	NA	NA	NA
Magnesium	ug/l	NS	NS	NA	NA	NA	NA	NA
Manganese	ug/l	50	NS	NA	NA	NA	NA	NA
Mercury	ug/l	2	2	NA	NA	NA	NA	NA
Nickel	ug/l	100	NS	NA	NA	NA	NA	NA
Potassium	ug/l	NS	NS	NA	NA	NA	NA	NA
Selenium	ug/l	40	50	NA	NA	NA	NA	NA
Silver	ug/l	40	NS	NA	NA	NA	NA	NA
Sodium	ug/l	50,000	NS	NA	NA	NA	NA	NA
Thallium	ug/l	2 [10]	2	NA	NA	NA	NA	NA
Vanadium	ug/l	NS	NS	NA	NA	NA	NA	NA
Zinc	ug/l	2000	NS	NA	NA	NA	NA	NA
Other								
Alkalinity, Bicarbonate	ug/l	NS	NS	NA	NA	NA	NA	NA
Alkalinity, Carbonate	ug/l	NS	NS	NA	NA	NA	NA	NA
Alkalinity, total (as CaCO3)	ug/l	NS	NS	NA	NA	NA	NA	NA
Carbon dioxide	ug/l	NS	NS	< 1.8	< 1.8	< 1.8	< 1.8	NA
Chloride	ug/l	250000	NS	NA	NA	NA	NA	NA
Fluoride	ug/l	2000	4000	NA	NA	NA	NA	NA
Methane	ug/l	NS	NS	NA	NA	NA	0.17	NA
Nitrate	ug/l	10000	10000	NA	NA	NA	NA	NA
Nitrogen, Nitrate + Nitrite	ug/l	NS	NS	NA	NA	NA	NA	NA
Nitrogen, Nitrite	ug/l	1000	1000	NA	NA	NA	NA	NA
Phosphorus, Total	ug/l	NS	NS	NA	NA	NA	NA	NA
Radon (pCi/l)	ug/l	NS	300	NA	NA	NA	NA	NA
Radon (pCi/l) Replicate	ug/l	NS	300	NA	NA	NA	NA	NA
Silica, Dissolved	ug/l	NS	NS	NA	NA	NA	NA	NA
Sulfate	ug/l	250000	NS	NA	NA	NA	NA	NA
Total organic carbon	ug/l	NS	NS	NA	NA	NA	NA	NA

See Footnotes on last page

Landfill Area				Off-Site or Other	Off-Site or Other	Off-Site or Other	Field Blank	Field Blank
Location ID				RW-12	RW-12	RW-12	FB	FB
Sample ID		GWQS[1]	EPA	RW-12(50-70)	RW-12(96-116)	RW-12(125-148)	FB(051012)	FB(051112)
Sample Date			MCLs	5/10/2012	5/10/2012	5/11/2012	5/10/2012	5/11/2012
Validation Status	Units			Final	Final	Final	Final	Final
VOC								
1,1,1-Trichloroethane	ug/l	30	200	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
1,1,2,2-Tetrachloroethane	ug/l	1	NS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1,2-Trichloroethane	ug/l	3	5	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
1,1-Dichloroethane	ug/l	50	NS	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
1,1-Dichloroethene	ug/l	1	7	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
1,2,4-Trichlorobenzene	ug/l	9	70	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
1,2-Dibromo-3-Chloropropane (DBCP)	ug/l	0.02 [1]	0.2	< 1.3*	< 1.3*	< 1.3*	< 1.3*	< 1.3*
1,2-Dibromoethane	ug/l	0.03 [0.5]	0.05	< 0.21*	< 0.21*	< 0.21*	< 0.21*	< 0.21*
1,2-Dichlorobenzene	ug/l	600	600	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
1,2-Dichloroethane	ug/l	2	5	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
1,2-Dichloropropane	ug/l	1	5	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
1,3-Dichlorobenzene	ug/l	600	NS	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29
1,4-Dichlorobenzene	ug/l	75	75	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
2-Butanone (MEK)	ug/l	300	NS	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9
2-Hexanone	ug/l	NS	NS	< 3	< 3	< 3	< 3	< 3
4-methyl-2-pentanone (MIBK)	ug/l	NS	NS	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Acetone	ug/l	6000	NS	< 5	< 5	< 5	< 5	< 5
Benzene	ug/l	1	5	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Bromodichloromethane	ug/l	1	80	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Bromoform	ug/l	4	80	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Bromomethane	ug/l	10	NS	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
Carbon disulfide	ug/l	700	NS	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
Carbon tetrachloride	ug/l	1	5	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Chlorobenzene	ug/l	50	100	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Chloroethane	ug/l	NS	NS	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
Chloroform	ug/l	70	80	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Chloromethane	ug/l	NS	NS	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
cis-1,2-Dichloroethene	ug/l	70	70	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
cis-1,3-Dichloropropene	ug/l	NS	NS	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Cyclohexane	ug/l	NS	NS	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29
Dibromochloromethane	ug/l	1	80	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Dichlorodifluoromethane	ug/l	1,000	NS	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
Ethylbenzene	ug/l	700	700	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Freon 113	ug/l	NS	NS	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49
Isopropylbenzene	ug/l	700	NS	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Methyl acetate	ug/l	7000	NS	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9
Methyl tert butyl ether	ug/l	70	NS	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
Methylcyclohexane	ug/l	NS	NS	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
Methylene chloride	ug/l	3	5	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Styrene	ug/l	100	100	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Tetrachloroethene	ug/l	1	5	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
Toluene	ug/l	600	1000	< 0.15	< 0.15	0.43 J	< 0.15	< 0.15
Trans-1,2-dichloroethene	ug/l	100	100	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
trans-1,3-Dichloropropene	ug/l	NS	NS	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Trichloroethene	ug/l	1	5	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Trichlorofluoromethane	ug/l	2000	NS	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
Vinyl Chloride	ug/l	1	2	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27
Xylenes	ug/l	1,000	10000	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Total TIC, Volatile	ug/l	NS	NS	0	0	0	0	0

Landfill Area				Off-Site or Other	Off-Site or Other	Off-Site or Other	Field Blank	Field Blank
Location ID				RW-12	RW-12	RW-12	FB	FB
Sample ID		GWQS[1]	EPA	RW-12(50-70)	RW-12(96-116)	RW-12(125-148)	FB(051012)	FB(051112)
Sample Date			MCLs	5/10/2012	5/10/2012	5/11/2012	5/10/2012	5/11/2012
Validation Status	Units			Final	Final	Final	Final	Final
SVOC								
1,1'-Biphenyl	ug/l	400	NS	< 0.33	< 0.34	< 0.34	< 0.3	< 0.3
2,4,5-Trichlorophenol	ug/l	700	NS	< 1.7	< 1.8	< 1.8	< 1.6	< 1.6
2,4,6-Trichlorophenol	ug/l	20	NS	< 1.4	< 1.4	< 1.4	< 1.3	< 1.3
2,4-Dichlorophenol	ug/l	20	NS	< 1.2	< 1.3	< 1.3	< 1.2	< 1.2
2,4-Dimethylphenol	ug/l	100	NS	< 1.6	< 1.7	< 1.7	< 1.5	< 1.5
2,4-Dinitrophenol	ug/l	40	NS	< 18	< 19	< 19	< 17	< 17
2,4-Dinitrotoluene	ug/l	NS	NS	< 0.46	< 0.48	< 0.48	< 0.43	< 0.43
2,6-Dinitrotoluene	ug/l	NS	NS	< 0.5	< 0.52	< 0.52	< 0.46	< 0.46
2-Chloronaphthalene	ug/l	600	NS	< 0.32	< 0.33	< 0.33	< 0.3	< 0.3
2-Chlorophenol	ug/l	40	NS	< 1	< 1.1	< 1.1	< 0.97	< 0.97
2-Methylnaphthalene	ug/l	NS	NS	< 0.41	< 0.43	< 0.43	< 0.38	< 0.38
2-Methylphenol	ug/l	NS	NS	< 1.1	< 1.2	< 1.2	< 1	< 1
2-Nitroaniline	ug/l	NS	NS	< 1.2	< 1.2	< 1.2	< 1.1	< 1.1
2-Nitrophenol	ug/l	NS	NS	< 1.6	< 1.7	< 1.7	< 1.5	< 1.5
3&4-Methylphenol	ug/l	NS	NS	< 0.99	< 1	< 1	< 0.93	< 0.93
3,3'-Dichlorobenzidine	ug/l	30	NS	< 0.39	< 0.4	< 0.4	< 0.36	< 0.36
3-Nitroaniline	ug/l	NS	NS	< 1.4	< 1.4	< 1.4	< 1.3	< 1.3
4,6-Dinitro-2-methylphenol	ug/l	NS	NS	< 1.1	< 1.1	< 1.1	< 0.99	< 0.99
4-Bromophenyl phenyl ether	ug/l	NS	NS	< 0.38	< 0.4	< 0.4	< 0.36	< 0.36
4-Chloro-3-Methylphenol	ug/l	NS	NS	< 2	< 2	< 2	< 1.8	< 1.8
4-Chloroaniline	ug/l	30	NS	< 0.57	< 0.59	< 0.59	< 0.53	< 0.53
4-Chlorophenyl phenyl ether	ug/l	NS	NS	< 0.34	< 0.35	< 0.35	< 0.31	< 0.31
4-Nitroaniline	ug/l	NS	NS	< 1.8	< 1.9	< 1.9	< 1.7	< 1.7
4-Nitrophenol	ug/l	NS	NS	< 5.6	< 5.8	< 5.8	< 5.2	< 5.2
Acetophenone	ug/l	700	NS	< 0.31	< 0.32	< 0.32	< 0.29	< 0.29
Atrazine	ug/l	3	3	< 0.52	< 0.55	< 0.55	< 0.49	< 0.49
Benzaldehyde	ug/l	NS	NS	< 3.5	< 3.7	< 3.7	< 3.3	< 3.3
Benzyl butyl phthalate	ug/l	100	NS	< 0.31	< 0.32	< 0.32	< 0.29	< 0.29
bis(2-Chloroethoxy)methane	ug/l	NS	NS	< 0.33	< 0.34	< 0.34	< 0.31	< 0.31
bis(2-Chloroethyl)ether	ug/l	7	NS	< 0.33	< 0.35	< 0.35	< 0.31	< 0.31
bis(2-Chloroisopropyl)ether	ug/l	300	NS	< 0.49	< 0.51	< 0.51	< 0.45	< 0.45
bis(2-Ethylhexyl)phthalate	ug/l	3	6	< 0.63	< 0.66	< 0.66	< 0.59	< 0.59
Caprolactam	ug/l	NS	NS	< 0.74	< 0.77	< 0.77	< 0.69	< 0.69
Carbazole	ug/l	NS	NS	< 0.39	< 0.4	< 0.4	< 0.36	< 0.36
Dibenzofuran	ug/l	NS	NS	< 0.28	< 0.3	< 0.3	< 0.27	< 0.27
Diethyl phthalate	ug/l	6000	NS	< 0.35	< 0.37	< 0.37	< 0.33	< 0.33
Dimethyl phthalate	ug/l	NS	NS	< 0.3	< 0.32	< 0.32	< 0.28	< 0.28
di-n-butyl phthalate	ug/l	700	NS	< 0.6	< 0.62	< 0.62	< 0.56	< 0.56
di-n-octylphthalate	ug/l	100	NS	< 0.33	< 0.35	< 0.35	< 0.31	< 0.31
Hexachlorobutadiene	ug/l	1	NS	< 0.55	< 0.58	< 0.58	< 0.51	< 0.51
Hexachlorocyclopentadiene	ug/l	40	50	< 7.6	< 8	< 8	< 7.1	< 7.1
Hexachloroethane	ug/l	7	NS	< 0.59	< 0.62	< 0.62	< 0.55	< 0.55
Isophrone	ug/l	40	NS	< 0.29	< 0.31	< 0.31	< 0.27	< 0.27
Nitrobenzene	ug/l	6	NS	< 0.45	< 0.47	< 0.47	< 0.42	< 0.42
N-Nitroso-di-n-Propylamine	ug/l	10	NS	< 0.32	< 0.34	< 0.34	< 0.3	< 0.3
N-Nitrosodiphenylamine	ug/l	10	NS	< 0.33	< 0.34	< 0.34	< 0.31	< 0.31
Phenol	ug/l	2000	NS	< 1.4	< 1.4	< 1.4	< 1.3	< 1.3
Total TIC, Semi-Volatile	ug/l	NS	NS	0	0	0	0	0

Landfill Area				Off-Site or Other	Off-Site or Other	Off-Site or Other	Field Blank	Field Blank
Location ID				RW-12	RW-12	RW-12	FB	FB
Sample ID		GWQS[1]	EPA	RW-12(50-70)	RW-12(96-116)	RW-12(125-148)	FB(051012)	FB(051112)
Sample Date			MCLs	5/10/2012	5/10/2012	5/11/2012	5/10/2012	5/11/2012
Validation Status	Units			Final	Final	Final	Final	Final
SVOC BY SIM								
Acenaphthene	ug/l	400	NS	< 0.015	< 0.015	< 0.015	< 0.014	< 0.014
Acenaphthylene	ug/l	NS	NS	< 0.017 J	< 0.018	< 0.018	< 0.016	< 0.016
Anthracene	ug/l	2000	NS	< 0.011	< 0.011	< 0.011	< 0.01	< 0.01
Benzo(a)anthracene	ug/l	0.1 [0.2]	NS	< 0.016	< 0.017	< 0.017	< 0.015	< 0.015
Benzo(a)pyrene	ug/l	0.1 [0.2]	0.2	< 0.0053	< 0.0055	< 0.0055	< 0.0049	< 0.0049
Benzo(b)fluoranthene	ug/l	0.2 [10]	NS	< 0.018	< 0.018	< 0.018	< 0.016	< 0.016
Benzo(g,h,i)perylene	ug/l	NS	NS	< 0.011	< 0.012	< 0.012	< 0.01	< 0.01
Benzo(k)fluoranthene	ug/l	0.5	NS	< 0.013	< 0.014	< 0.014	< 0.013	< 0.013
Chrysene	ug/l	5	NS	< 0.025	< 0.026	< 0.026	< 0.023	< 0.023
Dibenzo(a,h)anthracene	ug/l	0.3 [0.5]	NS	< 0.024	< 0.025	< 0.025	< 0.023	< 0.023
Fluoranthene	ug/l	300	NS	< 0.01	< 0.011	< 0.011	< 0.0096	< 0.0096
Fluorene	ug/l	300	NS	< 0.016	< 0.017	< 0.017	< 0.015	< 0.015
Hexachlorobenzene	ug/l	0.02 [10]	1	< 0.0086	< 0.009	< 0.009	< 0.008	< 0.008
Indeno(1,2,3-cd)pyrene	ug/l	0.2 [10]	NS	< 0.011	< 0.012	< 0.012	< 0.011	< 0.011
Naphthalene	ug/l	300	NS	< 0.017	< 0.018	< 0.018	< 0.016	< 0.016
Pentachlorophenol	ug/l	0.3 [1]	1	< 0.11	< 0.11	< 0.11	< 0.1	< 0.1
Phenanthrene	ug/l	NS	NS	< 0.017	< 0.018	< 0.018	< 0.016	< 0.016
Pyrene	ug/l	200	NS	< 0.0087	< 0.0091	< 0.0091	< 0.0081	< 0.0081
PCBs								
PCB 1016	ug/l	0.5	0.5	< 0.14	< 0.14	< 0.14	< 0.14	< 0.13
PCB 1221	ug/l	0.5	0.5	< 0.29	< 0.3	< 0.3	< 0.29	< 0.27
PCB 1232	ug/l	0.5	0.5	< 0.41	< 0.42	< 0.43	< 0.41	< 0.39
PCB 1242	ug/l	0.5	0.5	< 0.092	< 0.095	< 0.096	< 0.092	< 0.086
PCB 1248	ug/l	0.5	0.5	< 0.16	< 0.16	< 0.16	< 0.16	< 0.15
PCB 1254	ug/l	0.5	0.5	< 0.15	< 0.15	< 0.16	< 0.15	< 0.14
PCB 1260	ug/l	0.5	0.5	< 0.22	< 0.23	< 0.23	< 0.22	< 0.21
Total PCBs	ug/l	0.5	0.5	0	0	0	0	0
Metals - Total								
Aluminum	ug/l	200	NS	66.7 J	134 J	145 B	< 16	< 16
Antimony	ug/l	6	6	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
Arsenic	ug/l	3 [8]	10	< 0.97	< 0.97	< 0.97	< 0.97	< 0.97
Barium	ug/l	6000	2000	34.8 B	25 B	26.5 B	< 0.66	< 0.66
Beryllium	ug/l	1	4	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
Cadmium	ug/l	4	5	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Calcium	ug/l	NS	NS	53100	56300	54800	< 39	< 39
Chromium	ug/l	70	100	1.2 B	1.7 B	1.8 B	< 0.91	< 0.91
Cobalt	ug/l	NS	NS	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59
Copper	ug/l	1,300	1300	< 1.3	< 1.3	1.6 B	< 1.3	< 1.3
Iron	ug/l	300	NS	**12100**	**13500**	**11400**	< 24	< 24
Lead	ug/l	5	15	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
Magnesium	ug/l	NS	NS	9440	8860	8440	< 16	< 16
Manganese	ug/l	50	NS	**178**	**156**	**150**	< 0.12	< 0.12
Mercury	ug/l	2	2	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075
Nickel	ug/l	100	NS	2.6 J	2.7 J	< 10	< 0.94	< 0.94
Potassium	ug/l	NS	NS	3510 J	3210 J	3180 J	< 62 J	< 62 J
Selenium	ug/l	40	50	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4
Silicon	ug/l	NS	NS	NA	NA	NA	NA	NA
Silver	ug/l	40	NS	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85
Sodium	ug/l	50,000	NS	48500	**51500**	**50600**	< 13	< 13
Thallium	ug/l	2 [10]	2	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
Vanadium	ug/l	NS	NS	1.1 B	1.7 B	1.4 B	< 0.77	< 0.77
Zinc	ug/l	2000	NS	639	251	1380	4.1 B	< 2.8

Table 14: Summary of 2012 Ground Water Analytical Results,
Ringwood Mines/Landfill Site, Ringwood, New Jersey

Landfill Area				Off-Site or Other	Off-Site or Other	Off-Site or Other	Field Blank	Field Blank
Location ID				RW-12	RW-12	RW-12	FB	FB
Sample ID		GWQS[1]	EPA	RW-12(50-70)	RW-12(96-116)	RW-12(125-148)	FB(051012)	FB(051112)
Sample Date			MCLs	5/10/2012	5/10/2012	5/11/2012	5/10/2012	5/11/2012
Validation Status	Units			Final	Final	Final	Final	Final
Metals - Dissolved								
Aluminum	ug/l	200	NS	< 16	< 16	< 16	< 16	< 16
Antimony	ug/l	6	6	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
Arsenic	ug/l	3 [8]	10	< 0.97	< 0.97	< 0.97	< 0.97	< 0.97
Barium	ug/l	6000	2000	31 B	19.8 B	23.3 B	< 0.66	< 0.66
Beryllium	ug/l	1	4	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
Cadmium	ug/l	4	5	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Calcium	ug/l	NS	NS	52700	54800	54900	< 39	< 39
Chromium	ug/l	70	100	< 0.91	< 0.91	< 0.91	< 0.91	< 0.91
Cobalt	ug/l	NS	NS	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59
Copper	ug/l	1,300	1300	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3
Iron	ug/l	300	NS	24.9 B	< 24	**4680**	< 24	< 24
Lead	ug/l	5	15	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
Magnesium	ug/l	NS	NS	9290	8470	8380	< 16	< 16
Manganese	ug/l	50	NS	**81.4**	32.1	**107**	< 0.12	< 0.12
Mercury	ug/l	2	2	NA	NA	NA	NA	NA
Nickel	ug/l	100	NS	1.7 B	1.5 B	3.6 B	< 0.94	< 0.94
Potassium	ug/l	NS	NS	3480 J	3200 J	3100 J	< 62 J	< 62 J
Selenium	ug/l	40	50	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4
Silver	ug/l	40	NS	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85
Sodium	ug/l	50,000	NS	48300	**51100**	**50400**	19.6 B	23 B
Thallium	ug/l	2 [10]	2	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
Vanadium	ug/l	NS	NS	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77
Zinc	ug/l	2000	NS	303	44.3 J	1260	< 2.8	< 2.8
Other								
Alkalinity, Bicarbonate	ug/l	NS	NS	NA	NA	NA	NA	NA
Alkalinity, Carbonate	ug/l	NS	NS	NA	NA	NA	NA	NA
Alkalinity, total (as CaCO3)	ug/l	NS	NS	32300	31700	41500	< 5000	< 5000
Carbon dioxide	ug/l	NS	NS	NA	NA	NA	NA	NA
Chloride	ug/l	250000	NS	17400	18400	17200	< 2000	< 2000
Fluoride	ug/l	2000	4000	NA	NA	NA	NA	NA
Methane	ug/l	NS	NS	NA	NA	NA	NA	NA
Nitrate	ug/l	10000	10000	NA	NA	NA	NA	NA
Nitrogen, Nitrate + Nitrite	ug/l	NS	NS	NA	NA	NA	NA	NA
Nitrogen, Nitrite	ug/l	1000	1000	NA	NA	NA	NA	NA
Phosphorus, Total	ug/l	NS	NS	NA	NA	NA	NA	NA
Radon (pCi/l)	ug/l	NS	300	NA	NA	NA	NA	NA
Radon (pCi/l) Replicate	ug/l	NS	300	NA	NA	NA	NA	NA
Silica, Dissolved	ug/l	NS	NS	NA	NA	NA	NA	NA
Sulfate	ug/l	250000	NS	208000	216000	215000	< 10000	< 10000
Total organic carbon	ug/l	NS	NS	NA	NA	NA	NA	NA

Results are presented in micrograms per liter (ug/L) unless otherwise noted.

<	Not detected.
NA	Not analyzed.
NS	No standard.
B	Organic: analyte found in associated method blank.
B	Inorganic: estimated result is between the detection limit and quantification limit.
J	Estimated result.
LT	Result is less than Requested MDC, greater than sample specific MDC.
[1]	Ground Water Quality Standards (GWQS), Class IIA, as specified in New Jersey Administrative Code (N.J.A.C). 7:9-6, current 2005 and interim criteria, select 2004 criteria are presented in [ ].
Bold	Value is above the Ground Water Quality Standard
*	Detection limit is above the 2005 GWQS standard.
Shade	Value is above the USEPA Maximum Contaminant Level (MCL).

Location ID		GWQS[1]	EPA	OB-01	OB-01	OB-01	OB-01	OB-01	OB-01	OB-01	OB-01	OB-01	OB-01	OB-01	OB-02	OB-02	OB-02	OB-02	OB-02	OB-02	OB-02
Sample ID			MCLs	OB-1(110104)	OB-1 (123004)	OB-1 (9/26/2006)	OB-1(040607)	OB-1(071009)	OB-1(080430)	OB-1(080908)	OB-1(070209)	OB-1(102209)	OB-1(052610)	OB-1 (052011)	OB-2 (10/13/04)	OB-2 (10/2/2006)	OB-2(040607)	OB-2(071008)	OB-2(080428)	OB-2 (080917)	OB-2(063009)
Sample Date	Units			11/1/2004	12/30/2004	9/26/2006	4/6/2007	10/9/2007	4/30/2008	9/8/2008	7/2/2009	10/22/2009	5/26/2010	5/20/2011	10/13/2004	10/2/2006	4/6/2007	10/8/2007	4/28/2008	9/17/2008	6/30/2009
VOC																					
1,1,1,2-Tetrachloroethane	ug/l	1	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/l	30	200	< 1	< 0.25	< 0.28	< 0.28	< 0.3	< 0.24	< 0.24	< 0.26	< 0.26	< 0.26	< 0.2	< 0.5	< 0.28	< 0.28	< 0.3	< 0.24	< 0.24	< 0.26
1,1,2,2-Tetrachloroethane	ug/l	1	NS	< 1	< 0.14	< 0.28	< 0.28	< 0.8	< 0.13	< 0.13	< 0.24	< 0.24	< 0.24	< 0.12	< 0.3	< 0.28	< 0.28	< 0.8	< 0.13	< 0.13	< 0.24
1,1,2-Trichloroethane	ug/l	3	5	< 1	< 0.17	< 0.32	< 0.32	< 0.49	< 0.17	< 0.17	< 0.23	< 0.23	< 0.23	< 0.13	< 0.5	< 0.32	< 0.32	< 0.49	< 0.17	< 0.17	< 0.23
1,1-Dichloroethane	ug/l	50	NS	< 1	< 0.13	< 0.23	< 0.23	< 0.2	< 0.16	< 0.24	< 0.29	< 0.29	< 0.29	< 0.16	< 0.5	< 0.23	< 0.23	< 0.2	< 0.16	< 0.24	< 0.29
1,1-Dichloroethene	ug/l	1	7	< 1	< 0.81	< 0.33	< 0.33	< 0.28	< 0.29	< 0.29	< 0.4	< 0.4	< 0.4	< 0.24	< 0.5	< 0.33	< 0.33	< 0.28	< 0.29	< 0.29	< 0.4
1,2,4-Trichlorobenzene	ug/l	9	70	< 5	< 0.61	< 0.16	< 0.16	< 0.41	< 1.3	< 1.3	< 0.56	< 0.56	< 0.56	< 0.16	< 0.5	< 0.16	< 0.16	< 0.41	< 1.3	< 1.3	< 0.56
1,2-Dibromo-3-Chloropropane (DBCP)	ug/l	0.02 [1]	0.2	< 10	< 1.1	< 1.1	< 1.1	< 0.8	< 2.4	< 1.3	< 1.1	< 1.1	< 1.1	< 1.2	< 1	< 1.1	< 1.1	< 0.8	< 2.4	< 1.3	< 1.1
1,2-Dibromoethane	ug/l	0.03 [0.5]	0.05	< 2	< 0.47	< 0.52	< 0.52	< 0.45	< 0.17	< 0.18	< 0.39	< 0.39	< 0.39	< 0.39	< 0.5	< 0.52	< 0.52	< 0.45	< 0.17	< 0.18	< 0.39
1,2-Dichlorobenzene	ug/l	600	600	< 1	< 0.19	< 0.2	< 0.2	< 0.2	< 0.18	< 0.18	< 0.26	< 0.26	< 0.26	< 0.15	< 0.5	< 0.2	< 0.2	< 0.2	< 0.18	< 0.18	< 0.26
1,2-Dichloroethane	ug/l	2	5	< 1	< 0.35	< 0.29	< 0.29	< 0.29	< 0.35	< 0.35	< 0.33	< 0.33	< 0.33	< 0.31	< 0.5	< 0.29	< 0.29	< 0.29	< 0.35	< 0.35	< 0.33
1,2-Dichloropropane	ug/l	1	5	< 1	< 0.11	< 0.2	< 0.2	< 0.24	< 0.18	< 0.18	< 0.27	< 0.27	< 0.27	< 0.23	< 0.5	< 0.2	< 0.2	< 0.24	< 0.18	< 0.18	< 0.27
1,3-Dichlorobenzene	ug/l	600	NS	< 1	< 0.18	< 0.32	< 0.32	< 0.21	< 0.26	< 0.26	< 0.25	< 0.25	< 0.25	< 0.19	< 0.5	< 0.32	< 0.32	< 0.21	< 0.26	< 0.26	< 0.25
1,4-Dichlorobenzene	ug/l	75	75	< 1	< 0.29	< 0.24	< 0.24	< 0.17	< 0.32	< 0.22	< 0.28	< 0.28	< 0.28	< 0.22	< 0.5	< 0.24	< 0.24	< 0.17	< 0.32	< 0.22	< 0.28
2-Butanone (MEK)	ug/l	300	NS	< 10	< 2.5	< 2.6	< 2.6	< 2.7	< 2.3	< 2.3	< 1.6	< 1.6	< 1.6	< 1.7	< 2.5	< 2.6	< 2.6	< 2.7	< 2.3	< 2.3	< 1.6
2-Hexanone	ug/l	NS	NS	< 5	< 0.73	< 1.3	< 1.3	< 0.94	< 1.7	< 1.7	< 1.4	< 1.4	< 1.4	< 1.9	< 2.5	< 1.3	< 1.3	< 0.94	< 1.7	< 1.7	< 1.4
4-methyl-2-pentanone (MIBK)	ug/l	NS	NS	< 5	< 0.59	< 1.1	< 1.1	< 1.4	< 1.9	< 1.3	< 0.86	< 0.86	< 0.86	< 0.74	< 2.5	< 1.1	< 1.1	< 1.4	< 1.9	< 1.3	< 0.86
Acetone	ug/l	6000	NS	< 10	< 2.3	< 2.4	< 2.4	< 2.9	< 2.1	< 2.1	< 2.9	< 2.9	< 2.9	< 4.4	< 5	< 2.4	< 2.4	< 2.9	< 2.1	< 2.1	< 2.9
Benzene	ug/l	1	5	< 1	< 0.31	< 0.21	< 0.21	< 0.19	< 0.26	< 0.26	< 0.23	< 0.23	< 0.23	< 0.26	< 0.5	< 0.21	< 0.21	< 0.19	< 0.26	< 0.26	< 0.23
Bromodichloromethane	ug/l	1	80	< 1	< 0.11	< 0.17	< 0.17	< 0.15	< 0.14	< 0.14	< 0.22	< 0.22	< 0.22	< 0.18	< 0.5	< 0.17	< 0.17	< 0.15	< 0.14	< 0.14	< 0.22
Bromoform	ug/l	4	80	< 4	< 0.17	< 0.54	< 0.54	< 0.34	< 0.18	< 0.18	< 0.23	< 0.23	< 0.23	< 0.42	< 0.5	< 0.54	< 0.54	< 0.34	< 0.18	< 0.18	< 0.23
Bromomethane	ug/l	10	NS	< 2	< 0.15	< 0.22	< 0.22	< 0.38	< 0.32	< 0.32	< 0.3	< 0.3	< 0.3	< 0.24	< 1	< 0.22	< 0.22	< 0.38	< 0.32	< 0.32	< 0.3
Carbon disulfide	ug/l	700	NS	< 2	< 0.23	< 0.21	< 0.21	< 0.14	< 0.15	< 0.16	< 0.74	< 0.74	< 0.74	< 0.13	< 1	< 0.21	< 0.21	< 0.14	< 0.15	< 0.16	< 0.74
Carbon tetrachloride	ug/l	1	5	< 1	< 0.15	< 0.29 J	< 0.29	< 0.19	< 0.18	< 0.18	< 0.26	< 0.26	< 0.26	< 0.35	< 0.5	< 0.29	< 0.29	< 0.19	< 0.18	< 0.18	< 0.26
Chlorobenzene	ug/l	50	100	< 1	< 0.23	< 0.22	< 0.22	< 0.19	< 0.14	< 0.19	< 0.39	< 0.39	< 0.39	< 0.15	< 0.5	< 0.22	< 0.22	< 0.19	< 0.14	< 0.19	< 0.39
Chloroethane	ug/l	NS	NS	< 1	< 0.73	< 0.56	< 0.56	< 0.67	< 0.22	< 0.22	< 0.37	< 0.37	< 0.37	< 0.25	< 1	< 0.56	< 0.56	< 0.67	< 0.22	< 0.22	< 0.37
Chloroform	ug/l	70	80	< 1	< 0.081	< 0.22	< 0.22	< 0.25	< 0.16	< 0.16	< 0.23	< 0.23	< 0.23	< 0.14	< 0.5	< 0.22	< 0.22	< 0.25	< 0.16	< 0.16	< 0.23
Chloromethane	ug/l	NS	NS	< 1	< 0.13	< 0.35	< 0.35	< 0.3	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.34	< 1	< 0.35	< 0.35	< 0.3	< 0.29	< 0.29	< 0.29
cis-1,2-Dichloroethene	ug/l	70	70	< 1	< 0.24	< 0.18	< 0.18	< 0.27	< 0.19	< 0.25	< 0.22	< 0.22	< 0.22	< 0.24	< 0.5	< 0.18	< 0.18	< 0.27	< 0.19	< 0.25	< 0.22
cis-1,3-Dichloropropene	ug/l	NS	NS	< 1	< 0.071	< 0.15	< 0.15	< 0.13	< 0.15	< 0.18	< 0.25	< 0.25	< 0.25	< 0.16	< 0.3	< 0.15	< 0.15	< 0.13	< 0.15	< 0.18	< 0.25
Cyclohexane	ug/l	NS	NS	< 5	< 0.17	< 0.5	< 0.5	< 0.85	< 0.85	< 0.85	< 1.9	< 1.9	< 1.9	< 0.43	< 0.5	< 0.5	< 0.5	< 0.85	< 0.85	< 0.85	< 1.9
Dibromochloromethane	ug/l	1	80	< 1	< 0.18	< 0.19	< 0.19	< 0.28	< 0.12	< 0.16	< 0.22	< 0.22	< 0.22	< 0.16	< 0.4	< 0.19	< 0.19	< 0.28	< 0.12	< 0.16	< 0.22
Dichlorodifluoromethane	ug/l	1,000	NS	< 5	< 0.62	< 0.75	< 0.75	< 1	< 0.88	< 0.88	< 0.92	< 0.92	< 0.92	< 0.39	< 0.5	< 0.75	< 0.75	< 1	< 0.88	< 0.88	< 0.92
Ethylbenzene	ug/l	700	700	< 1	< 0.27	< 0.2	< 0.2	< 0.21	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.31	< 0.5	< 0.2	< 0.2	< 0.21	< 0.27	< 0.27	< 0.27
Freon 113	ug/l	NS	NS	< 5	< 0.35	< 0.69	< 0.69	< 1.2	< 0.8	< 0.8	< 0.38	< 0.38	< 0.38	< 0.66	< 0.5	< 0.69	< 0.69	< 1.2	< 0.8	< 0.8	< 0.38
Isopropylbenzene	ug/l	700	NS	< 2	< 0.33	< 0.2	< 0.2	< 0.54	< 0.15	< 0.19	< 0.57	< 0.57	< 0.57	< 0.31	< 0.5	< 0.2	< 0.2	< 0.54	< 0.15	< 0.19	< 0.57
Methyl acetate	ug/l	7000	NS	< 5	< 0.63	< 2.1	< 2.1	< 1.6	< 2.5	< 1.7	< 1.5	< 1.5	< 1.5	< 1.3	< 5	< 2.1	< 2.1	< 1.6	< 2.5	< 1.7	< 1.5
Methyl tert butyl ether	ug/l	70	NS	< 1	< 0.28	< 0.31	< 0.31	< 0.2	< 0.14	< 0.16	< 0.23	< 0.23	< 0.23	< 0.2	< 0.5	< 0.31	< 0.31	< 0.2	< 0.14	< 0.16	< 0.23
Methylcyclohexane	ug/l	NS	NS	< 5	< 0.16	< 0.18	< 0.18	< 0.5	< 0.11	< 0.11	< 0.35	< 0.35	< 0.35	< 0.16	< 0.5	< 0.18	< 0.18	< 0.5	< 0.11	< 0.11	< 0.35
Methylene chloride	ug/l	3	5	< 2	< 0.2	< 0.27	< 0.27	< 0.21	< 0.16	< 0.16	< 0.3	< 0.3	< 0.3	< 0.2	< 1	< 0.27	< 0.27	< 0.21	< 0.16	< 0.16	< 0.3
o-Xylene	ug/l	NS	NS	< 1	< 0.17	< 0.31	< 0.31	< 0.2	< 0.45	< 0.45	< 0.25	< 0.25	NA	NA	NA	< 0.31	< 0.31	< 0.2	< 0.45	< 0.45	< 0.25
Styrene	ug/l	100	100	< 5	< 0.12	< 0.16	< 0.16	< 0.2	< 0.11	< 0.17	< 0.58	< 0.58	< 0.58	< 0.48	< 0.5	< 0.16	< 0.16	< 0.2	< 0.11	< 0.17	< 0.58
Tertiary Butyl Alcohol	ug/l	100	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	ug/l	1	5	< 1	< 0.37	< 0.28	< 0.28	< 0.28	< 0.29	< 0.29	< 0.27	< 0.27	< 0.27	< 0.24	< 0.5	< 0.28	< 0.28	< 0.28	< 0.29	< 0.29	< 0.27
Toluene	ug/l	600	1000	< 1	< 0.14	< 0.2	< 0.2	< 0.21	< 0.15	< 0.15	< 0.3	< 0.3	< 0.3	< 0.27	< 0.5	< 0.2	< 0.2	< 0.21	< 0.15	< 0.15	< 0.3
Trans-1,2-dichloroethene	ug/l	100	100	< 1	< 0.17	< 0.42	< 0.42	< 0.32	< 0.16	< 0.16	< 0.25	< 0.25	< 0.25	< 0.3	< 0.5	< 0.42	< 0.42	< 0.32	< 0.16	< 0.16	< 0.25
trans-1,3-Dichloropropene	ug/l	NS	NS	< 1	< 0.08	< 0.2	< 0.2	< 0.17	< 0.11	< 0.15	< 0.21	< 0.21	< 0.21	< 0.22	< 0.3	< 0.2	< 0.2	< 0.17	< 0.11	< 0.15	< 0.21
Trichloroethene	ug/l	1	5	< 1	< 0.13	< 0.29	< 0.29	< 0.26	< 0.18	< 0.18	< 0.24	< 0.24	< 0.24	< 0.22	< 0.5	< 0.29	< 0.29	< 0.26	< 0.18	< 0.18	< 0.24
Trichlorofluoromethane	ug/l	2000	NS	< 5	< 0.67	< 0.25	< 0.25	< 0.26	< 0.25	< 0.25	< 0.54	< 0.54	< 0.54	< 0.23	< 0.6	< 0.25	< 0.25	< 0.26	< 0.25	< 0.25	< 0.54
Vinyl Chloride	ug/l	1	2	< 1	< 0.66	< 0.29	< 0.29	< 0.22	< 0.21	< 0.21	< 0.44	< 0.44	< 0.44	< 0.22	< 0.5	< 0.29	< 0.29	< 0.22	< 0.21	< 0.21	< 0.44
Xylene, -m,p	ug/l	NS	NS	< 1	< 0.36	< 0.42	< 0.42	< 0.35	< 0.39	< 0.39	< 0.25	< 0.25	NA	NA	NA	< 0.42	< 0.42	< 0.35	< 0.39	< 0.39	< 0.25
Xylenes	ug/l	1,000	10000	< 1	< 0.17	< 0.31	< 0.31	< 0.2	< 0.39	< 0.39	< 0.25	< 0.25	< 0.25	< 0.28	< 1	< 0.31	< 0.31	< 0.2	< 0.39	< 0.39	< 0.25
Total TIC, Volatile	ug/l	NS	NS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Location ID		GWQS[1]	EPA	OB-01	OB-01	OB-01	OB-01	OB-01	OB-01	OB-01	OB-01	OB-01	OB-01	OB-01	OB-02	OB-02	OB-02	OB-02	OB-02	OB-02	OB-02
Sample ID			MCLs	OB-1(110104)	OB-1 (123004)	OB-1 (9/26/2006)	OB-1(040607)	OB-1(071009)	OB-1(080430)	OB-1(080908)	OB-1(070209)	OB-1(102209)	OB-1(052610)	OB-1 (052011)	OB-2 (10/13/04)	OB-2 (10/2/2006)	OB-2(040607)	OB-2(071008)	OB-2(080428)	OB-2 (080917)	OB-2(063009)
Sample Date	Units			11/1/2004	12/30/2004	9/26/2006	4/6/2007	10/9/2007	4/30/2008	9/8/2008	7/2/2009	10/22/2009	5/26/2010	5/20/2011	10/13/2004	10/2/2006	4/6/2007	10/8/2007	4/28/2008	9/17/2008	6/30/2009
SVOC																					
1,1'-Biphenyl	ug/l	400	NS	< 2	< 0.29	< 0.33	< 0.36	< 0.34	< 0.24	< 0.55	< 0.42	< 0.43	< 0.62	< 0.42	< 0.29	< 0.39	< 0.37	< 0.36	< 0.22	< 0.55	< 0.46
1,2,4-Trichlorobenzene	ug/l	9	70	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	ug/l	600	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	ug/l	600	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	ug/l	75	75	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/l	700	NS	< 5	< 0.74	< 1.9	< 2.1	< 2	< 1.2	< 2	< 1.3	< 1.4	< 1.9	< 1.3	< 0.74	< 2.3	< 2.2	< 2.1	< 1.1	< 2	< 1.5
2,4,6-Trichlorophenol	ug/l	20	NS	< 5	< 0.8	< 1.3	< 1.4	< 1.3	< 1.1	< 1.6	< 1.2	< 1.3	< 1.8	< 1.2	< 0.8	< 1.5	< 1.4	< 1.4	< 1	< 1.6	< 1.3
2,4-Dichlorophenol	ug/l	20	NS	< 5	< 0.73	< 1.6	< 1.7	< 1.6	< 1.5	< 1.9	< 1.2	< 1.3	< 1.8	< 1.2	< 0.73	< 1.9	< 1.8	< 1.7	< 1.4	< 1.9	< 1.3
2,4-Dimethylphenol	ug/l	100	NS	< 5	< 1	< 1.6	< 1.8	< 1.7	< 1.8	< 2	< 1.7	< 1.7	< 2.4	< 1.7	< 1	< 2	< 1.8	< 1.8	< 1.7	< 2	< 1.8
2,4-Dinitrophenol	ug/l	40	NS	< 20	< 1.1	< 0.89	< 0.99	< 0.94	< 1.2	< 4.2	< 0.74	< 0.76 J	< 1.1	< 0.74	< 1.1	< 1.1	< 1	< 0.99	< 1.1	< 4.2	< 0.81
2,4-Dinitrotoluene	ug/l	NS	NS	< 2	< 0.78	< 0.86	< 0.96	< 0.91	< 0.59	< 0.45	< 0.22	< 0.23	< 0.32	< 0.22	< 0.78	< 1	< 0.97	< 0.96	< 0.54	< 0.45	< 0.24
2,6-Dinitrotoluene	ug/l	NS	NS	< 2	< 0.62	< 0.56	< 0.62	< 0.59	< 0.54	< 0.6	< 0.33	< 0.34	< 0.48	< 0.33	< 0.62	< 0.67	< 0.63	< 0.62	< 0.5	< 0.6	< 0.36
2-Chloronaphthalene	ug/l	600	NS	< 5	< 0.38	< 0.98	< 1.1	< 1	< 0.22	< 0.48	< 0.42	< 0.43	< 0.61	< 0.42	< 0.38	< 1.2	< 1.1	< 1.1	< 0.2	< 0.48	< 0.46
2-Chlorophenol	ug/l	40	NS	< 5	< 4.3	< 0.95	< 1.1	< 1	< 0.95	< 1.5	< 1.1	< 1.1	< 1.6	< 1.1	< 4.3	< 1.1	< 1.1	< 1.1	< 0.87	< 1.5	< 1.2
2-Methylnaphthalene	ug/l	NS	NS	< 2	< 0.72	< 0.41	< 0.45	< 0.43	< 0.83	< 0.43	< 0.66	< 0.68	< 0.97	< 0.66	< 0.72	< 0.49	< 0.46	< 0.45	< 0.76	< 0.43	< 0.72
2-Methylphenol	ug/l	NS	NS	< 5	< 0.72	< 1.4	< 1.5	< 1.4	< 1.1	< 1.4	< 1.1	< 1.2	< 1.6	< 1.1	< 0.72	< 1.6	< 1.5	< 1.5	< 1	< 1.4	< 1.2
2-Nitroaniline	ug/l	NS	NS	< 5	< 1.4	< 0.66	< 0.74	< 0.7	< 0.54	< 0.45	< 0.24	< 0.24	< 0.35	< 0.24	< 1.4	< 0.79	< 0.74	< 0.74	< 0.5	< 0.45	< 0.26
2-Nitrophenol	ug/l	NS	NS	< 5	< 0.73	< 1.8	< 2	< 1.9	< 1.6	< 1.9	< 1.2	< 1.3	< 1.8	< 1.2	< 0.73	< 2.2	< 2	< 2	< 1.5	< 1.9	< 1.4
3&4-Methylphenol	ug/l	NS	NS	< 5	< 0.7	< 1.3	< 1.4	< 1.3	< 1.2	< 1.5	< 1	< 1.1	< 1.5	< 1	< 0.7	< 1.5	< 1.4	< 1.4	< 1.1	< 1.5	< 1.1
3,3'-Dichlorobenzidine	ug/l	30	NS	< 5	< 0.39	< 1.2	< 1.4	< 1.3	< 1.1	< 4.6	< 0.3	< 0.3	< 0.43	< 0.3	< 0.39	< 1.5	< 1.4	< 1.4	< 0.97	< 4.6	< 0.32
3-Nitroaniline	ug/l	NS	NS	< 5	< 1.2	< 1.3	< 1.4	< 1.3	< 0.35	< 0.45	< 0.29	< 0.3	< 0.42	< 0.29	< 1.2	< 1.5	< 1.4	< 1.4	< 0.32	< 0.45	< 0.32
4,6-Dinitro-2-methylphenol	ug/l	NS	NS	< 20	< 0.65	< 0.72	< 0.8	< 0.76	< 2.4	< 1.2	< 0.51	< 0.53	< 0.75	< 0.51	< 0.65	< 0.86	< 0.81	< 0.8	< 2.2	< 1.2	< 0.56
4-Bromophenyl phenyl ether	ug/l	NS	NS	< 2	< 0.54	< 0.3	< 0.33	< 0.31	< 0.41	< 0.41	< 0.35	< 0.36	< 0.51	< 0.35	< 0.54	< 0.36	< 0.34	< 0.33	< 0.37	< 0.41	< 0.38
4-Chloro-3-Methylphenol	ug/l	NS	NS	< 5	< 4.7	< 1.2	< 1.3	< 1.2	< 1.3	< 2.3	< 1.1	< 1.1	< 1.5	< 1.1	< 4.7	< 1.4	< 1.3	< 1.3	< 1.2	< 2.3	< 1.2
4-Chloroaniline	ug/l	30	NS	< 5	< 0.43	< 0.4	< 0.44	< 0.42	< 0.38	< 0.33	< 0.25	< 0.26	< 0.37	< 0.25	< 0.43	< 0.47	< 0.45	< 0.44	< 0.35	< 0.33	< 0.28
4-Chlorophenyl phenyl ether	ug/l	NS	NS	< 2	< 1	< 0.43	< 0.48	< 0.45	< 0.32	< 0.45	< 0.35	< 0.36	< 0.52	< 0.35	< 1	< 0.51	< 0.48	< 0.48	< 0.29	< 0.45	< 0.39
4-Nitroaniline	ug/l	NS	NS	< 5	< 1.1	< 0.72	< 0.8	< 0.76	< 0.64	< 0.45	< 0.18	< 0.18	< 0.26	< 0.18	< 1.1	< 0.86	< 0.81	< 0.8	< 0.59	< 0.45	< 0.2
4-Nitrophenol	ug/l	NS	NS	< 20	< 2.3	< 0.84	< 0.94	< 0.89	< 1.7	< 2.3	< 0.83	< 0.85	< 1.2	< 0.83	< 2.3	< 1	< 0.95	< 0.94	< 1.6	< 2.3	< 0.91
Acenaphthene	ug/l	400	NS	< 2	< 0.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.3	NA	NA	NA	NA	NA	NA
Acenaphthylene	ug/l	NS	NS	< 2	< 0.35	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.35	NA	NA	NA	NA	NA	NA
Acetophenone	ug/l	700	NS	< 5	< 0.53	< 0.37	< 0.42	< 0.39	< 0.39	< 0.47	< 0.4	< 0.41	< 0.59	< 0.4	< 0.53	< 0.45	< 0.42	< 0.42	< 0.36	< 0.47	< 0.44
Anthracene	ug/l	2000	NS	< 2	< 0.22	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.22	NA	NA	NA	NA	NA	NA
Atrazine	ug/l	3	3	< 5	< 1.5	< 0.16	< 0.18	< 0.17	< 0.31	< 0.62	< 0.39	< 0.4	< 0.58	< 0.39	< 1.5	< 0.19	< 0.18	< 0.18	< 0.28	< 0.62	< 0.43
Benzaldehyde	ug/l	NS	NS	< 5	< 3.6	< 0.27	< 0.29	R	< 0.83	< 1.6	< 0.4	< 0.42	< 0.59	< 0.4	< 3.6	< 0.32	< 0.3	< 0.29	< 0.76	R	< 0.44
Benzo(a)anthracene	ug/l	0.1 [0.2]	NS	< 2	< 0.27	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.27	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/l	0.1 [0.2]	0.2	< 2	< 0.38	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.38	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/l	0.2 [10]	NS	< 2	< 0.37	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.37	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/l	NS	NS	< 2	< 0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.5	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/l	0.5	NS	< 2	< 0.37	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.37	NA	NA	NA	NA	NA	NA
Benzyl butyl phthalate	ug/l	100	NS	< 2	< 0.54	< 0.59	< 0.66	< 0.62	< 0.69	< 0.42	< 0.25	< 0.26	< 0.37	< 0.25	< 0.54	< 0.71	< 0.67	< 0.66	< 0.64	< 0.42	< 0.28
bis(2-Chloroethoxy)methane	ug/l	NS	NS	< 2	< 0.34	< 0.65	< 0.73	< 0.69	< 0.35	< 0.52	< 0.25	< 0.26	< 0.36	< 0.25	< 0.34	< 0.78	< 0.73	< 0.73	< 0.32	< 0.52	< 0.27
bis(2-Chloroethyl)ether	ug/l	7	NS	< 2	< 0.49	< 0.53	< 0.59	< 0.56	< 0.73	< 0.49	< 0.31	< 0.32	< 0.45	< 0.31	< 0.49	< 0.63	< 0.6	< 0.59	< 0.67	< 0.49	< 0.34
bis(2-Chloroisopropyl)ether	ug/l	300	NS	< 2	< 0.44	< 0.74	< 0.82	< 0.78	< 0.63	< 0.54	< 0.39	< 0.4	< 0.57	< 0.39	< 0.44	< 0.88	< 0.83	< 0.82	< 0.58	< 0.54	< 0.43
bis(2-Ethylhexyl)phthalate	ug/l	3	6	< 2	< 0.74	< 0.66	< 0.73	**4.3**	< 0.95	< 0.75	< 0.33	< 0.34	< 0.48	< 0.33	< 0.74	< 0.79	< 0.74	< 0.73	< 0.88	< 0.75	< 0.36
Caprolactam	ug/l	NS	NS	< 2	< 0.44	< 0.32	< 0.35	< 0.33	< 0.53	< 0.63	< 0.2	< 0.2	< 0.29	< 0.2	< 0.44	< 0.38	< 0.35	< 0.35	< 0.49	< 0.63	< 0.21
Carbazole	ug/l	NS	NS	< 2	< 0.34	< 0.36	< 0.4	< 0.38	< 0.43	< 0.45	< 0.17	< 0.17	< 0.24	< 0.17	< 0.34	< 0.43	< 0.41	< 0.4	< 0.4	< 0.45	< 0.18
Chrysene	ug/l	5	NS	< 2	< 0.26	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.26	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	ug/l	0.3 [0.5]	NS	< 2 J	< 0.58	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.58	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/l	NS	NS	< 5	< 0.49	< 0.34	< 0.38	< 0.36	< 0.25	< 0.49	< 0.3	< 0.31	< 0.45	< 0.3	< 0.49	< 0.41	< 0.39	< 0.38	< 0.23	< 0.49	< 0.33
Diethyl phthalate	ug/l	6000	NS	< 2	< 1.4	< 0.39	< 0.43	< 0.41	< 0.37	< 0.36	< 0.17	< 0.17	< 0.24	< 0.17	< 1.4	< 0.46	< 0.44	< 0.43	< 0.34	< 0.36	< 0.18
Dimethyl phthalate	ug/l	NS	NS	< 2	< 0.58	< 0.33	< 0.36	< 0.35	< 0.37	< 0.36	< 0.23	< 0.23	< 0.33	< 0.23	< 0.58	< 0.39	< 0.37	< 0.36	< 0.34	< 0.36	< 0.25
di-n-butyl phthalate	ug/l	700	NS	< 2	< 0.79	< 0.59	< 0.66	< 0.62	< 0.43	< 0.5	< 0.19	< 0.2	< 0.28	< 0.19	< 0.79	< 0.7	< 0.67	< 0.66	< 0.4	< 0.5	< 0.21
di-n-octylphthalate	ug/l	100	NS	< 2	< 0.63	< 0.57	< 0.63	< 0.6	< 0.52	< 0.5	< 0.4	< 0.41	< 0.58	< 0.4	< 0.63	< 0.68	< 0.64	< 0.63	< 0.48	< 0.5	< 0.43
Fluoranthene	ug/l	300	NS	< 2	< 0.63	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.63	NA	NA	NA	NA	NA	NA
Fluorene	ug/l	300	NS	< 2	< 0.89	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.89	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	ug/l	0.02 [10]	1	< 2	< 1.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.2	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/l	1	NS	< 2	< 0.41	< 0.18	< 0.19	R	< 0.14	< 0.38	< 0.37	< 0.38	< 0.19	< 0.13	< 0.41	< 0.21	< 0.2	< 0.19	< 0.13	< 0.38	< 0.41
Hexachlorocyclopentadiene	ug/l	40	50	< 20	< 0.45	< 0.41	< 0.45	< 0.43	< 0.11	< 4.5	< 0.67	< 0.69	< 0.36	< 0.24	< 0.45	< 0.48	< 0.46	< 0.45	< 0.1	< 4.5	< 0.74
Hexachloroethane	ug/l	7	NS	< 5	< 0.67	< 0.28	< 0.31	< 0.3	< 0.18	< 0.3	< 0.26	< 0.27	< 0.31	< 0.21	< 0.67	< 0.34	< 0.32	< 0.31	< 0.16	< 0.3	< 0.29
Indeno(1,2,3-cd)pyrene	ug/l	0.2 [10]	NS	< 2	< 1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.5	NA	NA	NA	NA	NA	NA
Isophrone	ug/l	40	NS	< 2	< 0.54	< 0.59	< 0.65	< 0.62	< 0.53	< 0.69	< 0.25	< 0.26	< 0.37	< 0.25	< 0.54	< 0.7	< 0.66	< 0.65	< 0.49	< 0.69	< 0.27
Naphthalene	ug/l	300	NS	< 2	< 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1	NA	NA	NA	NA	NA	NA
Nitrobenzene	ug/l	6	NS	< 2	< 0.61	< 0.42	< 0.47	< 0.44	< 0.77	< 0.66	< 0.25	< 0.26	< 0.37	< 0.25	< 0.61	< 0.5	< 0.47	< 0.47	< 0.71	< 0.66	< 0.28
N-Nitroso-di-n-Propylamine	ug/l	10	NS	< 2	< 0.5	< 0.47	< 0.52	< 0.49	< 0.42	< 0.39	< 0.44	< 0.45	< 0.64	< 0.44	< 0.5	< 0.56	< 0.53	< 0.52	< 0.38	< 0.39	< 0.48
N-Nitrosodiphenylamine	ug/l	10	NS	< 5	< 0.8	< 0.52	< 0.57	< 0.54	< 0.45	< 0.61	< 0.22	< 0.22	< 0.32	< 0.22	< 0.8	< 0.61	< 0.58	< 0.57	< 0.41	< 0.61	< 0.24
Pentachlorophenol	ug/l	0.3 [1]	1	< 20	< 0.75	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.75	NA	NA	NA	NA	NA	NA
Phenanthrene	ug/l	NS	NS	< 2	< 0.23	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.23	NA	NA	NA	NA	NA	NA
Phenol	ug/l	2000	NS	< 5	< 1.8	< 0.5	< 0.55	< 0.52	< 0.74	< 1.4	< 0.58	< 0.58 J	< 0.85	< 0.58	< 1.8	< 0.59	< 0.56	< 0.55	< 0.68	< 1.4	< 0.63
Pyrene	ug/l	200	NS	< 2	< 0.58	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.58	NA	NA	NA	NA	NA	NA
Total TIC, Semi-Volatile	ug/l	NS	NS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Location ID		GWQS[1]	EPA	OB-01	OB-01	OB-01	OB-01	OB-01	OB-01	OB-01	OB-01	OB-01	OB-01	OB-02	OB-02	OB-02	OB-02	OB-02	OB-02	OB-02
Sample ID			MCLs	OB-1(110104)	OB-1 (123004)	OB-1 (9/26/2006)	OB-1(040607)	OB-1(071009)	OB-1(080430)	OB-1(080908)	OB-1(070209)	OB-1(102209)	OB-1(052610)	OB-1 (052011)	OB-2 (10/13/04)	OB-2 (10/2/2006)	OB-2(040607)	OB-2(071008)	OB-2(080428)	OB-2 (080917)	OB-2(063009)
Sample Date	Units			11/1/2004	12/30/2004	9/26/2006	4/6/2007	10/9/2007	4/30/2008	9/8/2008	7/2/2009	10/22/2009	5/26/2010	5/20/2011	10/13/2004	10/2/2006	4/6/2007	10/8/2007	4/28/2008	9/17/2008	6/30/2009
SVOC BY SIM																					
Acenaphthene	ug/l	400	NS	NA	NA	< 0.017	< 0.019	< 0.018	< 0.017	< 0.016	< 0.016	< 0.03	< 0.043	< 0.014	NA	< 0.02	< 0.019	< 0.019	< 0.016	< 0.016	< 0.017
Acenaphthylene	ug/l	NS	NS	NA	NA	< 0.0095	< 0.011	< 0.01	< 0.0076	< 0.007	< 0.007	< 0.041	< 0.058	< 0.016	NA	< 0.011	< 0.011	< 0.011	< 0.007	< 0.007	< 0.0076
Anthracene	ug/l	2000	NS	NA	NA	< 0.021	< 0.023	< 0.022	< 0.023	< 0.021	< 0.021	< 0.026	< 0.038	< 0.01	NA	< 0.025	< 0.023	< 0.023	< 0.021	< 0.021	< 0.023
Benzo(a)anthracene	ug/l	0.1 [0.2]	NS	NA	NA	< 0.0068	< 0.0076	< 0.0072	< 0.037	< 0.034	< 0.034	< 0.024	< 0.035	< 0.015	NA	< 0.0081	< 0.0076	< 0.0076	< 0.034	< 0.034	< 0.037
Benzo(a)pyrene	ug/l	0.1 [0.2]	0.2	NA	NA	< 0.017	< 0.019	< 0.018	< 0.039	< 0.036	< 0.036	< 0.032	< 0.045	< 0.0049	NA	< 0.02	< 0.019	< 0.019	< 0.036	< 0.036	< 0.039
Benzo(b)fluoranthene	ug/l	0.2 [10]	NS	NA	NA	< 0.036	< 0.04	< 0.038	< 0.018	< 0.017	< 0.017	< 0.037	< 0.053	< 0.016	NA	< 0.043	< 0.041	< 0.04	< 0.017	< 0.017	< 0.018
Benzo(g,h,i)perylene	ug/l	NS	NS	NA	NA	< 0.018	< 0.02	< 0.019	< 0.013	< 0.012	< 0.012	< 0.03	< 0.042	< 0.01	NA	< 0.021	< 0.02	< 0.02	< 0.012	< 0.012	< 0.013
Benzo(k)fluoranthene	ug/l	0.5	NS	NA	NA	< 0.016	< 0.017	< 0.017	< 0.02	< 0.019	< 0.019	< 0.029	< 0.041	< 0.013	NA	< 0.019	< 0.018	< 0.017	< 0.019	< 0.019	< 0.02
Chrysene	ug/l	5	NS	NA	NA	< 0.017	< 0.019	< 0.018	< 0.019	< 0.018	< 0.018	< 0.023	< 0.032	< 0.023	NA	< 0.02	< 0.019	< 0.019	< 0.018	< 0.018	< 0.019
Dibenzo(a,h)anthracene	ug/l	0.3 [0.5]	NS	NA	NA	< 0.016	< 0.018	< 0.017	< 0.022	< 0.02	< 0.02	< 0.023	< 0.033	< 0.023	NA	< 0.02	< 0.018	< 0.018	< 0.02	< 0.02	< 0.022
Fluoranthene	ug/l	300	NS	NA	NA	< 0.009	< 0.01	< 0.0095	< 0.01	< 0.0096	< 0.0096	< 0.025	< 0.036	< 0.0096	NA	< 0.011	< 0.01	< 0.01	< 0.0096	< 0.0096	< 0.01
Fluorene	ug/l	300	NS	NA	NA	< 0.02	< 0.022	< 0.021	< 0.021	< 0.02	< 0.02	< 0.028	< 0.04	< 0.015	NA	< 0.024	< 0.023	< 0.022	< 0.02	< 0.02	< 0.021
Hexachlorobenzene	ug/l	0.02 [10]	1	NA	NA	< 0.061	< 0.022	< 0.021	< 0.011 J	< 0.0099	< 0.0099	< 0.01	< 0.015	< 0.008	NA	< 0.073	< 0.022	< 0.022	< 0.0099	< 0.0099	< 0.011
Indeno(1,2,3-cd)pyrene	ug/l	0.2 [10]	NS	NA	NA	< 0.011	< 0.012	< 0.012	< 0.016	< 0.014	< 0.014	< 0.03	< 0.043	< 0.011	NA	< 0.013	< 0.012	< 0.012	< 0.014	< 0.014	< 0.016
Naphthalene	ug/l	300	NS	NA	NA	< 0.026	< 0.029	< 0.027	< 0.015	< 0.014	< 0.014	< 0.019	< 0.027	< 0.016	NA	< 0.031	< 0.029	< 0.029	< 0.014	< 0.014	< 0.015
Pentachlorophenol	ug/l	0.3 [1]	1	NA	NA	< 0.4	< 0.33	R	< 0.24 J	< 0.22	< 0.22	< 0.23	< 0.1	< 0.29	NA	< 0.47 **	< 0.34	R	< 0.22	< 0.22	< 0.24
Phenanthrene	ug/l	NS	NS	NA	NA	< 0.021	< 0.023	< 0.022	< 0.018	< 0.017	< 0.017	< 0.037	< 0.053	< 0.016	NA	< 0.025	< 0.024	< 0.023	< 0.017	< 0.017	< 0.018
Pyrene	ug/l	200	NS	NA	NA	< 0.014	< 0.016	< 0.015	< 0.013	< 0.012	< 0.012	< 0.023	< 0.033	< 0.0081	NA	< 0.017	< 0.016	< 0.016	< 0.012	< 0.012	< 0.013
PCBs																					
PCB 1016	ug/l	0.5	0.5	< 0.5	< 0.075	< 0.094	< 0.1	< 0.094	< 0.1	< 0.096	< 0.19	< 0.3	< 0.4	< 0.13	< 0.075 J	< 0.094	< 0.094	< 0.1	< 0.094	< 0.094	< 0.21
PCB 1221	ug/l	0.5	0.5	< 0.5	< 0.085	< 0.47	< 0.5	< 0.47	< 0.5	< 0.48	< 0.31	< 0.41	< 0.55	< 0.27	< 0.085	< 0.47	< 0.47	< 0.51	< 0.47	< 0.47	< 0.35
PCB 1232	ug/l	0.5	0.5	< 0.5	< 0.12	< 0.39	< 0.41	< 0.39	< 0.41	< 0.4	< 0.21	< 0.31	< 0.41	< 0.39	< 0.12	< 0.39	< 0.39	< 0.42	< 0.39	< 0.39	< 0.23
PCB 1242	ug/l	0.5	0.5	< 0.5	< 0.13	< 0.16	< 0.17	< 0.16	< 0.17	< 0.17	< 0.089	< 0.27	< 0.36	< 0.086	< 0.13	< 0.16	< 0.16	< 0.18	< 0.16	< 0.16	< 0.1
PCB 1248	ug/l	0.5	0.5	< 0.5	< 0.072	< 0.15	< 0.16	< 0.15	< 0.16	< 0.16	< 0.25	< 0.28	< 0.37	< 0.15	< 0.072	< 0.15	< 0.15	< 0.16	< 0.15	< 0.15	< 0.29
PCB 1254	ug/l	0.5	0.5	< 0.5	< 0.072	< 0.11	< 0.12	< 0.11	< 0.12	< 0.11	< 0.11	< 0.18	< 0.24	< 0.14	< 0.072	< 0.11	< 0.11	< 0.12	< 0.11	< 0.11	< 0.13
PCB 1260	ug/l	0.5	0.5	< 0.5	< 0.1	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.14	< 0.14	< 0.19	< 0.21	< 0.1	< 0.12	< 0.12	< 0.13	< 0.12	< 0.12	< 0.16
Total PCBs	ug/l	0.5	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pesticides/Herbicides																					
4,4-DDD	ug/l	0.1	NS	< 0.02	< 0.017	< 0.0024	NA	NA	NA	NA	NA	NA	NA	NA	< 0.017	< 0.0024	NA	NA	NA	NA	NA
4,4-DDE	ug/l	0.1	NS	< 0.02	< 0.0041	< 0.0017	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0041	< 0.0017	NA	NA	NA	NA	NA
4,4-DDT	ug/l	0.1	NS	< 0.02 J	< 0.018	< 0.0049	NA	NA	NA	NA	NA	NA	NA	NA	< 0.018	< 0.0049	NA	NA	NA	NA	NA
Aldrin	ug/l	0.04	NS	< 0.02	< 0.0079	< 0.0033	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0079	< 0.0033	NA	NA	NA	NA	NA
alpha-BHC	ug/l	0.02	NS	< 0.02	< 0.013	< 0.0026	NA	NA	NA	NA	NA	NA	NA	NA	< 0.013	< 0.0026	NA	NA	NA	NA	NA
alpha-Chlordane	ug/l	NS	NS	< 0.02	< 0.018	< 0.0044	NA	NA	NA	NA	NA	NA	NA	NA	< 0.018	< 0.0044	NA	NA	NA	NA	NA
beta-BHC	ug/l	0.04	NS	< 0.02	< 0.0086	< 0.0062	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0086	< 0.0062	NA	NA	NA	NA	NA
delta-BHC	ug/l	NS	NS	< 0.02	< 0.0098	< 0.0031	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0098	< 0.0031	NA	NA	NA	NA	NA
Dieldrin	ug/l	0.03	NS	< 0.02	< 0.013	< 0.0017	NA	NA	NA	NA	NA	NA	NA	NA	< 0.013	< 0.0017	NA	NA	NA	NA	NA
Endosulfan I (alpha)	ug/l	40	NS	< 0.02	< 0.0029	< 0.0021	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0029	< 0.0021	NA	NA	NA	NA	NA
Endosulfan II (beta)	ug/l	40	NS	< 0.02	< 0.0028	< 0.0032	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0028	< 0.0032	NA	NA	NA	NA	NA
Endosulfan sulfate	ug/l	40	NS	< 0.02	< 0.013	< 0.0046	NA	NA	NA	NA	NA	NA	NA	NA	< 0.013	< 0.0046	NA	NA	NA	NA	NA
Endrin	ug/l	2	2	< 0.02 J	< 0.011	< 0.003	NA	NA	NA	NA	NA	NA	NA	NA	< 0.011	< 0.003	NA	NA	NA	NA	NA
Endrin Aldehyde	ug/l	NS	NS	< 0.02	< 0.02	< 0.0064	NA	NA	NA	NA	NA	NA	NA	NA	< 0.02	< 0.0064	NA	NA	NA	NA	NA
Endrin ketone	ug/l	NS	NS	< 0.05	< 0.0053	< 0.0035	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0053	< 0.0035	NA	NA	NA	NA	NA
gamma-Chlordane	ug/l	NS	NS	< 0.02	< 0.013	< 0.0017	NA	NA	NA	NA	NA	NA	NA	NA	< 0.013	< 0.0017	NA	NA	NA	NA	NA
Heptachlor	ug/l	0.05	0.4	< 0.02	< 0.0059	< 0.0026	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0059	< 0.0026	NA	NA	NA	NA	NA
Heptachlor epoxide	ug/l	0.2	0.2	< 0.02	< 0.011	< 0.0015	NA	NA	NA	NA	NA	NA	NA	NA	< 0.011	< 0.0015	NA	NA	NA	NA	NA
Lindane	ug/l	0.03	0.2	< 0.02	< 0.0026	< 0.0017	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0026	< 0.0017	NA	NA	NA	NA	NA
Methoxychlor	ug/l	40	40	< 0.05	< 0.012	< 0.0068	NA	NA	NA	NA	NA	NA	NA	NA	< 0.012	< 0.0068	NA	NA	NA	NA	NA
Toxaphene	ug/l	2	3	< 0.25	< 0.25	< 0.094	NA	NA	NA	NA	NA	NA	NA	NA	< 0.25	< 0.094	NA	NA	NA	NA	NA

Location ID		GWQS[1]	EPA	OB-01	OB-01	OB-01	OB-01	OB-01	OB-01	OB-01	OB-01	OB-01	OB-01	OB-01	OB-02	OB-02	OB-02	OB-02	OB-02	OB-02	OB-02
Sample ID			MCLs	OB-1(110104)	OB-1 (123004)	OB-1 (9/26/2006)	OB-1(040607)	OB-1(071009)	OB-1(080430)	OB-1(080908)	OB-1(070209)	OB-1(102209)	OB-1(052610)	OB-1 (052011)	OB-2 (10/13/04)	OB-2 (10/2/2006)	OB-2(040607)	OB-2(071008)	OB-2(080428)	OB-2 (080917)	OB-2(063009)
Sample Date	Units			11/1/2004	12/30/2004	9/26/2006	4/6/2007	10/9/2007	4/30/2008	9/8/2008	7/2/2009	10/22/2009	5/26/2010	5/20/2011	10/13/2004	10/2/2006	4/6/2007	10/8/2007	4/28/2008	9/17/2008	6/30/2009
Metals - Total																					
Aluminum	ug/l	200	NS	< 200	< 200	< 110	< 23	55.6 B	< 24	< 24	**776**	< 26	23.5 B	106 B	< 200	< 110	< 23	56.1 B	< 24	32.1 B	< 26
Antimony	ug/l	6	6	< 5	< 5	< 4.4	< 5	< 0.9	< 1.8	< 1.8	< 4	< 2.9	< 2.2	< 1.3	< 5	< 4.4	< 5	< 0.9	< 1.8	< 1.8	< 4
Arsenic	ug/l	3 [8]	10	< 5	< 5	< 1.5 J	< 1.5	< 1.1	< 1.7	< 1.7	< 2.4	< 2.4	< 1.4	< 0.92	< 5	< 1.5	< 1.5	< 1.1	< 1.7	< 1.7	< 2.4
Barium	ug/l	6000	2000	< 200	< 200	7.3 B	3.2 B	6.1 B	4.3 B	5.5 B	5.3 BJ	5.8 B	< 200	3.5 B	< 200	5.7 B	4.7 B	6.8 B	4.5 B	7.2 BJ	5.4 BJ
Beryllium	ug/l	1	4	< 5	< 5	< 0.5	< 0.4	< 0.15	< 0.15	< 0.15	< 0.4	< 0.4	< 0.24	< 0.24	< 5	< 0.5	< 0.4	< 0.15	< 0.15	< 0.15	< 1
Cadmium	ug/l	4	5	< 4	< 4	< 0.6	< 1.3	< 0.24	< 0.28	< 0.28	< 3	< 0.4	< 0.35	< 0.17	< 4	< 0.6	< 1.3	< 0.24	< 0.28	< 0.28	< 0.4
Calcium	ug/l	NS	NS	5160	5310	5250	7790	13300	4060 BJ	7380	4600 B	6480	4310 BJ	22700	13800	9560	10200	17400	10000	10800	11900
Chromium	ug/l	70	100	< 10	< 10	< 1.6	< 0.8	< 0.53	< 0.53	< 0.53	< 10	< 0.9	< 0.59	< 0.9	< 10	< 1.6	< 0.8	< 0.53	0.8 B	0.7 B	< 10
Cobalt	ug/l	NS	NS	< 50	< 50	< 1.7	< 1.8	0.7 B	< 0.51	< 0.51	< 0.4	< 1.6	< 0.65	< 0.3	< 50	< 1.7	< 1.8	0.9 B	< 0.51	< 0.51	< 0.4
Copper	ug/l	1,300	1300	< 25	< 25	< 2.3	< 2.7	4.3 B	< 2.5	< 2.5	< 1.6	< 1.6	< 10	< 0.85	< 25	< 2.3	< 2.7	< 3.3	< 2.5 B	2.2 B	< 10
Iron	ug/l	300	NS	< 100	**869**	155	80.3 B	201	**649**	< 7.4	123 J	99.8 B	234	**413**	156	95.8 B	< 25	200 J	38.6 B	52.6 B	< 100
Lead	ug/l	5	15	< 3	< 3	< 2.6	< 2.8	< 0.94	< 1.4	< 1.4	< 1.7	< 1.7	< 1.9	1.2 B	< 3	< 2.6	3.2	< 0.94	1.8 B	< 1.4	< 1.7
Magnesium	ug/l	NS	NS	< 5000	< 5000	1830 B	1780 B	3190 BJ	1380 BJ	2340 B	1600 B	2090 B	1520 B	4440 B	< 5000	3720 B	3620 B	5820	3740 B	3860 B	4170 B
Manganese	ug/l	50	NS	< 15	< 15	2.9 BJ	1.4 B	2.4 B	2.6 BJ	< 0.24	< 15	< 15	4.4 J	4.6 B	< 15	1.5 B	0.72 B	8.7 BJ	1.3 B	2.2 B	< 15
Mercury	ug/l	2	2	< 0.2	< 0.2	< 0.08	0.088 B	< 0.15	< 0.15	< 0.049	< 0.049	< 0.082	0.18 B	< 0.088	< 0.2	< 0.08	0.077 B	< 0.15	< 0.15	< 0.049	< 0.049
Nickel	ug/l	100	NS	< 40	< 40	< 1.6	< 2.8	< 0.73	< 1.2	< 1.2	< 10	< 10	< 0.51	0.8 B	< 40	< 1.6	< 2.8	< 0.73	< 1.2	< 1.2	< 0.6
Potassium	ug/l	NS	NS	< 5000	< 5000	502 B	489 B	688 B	379 B	237 B	345 B	508 B	447 J	761 B	< 5000	1370 B	1370 B	1260 B	1140 B	1520 B	1580 B
Selenium	ug/l	40	50	< 5	< 5	< 3	< 6.2	< 0.73	< 1.6	< 1.6	< 10	< 3.7	< 1.9	< 1.5	< 5	3 B	< 6.2	0.9 B	< 1.6	< 1.6	< 3.7
Silver	ug/l	40	NS	< 10	< 10	< 1.9	< 1	< 0.83	< 1	< 1	< 1	< 1	< 0.53	< 0.72	< 10	< 1.9	< 1	< 0.83	< 1	< 1	< 1
Sodium	ug/l	50,000	NS	< 5000	< 5000	< 310	2680 BJ	2910 BJ	1610 B	2330 B	1670 BJ	2220 B	< 10000 J	3390 B	< 5000	< 310	3580 BJ	3910 B	3310 B	3540 BJ	3320 B
Thallium	ug/l	2 [10]	2	< 10	< 10	< 0.09	< 0.09	< 1.4	< 1.3	< 1.3	< 1.5	< 1.5	< 1.8	< 0.17	< 10	< 0.09	< 0.09	< 1.4	< 1.3	< 1.3	< 1.5
Vanadium	ug/l	NS	NS	< 50	< 50	< 1.9	< 1.8	< 0.49	0.6 B	< 0.43	< 0.9	< 0.9	< 0.56	< 0.43	< 50	< 1.9	< 1.8	< 0.49	< 0.43	< 0.43	< 0.9
Zinc	ug/l	2000	NS	< 20	< 20	< 3.3	< 3.4 J	< 2.7	< 4	< 4	< 2.9	< 2.9	< 20	4.5 B	< 20	< 3.3	< 3.4 J	< 2.7	5.6 B	< 4	< 2.9
Metals - Dissolved																					
Aluminum	ug/l	200	NS	< 200	< 200	< 110	< 23	< 26	< 24	< 24	< 200	< 26	< 7.8	24.7 B	< 200	< 110	< 23	< 26	< 24	< 24	< 26
Antimony	ug/l	6	6	< 5	< 5	< 4.4	< 5	< 0.9	< 1.8	< 1.8	4 BJ	< 2.9	< 2.2	< 1.3	< 5	< 4.4	< 5	< 0.9	< 1.8	< 1.8	< 4
Arsenic	ug/l	3 [8]	10	< 5	< 5	1.8 BJ	< 1.5	< 1.1	< 1.7	< 1.7	< 2.4	< 2.4	< 1.4	< 0.92	< 5	2	< 1.5	< 1.1	< 1.7	1.7 B	< 2.4
Barium	ug/l	6000	2000	< 200	< 200	5 B	3.6 B	5.2 B	5 B	5 B	5 BJ	5.6 B	< 200 J	3.2 B	< 200	4.9 B	4.9 B	8.8 B	4.1 B	7.8 BJ	5.2 BJ
Beryllium	ug/l	1	4	< 5	< 5	< 0.5	< 0.4	< 0.15	< 0.15	< 0.15	< 1	< 0.4	< 0.24	< 0.24	< 5	< 0.5	< 0.4	< 0.15	< 0.15	< 0.15	< 1
Cadmium	ug/l	4	5	< 4	< 4	< 0.6	< 1.3	< 0.24	< 0.28	< 0.28	< 0.4	< 0.4	< 0.35	< 0.17	< 4	< 0.6	< 1.3	< 0.24	< 0.28	< 0.28	< 0.4
Calcium	ug/l	NS	NS	5460	< 5000	5140	7320	13200	3720 BJ	7130	4560 B	6360	4210 B	22600	12300	9460	10200	17600	9400	10700	11500
Chromium	ug/l	70	100	< 10	< 10	< 1.6	< 0.8	< 0.53	0.6 B	< 0.53	7.1 BJ	0.9 B	< 0.59	< 0.9	< 10	< 1.6	< 0.8	< 0.53	< 0.53	< 0.53	< 10
Cobalt	ug/l	NS	NS	< 50	< 50	< 1.7	< 1.8	0.6 B	< 0.51	< 0.51	< 0.4	< 1.6	< 0.65	< 0.3	< 50	< 1.7	< 1.8	1.1 B	< 0.51	< 0.51	< 0.4
Copper	ug/l	1,300	1300	< 25	< 25	< 2.3	< 2.7	3.8 B	< 2.5	< 2.5	< 1.6	< 1.6	< 2.5	< 0.85	< 25	< 2.3	< 2.7	< 3.3	< 2.5 B	1.7 B	< 10
Iron	ug/l	300	NS	< 100	< 100	< 67	< 25	< 6.3	12.5 B	< 7.4	< 100	< 12	< 18	8.4 B	< 100	67.3 B	< 25	14.9 BJ	8.8 B	8 B	< 100
Lead	ug/l	5	15	< 3	< 3	< 2.6	< 2.8	< 0.94	< 1.4	< 1.4	< 1.7	< 1.7	< 1.9	< 0.94	< 3	< 2.6	< 2.8	< 0.94	< 1.4	< 1.4	< 1.7
Magnesium	ug/l	NS	NS	< 5000	< 5000	1790 B	1690 B	3270 BJ	1250 BJ	2280 B	1530 B	2020 B	1470 B	4400 B	< 5000	3770 B	3700 B	5940	3580 B	3810 B	3980 B
Manganese	ug/l	50	NS	< 15	< 15	3.7 BJ	1.1 B	< 0.17	1.9 BJ	< 0.24	4 BJ	< 15	< 0.46	1.3 B	< 15	1.5 B	0.83 B	3.3 BJ	0.5 B	1 B	< 15
Mercury	ug/l	2	2	< 0.2	< 0.2	< 0.08	0.048 B	< 0.15	< 0.15	< 0.049	< 0.049	< 0.082 J	< 0.082	< 0.088	< 0.2	< 0.08	0.083 B	< 0.15	< 0.15	< 0.049	< 0.049
Nickel	ug/l	100	NS	< 40	< 40	< 1.6	< 2.8	< 0.73	1.6 B	< 1.2	< 10	< 10	< 0.51	0.5 B	< 40	< 1.6	< 2.8	< 0.73	< 1.2	2 B	< 0.6
Potassium	ug/l	NS	NS	< 5000	< 5000	508 B	480 B	706 B	374 B	238 B	459 B	487 B	496 J	754 B	< 5000	1320 B	1400 B	1300 B	1080 B	1510 B	1570 B
Selenium	ug/l	40	50	< 5	< 5	< 3	< 6.2	< 0.73	< 1.6	< 1.6	< 3.7	< 3.7	< 1.9	< 1.5	< 5	< 3	< 6.2	1.3 B	< 1.6	< 1.6	< 3.7
Silver	ug/l	40	NS	< 10	< 10	< 1.9	< 1	< 0.83	< 1	< 1	< 1	< 1	< 0.53	< 0.72	< 10	< 1.9	< 1	< 0.83	< 1	1 B	< 1
Sodium	ug/l	50,000	NS	< 5000	< 5000	< 310	2670 BJ	2780 BJ	1450 B	2240 B	1850 B	2180 B	< 10000 J	3370 B	< 5000	< 310	3670 BJ	3920 B	3100 B	3520 BJ	3300 B
Thallium	ug/l	2 [10]	2	< 10	< 10	< 0.09	< 0.09	< 1.4	< 1.3	< 1.3	< 1.5	< 1.5	< 1.8	< 0.17	< 10	0.3 B	< 0.09	< 1.4	< 1.3	< 1.3	< 1.5
Vanadium	ug/l	NS	NS	< 50	< 50	< 1.9	< 1.8	< 0.49	0.6 B	< 0.43	< 0.9	< 0.9	< 0.56	< 0.43	< 50	< 1.9	< 1.8	< 0.49	< 0.43	< 0.43	< 0.9
Zinc	ug/l	2000	NS	< 20	< 20	< 3.3	7.8 BJ	< 2.7	< 4	5.7 B	9.6 BJ	< 2.9	5 J	11 B	< 20	< 3.3	7.1 BJ	< 2.7	< 4	6.9 B	< 20
Other																					
Alkalinity, Bicarbonate	ug/l	NS	NS	NA	NA	9100	20600	29700	8900	14600	NA	NA	NA	NA	NA	32200	25200	53500	26600	29700	NA
Alkalinity, Carbonate	ug/l	NS	NS	NA	NA	< 5000	< 5000	< 5000	< 5000	< 5000	NA	NA	NA	NA	NA	< 5000	< 5000	< 5000	< 5000	< 5000	NA
Alkalinity, total (as CaCO3)	ug/l	NS	NS	NA	NA	NA	20600	29700	8900	14600	10500	16400	11400	65900	NA	32300	25200	53500	26600	29700	36700
BOD, 5 Day	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromide	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	ug/l	250000	NS	NA	NA	3600	< 2000	6000	< 2000	3300	< 2000	2800	< 2000	3800	NA	< 2000	2000	< 2000	2100	< 2000	< 2000
COD	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide	ug/l	100	200	< 10	< 10	< 10	< 10	< 10	< 10 J	< 10	NA	NA	NA	NA	R	< 10	< 10	< 10	< 10	< 10	NA
Nitrate	ug/l	10000	10000	NA	NA	< 110	< 110	< 110	< 110	< 110	NA	NA	NA	NA	NA	1100	1300	2400	730	2100	NA
Nitrogen, Nitrate + Nitrite	ug/l	10000	NS	NA	NA	< 100	< 100	< 100	< 100	< 100	NA	NA	NA	NA	NA	1100	1300	2400	730	2100	NA
Nitrogen, Nitrite	ug/l	1000	1000	NA	NA	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	NA
Phosphorus, Total	ug/l	NS	NS	NA	NA	< 50	< 50	< 50	< 50	< 50	NA	NA	NA	NA	NA	< 50	< 50	< 50	< 50	< 50	NA
Sulfate	ug/l	250000	NS	NA	NA	8900	< 10000	11200	< 10000	10000	< 10000	10000	< 10000	12700	NA	12500	17300	17000	14300	13200	18400
Total Dissolved Solids	ug/l	500000	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total organic carbon	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See footnotes on last page

Location ID		GWQS[1]	EPA	OB-02	OB-02	OB-02	OB-03	OB-03	OB-03	OB-03	OB-03	OB-03	OB-03	OB-03	OB-03	OB-03	OB-04	OB-04	OB-04	OB-04	OB-04	OB-04
Sample ID			MCLs	OB-2(102009)	OB-2(052510)	OB-2(051611)	OB-3 (10/13/04)	OB-3	OB-3(040307)	OB-3(071008)	OB-3(080428)	OB-3(080909)	OB-3(063009)	OB-3(102009)	OB-3(052510)	OB-3(151711)	OB-4 (10/14/04)	OB-4	OB-4(040607)	OB-4(071009)	OB-4(080428)	OB-4(080910)
Sample Date	Units			10/20/2009	5/25/2010	5/16/2011	10/13/2004	9/28/2006	4/3/2007	10/8/2007	4/28/2008	9/9/2008	6/30/2009	10/20/2009	5/25/2010	5/17/2011	10/14/2004	9/29/2006	4/6/2007	10/9/2007	4/28/2008	9/10/2008
VOC																						
1,1,1,2-Tetrachloroethane	ug/l	1	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/l	30	200	< 0.26	< 0.26	< 0.2	< 0.5	< 0.28	< 0.28	< 0.3	< 0.24	< 0.24	< 0.26	< 0.26	< 0.26	< 0.2	< 0.5	< 0.28	< 0.28	< 0.3	< 0.24	< 0.24
1,1,2,2-Tetrachloroethane	ug/l	1	NS	< 0.24	< 0.24	< 0.12	< 0.3	< 0.28	< 0.28	< 0.8	< 0.13	< 0.13	< 0.24	< 0.24	< 0.24	< 0.12	< 0.3	< 0.28	< 0.28	< 0.8	< 0.13	< 0.13
1,1,2-Trichloroethane	ug/l	3	5	< 0.23	< 0.23	< 0.13	< 0.5	< 0.32	< 0.32	< 0.49	< 0.17	< 0.17	< 0.23	< 0.23	< 0.23	< 0.13	< 0.5	< 0.32	< 0.32	< 0.49	< 0.17	< 0.17
1,1-Dichloroethane	ug/l	50	NS	< 0.29	< 0.29	< 0.16	< 0.5	< 0.23	< 0.23	< 0.2	< 0.16	< 0.24	< 0.29	< 0.29	< 0.29	< 0.16	< 0.5	< 0.23	< 0.23	< 0.2	< 0.16	< 0.24
1,1-Dichloroethene	ug/l	1	7	< 0.4	< 0.4	< 0.24	< 0.5	< 0.33	< 0.33	< 0.28	< 0.29	< 0.29	< 0.4	< 0.4	< 0.4	< 0.24	< 0.5	< 0.33	< 0.33	< 0.28	< 0.29	< 0.29
1,2,4-Trichlorobenzene	ug/l	9	70	< 0.56	< 0.56	< 0.16	< 0.5	< 0.16	< 0.16	< 0.41	< 1.3	< 1.3	< 0.56	< 0.56	< 0.56	< 0.16	< 0.5	< 0.16	< 0.16	< 0.41	< 1.3	< 1.3
1,2-Dibromo-3-Chloropropane (DBCP)	ug/l	0.02 [1]	0.2	< 1.1	< 1.1	< 1.2	< 1	< 1.1	< 1.1	< 0.8	< 2.4	< 1.3	< 1.1	< 1.1	< 1.1	< 1.2 J	< 1	< 1.1	< 1.1	< 0.8	< 2.4	< 1.3
1,2-Dibromoethane	ug/l	0.03 [0.5]	0.05	< 0.39	< 0.39	< 0.39	< 0.5	< 0.52	< 0.52	< 0.45	< 0.17	< 0.18	< 0.39	< 0.39	< 0.39	< 0.39	< 0.5	< 0.52	< 0.52	< 0.45	< 0.17	< 0.18
1,2-Dichlorobenzene	ug/l	600	600	< 0.26	< 0.26	< 0.15	< 0.5	< 0.2	< 0.2	< 0.2	< 0.18	< 0.18	< 0.26	< 0.26	< 0.26	< 0.15	< 0.5	< 0.2	< 0.2	< 0.2	< 0.18	< 0.18
1,2-Dichloroethane	ug/l	2	5	< 0.33	< 0.33	< 0.31	< 0.5	< 0.29	< 0.29	< 0.29	< 0.35	< 0.35	< 0.33	< 0.33	< 0.33	< 0.31	< 0.5	< 0.29	< 0.29	< 0.29	< 0.35	< 0.35
1,2-Dichloropropane	ug/l	1	5	< 0.27	< 0.27	< 0.23	< 0.5	< 0.2	< 0.2	< 0.24	< 0.18	< 0.18	< 0.27	< 0.27	< 0.27	< 0.23	< 0.5	< 0.2	< 0.2	< 0.24	< 0.18	< 0.18
1,3-Dichlorobenzene	ug/l	600	NS	< 0.25	< 0.25	< 0.19	< 0.5	< 0.32	< 0.32	< 0.21	< 0.26	< 0.26	< 0.25	< 0.25	< 0.25	< 0.19	< 0.5	< 0.32	< 0.32	< 0.21	< 0.26	< 0.26
1,4-Dichlorobenzene	ug/l	75	75	< 0.28	< 0.28	< 0.22	< 0.5	< 0.24	< 0.24	< 0.17	< 0.32	< 0.22	< 0.28	< 0.28	< 0.28	< 0.22	< 0.5	< 0.24	< 0.24	< 0.17	< 0.32	< 0.22
2-Butanone (MEK)	ug/l	300	NS	< 1.6	< 1.6	< 1.7	< 2.5	< 2.6	< 2.6	< 2.7	< 2.3	< 2.3	< 1.6	< 1.6	< 1.6	< 1.7	< 2.5	< 2.6	< 2.6	< 2.7	< 2.3	< 2.3
2-Hexanone	ug/l	NS	NS	< 1.4	< 1.4	< 1.9	< 2.5	< 1.3	< 1.3	< 0.94	< 1.7	< 1.7	< 1.4	< 1.4	< 1.4	< 1.9	< 2.5	< 1.3	< 1.3	< 0.94	< 1.7	< 1.7
4-methyl-2-pentanone (MIBK)	ug/l	NS	NS	< 0.86	< 0.86	< 0.74	< 2.5	< 1.1	< 1.1	< 1.4	< 1.9	< 1.3	< 0.86	< 0.86	< 0.86	< 0.74	< 2.5	< 1.1	< 1.1	< 1.4	< 1.9	< 1.3
Acetone	ug/l	6000	NS	< 2.9	< 2.9	< 4.4	< 5	< 2.4	< 2.4	< 2.9	< 2.1	< 2.1	< 2.9	< 2.9	< 2.9	< 4.4	< 5	< 2.4	< 2.4	< 2.9	< 2.1	< 2.1
Benzene	ug/l	1	5	< 0.23	< 0.23	< 0.26	< 0.5	< 0.21	< 0.21	< 0.19	< 0.26	< 0.26	< 0.23	< 0.23	< 0.23	< 0.26	< 0.5	< 0.21	< 0.21	< 0.19	< 0.26	< 0.26
Bromodichloromethane	ug/l	1	80	< 0.22	< 0.22	< 0.18	< 0.5	< 0.17	< 0.17	< 0.15	< 0.14	< 0.14	< 0.22	< 0.22	< 0.22	< 0.18	< 0.5	< 0.17	< 0.17	< 0.15	< 0.14	< 0.14
Bromoform	ug/l	4	80	< 0.23	< 0.23	< 0.42	< 0.5	< 0.54	< 0.54	< 0.34	< 0.18	< 0.18	< 0.23	< 0.23	< 0.23	< 0.42	< 0.5	< 0.54	< 0.54	< 0.34	< 0.18	< 0.18
Bromomethane	ug/l	10	NS	< 0.3	< 0.3	< 0.24	< 1	< 0.22	< 0.22	< 0.38	< 0.32	< 0.32	< 0.3	< 0.3	< 0.3	< 0.24	< 1 J	< 0.22	< 0.22	< 0.38	< 0.32	< 0.32
Carbon disulfide	ug/l	700	NS	< 0.74	< 0.74	< 0.13	< 1	< 0.21	< 0.21	< 0.14	< 0.15	< 0.16	< 0.74	< 0.74	< 0.74	< 0.13	< 1	< 0.21	< 0.21	< 0.14	< 0.15	< 0.16
Carbon tetrachloride	ug/l	1	5	< 0.26	< 0.26	< 0.35	< 0.5	< 0.29 J	< 0.29	< 0.19	< 0.18	< 0.18	< 0.26	< 0.26	< 0.26	< 0.35	< 0.5	< 0.29 J	< 0.29	< 0.19	< 0.18	< 0.18
Chlorobenzene	ug/l	50	100	< 0.39	< 0.39	< 0.15	< 0.5	< 0.22	< 0.22	< 0.19	< 0.14	< 0.19	< 0.39	< 0.39	< 0.39	< 0.15	< 0.5	< 0.22	< 0.22	< 0.19	< 0.14	< 0.19
Chloroethane	ug/l	NS	NS	< 0.37	< 0.37	< 0.25	< 1	< 0.56	< 0.56	< 0.67	< 0.22	< 0.22	< 0.37	< 0.37	< 0.37	< 0.25	< 1	< 0.56	< 0.56	< 0.67	< 0.22	< 0.22
Chloroform	ug/l	70	80	< 0.23	< 0.23	< 0.14	< 0.5	< 0.22	< 0.22	< 0.25	< 0.16	< 0.16	< 0.23	< 0.23	< 0.23	< 0.14	< 0.5	< 0.22	< 0.22	< 0.25	< 0.16	< 0.16
Chloromethane	ug/l	NS	NS	< 0.29	< 0.29	< 0.34	< 1	< 0.35	< 0.35	< 0.3	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.34	< 1	< 0.35	< 0.35	< 0.3	< 0.29	< 0.29
cis-1,2-Dichloroethene	ug/l	70	70	< 0.22	< 0.22	< 0.24	< 0.5	< 0.18	< 0.18	< 0.27	< 0.19	0.5 J	< 0.22	< 0.22	< 0.22	< 0.24	< 0.5	< 0.18	< 0.18	< 0.27	< 0.19	< 0.25
cis-1,3-Dichloropropene	ug/l	NS	NS	< 0.25	< 0.25	< 0.16	< 0.3	< 0.15	< 0.15	< 0.13	< 0.15	< 0.18	< 0.25	< 0.25	< 0.25	< 0.16	< 0.3	< 0.15	< 0.15	< 0.13	< 0.15	< 0.18
Cyclohexane	ug/l	NS	NS	< 1.9	< 1.9	< 0.43	< 0.5	< 0.5	< 0.5	< 0.85	< 0.85 J	< 0.85	< 1.9	< 1.9	< 1.9	< 0.43	< 0.5	< 0.5	< 0.5	< 0.85	< 0.85	< 0.85
Dibromochloromethane	ug/l	1	80	< 0.22	< 0.22	< 0.16	< 0.4	< 0.19	< 0.19	< 0.28	< 0.12	< 0.16	< 0.22	< 0.22	< 0.22	< 0.16	< 0.4	< 0.19	< 0.19	< 0.28	< 0.12	< 0.16
Dichlorodifluoromethane	ug/l	1,000	NS	< 0.92	< 0.92	< 0.39	< 0.5	< 0.75	< 0.75	< 1	< 0.88 J	< 0.88	< 0.92	< 0.92	< 0.92	< 0.39	< 0.5	< 0.75	< 0.75	< 1	< 0.88	< 0.88
Ethylbenzene	ug/l	700	700	< 0.27	< 0.27	< 0.31	< 0.5	< 0.2	< 0.2	< 0.21	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.31	< 0.5	< 0.2	< 0.2	< 0.21	< 0.27	< 0.27
Freon 113	ug/l	NS	NS	< 0.38	< 0.38	< 0.66	< 0.5	< 0.69	< 0.69	< 1.2	< 0.8 J	< 0.8	< 0.38	< 0.38	< 0.38	< 0.66	< 0.5	< 0.69	< 0.69	< 1.2	< 0.8	< 0.8
Isopropylbenzene	ug/l	700	NS	< 0.57	< 0.57	< 0.31	< 0.5	< 0.2	< 0.2	< 0.54	< 0.15	< 0.19	< 0.57	< 0.57	< 0.57	< 0.31	< 0.5	< 0.2	< 0.2	< 0.54	< 0.15	< 0.19
Methyl acetate	ug/l	7000	NS	< 1.5	< 1.5	< 1.3	< 5	< 2.1	< 2.1	< 1.6	< 2.5	< 1.7	< 1.5	< 1.5	< 1.5	< 1.3	< 5	< 2.1	< 2.1	< 1.6	< 2.5	< 1.7
Methyl tert butyl ether	ug/l	70	NS	< 0.23	< 0.23	< 0.2	< 0.5	< 0.31	< 0.31	< 0.2	< 0.14	< 0.16	< 0.23	< 0.23	< 0.23	< 0.2	1.3 J	0.64 J	0.47 J	< 0.2	< 0.14	< 0.16
Methylcyclohexane	ug/l	NS	NS	< 0.35	< 0.35	< 0.16	< 0.5	< 0.18	< 0.18	< 0.5	< 0.11 J	< 0.11	< 0.35	< 0.35	< 0.35	< 0.16	< 0.5	< 0.18	< 0.18	< 0.5	< 0.11	< 0.11
Methylene chloride	ug/l	3	5	< 0.3	< 0.3	< 0.2	1.3 J	< 0.27	< 0.27	< 0.21	< 0.16	< 0.16	< 0.3	< 0.3	< 0.3	< 0.2	< 1	< 0.27	< 0.27	< 0.21	< 0.16	< 0.16
o-Xylene	ug/l	NS	NS	< 0.25	NA	NA	NA	< 0.31	< 0.31	< 0.2	< 0.45	< 0.45	< 0.25	< 0.25	NA	NA	NA	< 0.31	< 0.31	< 0.2	< 0.45	< 0.45
Styrene	ug/l	100	100	< 0.58	< 0.58	< 0.48	< 0.5	< 0.16	< 0.16	< 0.2	< 0.11	< 0.17	< 0.58	< 0.58	< 0.58	< 0.48	< 0.5 J	< 0.16	< 0.16	< 0.2	< 0.11	< 0.17
Tertiary Butyl Alcohol	ug/l	100	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	ug/l	1	5	< 0.27	< 0.27	< 0.24	< 0.5	< 0.28	< 0.28	< 0.28	< 0.29	< 0.29	< 0.27	< 0.27	< 0.27	< 0.24	< 0.5	< 0.28	< 0.28	< 0.28	< 0.29	< 0.29
Toluene	ug/l	600	1000	< 0.3	< 0.3	< 0.27	< 0.5	< 0.2	< 0.2	< 0.21	< 0.15	< 0.15	< 0.3	< 0.3	< 0.3	< 0.27	< 0.5	< 0.2	< 0.2	< 0.21	< 0.15	< 0.15
Trans-1,2-dichloroethene	ug/l	100	100	< 0.25	< 0.25	< 0.3	< 0.5	< 0.42	< 0.42	< 0.32	< 0.16	< 0.16	< 0.25	< 0.25	< 0.25	< 0.3	< 0.5	< 0.42	< 0.42	< 0.32	< 0.16	< 0.16
trans-1,3-Dichloropropene	ug/l	NS	NS	< 0.21	< 0.21	< 0.22	< 0.3	< 0.2	< 0.2	< 0.17	< 0.11	< 0.15	< 0.21	< 0.21	< 0.21	< 0.22	< 0.3	< 0.2	< 0.2	< 0.17	< 0.11	< 0.15
Trichloroethene	ug/l	1	5	< 0.24	< 0.24	< 0.22	< 0.5	< 0.29	< 0.29	< 0.26	< 0.18	**13.7**	0.95 J	**2.1**	0.7 J	< 0.22	< 0.5	< 0.29	< 0.29	< 0.26	< 0.18	< 0.18
Trichlorofluoromethane	ug/l	2000	NS	< 0.54	< 0.54	0.3 J	< 0.6	< 0.25	< 0.25	< 0.26	< 0.25 J	< 0.25	< 0.54	< 0.54	< 0.54	< 0.23	< 0.6	< 0.25	< 0.25	< 0.26	< 0.25	< 0.25
Vinyl Chloride	ug/l	1	2	< 0.44	< 0.44	< 0.22	< 0.5	< 0.29	< 0.29	< 0.22	< 0.21	< 0.21	< 0.44	< 0.44	< 0.44	< 0.22	< 0.5	< 0.29	< 0.29	< 0.22	< 0.21	< 0.21
Xylene, -m,p	ug/l	NS	NS	< 0.25	NA	NA	NA	< 0.42	< 0.42	< 0.35	< 0.39	< 0.39	< 0.25	< 0.25	NA	NA	NA	< 0.42	< 0.42	< 0.35	< 0.39	< 0.39
Xylenes	ug/l	1,000	10000	< 0.25	< 0.25	< 0.28	< 1	< 0.31	< 0.31	< 0.2	< 0.39	< 0.39	< 0.25	< 0.25	< 0.25	< 0.28	< 1	< 0.31	< 0.31	< 0.2	< 0.39	< 0.39
Total TIC, Volatile	ug/l	NS	NS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Location ID		GWQS[1]	EPA	OB-02	OB-02	OB-02	OB-03	OB-03	OB-03	OB-03	OB-03	OB-03	OB-03	OB-03	OB-03	OB-04	OB-04	OB-04	OB-04	OB-04	OB-04
Sample ID			MCLs	OB-2(102009)	OB-2(052510)	OB-2(051611)	OB-3 (10/13/04)	OB-3	OB-3(040307)	OB-3(071008)	OB-3(080428)	OB-3(080909)	OB-3(063009)	OB-3(102009)	OB-3(052510)	OB-3(151711)	OB-4 (10/14/04)	OB-4	OB-4(040607)	OB-4(071009)	OB-4(080428)	OB-4(080910)
Sample Date	Units			10/20/2009	5/25/2010	5/16/2011	10/13/2004	9/28/2006	4/3/2007	10/8/2007	4/28/2008	9/9/2008	6/30/2009	10/20/2009	5/25/2010	5/17/2011	10/14/2004	9/29/2006	4/6/2007	10/9/2007	4/28/2008	9/10/2008
SVOC																						
1,1'-Biphenyl	ug/l	400	NS	< 0.42	< 0.5	< 0.43	< 0.29	< 0.33	< 0.37	< 0.35	< 0.24	< 0.59	< 0.48	< 0.47	< 0.48	< 0.47	< 0.29	< 0.37	< 0.37	< 0.38 J	< 0.22	< 0.6
1,2,4-Trichlorobenzene	ug/l	9	70	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	ug/l	600	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	ug/l	600	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	ug/l	75	75	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/l	700	NS	< 1.3	< 1.6	< 1.3	< 0.74	< 2	< 2.2	< 2.1	< 1.2	< 2.1	< 1.5	< 1.5	< 1.5	< 1.5	< 0.74	< 2.2	< 2.2	< 2.3 J	< 1.1	< 2.2
2,4,6-Trichlorophenol	ug/l	20	NS	< 1.2	< 1.5	< 1.2	< 0.8	< 1.3	< 1.4	< 1.4	< 1.1	< 1.7	< 1.4	< 1.4	< 1.4	< 1.4	< 0.8	< 1.4	< 1.4	< 1.5 J	< 1	< 1.7
2,4-Dichlorophenol	ug/l	20	NS	< 1.2	< 1.5	< 1.2	< 0.73	< 1.6	< 1.8	< 1.7	< 1.5	< 2.1	< 1.4	< 1.4	< 1.4	< 1.4	< 0.73	< 1.8	< 1.8	< 1.8 J	< 1.4	< 2.1
2,4-Dimethylphenol	ug/l	100	NS	< 1.7	< 2	< 1.7	< 1	< 1.7	< 1.9	< 1.8	< 1.8	< 2.1	< 1.9	< 1.8	< 1.9	< 1.8	< 1	< 1.8	< 1.9	< 1.9 J	< 1.7	< 2.2
2,4-Dinitrophenol	ug/l	40	NS	< 0.74	< 0.88	< 0.75	< 1.1	< 0.91	< 1	< 0.96	< 1.2	< 4.4	< 0.84	< 0.82	< 0.85	< 0.82	< 1.1	< 1	< 1	< 1 J	< 1.1	< 4.6
2,4-Dinitrotoluene	ug/l	NS	NS	< 0.22	< 0.26	< 0.22 J	< 0.78	< 0.88	< 0.98	< 0.92	< 0.59	< 0.48	< 0.25	< 0.24	< 0.25	< 0.24 J	< 0.78	< 0.97	< 0.98	< 1 J	< 0.54	< 0.5
2,6-Dinitrotoluene	ug/l	NS	NS	< 0.33	< 0.39	< 0.33	< 0.62	< 0.57	< 0.64	< 0.6	< 0.54	< 0.64	< 0.37	< 0.36	< 0.37	< 0.36	< 0.62	< 0.63	< 0.64	< 0.66 J	< 0.5	< 0.66
2-Chloronaphthalene	ug/l	600	NS	< 0.42	< 0.5	< 0.42	< 0.38	< 1	< 1.1	< 1.1	< 0.22	< 0.51	< 0.47	< 0.46	< 0.48	< 0.46	< 0.38	< 1.1	< 1.1	< 1.2 J	< 0.2	< 0.53
2-Chlorophenol	ug/l	40	NS	< 1.1	< 1.3	< 1.1	< 4.3	< 0.97	< 1.1	< 1	< 0.95	< 1.5	< 1.2	< 1.2	< 1.2	< 1.2	< 4.3	< 1.1	< 1.1	< 1.1 J	< 0.87	< 1.6
2-Methylnaphthalene	ug/l	NS	NS	< 0.66	< 0.78	< 0.67	< 0.72	< 0.42	< 0.46	< 0.44	< 0.83	< 0.46	< 0.75	< 0.73	< 0.76	< 0.73	< 0.72	< 0.46	< 0.46	< 0.48 J	< 0.76	< 0.48
2-Methylphenol	ug/l	NS	NS	< 1.1	< 1.3	< 1.1	< 0.72	< 1.4	< 1.5	< 1.5	< 1.1	< 1.5	< 1.3	< 1.2	< 1.3	< 1.2	< 0.72	< 1.5	< 1.5	< 1.6 J	< 1	< 1.5
2-Nitroaniline	ug/l	NS	NS	< 0.24	< 0.28	< 0.24	< 1.4	< 0.68	< 0.75	< 0.71	< 0.54	< 0.47	< 0.27	< 0.26	< 0.27	< 0.26	< 1.4	< 0.74	< 0.75	< 0.78 J	< 0.5	< 0.49
2-Nitrophenol	ug/l	NS	NS	< 1.2	< 1.5	< 1.3	< 0.73	< 1.8	< 2.1	< 1.9	< 1.6	< 2.1	< 1.4	< 1.4	< 1.4	< 1.4	< 0.73	< 2	< 2.1	< 2.1 J	< 1.5	< 2.1
3&4-Methylphenol	ug/l	NS	NS	< 1	< 1.2	< 1.1	< 0.7	< 1.3	< 1.4	< 1.4	< 1.2	< 1.6	< 1.2	< 1.2	< 1.2	< 1.2	< 0.7	< 1.4	< 1.4	< 1.5 J	< 1.1	< 1.6
3,3'-Dichlorobenzidine	ug/l	30	NS	< 0.3	< 0.35	< 0.3	< 0.39	< 1.2	< 1.4	< 1.3	< 1.1	< 4.8	< 0.34	< 0.33	< 0.34	< 0.33	< 0.39	< 1.4	< 1.4	< 1.4 J	< 0.97	< 5
3-Nitroaniline	ug/l	NS	NS	< 0.29	< 0.34	< 0.29	< 1.2	< 1.3	< 1.4	< 1.4	< 0.35	< 0.48	< 0.33	< 0.32	< 0.33	< 0.32	< 1.2	< 1.4	< 1.4	< 1.5 J	< 0.32	< 0.49
4,6-Dinitro-2-methylphenol	ug/l	NS	NS	< 0.51	< 0.61	< 0.52	< 0.65	< 0.74	< 0.82	< 0.78	< 2.4	< 1.2	< 0.58	< 0.57	< 0.59	< 0.57	< 0.65	< 0.81	< 0.82	< 0.85 J	< 2.2	< 1.3
4-Bromophenyl phenyl ether	ug/l	NS	NS	< 0.35	< 0.42	< 0.36	< 0.54	< 0.31	< 0.34	< 0.32	< 0.41	< 0.44	< 0.4	< 0.39	< 0.4	< 0.39	< 0.54	< 0.34	< 0.34	< 0.35 J	< 0.37	< 0.45
4-Chloro-3-Methylphenol	ug/l	NS	NS	< 1.1	< 1.3	< 1.1	< 4.7	< 1.2	< 1.3	< 1.3	< 1.3	< 2.4	< 1.2	< 1.2	< 1.2	< 1.2	< 4.7	< 1.3	< 1.3	< 1.4 J	< 1.2	< 2.5
4-Chloroaniline	ug/l	30	NS	< 0.25	< 0.3	< 0.26	< 0.43	< 0.41	< 0.45	< 0.43	< 0.38	< 0.36	< 0.29	< 0.28	< 0.29	< 0.28	< 0.43	< 0.45	< 0.45	< 0.47 J	< 0.35	< 0.37
4-Chlorophenyl phenyl ether	ug/l	NS	NS	< 0.35	< 0.42	< 0.36	< 1	< 0.44	< 0.49	< 0.46	< 0.32	< 0.48	< 0.4	< 0.39	< 0.41	< 0.39	< 1	< 0.48	< 0.49	< 0.51 J	< 0.29	< 0.5
4-Nitroaniline	ug/l	NS	NS	< 0.18	< 0.21	< 0.18	< 1.1	< 0.74	< 0.82	< 0.78	< 0.64	< 0.48	< 0.2	< 0.2	< 0.2	< 0.2	< 1.1	< 0.81	< 0.82	< 0.85 J	< 0.59	< 0.5
4-Nitrophenol	ug/l	NS	NS	< 0.83	< 0.99	< 0.84	< 2.3	< 0.86	< 0.96	< 0.91	< 1.7	< 2.4	< 0.94	< 0.92	< 0.95	< 0.92	< 2.3	< 0.95	< 0.96	< 0.99 J	< 1.6	< 2.5
Acenaphthene	ug/l	400	NS	NA	NA	NA	< 0.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.3	NA	NA	NA	NA	NA
Acenaphthylene	ug/l	NS	NS	NA	NA	NA	< 0.35	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.35	NA	NA	NA	NA	NA
Acetophenone	ug/l	700	NS	< 0.4	< 0.48	< 0.41	< 0.53	< 0.38	< 0.42	< 0.4	< 0.39	< 0.5	< 0.45	< 0.44	< 0.46	< 0.44	< 0.53	< 0.42	< 0.42	< 0.44 J	< 0.36	< 0.51
Anthracene	ug/l	2000	NS	NA	NA	NA	< 0.22	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.22	NA	NA	NA	NA	NA
Atrazine	ug/l	3	3	< 0.39	< 0.47	< 0.4	< 1.5	< 0.17	< 0.19	< 0.18	< 0.31	< 0.66	< 0.44	< 0.43	< 0.45	< 0.43	< 1.5	< 0.18	< 0.19	< 0.19 J	< 0.28	< 0.68
Benzaldehyde	ug/l	NS	NS	< 0.4	< 0.48	< 0.41	< 3.6	< 0.27	< 0.3	< 0.28	< 0.83	< 1.7	< 0.46	< 0.45	< 0.46	< 0.45	< 3.6	< 0.3	< 0.3	R	< 0.76	< 1.8
Benzo(a)anthracene	ug/l	0.1 [0.2]	NS	NA	NA	NA	< 0.27	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.27	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/l	0.1 [0.2]	0.2	NA	NA	NA	< 0.38	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.38	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/l	0.2 [10]	NS	NA	NA	NA	< 0.37	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.37	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/l	NS	NS	NA	NA	NA	< 0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.5	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/l	0.5	NS	NA	NA	NA	< 0.37	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.37	NA	NA	NA	NA	NA
Benzyl butyl phthalate	ug/l	100	NS	< 0.25	< 0.3	< 0.26	< 0.54	< 0.61	< 0.67	< 0.64	< 0.69	< 0.44	< 0.29	< 0.28	< 0.29	< 0.28	< 0.54	< 0.67	< 0.67	< 0.7 J	< 0.64	< 0.46
bis(2-Chloroethoxy)methane	ug/l	NS	NS	< 0.25	< 0.3	< 0.25	< 0.34	< 0.67	< 0.74	< 0.7	< 0.35	< 0.55	< 0.28	< 0.28	< 0.29	< 0.28	< 0.34	< 0.73	< 0.74	< 0.77 J	< 0.32	< 0.57
bis(2-Chloroethyl)ether	ug/l	7	NS	< 0.31	< 0.37	< 0.32	< 0.49	< 0.54	< 0.6	< 0.57	< 0.73	< 0.52	< 0.35	< 0.34	< 0.36	< 0.34	< 0.49	< 0.6	< 0.6	< 0.62 J	< 0.67	< 0.54
bis(2-Chloroisopropyl)ether	ug/l	300	NS	< 0.39	< 0.46	< 0.4	< 0.44	< 0.75	< 0.84	< 0.79	< 0.63	< 0.58	< 0.44	< 0.43	< 0.45	< 0.43	< 0.44	< 0.83	< 0.84	< 0.87 J	< 0.58	< 0.6
bis(2-Ethylhexyl)phthalate	ug/l	3	6	< 0.33	< 0.39	< 0.33	< 0.74	< 0.67	< 0.75	< 0.71	< 0.95	< 0.8	< 0.37	< 0.36	< 0.38	< 0.36	< 0.74	< 0.74	< 0.75	< 0.78 J	< 0.88	< 0.82
Caprolactam	ug/l	NS	NS	< 0.2	< 0.23	< 0.2	< 0.44	< 0.32	< 0.36	< 0.34	< 0.53	< 0.67	< 0.22	< 0.22	< 0.22	< 0.22	< 0.44	< 0.35	< 0.36	< 0.37 J	< 0.49	< 0.69
Carbazole	ug/l	NS	NS	< 0.17	< 0.2	< 0.17	< 0.34	< 0.37	< 0.41	< 0.39	< 0.43	< 0.48	< 0.19	< 0.18	< 0.19	< 0.18	< 0.34	< 0.41	< 0.41	< 0.43 J	< 0.4	< 0.49
Chrysene	ug/l	5	NS	NA	NA	NA	< 0.26	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.26	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	ug/l	0.3 [0.5]	NS	NA	NA	NA	< 0.58	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.58	NA	NA	NA	NA	NA
Dibenzofuran	ug/l	NS	NS	< 0.3	< 0.36	< 0.31	< 0.49	< 0.35	< 0.39	< 0.37	< 0.25	< 0.52	< 0.35	< 0.34	< 0.35	< 0.34	< 0.49	< 0.39	< 0.39	< 0.4 J	< 0.23	< 0.54
Diethyl phthalate	ug/l	6000	NS	< 0.17	< 0.2	< 0.17	< 1.4	< 0.4	< 0.44	< 0.42	< 0.37	< 0.38	< 0.19	< 0.18	< 0.19	< 0.18	< 1.4	< 0.44	< 0.44	< 0.46 J	< 0.34	< 0.4
Dimethyl phthalate	ug/l	NS	NS	< 0.23	< 0.27	< 0.23	< 0.58	< 0.33	< 0.37	< 0.35	< 0.37	< 0.38	< 0.26	< 0.25	< 0.26	< 0.25	< 0.58	< 0.37	< 0.37	< 0.39 J	< 0.34	< 0.4
di-n-butyl phthalate	ug/l	700	NS	< 0.19	< 0.23	< 0.19	< 0.79	< 0.6	< 0.67	< 0.64	< 0.43	< 0.53	< 0.22	< 0.21	< 0.22	< 0.21	< 0.79	< 0.67	< 0.67	< 0.7 J	< 0.4	< 0.55
di-n-octylphthalate	ug/l	100	NS	< 0.4	< 0.47	< 0.4	< 0.63	< 0.58	< 0.65	< 0.61	< 0.52	< 0.53	< 0.45	< 0.44	< 0.45	< 0.44	< 0.63	< 0.64	< 0.65	< 0.67 J	< 0.48	< 0.55
Fluoranthene	ug/l	300	NS	NA	NA	NA	< 0.63	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.63	NA	NA	NA	NA	NA
Fluorene	ug/l	300	NS	NA	NA	NA	< 0.89	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.89	NA	NA	NA	NA	NA
Hexachlorobenzene	ug/l	0.02 [10]	1	NA	NA	NA	< 1.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.2	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/l	1	NS	< 0.37	< 0.15	< 0.13	< 0.41	< 0.18	< 0.2 J	< 0.19	< 0.14	< 0.4	< 0.42	< 0.41	< 0.15	< 0.14	< 0.41	< 0.2	< 0.2	R	< 0.13	< 0.41
Hexachlorocyclopentadiene	ug/l	40	50	< 0.67	< 0.29	< 0.25	< 0.45	< 0.42	< 0.46	< 0.44	< 0.11	< 4.8	< 0.76	< 0.75	< 0.28	< 0.27	< 0.45	< 0.46	< 0.46	< 0.48 J	< 0.1	< 5
Hexachloroethane	ug/l	7	NS	< 0.26	< 0.25	< 0.21	< 0.67	< 0.29	< 0.32 J	< 0.3	< 0.18	< 0.32	< 0.3	< 0.29	< 0.24	< 0.23	< 0.67	< 0.32	< 0.32	< 0.33 J	< 0.16	< 0.33
Indeno(1,2,3-cd)pyrene	ug/l	0.2 [10]	NS	NA	NA	NA	< 1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.5	NA	NA	NA	NA	NA
Isophrone	ug/l	40	NS	< 0.25	< 0.3	< 0.25	< 0.54	< 0.6	< 0.67	< 0.63	< 0.53	< 0.74	< 0.28	< 0.28	< 0.29	< 0.28	< 0.54	< 0.66	< 0.67	< 0.69 J	< 0.49	< 0.76
Naphthalene	ug/l	300	NS	NA	NA	NA	< 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1	NA	NA	NA	NA	NA
Nitrobenzene	ug/l	6	NS	< 0.25	< 0.3	< 0.26	< 0.61	< 0.43	< 0.48	< 0.45	< 0.77	< 0.7	< 0.29	< 0.28	< 0.29	< 0.28	< 0.61	< 0.47	< 0.48	< 0.49 J	< 0.71	< 0.72
N-Nitroso-di-n-Propylamine	ug/l	10	NS	< 0.44	< 0.52	< 0.45	< 0.5	< 0.48	< 0.53	< 0.5	< 0.42	< 0.42	< 0.5	< 0.49	< 0.5	< 0.49	< 0.5	< 0.53	< 0.53	< 0.55 J	< 0.38	< 0.43
N-Nitrosodiphenylamine	ug/l	10	NS	< 0.22	< 0.26	< 0.22	< 0.8	< 0.53	< 0.59	< 0.55	< 0.45	< 0.65	< 0.24	< 0.24	< 0.25	< 0.24	< 0.8	< 0.58	< 0.59	< 0.61 J	< 0.41	< 0.67
Pentachlorophenol	ug/l	0.3 [1]	1	NA	NA	NA	< 0.75	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.75	NA	NA	NA	NA	NA
Phenanthrene	ug/l	NS	NS	NA	NA	NA	< 0.23	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.23	NA	NA	NA	NA	NA
Phenol	ug/l	2000	NS	< 0.58	< 0.69	< 0.59	< 1.8	< 0.51	< 0.56	< 0.53	< 0.74	< 1.4	< 0.66	< 0.64	< 0.66	< 0.64	< 1.8	< 0.56	< 0.56	< 0.58 J	< 0.68	< 1.5
Pyrene	ug/l	200	NS	NA	NA	NA	< 0.58	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.58	NA	NA	NA	NA	NA
Total TIC, Semi-Volatile	ug/l	NS	NS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	55 J	349.9 J	0 J	0	21 J

Location ID		GWQS[1]	EPA	OB-02	OB-02	OB-02	OB-03	OB-03	OB-03	OB-03	OB-03	OB-03	OB-03	OB-03	OB-03	OB-04	OB-04	OB-04	OB-04	OB-04	OB-04
Sample ID			MCLs	OB-2(102009)	OB-2(052510)	OB-2(051611)	OB-3 (10/13/04)	OB-3	OB-3(040307)	OB-3(071008)	OB-3(080428)	OB-3(080909)	OB-3(063009)	OB-3(102009)	OB-3(052510)	OB-3(151711)	OB-4 (10/14/04)	OB-4	OB-4(040607)	OB-4(071009)	OB-4(080428)	OB-4(080910)
Sample Date	Units			10/20/2009	5/25/2010	5/16/2011	10/13/2004	9/28/2006	4/3/2007	10/8/2007	4/28/2008	9/9/2008	6/30/2009	10/20/2009	5/25/2010	5/17/2011	10/14/2004	9/29/2006	4/6/2007	10/9/2007	4/28/2008	9/10/2008
SVOC BY SIM																						
Acenaphthene	ug/l	400	NS	< 0.029	< 0.035	< 0.014	NA	< 0.017	< 0.019	< 0.018	< 0.017	< 0.016	< 0.018	< 0.032	< 0.033	< 0.015	NA	< 0.02	< 0.019	< 0.018	< 0.016	< 0.018
Acenaphthylene	ug/l	NS	NS	< 0.039	< 0.047	< 0.016	NA	< 0.0097	< 0.011	< 0.01	< 0.0076	< 0.007	< 0.0078	< 0.044	< 0.045	< 0.018	NA	< 0.011	< 0.011	< 0.01	< 0.007	< 0.0077
Anthracene	ug/l	2000	NS	< 0.026	< 0.03	< 0.01	NA	< 0.021	< 0.024	< 0.022	< 0.023	< 0.021	< 0.023	< 0.028	< 0.029	< 0.011	NA	< 0.025	< 0.024	< 0.022	< 0.021	< 0.023
Benzo(a)anthracene	ug/l	0.1 [0.2]	NS	< 0.024	< 0.028	< 0.015	NA	< 0.0069	< 0.0077	< 0.0073	< 0.037	< 0.034	< 0.037	< 0.026	< 0.027	< 0.017	NA	< 0.0081	< 0.0077	< 0.0072	< 0.034	< 0.037
Benzo(a)pyrene	ug/l	0.1 [0.2]	0.2	< 0.031	< 0.037	< 0.005	NA	< 0.017	< 0.019	< 0.018	< 0.039	< 0.036	< 0.039	< 0.034	< 0.035	< 0.0054	NA	< 0.02	< 0.019	< 0.018	< 0.036	< 0.039
Benzo(b)fluoranthene	ug/l	0.2 [10]	NS	< 0.036	< 0.043	< 0.017	NA	< 0.037	< 0.041	< 0.039	< 0.018	< 0.017	< 0.019	< 0.04	< 0.041	< 0.018	NA	< 0.043	< 0.041	< 0.038	< 0.017	< 0.019
Benzo(g,h,i)perylene	ug/l	NS	NS	< 0.029	< 0.034	< 0.011	NA	< 0.018	< 0.02	< 0.019	< 0.013	< 0.012	< 0.013	< 0.032	< 0.033	< 0.011	NA	< 0.021	< 0.02	< 0.019	< 0.012	< 0.013
Benzo(k)fluoranthene	ug/l	0.5	NS	< 0.028	< 0.034	< 0.013	NA	< 0.016	< 0.018	< 0.017	< 0.02	< 0.019	< 0.021	< 0.031	< 0.032	< 0.014	NA	< 0.019	< 0.018	< 0.017	< 0.019	< 0.021
Chrysene	ug/l	5	NS	< 0.022	< 0.026	< 0.024	NA	< 0.017	< 0.019	< 0.018	< 0.019	< 0.018	< 0.02	< 0.024	< 0.025	< 0.026	NA	< 0.02	< 0.019	< 0.018	< 0.018	< 0.019
Dibenzo(a,h)anthracene	ug/l	0.3 [0.5]	NS	< 0.023	< 0.027	< 0.023	NA	< 0.017	< 0.019	< 0.018	< 0.022	< 0.02	< 0.022	< 0.025	< 0.026	< 0.025	NA	< 0.02	< 0.019	< 0.017	< 0.02	< 0.022
Fluoranthene	ug/l	300	NS	< 0.024	< 0.029	< 0.0098	NA	< 0.0092	< 0.01	< 0.0097	< 0.01	< 0.0096	< 0.011	< 0.027	< 0.028	< 0.011	NA	< 0.011	< 0.01	< 0.0095	< 0.0096	< 0.011
Fluorene	ug/l	300	NS	< 0.027	< 0.032	< 0.015	NA	< 0.021	< 0.023	< 0.022	< 0.021	< 0.02	< 0.022	< 0.03	< 0.031	< 0.017	NA	< 0.024	< 0.023	< 0.021	< 0.02	< 0.022
Hexachlorobenzene	ug/l	0.02 [10]	1	< 0.0099	< 0.012	< 0.0082	NA	< 0.062	< 0.023	< 0.022	< 0.011	< 0.0099	< 0.011	< 0.011	< 0.011	< 0.0089	NA	< 0.073	< 0.023	< 0.021	< 0.0099	< 0.011
Indeno(1,2,3-cd)pyrene	ug/l	0.2 [10]	NS	< 0.029	< 0.035	< 0.011	NA	< 0.011	< 0.013	< 0.012	< 0.016	< 0.014	< 0.016	< 0.032	< 0.034	< 0.012	NA	< 0.013	< 0.013	< 0.012	< 0.014	< 0.016
Naphthalene	ug/l	300	NS	< 0.019	< 0.022	< 0.017	NA	< 0.026	< 0.029	< 0.028	< 0.015	< 0.014	< 0.015	< 0.021	< 0.021	< 0.018	NA	< 0.031	1.12	< 0.027	< 0.014	< 0.015
Pentachlorophenol	ug/l	0.3 [1]	1	< 0.22	< 0.081	< 0.29	NA	< 0.4	< 0.34	R	< 0.24	< 0.22	< 0.25	< 0.25	< 0.078	< 0.32	NA	< 0.47 **	< 0.34	R	< 0.22	< 0.25
Phenanthrene	ug/l	NS	NS	< 0.036	< 0.043	< 0.016	NA	< 0.022	< 0.024	< 0.023	< 0.018	< 0.017	< 0.019	< 0.04	< 0.041	< 0.017	NA	< 0.025	< 0.024	< 0.022	< 0.017	< 0.019
Pyrene	ug/l	200	NS	< 0.022	< 0.026	< 0.0083	NA	< 0.014	< 0.016	< 0.015	< 0.013	< 0.012	< 0.013	< 0.025	< 0.025	< 0.009	NA	< 0.017	< 0.016	< 0.015	< 0.012	< 0.013
PCBs																						
PCB 1016	ug/l	0.5	0.5	< 0.33	< 0.32	< 0.13	< 0.075	< 0.098	< 0.11	< 0.1	< 0.099	< 0.11 J	< 0.21	< 0.36	< 0.3	< 0.14	< 0.084	< 0.1	< 0.094	< 0.1	< 0.094	< 0.094
PCB 1221	ug/l	0.5	0.5	< 0.45	< 0.44	< 0.29	< 0.085	< 0.49	< 0.53	< 0.5	< 0.49	< 0.53 J	< 0.34	< 0.49	< 0.41	< 0.29	< 0.094	< 0.52	< 0.47	< 0.52	< 0.47	< 0.47
PCB 1232	ug/l	0.5	0.5	< 0.34	< 0.33	< 0.41	< 0.12	< 0.41	< 0.44	< 0.41	< 0.41	< 0.44 J	< 0.23	< 0.37	< 0.31	< 0.42	< 0.14	< 0.43	< 0.39	< 0.43	< 0.39	< 0.39
PCB 1242	ug/l	0.5	0.5	< 0.3	< 0.29	< 0.091	< 0.13	< 0.17	< 0.18	< 0.17	< 0.17	< 0.18 J	< 0.099	< 0.32	< 0.27	< 0.093	< 0.15	< 0.18	< 0.16	< 0.18	< 0.16	< 0.16
PCB 1248	ug/l	0.5	0.5	< 0.31	< 0.3	< 0.15	< 0.072	< 0.16	< 0.17	< 0.16	< 0.16	< 0.17 J	< 0.28	< 0.33	< 0.28	< 0.16	< 0.08	< 0.17	< 0.15	< 0.17	< 0.15	< 0.15
PCB 1254	ug/l	0.5	0.5	< 0.2	< 0.19	< 0.15	< 0.072	< 0.11	< 0.12	< 0.12	< 0.11	< 0.12 J	< 0.12	< 0.21	< 0.18	< 0.15	< 0.08	< 0.12	< 0.11	< 0.12	< 0.11	< 0.11
PCB 1260	ug/l	0.5	0.5	< 0.15	< 0.15	< 0.22	< 0.1 J	< 0.12	< 0.13	< 0.12	< 0.12	< 0.13 J	< 0.16	< 0.17	< 0.14	< 0.23	< 0.11	< 0.13	< 0.12	< 0.13	< 0.12	< 0.12
Total PCBs	ug/l	0.5	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pesticides/Herbicides																						
4,4-DDD	ug/l	0.1	NS	NA	NA	NA	< 0.017	< 0.0025	NA	NA	NA	NA	NA	NA	NA	NA	< 0.018	< 0.0027	NA	NA	NA	NA
4,4-DDE	ug/l	0.1	NS	NA	NA	NA	< 0.0041	< 0.0017	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0045	< 0.0019	NA	NA	NA	NA
4,4-DDT	ug/l	0.1	NS	NA	NA	NA	< 0.018 J	< 0.0051	NA	NA	NA	NA	NA	NA	NA	NA	< 0.02	< 0.0055	NA	NA	NA	NA
Aldrin	ug/l	0.04	NS	NA	NA	NA	< 0.0079	< 0.0035	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0088	< 0.0037	NA	NA	NA	NA
alpha-BHC	ug/l	0.02	NS	NA	NA	NA	< 0.013	< 0.0027	NA	NA	NA	NA	NA	NA	NA	NA	< 0.014	< 0.0029	NA	NA	NA	NA
alpha-Chlordane	ug/l	NS	NS	NA	NA	NA	< 0.018	< 0.0045	NA	NA	NA	NA	NA	NA	NA	NA	< 0.02	< 0.0048	NA	NA	NA	NA
beta-BHC	ug/l	0.04	NS	NA	NA	NA	< 0.0086	< 0.0064	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0095	< 0.0069	NA	NA	NA	NA
delta-BHC	ug/l	NS	NS	NA	NA	NA	< 0.0098	< 0.0032	NA	NA	NA	NA	NA	NA	NA	NA	< 0.011	< 0.0034	NA	NA	NA	NA
Dieldrin	ug/l	0.03	NS	NA	NA	NA	< 0.013	< 0.0018	NA	NA	NA	NA	NA	NA	NA	NA	< 0.014	< 0.0019	NA	NA	NA	NA
Endosulfan I (alpha)	ug/l	40	NS	NA	NA	NA	< 0.0029	< 0.0022	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0033	< 0.0023	NA	NA	NA	NA
Endosulfan II (beta)	ug/l	40	NS	NA	NA	NA	< 0.0028	< 0.0034	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0031	< 0.0036	NA	NA	NA	NA
Endosulfan sulfate	ug/l	40	NS	NA	NA	NA	< 0.013	< 0.0048	NA	NA	NA	NA	NA	NA	NA	NA	< 0.015	< 0.0051	NA	NA	NA	NA
Endrin	ug/l	2	2	NA	NA	NA	< 0.011	< 0.0031	NA	NA	NA	NA	NA	NA	NA	NA	< 0.013	< 0.0033	NA	NA	NA	NA
Endrin Aldehyde	ug/l	NS	NS	NA	NA	NA	< 0.02	< 0.0067	NA	NA	NA	NA	NA	NA	NA	NA	< 0.022	< 0.0072	NA	NA	NA	NA
Endrin ketone	ug/l	NS	NS	NA	NA	NA	< 0.0053	< 0.0036	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0059	< 0.0039	NA	NA	NA	NA
gamma-Chlordane	ug/l	NS	NS	NA	NA	NA	< 0.013	< 0.0018	NA	NA	NA	NA	NA	NA	NA	NA	< 0.014	< 0.0019	NA	NA	NA	NA
Heptachlor	ug/l	0.05	0.4	NA	NA	NA	< 0.0059	< 0.0027	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0065	< 0.0028	NA	NA	NA	NA
Heptachlor epoxide	ug/l	0.2	0.2	NA	NA	NA	< 0.011	< 0.0015	NA	NA	NA	NA	NA	NA	NA	NA	< 0.012	< 0.0016	NA	NA	NA	NA
Lindane	ug/l	0.03	0.2	NA	NA	NA	< 0.0026	< 0.0018	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0029	< 0.0019	NA	NA	NA	NA
Methoxychlor	ug/l	40	40	NA	NA	NA	< 0.012 J	< 0.007	NA	NA	NA	NA	NA	NA	NA	NA	< 0.013	< 0.0075	NA	NA	NA	NA
Toxaphene	ug/l	2	3	NA	NA	NA	< 0.25	< 0.098	NA	NA	NA	NA	NA	NA	NA	NA	< 0.27	< 0.1	NA	NA	NA	NA

Table 15: Summary of Historical Ground Water Analytical Results, 2004-2011
Ringwood Mines/Landfill Site, Ringwood, New Jersey

Location ID		GWQS[1]	EPA	OB-02	OB-02	OB-02	OB-03	OB-03	OB-03	OB-03	OB-03	OB-03	OB-03	OB-03	OB-03	OB-03	OB-04	OB-04	OB-04	OB-04	OB-04	OB-04
Sample ID			MCLs	OB-2(102009)	OB-2(052510)	OB-2(051611)	OB-3 (10/13/04)	OB-3	OB-3(040307)	OB-3(071008)	OB-3(080428)	OB-3(080909)	OB-3(063009)	OB-3(102009)	OB-3(052510)	OB-3(151711)	OB-4 (10/14/04)	OB-4	OB-4(040607)	OB-4(071009)	OB-4(080428)	OB-4(080910)
Sample Date	Units			10/20/2009	5/25/2010	5/16/2011	10/13/2004	9/28/2006	4/3/2007	10/8/2007	4/28/2008	9/9/2008	6/30/2009	10/20/2009	5/25/2010	5/17/2011	10/14/2004	9/29/2006	4/6/2007	10/9/2007	4/28/2008	9/10/2008
Metals - Total																						
Aluminum	ug/l	200	NS	< 26	< 200	< 200	< 200	< 110	< 23	< 26	< 24	< 200	< 26	< 26	< 200	< 200	< 200	< 110	< 23	< 26	< 24	24.7 B
Antimony	ug/l	6	6	< 2.9	< 2.2	< 1.3	< 5	< 4.4	< 5	< 0.9	< 1.8	< 1.8	< 4	< 2.9	< 2.2	< 1.3	< 5	4.6 B	< 5	< 0.9	< 1.8	< 1.8
Arsenic	ug/l	3 [8]	10	< 2.4	< 1.4	< 0.92	< 5	< 1.5	< 1.5	< 1.1	< 1.7	< 1.7	< 2.4	< 2.4	< 1.4	< 0.92	< 5	< 1.5	< 1.5	< 1.1	< 1.7	< 1.7
Barium	ug/l	6000	2000	5.7 B	3.8 BJ	4.2 B	< 200	2.5 B	3.1 B	5.2 B	2.2 B	5.5 B	< 200	4.5 B	< 200 J	2.5 B	< 200	61.2 B	50.4 B	44.1 B	47.9 B	30.4 B
Beryllium	ug/l	1	4	< 0.4	< 0.24	< 0.24	< 5	< 0.5	< 0.4	< 0.15	< 0.15	< 0.15	< 1	< 0.4	< 0.24	< 0.24	< 5	< 0.5	< 0.4	< 0.15	< 0.15	< 0.15
Cadmium	ug/l	4	5	< 0.4	< 0.35	< 0.17	< 4	< 0.6	< 1.3	< 0.24	< 0.28	< 0.28	< 0.4	< 0.4	< 0.35	< 0.17	< 4	< 0.6	< 1.3	< 0.24	< 0.28	< 0.28
Calcium	ug/l	NS	NS	13600	8920	10600	8360	8780	9000	18600	7290	29700	14100	16100	13500	19400	65700	52600	52700	41400	48400	33000
Chromium	ug/l	70	100	< 0.9	< 0.59	2.6 J	< 10	< 1.6	< 0.8	< 0.53	< 0.53	< 0.53	< 10	< 0.9	< 0.59	< 0.9	< 10	< 1.6	< 0.8	< 0.53	< 0.53	0.7 B
Cobalt	ug/l	NS	NS	< 1.6	< 0.65	< 0.3	< 50	< 1.7	< 1.8	0.9 B	< 0.51	< 0.51	< 0.4	< 1.6	< 0.65	< 0.3	< 50	< 1.7	< 1.8	3.4 B	1.7 B	1.7 B
Copper	ug/l	1,300	1300	< 1.6	< 2.5	< 0.85	< 25	< 2.3	< 2.7	< 3.3	< 2.5 B	< 10	< 1.6	< 1.6	< 2.5	< 0.85	< 25	< 2.3	< 2.7	< 3.3	< 2.5 B	< 0.7
Iron	ug/l	300	NS	32.4 B	< 100	38.6 J	**2000**	**1540**	250	**1860 J**	**1710**	**590**	**1390**	**2550**	**2080**	**3090**	**7070**	**8480**	**19400**	**5700**	**3770**	**2540**
Lead	ug/l	5	15	< 1.7	< 1.9	1.3 B	< 3	< 2.6	< 2.8	< 0.94	< 1.4	< 1.4	< 1.7	< 1.7	< 1.9	< 0.94	< 3	< 2.6	4.1	< 0.94	1.6 B	< 1.4
Magnesium	ug/l	NS	NS	4740 B	3220 B	3640 B	< 5000	2900 B	2830 B	5230	2330 B	8580	3850 B	4750 B	3920 B	5260	19800	15900	16300	11900 J	14300	9040
Manganese	ug/l	50	NS	0.7 B	2.7 BJ	< 15 J	16	8.3 B	2 B	9 BJ	10.2 B	< 15	35.2	**1010**	34.2 J	20.3 J	**2720 J**	**2390**	**2100**	**1820**	**1840**	**680**
Mercury	ug/l	2	2	< 0.082	< 0.082	< 0.088	< 0.2	< 0.08	< 0.037 J	< 0.15	< 0.15	< 0.049	< 0.049	< 0.082	< 0.082	< 0.088	< 0.2	< 0.08	0.083 BJ	< 0.15	< 0.15	< 0.049
Nickel	ug/l	100	NS	< 0.6	< 10	1 J	< 40	< 1.6	< 2.8	< 0.73	< 1.2	< 1.2	< 0.6	2.4 B	< 0.51	< 10	< 40	3.3 B	< 2.8	1.3 B	< 1.2	1.3 B
Potassium	ug/l	NS	NS	1660 B	1150 BJ	1210 B	< 5000	927 B	755 B	967 B	668 B	1450 B	978 B	1160 B	910 BJ	911 B	< 5000	2680 B	2810 B	2290 B	2170 B	1760 B
Selenium	ug/l	40	50	< 3.7	< 1.9	< 1.5	< 5	< 3	< 6.2	1.2 B	< 1.6	< 1.6	< 3.7	< 3.7	< 1.9	< 1.5	< 5	< 3	< 6.2	< 0.73	< 1.6	< 1.6
Silver	ug/l	40	NS	< 1	< 0.53	< 0.72	< 10	< 1.9	< 1	< 0.83	< 1	< 1	< 1	< 1	< 0.53	< 0.72	< 10	< 1.9	< 1	< 0.83	< 1	< 1
Sodium	ug/l	50,000	NS	4110 B	3270 BJ	3080 B	< 5000	4190 BJ	4140 BJ	3340 B	2500 B	4330 B	3490 B	3760 B	3060 BJ	3380 B	**85700**	**71600 J**	**66800 J**	**54700 J**	**54300**	41300
Thallium	ug/l	2 [10]	2	< 1.5	< 1.8	< 0.17	< 10	< 0.09	< 0.09	< 1.4	< 1.3	< 1.3	< 1.5	< 1.5	< 1.8	< 0.17	< 10	< 0.09	< 0.09	< 1.4	< 1.3	< 1.3
Vanadium	ug/l	NS	NS	< 0.9	< 0.56	< 0.43	< 50	< 1.9	< 1.8	0.6 B	< 0.43	< 0.43	< 0.9	< 0.9	< 0.56	< 0.43	< 50	< 1.9	< 1.8	0.5 B	0.6 B	0.6 B
Zinc	ug/l	2000	NS	3.3 B	< 20	< 20	< 20	< 3.3	< 3.4 J	< 2.7	< 4	< 4	< 2.9	< 2.9	< 20	< 20	< 20	< 3.3	< 3.4 J	< 2.7	4 B	7.4 B
Metals - Dissolved																						
Aluminum	ug/l	200	NS	< 26	< 200	< 200	< 200	< 110	< 23	< 26	< 24	< 24	< 26	< 26	< 200	91.6 J	< 200	< 110	< 23	< 26	< 24	< 24
Antimony	ug/l	6	6	< 2.9	< 2.2	< 1.3	< 5	< 4.4	< 5	< 0.9	< 1.8	< 1.8	< 4	< 2.9	< 2.2	< 1.3	< 5	< 4.4	< 5	< 0.9	< 1.8	< 1.8
Arsenic	ug/l	3 [8]	10	< 2.4	< 1.4	< 0.92	< 5	< 1.5	< 1.5	< 1.1	< 1.7	< 1.7	< 2.4	< 2.4	< 1.4	< 0.92	< 5	< 1.5	< 1.5	< 1.1	< 1.7	< 1.7
Barium	ug/l	6000	2000	6 B	3.7 BJ	4.1 B	< 200	< 2.5	3.4 B	6.3 B	2.3 B	5.9 B	< 200	4.6 B	< 200 J	2.3 B	< 200	58.8 B	49 B	44 B	45.5 B	29.7 B
Beryllium	ug/l	1	4	< 0.4	< 0.24	< 0.24	< 5	< 0.5	< 0.4	< 0.15	< 0.15	< 0.15	< 1	< 0.4	< 0.24	< 0.24	< 5	< 0.5	< 0.4	< 0.15	< 0.15	< 0.15
Cadmium	ug/l	4	5	< 0.4	< 0.35	< 0.17	< 4	< 0.6	< 1.3	< 0.24	< 0.28	< 0.28	< 0.4	< 0.4	< 0.35	< 0.17	< 4	< 0.6	< 1.3	< 0.24	< 0.28	< 0.28
Calcium	ug/l	NS	NS	14200	8600	10200	8010	8680	9120	18500	7270	28000	13800	15900	13900	18400	65800	53100	52200	43500	48700	34000
Chromium	ug/l	70	100	< 0.9	0.8 B	< 0.83	< 10	< 1.6	< 0.8	< 0.53	< 0.53	< 0.53	< 10	< 0.9	< 0.59	< 0.9	< 10	< 1.6	< 0.8	< 0.53	< 0.53	0.8 B
Cobalt	ug/l	NS	NS	< 1.6	< 0.65	< 0.3	< 50	< 1.7	< 1.8	0.9 B	< 0.51	< 0.51	< 0.4	< 1.6	< 0.65	< 0.3	< 50	< 1.7	< 1.8	2.3 B	1.4 B	1.1 B
Copper	ug/l	1,300	1300	< 1.6	< 2.5	2 B	< 25	< 2.3	< 2.7	< 3.3	< 2.5 B	< 0.7	< 1.6	< 1.6	< 2.5	< 0.85	< 25	< 2.3	< 2.7	< 3.3	< 2.5 B	< 0.7
Iron	ug/l	300	NS	< 12	< 100	< 100	< 100	81.1 B	96 B	47.7 BJ	91.1 B	< 7.4	290 J	**632**	< 100	46.6 J	**6080**	**6380**	**18000**	**675**	11 B	**1010**
Lead	ug/l	5	15	< 1.7	< 1.9	< 1.1	< 3	< 2.6	< 2.8	< 0.94	< 1.4	< 1.4	< 1.7	< 1.7	< 1.9	< 0.94	< 3	< 2.6	< 2.8	< 0.94	< 1.4	< 1.4
Magnesium	ug/l	NS	NS	4970 B	3030 B	3570 B	< 5000	2710 B	2860 B	5220	2290 B	8080	3710 B	4710 B	3950 B	4980 B	19800	15800	16100	12700 J	14500	9350
Manganese	ug/l	50	NS	0.6 B	1.2 BJ	< 15	< 15	3.8 BJ	2.1 B	6.5 BJ	9.4 B	< 15	32.9	**1080**	26.5 J	8 J	**2720 J**	**2370**	**2070**	**1870**	**1840**	**684**
Mercury	ug/l	2	2	< 0.082	< 0.082	< 0.088	< 0.2	< 0.08	0.053 BJ	< 0.15	< 0.15	< 0.049	< 0.049	< 0.082	< 0.082	< 0.088	< 0.2	< 0.08	0.11 BJ	0.2 B	< 0.15	0.05 B
Nickel	ug/l	100	NS	< 0.6	< 10	1 J	< 40	< 1.6	< 2.8	< 0.73	< 1.2	< 1.2	< 0.6	2.5 B	< 10	< 10	< 40	< 1.6	< 2.8	0.8 B	1.6 B	< 1.2
Potassium	ug/l	NS	NS	1740 B	1120 BJ	1120 B	< 5000	848 B	741 B	947 B	650 B	1450 B	965 B	1150 B	920 BJ	861 B	< 5000	2600 B	2770 B	2430 B	2160 B	1750 B
Selenium	ug/l	40	50	< 3.7	< 1.9	< 1.5	< 5	< 3	< 6.2	0.8 B	< 1.6	< 1.6	< 3.7	< 3.7	< 1.9	< 1.5	< 5	< 3	< 6.2	< 0.73	< 1.6	< 1.6
Silver	ug/l	40	NS	< 1	< 0.53	< 0.66	< 10	< 1.9	< 1	< 0.83	< 1	< 1	1 B	< 1	< 0.53	< 0.72	< 10	< 1.9	< 1	< 0.83	< 1	< 1
Sodium	ug/l	50,000	NS	4290 B	3050 BJ	2970 B	< 5000	4020 BJ	4040 BJ	3340 B	2440 B	4110 B	3530 B	3780 B	3100 BJ	3270 B	**87200**	**69300 J**	**65500 J**	**56200 J**	**55000**	41800
Thallium	ug/l	2 [10]	2	< 1.5	< 1.8	< 2	< 10	< 0.09	< 0.09	< 1.4	< 1.3	< 1.3	< 1.5	< 1.5	< 1.8	< 0.17	< 10	< 0.09	< 0.09	< 1.4	< 1.3	< 1.3
Vanadium	ug/l	NS	NS	< 0.9	< 0.56	< 0.7	< 50	< 1.9	< 1.8	< 0.49	< 0.43	< 0.43	< 0.9	< 0.9	< 0.56	< 0.43	< 50	< 1.9	< 1.8	< 0.49	< 0.43	< 0.43
Zinc	ug/l	2000	NS	4.4 B	< 20	< 20	< 20	< 3.3	6.2 BJ	< 2.7	4.5 B	< 4	< 20	2.9 B	< 20	< 20	< 20	< 3.3	11 BJ	< 2.7	< 4	5.4 B
Other																						
Alkalinity, Bicarbonate	ug/l	NS	NS	NA	NA	NA	NA	23100	23500	52500	17200	61600	NA	NA	NA	NA	NA	112000	121000	104000	94300	78300
Alkalinity, Carbonate	ug/l	NS	NS	NA	NA	NA	NA	< 5000	< 5000	< 5000	< 5000	< 5000	NA	NA	NA	NA	NA	< 5000	< 5000	< 5000	< 5000	< 5000
Alkalinity, total (as CaCO3)	ug/l	NS	NS	40900	27500	25900	NA	NA	23500	52500	17200	61600	48900	49100	63200	56700	NA	NA	121000	104000	94400	78300
BOD, 5 Day	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromide	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	ug/l	250000	NS	< 2000	< 2000	2100	NA	2500	< 2000	< 2000	< 2000	3400	2300	< 2000	< 2000	2200	NA	174000	185000	121000	139000	79400
COD	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide	ug/l	100	200	NA	NA	NA	R	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	R	< 10	< 10	< 10	< 10	< 10
Nitrate	ug/l	10000	10000	NA	NA	NA	NA	430	150	1200	< 110	2200	NA	NA	NA	NA	NA	< 110	< 110	< 110	< 110	< 110
Nitrogen, Nitrate + Nitrite	ug/l	10000	NS	NA	NA	NA	NA	430	150	1200	< 100	2200	NA	NA	NA	NA	NA	< 100	< 100	< 100	< 100	< 100
Nitrogen, Nitrite	ug/l	1000	1000	NA	NA	NA	NA	< 10	< 10 J	< 10	< 10	< 10	NA	NA	NA	NA	NA	< 10	< 10	< 10	< 10	< 10
Phosphorus, Total	ug/l	NS	NS	NA	NA	NA	NA	< 50	< 50	< 50	< 50	< 50	NA	NA	NA	NA	NA	62	< 50	120	< 50	< 50
Sulfate	ug/l	250000	NS	16900	13200	15600	NA	13100	12800	19100	11200	41300	15300	18900	14500	14400	NA	24300	< 10000	19100	28300	19600
Total Dissolved Solids	ug/l	500000	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total organic carbon	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See footnotes on last page

R2-0005367

Location ID		GWQS[1]	EPA	OB-04	OB-04	OB-04	OB-04	OB-05	OB-05	OB-05	OB-05	OB-05	OB-05	OB-05	OB-05	OB-05	OB-06	OB-06	OB-06	OB-06
Sample ID			MCLs	OB-4(070109)	OB-4(102109)	OB-4(052610)	OB-4(051711)	OB-5 (10/15/04)	OB-5 (10/2/2006)	OB-5(040407)	OB-5(071009)	OB-5(080428)	OB-5(080909)	OB-5(070109)	OB-5(102109)	OB-5(052610)	OB-5(051711)	OB-6 (11/2/04)	OB-6 (123004)	OB-6	OB-6(040607)
Sample Date	Units			7/1/2009	10/21/2009	5/26/2010	5/17/2011	10/15/2004	10/2/2006	4/4/2007	10/9/2007	4/28/2008	9/9/2008	7/1/2009	10/21/2009	5/26/2010	5/17/2011	11/2/2004	12/30/2004	9/26/2006	4/6/2007
VOC																					
1,1,1,2-Tetrachloroethane	ug/l	1	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/l	30	200	< 0.26	< 0.26	< 0.26	< 0.2	< 0.5	< 0.28	< 0.28	< 0.3	< 0.24	< 0.24	< 0.26	< 0.26	< 0.26	< 0.2	< 0.25	< 0.25	< 0.28	< 0.28
1,1,2,2-Tetrachloroethane	ug/l	1	NS	< 0.24	< 0.24	< 0.24	< 0.12	< 0.3	< 0.28	< 0.28	< 0.8	< 0.13	< 0.13	< 0.24	< 0.24	< 0.24	< 0.12	< 0.14	< 0.14	< 0.28	< 0.28
1,1,2-Trichloroethane	ug/l	3	5	< 0.23	< 0.23	< 0.23	< 0.13	< 0.5	< 0.32	< 0.32	< 0.49	< 0.17	< 0.17	< 0.23	< 0.23	< 0.23	< 0.13	< 0.17	< 0.17	< 0.32	< 0.32
1,1-Dichloroethane	ug/l	50	NS	< 0.29	< 0.29	< 0.29	< 0.16	< 0.5	< 0.23	< 0.23	< 0.2	< 0.16	< 0.24	< 0.29	< 0.29	< 0.29	< 0.16	< 0.13	< 0.13	< 0.23	< 0.23
1,1-Dichloroethene	ug/l	1	7	< 0.4	< 0.4	< 0.4	< 0.24	< 0.5	< 0.33	< 0.33	< 0.28	< 0.29	< 0.29	< 0.4	< 0.4	< 0.4	< 0.24	< 0.81	< 0.81	< 0.33	< 0.33
1,2,4-Trichlorobenzene	ug/l	9	70	< 0.56	< 0.56	< 0.56	< 0.16	< 0.5	< 0.16	< 0.16	< 0.41	< 1.3	< 1.3	< 0.56	< 0.56	< 0.56	< 0.16	< 0.61	< 0.61	< 0.16	< 0.16
1,2-Dibromo-3-Chloropropane (DBCP)	ug/l	0.02 [1]	0.2	< 1.1	< 1.1	< 1.1	< 1.2	< 1	< 1.1	< 1.1	< 0.8	< 2.4	< 1.3	< 1.1	< 1.1	< 1.1	< 1.2	< 1.1	< 1.1	< 1.1	< 1.1
1,2-Dibromoethane	ug/l	0.03 [0.5]	0.05	< 0.39	< 0.39	< 0.39	< 0.39	< 0.5	< 0.52	< 0.52	< 0.45	< 0.17	< 0.18	< 0.39	< 0.39	< 0.39	< 0.39	< 0.47	< 0.47	< 0.52	< 0.52
1,2-Dichlorobenzene	ug/l	600	600	< 0.26	< 0.26	< 0.26	< 0.15	< 0.5	< 0.2	< 0.2	< 0.2	< 0.18	< 0.18	< 0.26	< 0.26	< 0.26	< 0.15	< 0.19	< 0.19	< 0.2	< 0.2
1,2-Dichloroethane	ug/l	2	5	< 0.33	< 0.33	< 0.33	< 0.31	< 0.5	< 0.29	< 0.29	< 0.29	< 0.35	< 0.35	< 0.33	< 0.33	< 0.33	< 0.31	< 0.35	< 0.35	< 0.29	< 0.29
1,2-Dichloropropane	ug/l	1	5	< 0.27	< 0.27	< 0.27	< 0.23	< 0.5	< 0.2	< 0.2	< 0.24	< 0.18	< 0.18	< 0.27	< 0.27	< 0.27	< 0.23	< 0.11	< 0.11	< 0.2	< 0.2
1,3-Dichlorobenzene	ug/l	600	NS	< 0.25	< 0.25	< 0.25	< 0.19	< 0.5	< 0.32	< 0.32	< 0.21	< 0.26	< 0.26	< 0.25	< 0.25	< 0.25	< 0.19	< 0.18	< 0.18	< 0.32	< 0.32
1,4-Dichlorobenzene	ug/l	75	75	< 0.28	< 0.28	< 0.28	< 0.22	< 0.5	< 0.24	< 0.24	< 0.17	< 0.32	< 0.22	< 0.28	< 0.28	< 0.28	< 0.22	< 0.29	< 0.29	< 0.24	< 0.24
2-Butanone (MEK)	ug/l	300	NS	< 1.6	< 1.6	< 1.6	< 1.7	< 2.5	< 2.6	< 2.6	< 2.7	< 2.3	< 2.3	< 1.6	< 1.6	< 1.6	< 1.7	< 2.5	< 2.5	< 2.6	< 2.6
2-Hexanone	ug/l	NS	NS	< 1.4	< 1.4	< 1.4	< 1.9	< 2.5	< 1.3	< 1.3	< 0.94	< 1.7	< 1.7	< 1.4	< 1.4	< 1.4	< 1.9	< 0.73	< 0.73	< 1.3	< 1.3
4-methyl-2-pentanone (MIBK)	ug/l	NS	NS	< 0.86	< 0.86	< 0.86	< 0.74	< 2.5	< 1.1	< 1.1	< 1.4	< 1.9	< 1.3	< 0.86	< 0.86	< 0.86	< 0.74	< 0.59	< 0.59	< 1.1	< 1.1
Acetone	ug/l	6000	NS	< 2.9	< 2.9	< 2.9	< 4.4	< 5	< 2.4	< 2.4	< 2.9	< 2.1	< 2.1	< 2.9	< 2.9	< 2.9	< 4.4	< 2.3	< 2.3	< 2.4	< 2.4
Benzene	ug/l	1	5	< 0.23	< 0.23	< 0.23	< 0.26	< 0.5	< 0.21	< 0.21	< 0.19	< 0.26	< 0.26	< 0.23	< 0.23	< 0.23	< 0.26	< 0.31	< 0.31	< 0.21	< 0.21
Bromodichloromethane	ug/l	1	80	< 0.22	< 0.22	< 0.22	< 0.18	< 0.5	< 0.17	< 0.17	< 0.15	< 0.14	< 0.14	< 0.22	< 0.22	< 0.22	< 0.18	< 0.11	< 0.11	< 0.17	< 0.17
Bromoform	ug/l	4	80	< 0.23	< 0.23	< 0.23	< 0.42	< 0.5	< 0.54	< 0.54	< 0.34	< 0.18	< 0.18	< 0.23	< 0.23	< 0.23	< 0.42	< 0.17	< 0.17	< 0.54	< 0.54
Bromomethane	ug/l	10	NS	< 0.3	< 0.3	< 0.3	< 0.24	< 1	< 0.22	< 0.22	< 0.38	< 0.32	< 0.32	< 0.3	< 0.3	< 0.3	< 0.24	< 0.15	< 0.15	< 0.22	< 0.22
Carbon disulfide	ug/l	700	NS	< 0.74	< 0.74	< 0.74	< 0.13	< 1	< 0.21	< 0.21	< 0.14	< 0.15	< 0.16	< 0.74	< 0.74	< 0.74	< 0.13	< 0.23	< 0.23	< 0.21	< 0.21
Carbon tetrachloride	ug/l	1	5	< 0.26	< 0.26	< 0.26	< 0.35	< 0.5	< 0.29	< 0.29	< 0.19	< 0.18	< 0.18	< 0.26	< 0.26	< 0.26	< 0.35	< 0.15	< 0.15	< 0.29 J	< 0.29
Chlorobenzene	ug/l	50	100	< 0.39	< 0.39	< 0.39	< 0.15	< 0.5	< 0.22	< 0.22	< 0.19	< 0.14	< 0.19	< 0.39	< 0.39	< 0.39	< 0.15	< 0.23	< 0.23	< 0.22	< 0.22
Chloroethane	ug/l	NS	NS	< 0.37	< 0.37	< 0.37	< 0.25	< 1	< 0.56	< 0.56	< 0.67	< 0.22	< 0.22	< 0.37	< 0.37	< 0.37	< 0.25	< 0.73	< 0.73	< 0.56	< 0.56
Chloroform	ug/l	70	80	0.4 J	< 0.23	< 0.23	< 0.14	< 0.5	< 0.22	< 0.22	< 0.25	< 0.16	< 0.16	< 0.23	< 0.23	< 0.23	< 0.14	< 0.081	< 0.081	< 0.22	1.2
Chloromethane	ug/l	NS	NS	< 0.29	< 0.29	< 0.29	< 0.34	< 1	< 0.35	< 0.35	< 0.3	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.34	< 0.13	< 0.13	< 0.35	< 0.35
cis-1,2-Dichloroethene	ug/l	70	70	< 0.22	< 0.22	< 0.22	< 0.24	< 0.5	< 0.18	< 0.18	< 0.27	< 0.19	< 0.19	< 0.25	< 0.22	< 0.22	< 0.24	< 0.24	< 0.24	< 0.18	< 0.18
cis-1,3-Dichloropropene	ug/l	NS	NS	< 0.25	< 0.25	< 0.25	< 0.16	< 0.3	< 0.15	< 0.15	< 0.13	< 0.15	< 0.18	< 0.25	< 0.25	< 0.25	< 0.16	< 0.071	< 0.071	< 0.15	< 0.15
Cyclohexane	ug/l	NS	NS	< 1.9	< 1.9	< 1.9	< 0.43	< 0.5	< 0.5	< 0.5	< 0.85	< 0.85	< 0.85	< 1.9	< 1.9	< 1.9	< 0.43	< 0.17	< 0.17	< 0.5	< 0.5
Dibromochloromethane	ug/l	1	80	< 0.22	< 0.22	< 0.22	< 0.16	< 0.4	< 0.19	< 0.19	< 0.28	< 0.12	< 0.16	< 0.22	< 0.22	< 0.22	< 0.16	< 0.18	< 0.18	< 0.19	< 0.19
Dichlorodifluoromethane	ug/l	1,000	NS	< 0.92	< 0.92	< 0.92	< 0.39	< 0.5	< 0.75	< 0.75	< 1	< 0.88	< 0.88	< 0.92	< 0.92	< 0.92	< 0.39	< 0.62	< 0.62	< 0.75	< 0.75
Ethylbenzene	ug/l	700	700	< 0.27	< 0.27	< 0.27	< 0.31	< 0.5	< 0.2	< 0.2	< 0.21	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.31	< 0.27	< 0.27	< 0.2	< 0.2
Freon 113	ug/l	NS	NS	< 0.38	< 0.38	< 0.38	< 0.66	< 0.5	< 0.69	< 0.69	< 1.2	< 0.8	< 0.8	< 0.38	< 0.38	< 0.38	< 0.66	< 0.35	< 0.35	< 0.69	< 0.69
Isopropylbenzene	ug/l	700	NS	< 0.57	< 0.57	< 0.57	< 0.31	< 0.5	< 0.2	< 0.2	< 0.54	< 0.15	< 0.19	< 0.57	< 0.57	< 0.57	< 0.31	< 0.33	< 0.33	< 0.2	< 0.2
Methyl acetate	ug/l	7000	NS	< 1.5	< 1.5	< 1.5	< 1.3	< 5	< 2.1	< 2.1	< 1.6	< 2.5	< 1.7	< 1.5	< 1.5	< 1.5	< 1.3	< 0.63	< 0.63	< 2.1	< 2.1
Methyl tert butyl ether	ug/l	70	NS	< 0.23	< 0.23	< 0.23	< 0.2	5.1	5.7	3.3	5.3	3.2	3.9	2.4	2.1	1.7	0.68 J	< 0.28	< 0.28	< 0.31	< 0.31
Methylcyclohexane	ug/l	NS	NS	< 0.35	< 0.35	< 0.35	< 0.16	< 0.5	< 0.18	< 0.18	< 0.5	< 0.11	< 0.11	< 0.35	< 0.35	< 0.35	< 0.16	< 0.16	< 0.16	< 0.18	< 0.18
Methylene chloride	ug/l	3	5	< 0.3	< 0.3	< 0.3	< 0.2	< 1	< 0.27	< 0.27	< 0.21	< 0.16	< 0.16	< 0.3	< 0.3	< 0.3	< 0.2	< 0.2	< 0.2	< 0.27	0.28 J
o-Xylene	ug/l	NS	NS	< 0.25	< 0.25	NA	NA	NA	< 0.31	< 0.31	< 0.2	< 0.45	< 0.45	< 0.25	< 0.25	NA	NA	< 0.17	< 0.17	< 0.31	< 0.31
Styrene	ug/l	100	100	< 0.58	< 0.58	< 0.58	< 0.48	< 0.5	< 0.16	< 0.16	< 0.2	< 0.11	< 0.17	< 0.58	< 0.58	< 0.58	< 0.48	< 0.12	< 0.12	< 0.16	< 0.16
Tertiary Butyl Alcohol	ug/l	100	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	ug/l	1	5	< 0.27	< 0.27	< 0.27	< 0.24	< 0.5	< 0.28	< 0.28	< 0.28	< 0.29	< 0.29	< 0.27	< 0.27	< 0.27	< 0.24	< 0.37	< 0.37	< 0.28	< 0.28
Toluene	ug/l	600	1000	< 0.3	< 0.3	< 0.3	< 0.27	< 0.5	< 0.2	< 0.2	< 0.21	< 0.15	< 0.15	< 0.3	< 0.3	< 0.3	< 0.27	< 0.14	< 0.14	< 0.2	< 0.2
Trans-1,2-dichloroethene	ug/l	100	100	< 0.25	< 0.25	< 0.25	< 0.3	< 0.5	< 0.42	< 0.42	< 0.32	< 0.16	< 0.16	< 0.25	< 0.25	< 0.25	< 0.3	< 0.17	< 0.17	< 0.42	< 0.42
trans-1,3-Dichloropropene	ug/l	NS	NS	< 0.21	< 0.21	< 0.21	< 0.22	< 0.3	< 0.2	< 0.2	< 0.17	< 0.11	< 0.15	< 0.21	< 0.21	< 0.21	< 0.22	< 0.08	< 0.08	< 0.2	< 0.2
Trichloroethene	ug/l	1	5	< 0.24	< 0.24	< 0.24	< 0.22	< 0.5	< 0.29	< 0.29	< 0.26	< 0.18	< 0.18	< 0.24	< 0.24	< 0.24	< 0.22	< 0.13	< 0.13	< 0.29	< 0.29
Trichlorofluoromethane	ug/l	2000	NS	< 0.54	< 0.54	< 0.54	< 0.23	< 0.6	< 0.25	< 0.25	< 0.26	< 0.25	< 0.25	< 0.54	< 0.54	< 0.54	< 0.23	< 0.67	< 0.67	< 0.25	< 0.25
Vinyl Chloride	ug/l	1	2	< 0.44	< 0.44	< 0.44	< 0.22	< 0.5	< 0.29	< 0.29	< 0.22	< 0.21	< 0.21	< 0.44	< 0.44	< 0.44	< 0.22	< 0.66	< 0.66	< 0.29	< 0.29
Xylene, -m,p	ug/l	NS	NS	< 0.25	< 0.25	NA	NA	NA	< 0.42	< 0.42	< 0.35	< 0.39	< 0.39	< 0.25	< 0.25	NA	NA	< 0.36	< 0.36	< 0.42	< 0.42
Xylenes	ug/l	1,000	10000	< 0.25	< 0.25	< 0.25	< 0.28	< 1	< 0.31	< 0.31	< 0.2	< 0.39	< 0.39	< 0.25	< 0.25	< 0.25	< 0.28	< 0.17	< 0.17	< 0.31	< 0.31
Total TIC, Volatile	ug/l	NS	NS	0	0	0	8.7 J	0	6.3 J	0	0	0	0	0	0	0	0	0	0	0	0

Location ID		GWQS[1]	EPA	OB-04	OB-04	OB-04	OB-04	OB-05	OB-05	OB-05	OB-05	OB-05	OB-05	OB-05	OB-05	OB-05	OB-06	OB-06	OB-06	OB-06
Sample ID			MCLs	OB-4(070109)	OB-4(102109)	OB-4(052610)	OB-4(051711)	OB-5 (10/15/04)	OB-5 (10/2/2006)	OB-5(040407)	OB-5(071009)	OB-5(080428)	OB-5(080909)	OB-5(070109)	OB-5(102109)	OB-5(052610)	OB-5(051711)	OB-6 (11/2/04)	OB-6 (123004)	OB-6	OB-6(040607)
Sample Date	Units			7/1/2009	10/21/2009	5/26/2010	5/17/2011	10/15/2004	10/2/2006	4/4/2007	10/9/2007	4/28/2008	9/9/2008	7/1/2009	10/21/2009	5/26/2010	5/17/2011	11/2/2004	12/30/2004	9/26/2006	4/6/2007
SVOC																					
1,1'-Biphenyl	ug/l	400	NS	< 0.46	< 0.47	< 0.53	< 0.47	< 0.29	< 0.35	< 0.36	< 0.33	< 0.25	< 0.56	< 0.43	< 0.48	< 0.47	< 0.42	< 0.29	< 0.29	< 0.35	< 0.36
1,2,4-Trichlorobenzene	ug/l	9	70	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	ug/l	600	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	ug/l	600	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	ug/l	75	75	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/l	700	NS	< 1.4	< 1.5	< 1.7	< 1.5	< 0.74	< 2.1	< 2.1	< 1.9	< 1.3	< 2	< 1.4	< 1.5	< 1.5	< 1.3	< 0.74	< 0.74	< 2.1	< 2.1
2,4,6-Trichlorophenol	ug/l	20	NS	< 1.3	< 1.4	< 1.5	< 1.4	< 0.8	< 1.4	< 1.4	< 1.3	< 1.2	< 1.6	< 1.3	< 1.4	< 1.4	< 1.2	< 0.8	< 0.8	< 1.4	< 1.4
2,4-Dichlorophenol	ug/l	20	NS	< 1.3	< 1.4	< 1.5	< 1.4	< 0.73	< 1.7	< 1.7	< 1.6	< 1.6	< 2	< 1.3	< 1.4	< 1.4	< 1.2	< 0.73	< 0.73	< 1.7	< 1.7
2,4-Dimethylphenol	ug/l	100	NS	< 1.8	< 1.8	< 2.1	< 1.8	< 1	< 1.8	< 1.8	< 1.6	< 1.9	< 2	< 1.7	< 1.9	< 1.9	< 1.7	< 1	< 1	< 1.8	< 1.8
2,4-Dinitrophenol	ug/l	40	NS	< 0.8	< 0.82	< 0.92	< 0.82	< 1.1	< 0.96	< 0.97	< 0.89	< 1.3	< 4.3	< 0.76	< 0.84	< 0.83 J	< 0.74	< 1.1	< 1.1	< 0.96	< 0.98
2,4-Dinitrotoluene	ug/l	NS	NS	< 0.24	< 0.24	< 0.28	< 0.24 J	< 0.78	< 0.92	< 0.93	< 0.86	< 0.63	< 0.46	< 0.23	< 0.25	< 0.25	< 0.22	< 0.78	< 0.78	< 0.92	< 0.95
2,6-Dinitrotoluene	ug/l	NS	NS	< 0.35	< 0.36	< 0.41	< 0.36	< 0.62	< 0.6	< 0.61	< 0.56	< 0.58	< 0.61	< 0.34	< 0.37	< 0.37	< 0.33	< 0.62	< 0.62	< 0.6	< 0.61
2-Chloronaphthalene	ug/l	600	NS	< 0.45	< 0.46	< 0.52	< 0.46	< 0.38	< 1.1	< 1.1	< 0.98	< 0.23	< 0.49	< 0.43	< 0.47	< 0.47	< 0.42	< 0.38	< 0.38	< 1.1	< 1.1
2-Chlorophenol	ug/l	40	NS	< 1.2	< 1.2	< 1.3	< 1.2	< 4.3	< 1	< 1	< 0.95	< 1	< 1.5	< 1.1	< 1.2	< 1.2	< 1.1	< 4.3	< 4.3	< 1	< 1
2-Methylnaphthalene	ug/l	NS	NS	< 0.72	< 0.73	< 0.82	< 0.73	< 0.72	< 0.44	< 0.44	< 0.41	< 0.88	< 0.44	< 0.68	< 0.75	< 0.74	< 0.66	< 0.72	< 0.72	< 0.44	< 0.45
2-Methylphenol	ug/l	NS	NS	< 1.2	< 1.2	< 1.4	< 1.2	< 0.72	< 1.5	< 1.5	< 1.4	< 1.2	< 1.4	< 1.2	< 1.3	< 1.3	< 1.1	< 0.72	< 0.72	< 1.5	< 1.5
2-Nitroaniline	ug/l	NS	NS	< 0.26	< 0.26	< 0.29	< 0.26	< 1.4	< 0.71	< 0.72	< 0.66	< 0.57	< 0.45	< 0.24	< 0.27	< 0.26	< 0.24	< 1.4	< 1.4	< 0.71	< 0.73
2-Nitrophenol	ug/l	NS	NS	< 1.3	< 1.4	< 1.6	< 1.4	< 0.73	< 1.9	< 2	< 1.8	< 1.7	< 2	< 1.3	< 1.4	< 1.4	< 1.2	< 0.73	< 0.73	< 1.9	< 2
3&4-Methylphenol	ug/l	NS	NS	< 1.1	< 1.2	< 1.3	< 1.2	< 0.7	< 1.4	< 1.4	< 1.3	< 1.3	< 1.5	< 1.1	< 1.2	< 1.2	< 1	< 0.7	< 0.7	< 1.4	< 1.4
3,3'-Dichlorobenzidine	ug/l	30	NS	< 0.32	< 0.33	< 0.37	< 0.33	< 0.39	< 1.3	< 1.3 J	< 1.2	< 1.1	< 4.6	< 0.3	< 0.34	< 0.33	< 0.3	< 0.39	< 0.39	< 1.3	< 1.3
3-Nitroaniline	ug/l	NS	NS	< 0.31	< 0.32	< 0.36	< 0.32	< 1.2	< 1.4	< 1.4	< 1.3	< 0.37	< 0.46	< 0.3	< 0.33	< 0.32	< 0.29	< 1.2	< 1.2	< 1.4	< 1.4
4,6-Dinitro-2-methylphenol	ug/l	NS	NS	< 0.56	< 0.57	< 0.64	< 0.57	< 0.65	< 0.78	< 0.78	< 0.72	< 2.6	< 1.2	< 0.53	< 0.58	< 0.58 J	< 0.51	< 0.65	< 0.65	< 0.78	< 0.79
4-Bromophenyl phenyl ether	ug/l	NS	NS	< 0.38	< 0.39	< 0.44	< 0.39	< 0.54	< 0.32	< 0.33	< 0.3	< 0.43	< 0.42	< 0.36	< 0.4	< 0.39	< 0.35	< 0.54	< 0.54	< 0.32	< 0.33
4-Chloro-3-Methylphenol	ug/l	NS	NS	< 1.1	< 1.2	< 1.3	< 1.2	< 4.7	< 1.3	< 1.3	< 1.2	< 1.4	< 2.3	< 1.1	< 1.2	< 1.2	< 1.1	< 4.7	< 4.7	< 1.3	< 1.3
4-Chloroaniline	ug/l	30	NS	< 0.28	< 0.28	< 0.32	< 0.28	< 0.43	< 0.43	< 0.43	< 0.4	< 0.4	< 0.34	< 0.26	< 0.29	< 0.28	< 0.25	< 0.43	< 0.43	< 0.43	< 0.44
4-Chlorophenyl phenyl ether	ug/l	NS	NS	< 0.38	< 0.39	< 0.44	< 0.39	< 1	< 0.46	< 0.47	< 0.43	< 0.33	< 0.46	< 0.36	< 0.4	< 0.4	< 0.35	< 1	< 1	< 0.46	< 0.47
4-Nitroaniline	ug/l	NS	NS	< 0.19	< 0.2	< 0.22	< 0.2	< 1.1	< 0.78	< 0.78	< 0.72	< 0.68	< 0.46	< 0.18	< 0.2	< 0.2	< 0.18	< 1.1	< 1.1	< 0.78	< 0.79
4-Nitrophenol	ug/l	NS	NS	< 0.9	< 0.92	< 1	< 0.92	< 2.3	< 0.91	< 0.92	< 0.84	< 1.8	< 2.3	< 0.85	< 0.94	< 0.93	< 0.83	< 2.3	< 2.3	< 0.91	< 0.93
Acenaphthene	ug/l	400	NS	NA	NA	NA	NA	< 0.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.3	< 0.3	NA	NA
Acenaphthylene	ug/l	NS	NS	NA	NA	NA	NA	< 0.35	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.35	< 0.35	NA	NA
Acetophenone	ug/l	700	NS	< 0.43	< 0.44	< 0.5	< 0.44	< 0.53	< 0.4	< 0.41	< 0.37	< 0.41	< 0.48	< 0.41	< 0.45	< 0.45	< 0.4	< 0.53	< 0.53	< 0.4	< 0.41
Anthracene	ug/l	2000	NS	NA	NA	NA	NA	< 0.22	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.22	< 0.22	NA	NA
Atrazine	ug/l	3	3	< 0.43	< 0.43	< 0.49	< 0.43	< 1.5	< 0.18	< 0.18	< 0.16	< 0.33	< 0.63	< 0.4	< 0.44	< 0.44	< 0.39	< 1.5	< 1.5	< 0.18	< 0.18
Benzaldehyde	ug/l	NS	NS	< 0.44	< 0.45	< 0.51	< 0.45	< 3.6	< 0.28	R	R	< 0.87	< 1.6	< 0.42	< 0.46	< 0.45	< 0.4	< 3.6	< 3.6	< 0.28	< 0.29
Benzo(a)anthracene	ug/l	0.1 [0.2]	NS	NA	NA	NA	NA	< 0.27	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.27	< 0.27	NA	NA
Benzo(a)pyrene	ug/l	0.1 [0.2]	0.2	NA	NA	NA	NA	< 0.38	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.38	< 0.38	NA	NA
Benzo(b)fluoranthene	ug/l	0.2 [10]	NS	NA	NA	NA	NA	< 0.37	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.37	< 0.37	NA	NA
Benzo(g,h,i)perylene	ug/l	NS	NS	NA	NA	NA	NA	< 0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.5	< 0.5	NA	NA
Benzo(k)fluoranthene	ug/l	0.5	NS	NA	NA	NA	NA	< 0.37	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.37	< 0.37	NA	NA
Benzyl butyl phthalate	ug/l	100	NS	< 0.27	< 0.28	< 0.31	< 0.28	< 0.54	< 0.64	< 0.64	< 0.59	< 0.73	< 0.43	< 0.26	< 0.29	< 0.28	< 0.25	< 0.54	< 0.54	< 0.64	< 0.65
bis(2-Chloroethoxy)methane	ug/l	NS	NS	< 0.27	< 0.28	< 0.31	< 0.28	< 0.34	< 0.7	< 0.71	< 0.65	< 0.37	< 0.53	< 0.26	< 0.28	< 0.28	< 0.25	< 0.34	< 0.34	< 0.7	< 0.72
bis(2-Chloroethyl)ether	ug/l	7	NS	< 0.34	< 0.34	< 0.39	< 0.34	< 0.49	< 0.57	< 0.58	< 0.53	< 0.77	< 0.5	< 0.32	< 0.35	< 0.35	< 0.31	< 0.49	< 0.49	< 0.57	< 0.58
bis(2-Chloroisopropyl)ether	ug/l	300	NS	< 0.42	< 0.43	< 0.49	< 0.43	< 0.44	< 0.79	< 0.8	< 0.74	< 0.66	< 0.56	< 0.4	< 0.44	< 0.44	< 0.39	< 0.44	< 0.44	< 0.79	< 0.81
bis(2-Ethylhexyl)phthalate	ug/l	3	6	< 0.36	< 2.2	< 0.41	< 0.36	< 0.74	< 0.71	< 0.72	< 0.66	< 1	< 0.77	< 0.34	**8.4 J**	< 0.37	< 0.33	< 0.74	< 0.74	< 0.71	< 0.73
Caprolactam	ug/l	NS	NS	< 0.21	< 0.22	< 0.24	< 0.22	< 0.44	< 0.34	< 0.34	< 0.32	< 0.57	< 0.64	< 0.2	< 0.22	< 0.22	< 0.2	< 0.44	< 0.44	< 0.34	< 0.35
Carbazole	ug/l	NS	NS	< 0.18	< 0.18	< 0.21	< 0.18	< 0.34	< 0.39	< 0.4	< 0.36	< 0.46	< 0.46	< 0.17	< 0.19	< 0.19	< 0.17	< 0.34	< 0.34	< 0.39	< 0.4
Chrysene	ug/l	5	NS	NA	NA	NA	NA	< 0.26	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.26	< 0.26	NA	NA
Dibenzo(a,h)anthracene	ug/l	0.3 [0.5]	NS	NA	NA	NA	NA	< 0.58	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.58 J	< 0.58	NA	NA
Dibenzofuran	ug/l	NS	NS	< 0.33	< 0.34	< 0.38	< 0.34	< 0.49	< 0.37	< 0.37	< 0.34	< 0.26	< 0.5	< 0.31	< 0.35	< 0.34	< 0.3	< 0.49	< 0.49	< 0.37	< 0.38
Diethyl phthalate	ug/l	6000	NS	< 0.18	< 0.18	< 0.21	< 0.18	< 1.4	< 0.42	< 0.42	< 0.39	< 0.4	< 0.37	< 0.17	< 0.19	< 0.19	< 0.17	< 1.4	< 1.4	< 0.42	< 0.43
Dimethyl phthalate	ug/l	NS	NS	< 0.24	< 0.25	< 0.28	< 0.25	< 0.58	< 0.35	< 0.36	< 0.33	< 0.39	< 0.37	< 0.23	< 0.26	< 0.25	< 0.23	< 0.58	< 0.58	< 0.35	< 0.36
di-n-butyl phthalate	ug/l	700	NS	< 0.21	< 0.21	< 0.24	< 0.21	< 0.79	< 0.64	< 0.64	< 0.59	< 0.46	< 0.51	< 0.2	< 0.22	< 0.21	< 0.19	< 0.79	< 0.79	< 0.64	< 0.65
di-n-octylphthalate	ug/l	100	NS	< 0.43	< 0.44	< 0.49	< 0.44	< 0.63	< 0.61	< 0.62	< 0.57	< 0.55	< 0.51	< 0.41	< 0.45	< 0.44	< 0.4	< 0.63	< 0.63	< 0.61	< 0.63
Fluoranthene	ug/l	300	NS	NA	NA	NA	NA	< 0.63	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.63	< 0.63	NA	NA
Fluorene	ug/l	300	NS	NA	NA	NA	NA	< 0.89	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.89	< 0.89	NA	NA
Hexachlorobenzene	ug/l	0.02 [10]	1	NA	NA	NA	NA	< 1.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.2	< 1.2	NA	NA
Hexachlorobutadiene	ug/l	1	NS	< 0.4	< 0.41	< 0.16	< 0.14	< 0.41	< 0.19	< 0.19 J	R	< 0.15	< 0.38	< 0.38	< 0.42	< 0.14	< 0.13	< 0.41	< 0.41	< 0.19	< 0.19
Hexachlorocyclopentadiene	ug/l	40	50	< 0.73	< 0.75	< 0.31	< 0.27	< 0.45	< 0.44	< 0.44	< 0.41	< 0.12	< 4.6	< 0.69	< 0.76	< 0.27	< 0.24	< 0.45	< 0.45	< 0.44	< 0.45
Hexachloroethane	ug/l	7	NS	< 0.29	< 0.29	< 0.26	< 0.23	< 0.67	< 0.3	< 0.31 J	< 0.28	< 0.19	< 0.31	< 0.27	< 0.3	< 0.23	< 0.21	< 0.67	< 0.67	< 0.3	< 0.31
Indeno(1,2,3-cd)pyrene	ug/l	0.2 [10]	NS	NA	NA	NA	NA	< 1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.5	< 1.5	NA	NA
Isophrone	ug/l	40	NS	< 0.27	< 0.28	< 0.31	< 0.28	< 0.54	< 0.63	< 0.64	< 0.59	< 0.56	< 0.71	< 0.26	< 0.28	< 0.28	< 0.25	< 0.54	< 0.54	< 0.63	< 0.65
Naphthalene	ug/l	300	NS	NA	NA	NA	NA	< 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1	< 1	NA	NA
Nitrobenzene	ug/l	6	NS	< 0.28	< 0.28	< 0.32	< 0.28	< 0.61	< 0.45	< 0.46	< 0.42	< 0.81	< 0.67	< 0.26	< 0.29	< 0.28	< 0.25	< 0.61	< 0.61	< 0.45	< 0.46
N-Nitroso-di-n-Propylamine	ug/l	10	NS	< 0.48	< 0.49	< 0.55	< 0.49	< 0.5	< 0.5	< 0.51	< 0.47	< 0.44	< 0.4	< 0.45	< 0.5	< 0.49	< 0.44	< 0.5	< 0.5	< 0.5	< 0.51
N-Nitrosodiphenylamine	ug/l	10	NS	< 0.23	< 0.24	< 0.27	< 0.24	< 0.8	< 0.55	< 0.56	< 0.52	< 0.48	< 0.62	< 0.22	< 0.24	< 0.24	< 0.22	< 0.8	< 0.8	< 0.55	< 0.57
Pentachlorophenol	ug/l	0.3 [1]	1	NA	NA	NA	NA	< 0.75	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.75	< 0.75	NA	NA
Phenanthrene	ug/l	NS	NS	NA	NA	NA	NA	< 0.23	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.23	< 0.23	NA	NA
Phenol	ug/l	2000	NS	< 0.63	< 0.64	< 0.72	< 0.64	< 1.8	< 0.53	< 0.54	< 0.5	< 0.79	< 1.4	< 0.59	< 0.66	< 0.65	< 0.58	< 1.8	< 1.8	< 0.53	< 0.55
Pyrene	ug/l	200	NS	NA	NA	NA	NA	< 0.58	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.58	< 0.58	NA	NA
Total TIC, Semi-Volatile	ug/l	NS	NS	0	0	0	200 J	120 J	70 J	35 J	11.6 J	31 J	7.3 J	5.4 J	0	46 J	11 J	0	0	27.1 J	0

Table 15: Summary of Historical Ground Water Analytical Results, 2004-2011
Ringwood Mines/Landfill Site, Ringwood, New Jersey

Location ID		GWQS[1]	EPA	OB-04	OB-04	OB-04	OB-04	OB-05	OB-05	OB-05	OB-05	OB-05	OB-05	OB-05	OB-05	OB-05	OB-06	OB-06	OB-06	OB-06
Sample ID			MCLs	OB-4(070109)	OB-4(102109)	OB-4(052610)	OB-4(051711)	OB-5 (10/15/04)	OB-5 (10/2/2006)	OB-5(040407)	OB-5(071009)	OB-5(080428)	OB-5(080909)	OB-5(070109)	OB-5(102109)	OB-5(052610)	OB-5(051711)	OB-6 (11/2/04)	OB-6 (123004)	OB-6	OB-6(040607)
Sample Date	Units			7/1/2009	10/21/2009	5/26/2010	5/17/2011	10/15/2004	10/2/2006	4/4/2007	10/9/2007	4/28/2008	9/9/2008	7/1/2009	10/21/2009	5/26/2010	5/17/2011	11/2/2004	12/30/2004	9/26/2006	4/6/2007
SVOC BY SIM																					
Acenaphthene	ug/l	400	NS	< 0.017	< 0.032	< 0.036	< 0.015	NA	< 0.018	< 0.019	< 0.017	< 0.018	< 0.016	< 0.016	< 0.033	< 0.033	< 0.014	NA	NA	< 0.018	< 0.019
Acenaphthylene	ug/l	NS	NS	< 0.0076	< 0.044	< 0.049	< 0.018	NA	< 0.01	< 0.01	< 0.0095	< 0.008	< 0.007	< 0.0072	< 0.045	< 0.044	< 0.016	NA	NA	< 0.01	< 0.01
Anthracene	ug/l	2000	NS	< 0.023	< 0.028	< 0.032	< 0.011	NA	< 0.022	< 0.023	< 0.021	< 0.024	< 0.021	< 0.022	< 0.029	< 0.029	< 0.01	NA	NA	< 0.022	< 0.023
Benzo(a)anthracene	ug/l	0.1 [0.2]	NS	< 0.037	< 0.026	< 0.03	< 0.017	NA	< 0.0073	< 0.0074	< 0.0068	< 0.039	< 0.034	< 0.035	< 0.027	< 0.027	< 0.015	NA	NA	< 0.0073	< 0.0075
Benzo(a)pyrene	ug/l	0.1 [0.2]	0.2	< 0.039	< 0.034	< 0.039	< 0.0054	NA	< 0.018	< 0.018	< 0.017	< 0.041	< 0.036	< 0.037	< 0.035	< 0.035	< 0.0049	NA	NA	< 0.018	< 0.019
Benzo(b)fluoranthene	ug/l	0.2 [10]	NS	< 0.018	< 0.04	< 0.045	< 0.018	NA	< 0.039	< 0.039	< 0.036	< 0.02	< 0.017	< 0.018	< 0.041	< 0.04	< 0.016	NA	NA	< 0.039	< 0.04
Benzo(g,h,i)perylene	ug/l	NS	NS	< 0.013	< 0.032	< 0.036	< 0.011	NA	< 0.019	< 0.019	< 0.018	< 0.013	< 0.012	< 0.012	< 0.033	< 0.032	< 0.01	NA	NA	< 0.019	< 0.02
Benzo(k)fluoranthene	ug/l	0.5	NS	< 0.02	< 0.031	< 0.035	< 0.014	NA	< 0.017	< 0.017	< 0.016	< 0.022	< 0.019	< 0.019	< 0.032	< 0.032	< 0.013	NA	NA	< 0.017	< 0.017
Chrysene	ug/l	5	NS	< 0.019	< 0.024	< 0.028	< 0.026	NA	< 0.018	< 0.018	< 0.017	< 0.02	< 0.018	< 0.018	< 0.025	< 0.025	< 0.023	NA	NA	< 0.018	< 0.018
Dibenzo(a,h)anthracene	ug/l	0.3 [0.5]	NS	< 0.022	< 0.025	< 0.028	< 0.025	NA	< 0.018	< 0.018	< 0.016	< 0.023	< 0.02	< 0.021	< 0.026	< 0.025	< 0.023	NA	NA	< 0.018	< 0.018
Fluoranthene	ug/l	300	NS	< 0.01	< 0.027	< 0.03	< 0.011	NA	< 0.0097	< 0.0098	< 0.009	< 0.011	< 0.0096	< 0.0099	< 0.028	< 0.027	< 0.0096	NA	NA	< 0.0097	< 0.0099
Fluorene	ug/l	300	NS	< 0.021	< 0.03	< 0.034	< 0.017	NA	< 0.022	< 0.022	< 0.02	< 0.023	< 0.02	< 0.02	< 0.031	< 0.03	< 0.015	NA	NA	< 0.022	< 0.022
Hexachlorobenzene	ug/l	0.02 [10]	1	< 0.011	< 0.011	< 0.012	< 0.0089	NA	< 0.065	< 0.022	< 0.02	< 0.011	< 0.0099	< 0.01	< 0.011	< 0.011	< 0.008	NA	NA	< 0.065	< 0.022
Indeno(1,2,3-cd)pyrene	ug/l	0.2 [10]	NS	< 0.016	< 0.032	< 0.037	< 0.012	NA	< 0.012	< 0.012	< 0.011	< 0.017	< 0.014	< 0.015	< 0.033	< 0.033	< 0.011	NA	NA	< 0.012	< 0.012
Naphthalene	ug/l	300	NS	< 0.015	< 0.021	< 0.023	< 0.018	NA	< 0.028	< 0.028	< 0.026	< 0.016	< 0.014	< 0.014	< 0.021	< 0.021	< 0.016	NA	NA	< 0.028	< 0.028
Pentachlorophenol	ug/l	1 [1]	1	< 0.24	< 0.25	< 0.085	< 0.32	NA	< 0.43	< 0.33	R	< 0.26	< 0.22	< 0.23	< 0.25	< 0.076	< 0.29	NA	NA	< 0.43	< 0.33
Phenanthrene	ug/l	NS	NS	< 0.018	< 0.04	< 0.045	< 0.017	NA	< 0.023	< 0.023	< 0.021	< 0.02	< 0.017	< 0.018	< 0.041	< 0.041	< 0.016	NA	NA	< 0.023	< 0.023
Pyrene	ug/l	200	NS	< 0.013	< 0.025	< 0.028	< 0.009	NA	< 0.015	< 0.015	< 0.014	< 0.014	< 0.012	< 0.012	< 0.025	< 0.025	< 0.0081	NA	NA	< 0.015	< 0.015
PCBs																					
PCB 1016	ug/l	0.5	0.5	< 0.2	< 0.36	< 0.36	< 0.14	< 0.075	< 0.099	< 0.1	< 0.1	< 0.1	< 0.11 J	< 0.19	< 0.3	< 0.33	< 0.14	< 0.075	< 0.075	< 0.1	< 0.11
PCB 1221	ug/l	0.5	0.5	< 0.32	< 0.49	< 0.49	< 0.29	< 0.085	< 0.49	< 0.51	< 0.51	< 0.5	< 0.54 J	< 0.31	< 0.41	< 0.46	< 0.29	< 0.085	< 0.085	< 0.52	< 0.53
PCB 1232	ug/l	0.5	0.5	< 0.21	< 0.37	< 0.37	< 0.42	< 0.12	< 0.41	< 0.42	< 0.42	< 0.41	< 0.45 J	< 0.21	< 0.31	< 0.34	< 0.41	< 0.12	< 0.12	< 0.43	< 0.44
PCB 1242	ug/l	0.5	0.5	< 0.093	< 0.32	< 0.33	< 0.093	< 0.13	< 0.17	< 0.18	< 0.18	< 0.17	< 0.19 J	< 0.091	< 0.27	< 0.3	< 0.091	< 0.13	< 0.13	< 0.18	< 0.19
PCB 1248	ug/l	0.5	0.5	< 0.26	< 0.33	< 0.34	< 0.16	< 0.072	< 0.16	< 0.17	< 0.16	< 0.16	< 0.18 J	< 0.26	< 0.28	< 0.31	< 0.15	< 0.072	< 0.072	< 0.17	< 0.17
PCB 1254	ug/l	0.5	0.5	< 0.12	< 0.21	< 0.22	< 0.15	< 0.072	< 0.11	< 0.12	< 0.12	< 0.12	< 0.13 J	< 0.11	< 0.18	< 0.2	< 0.15	< 0.072	< 0.072	< 0.12	< 0.12
PCB 1260	ug/l	0.5	0.5	< 0.15	< 0.17	< 0.17	< 0.23	< 0.1	< 0.12	< 0.13	< 0.13	< 0.12	< 0.13 J	< 0.15	< 0.14	< 0.16	< 0.22	< 0.1	< 0.1	< 0.13	< 0.13
Total PCBs	ug/l	0.5	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pesticides/Herbicides																					
4,4-DDD	ug/l	0.1	NS	NA	NA	NA	NA	< 0.017	< 0.0025	NA	NA	NA	NA	NA	NA	NA	NA	< 0.017	< 0.017	< 0.0027	NA
4,4-DDE	ug/l	0.1	NS	NA	NA	NA	NA	< 0.0041	< 0.0018	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0041	< 0.0041	< 0.0019	NA
4,4-DDT	ug/l	0.1	NS	NA	NA	NA	NA	< 0.018 J	< 0.0052	NA	NA	NA	NA	NA	NA	NA	NA	< 0.018 J	< 0.018	< 0.0055	NA
Aldrin	ug/l	0.04	NS	NA	NA	NA	NA	< 0.0079	< 0.0035	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0079	< 0.0079	< 0.0037	NA
alpha-BHC	ug/l	0.02	NS	NA	NA	NA	NA	< 0.013	< 0.0027	NA	NA	NA	NA	NA	NA	NA	NA	< 0.013	< 0.013	< 0.0029	NA
alpha-Chlordane	ug/l	NS	NS	NA	NA	NA	NA	< 0.018	< 0.0046	NA	NA	NA	NA	NA	NA	NA	NA	< 0.018	< 0.018	< 0.0048	NA
beta-BHC	ug/l	0.04	NS	NA	NA	NA	NA	< 0.0086	< 0.0065	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0086	< 0.0086	< 0.0069	NA
delta-BHC	ug/l	NS	NS	NA	NA	NA	NA	< 0.0098	< 0.0033	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0098	< 0.0098	< 0.0034	NA
Dieldrin	ug/l	0.03	NS	NA	NA	NA	NA	< 0.013	< 0.0018	NA	NA	NA	NA	NA	NA	NA	NA	< 0.013	< 0.013	< 0.0019	NA
Endosulfan I (alpha)	ug/l	40	NS	NA	NA	NA	NA	< 0.0029	< 0.0022	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0029	< 0.0029	< 0.0023	NA
Endosulfan II (beta)	ug/l	40	NS	NA	NA	NA	NA	< 0.0028	< 0.0034	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0028	< 0.0028	< 0.0036	NA
Endosulfan sulfate	ug/l	40	NS	NA	NA	NA	NA	< 0.013	< 0.0049	NA	NA	NA	NA	NA	NA	NA	NA	< 0.013	< 0.013	< 0.0051	NA
Endrin	ug/l	2	2	NA	NA	NA	NA	< 0.011	< 0.0032	NA	NA	NA	NA	NA	NA	NA	NA	< 0.011 J	< 0.011	< 0.0033	NA
Endrin Aldehyde	ug/l	NS	NS	NA	NA	NA	NA	< 0.02	< 0.0068	NA	NA	NA	NA	NA	NA	NA	NA	< 0.02	< 0.02	< 0.0072	NA
Endrin ketone	ug/l	NS	NS	NA	NA	NA	NA	< 0.0053	< 0.0037	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0053	< 0.0053	< 0.0039	NA
gamma-Chlordane	ug/l	NS	NS	NA	NA	NA	NA	< 0.013	< 0.0018	NA	NA	NA	NA	NA	NA	NA	NA	< 0.013	< 0.013	< 0.0019	NA
Heptachlor	ug/l	0.05	0.4	NA	NA	NA	NA	< 0.0059	< 0.0027	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0059	< 0.0059	< 0.0028	NA
Heptachlor epoxide	ug/l	0.2	0.2	NA	NA	NA	NA	< 0.011	< 0.0015	NA	NA	NA	NA	NA	NA	NA	NA	< 0.011	< 0.011	< 0.0016	NA
Lindane	ug/l	0.03	0.2	NA	NA	NA	NA	< 0.0026	< 0.0018	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0026	< 0.0026	< 0.0019	NA
Methoxychlor	ug/l	40	40	NA	NA	NA	NA	< 0.012 J	< 0.0071	NA	NA	NA	NA	NA	NA	NA	NA	< 0.012	< 0.012	< 0.0075	NA
Toxaphene	ug/l	2	3	NA	NA	NA	NA	< 0.25	< 0.099	NA	NA	NA	NA	NA	NA	NA	NA	< 0.25	< 0.25	< 0.1	NA

Table 15: Summary of Historical Ground Water Analytical Results, 2004-2011
Ringwood Mines/Landfill Site, Ringwood, New Jersey

Location ID		GWQS[1]	EPA	OB-04	OB-04	OB-04	OB-04	OB-05	OB-05	OB-05	OB-05	OB-05	OB-05	OB-05	OB-05	OB-05	OB-06	OB-06	OB-06	OB-06
Sample ID			MCLs	OB-4(070109)	OB-4(102109)	OB-4(052610)	OB-4(051711)	OB-5 (10/15/04)	OB-5 (10/2/2006)	OB-5(040407)	OB-5(071009)	OB-5(080428)	OB-5(080909)	OB-5(070109)	OB-5(102109)	OB-5(052610)	OB-5(051711)	OB-6 (11/2/04)	OB-6 (123004)	OB-6	OB-6(040607)
Sample Date	Units			7/1/2009	10/21/2009	5/26/2010	5/17/2011	10/15/2004	10/2/2006	4/4/2007	10/9/2007	4/28/2008	9/9/2008	7/1/2009	10/21/2009	5/26/2010	5/17/2011	11/2/2004	12/30/2004	9/26/2006	4/6/2007
Metals - Total																					
Aluminum	ug/l	200	NS	< 200	102 B	< 7.8	**347**	< 200	< 110	< 23	< 26	< 24	94.4 BJ	< 26	< 26	< 7.8	< 200	< 200	< 200	< 110	< 23
Antimony	ug/l	6	6	< 4	< 2.9	< 2.2	< 1.3	< 5	< 4.4	< 5	< 0.9	< 1.8	< 1.8	< 4	< 2.9	< 2.2	< 1.3	< 5	< 5	< 4.4	< 5
Arsenic	ug/l	3 [8]	10	< 2.4	< 2.4	< 1.4	1.1 B	< 5	< 1.5	< 1.5	< 1.1	< 1.7	< 1.7	< 2.4	< 2.4	< 1.4	< 0.92	< 5	< 5	< 1.5	< 1.5
Barium	ug/l	6000	2000	32.7 B	28.4 B	70.3 B	66.1 B	< 200	35.8 B	25.2 B	21 B	25.7 B	23.3 B	19.5 B	17.9 B	22.1 B	24.1 B	< 200	< 200	23.2 B	15.8 B
Beryllium	ug/l	1	4	< 1	< 0.4	< 0.24	< 0.24	< 5	< 0.5	< 0.4	< 0.15	< 0.15	< 0.15	< 1	< 0.4	< 0.24	< 0.24	< 5	< 5	< 0.5	< 0.4
Cadmium	ug/l	4	5	< 0.4	< 0.4	< 0.35	0.2 B	< 4	< 0.6	< 1.3	< 0.24	< 0.28	< 0.28	< 0.4	< 0.4	< 0.35	< 0.17	< 4	< 4	< 0.6	< 1.3
Calcium	ug/l	NS	NS	29500	30900	59600 J	48400	103000	78700	79900	87400	84200	96300	69800	81300	77500 J	74400	30300	32100	36400	26400
Chromium	ug/l	70	100	< 10	< 0.9	1 B	3.4 J	< 10	< 1.6	< 0.8	0.7 B	< 0.53	< 0.53	8.4 BJ	0.9 B	0.9 B	< 0.9	< 10	< 10	< 1.6	< 0.8
Cobalt	ug/l	NS	NS	4.6 B	< 1.6	1.9 B	26.8 B	< 50	2.4 B	< 1.8	12.1 B	2.7 B	< 50	2.1 BJ	2 B	0.8 B	1.2 B	< 50	< 50	2.7 B	3 B
Copper	ug/l	1,300	1300	2.7 BJ	< 1.6	< 2.5	1.8 B	< 25	< 2.3	< 2.7	3.7 B	< 2.5 B	< 10	4.8 BJ	< 1.6	< 2.5	< 0.85	< 25	< 25	< 2.3	< 2.7
Iron	ug/l	300	NS	**7480**	**3160**	**4710**	**22500**	**20500**	**24600**	**27900**	**20900**	**29300**	**21600**	**16900**	**13100**	**28200**	**53800**	**30900**	**2290**	**4180**	**910**
Lead	ug/l	5	15	< 1.7	< 1.7	< 1.9	1.2 B	< 3	< 2.6	< 2.8	< 0.94	1.5 B	1.7 B	< 1.7	< 1.7	< 1.9	1.2 B	< 3	< 3	< 2.6	< 2.8
Magnesium	ug/l	NS	NS	8000	7900	16400	13500	55600	35600	39800	45200 J	43300	50200	32300	33200	34800	37600	7850	8120	8810	6730
Manganese	ug/l	50	NS	**440**	**402**	**1320**	**1460 J**	**1490**	**2970**	**2020**	**1500**	**2100**	**1740**	**776**	**412**	**1160**	**1850 J**	**2040**	**1770**	**2480**	**1910**
Mercury	ug/l	2	2	< 0.049	< 0.082 J	0.14 B	< 0.088	< 0.2	< 0.08	< 0.037	< 0.15	< 0.15	< 0.049	< 0.049	< 0.082 J	< 0.082	< 0.088	< 0.2	< 0.2	< 0.08	0.066 BJ
Nickel	ug/l	100	NS	< 10	1.1 B	1.5 B	10.9	< 40	< 1.6	< 2.8	5.3 B	1.2 B	< 1.2	< 10	1.8 B	1.7 B	1.4 J	< 40	< 40	< 1.6	< 2.8
Potassium	ug/l	NS	NS	1690 B	1600 B	3150 B	3360 B	< 5000	4410 B	3670 B	3270 B	3670 B	3280 B	2920 B	2690 B	3350 B	3420 B	< 5000	< 5000	2480 B	1640 B
Selenium	ug/l	40	50	< 3.7	< 3.7	< 1.9	< 1.5	< 5	< 3	< 6.2	< 0.73	< 1.6	< 1.6	< 3.7	< 3.7	< 1.9	< 1.5	< 5	< 5	< 3	< 6.2
Silver	ug/l	40	NS	< 1	< 1	0.7 B	1.1 J	< 10	< 1.9	< 1	< 0.83	< 1	< 1	< 1	< 1	0.7 B	2 J	< 10	< 10	< 1.9	< 1
Sodium	ug/l	50,000	NS	39800	41300	**95400 J**	**100000**	24000	33700	25900 J	23900 J	29500	26800	18000	17200	21000 J	27600	26900	23500	32100	22900 J
Thallium	ug/l	2 [10]	2	< 1.5	< 1.5	< 1.8	< 0.17	< 10	< 0.09	< 0.09	< 1.4	< 1.3	< 1.3	< 1.5	< 1.5	< 1.8	< 0.17	< 10	< 10	< 0.09	< 0.09
Vanadium	ug/l	NS	NS	< 0.9	< 0.9	< 0.56	3.9 J	< 50	< 1.9	< 1.8	< 0.49	0.5 B	< 0.43	< 50	< 0.9	< 0.56	< 50	< 50	< 50	< 1.9	< 1.8
Zinc	ug/l	2000	NS	40.1	12.9 B	19.1 B	44.7	214	< 3.3	< 3.4	60.5	9 B	< 20	< 20	10.5 B	7.8 J	< 20	< 20	< 20	< 3.3	< 3.4 J
Metals - Dissolved																					
Aluminum	ug/l	200	NS	< 26	< 26	< 7.8	< 200	< 200	< 110	< 23	< 26	< 24	109 BJ	< 26	< 26	< 7.8	< 7.2	< 200	< 200	< 110	< 23
Antimony	ug/l	6	6	< 4	< 2.9	< 2.2	< 1.3	< 5	< 4.4	< 5	< 0.9	< 1.8	< 1.8	< 4	< 2.9	< 2.2	< 1.3	< 5	< 5	< 4.4	< 5
Arsenic	ug/l	3 [8]	10	< 2.4	< 2.4	< 1.4	< 0.92	< 5	< 1.5	< 1.5	< 1.1	< 1.7	< 1.7	< 2.4	< 2.4	< 1.4	< 0.92	< 5	< 5	< 1.5	< 1.5
Barium	ug/l	6000	2000	27.8 B	26.4 B	66.7 BJ	59.6 B	< 200	29.9 B	24.8 B	16.5 B	18.7 B	14.4 B	11.7 B	12.5 B	10.6 J	8.1 B	< 200	< 200	23.2 B	15.3 B
Beryllium	ug/l	1	4	< 0.4	< 0.4	< 0.24	< 0.24	< 5	< 0.5	< 0.4	< 0.15	< 0.15	< 0.15	< 1	< 0.4	< 0.24	< 0.24	< 5	< 5	< 0.5	< 0.4
Cadmium	ug/l	4	5	< 0.4	< 0.4	< 0.35	< 0.17	< 4	< 0.6	< 1.3	< 0.24	< 0.28	< 0.28	< 0.4	< 0.4	< 0.35	< 0.17	< 4	< 4	< 0.6	< 1.3
Calcium	ug/l	NS	NS	28700	30800	59700	46500	106000	76700	78600	92700	85000	91400	68400	78800	73200	71000	30400	32400	35200	25900
Chromium	ug/l	70	100	< 10	< 0.9	0.8 B	< 0.83	< 10	< 1.6	< 0.8	< 0.53	0.6 B	< 0.53	< 10	< 0.9	0.9 B	< 0.83	< 10	< 10	< 1.6	< 0.8
Cobalt	ug/l	NS	NS	< 50	< 1.6	1.9 B	8.6 B	< 50	2 B	< 1.8	5 B	2 B	1 B	1.3 BJ	< 1.6	< 0.65	0.7 B	< 50	< 50	1.7 B	3 B
Copper	ug/l	1,300	1300	< 1.6	< 1.6	< 2.5	< 1.9	< 25	< 2.3	< 2.7	< 3.3	< 2.5 B	< 0.7	< 1.6	< 1.6	< 2.5	< 1.9	< 25	< 25	< 2.3	< 2.7
Iron	ug/l	300	NS	**467**	206	**721**	**12500**	**17100**	**20700**	**24900**	**5100**	**16300**	**4000**	**524**	**502**	**1080**	**14700**	**24900**	**2180**	**3190**	**708**
Lead	ug/l	5	15	< 1.7	< 1.7	< 1.9	< 0.94	< 3	2.6 B	< 2.8	< 0.94	1.4 B	< 1.4	< 1.7	< 1.7	< 1.9	< 0.94	< 3	< 3	< 2.6	< 2.8
Magnesium	ug/l	NS	NS	7750	7890	16400	12800	57700	35600	39100	49100 J	44200	48000	31800	32300	33300	36800	7830	8160	8670	6580
Manganese	ug/l	50	NS	**419**	**395**	**1320**	**1420**	**1520**	**2730**	**1960**	**1530**	**2110**	**1640**	**740**	**386**	**1040**	**1780**	**2010**	**1780**	**2420**	**1870**
Mercury	ug/l	2	2	< 0.049	< 0.082 J	< 0.082	< 0.088	< 0.2	< 0.08	0.041 B	< 0.15	< 0.15	< 0.049	< 0.049	< 0.082 J	< 0.082	< 0.088	< 0.2	< 0.2	< 0.08	0.09 BJ
Nickel	ug/l	100	NS	< 10	< 0.6	1 B	6.4 B	< 40	< 1.6	< 2.8	2.6 B	1.3 B	< 1.2	< 10	1.5 B	0.6 B	1.2 J	< 40	< 40	< 1.6	< 2.8
Potassium	ug/l	NS	NS	1590 B	1550 B	3110 B	3150 B	< 5000	3990 B	3580 B	3640 B	3710 B	3030 B	2900 B	2590 B	3310 B	3280 B	< 5000	< 5000	2500 B	1610 B
Selenium	ug/l	40	50	< 3.7	< 3.7	< 1.9	< 1.5	< 5	< 3	< 6.2	< 0.73	< 1.6	< 1.6	< 3.7	< 3.7	< 1.9	< 1.5	< 5	< 5	< 3	< 6.2
Silver	ug/l	40	NS	< 1	< 1	0.7 B	< 0.66	< 10	< 1.9	1.2 B	< 0.83	< 1	< 1	< 1	< 1	< 0.53	< 0.66	< 10	< 10	< 1.9	< 1
Sodium	ug/l	50,000	NS	39300	41300	**95000 J**	**97300**	25100	32000	26200 J	24800 J	29900	25600	17900	16600	20100 J	26900	27100	23500	32300	22700 J
Thallium	ug/l	2 [10]	2	< 1.5	< 1.5	< 1.8	< 0.17	< 10	0.2 B	< 0.09	< 1.4	< 1.3	< 1.3	< 1.5	< 1.5	< 1.8	< 0.17	< 10	< 10	< 0.09	< 0.09
Vanadium	ug/l	NS	NS	< 0.9	< 0.9	< 0.56	< 50	< 50	< 1.9	< 1.8	< 0.49	0.7 B	< 0.43	< 0.9	< 0.9	< 0.56	< 50	< 50	< 50	< 1.9	< 1.8
Zinc	ug/l	2000	NS	13.2 BJ	6.1 B	< 20	12.6 J	50.1	< 3.3	11.2 BJ	< 2.7	< 4	< 4	< 20	< 2.9	< 20	< 20	< 20	< 20	< 3.3	6.4 BJ
Other																					
Alkalinity, Bicarbonate	ug/l	NS	NS	NA	NA	NA	NA	NA	316000	365000	401000	366000	402000	NA	NA	NA	NA	NA	NA	104000	60700
Alkalinity, Carbonate	ug/l	NS	NS	NA	NA	NA	NA	NA	< 5000	< 5000	< 5000	< 5000	< 5000	NA	NA	NA	NA	NA	NA	< 5000	< 5000
Alkalinity, total (as CaCO3)	ug/l	NS	NS	74600	75800	138000	109000	NA	316000	365000	401000	366000	402000	287000	258000	306000	354000	NA	NA	NA	60700
BOD, 5 Day	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromide	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	ug/l	250000	NS	72000	75100	216000	188000	NA	60800	55700	61700	62300	61400	58800	57600	69000 J	59000	NA	NA	60000	53400
COD	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide	ug/l	100	200	NA	NA	NA	NA	R	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	R	< 10	< 10	< 10
Nitrate	ug/l	10000	10000	NA	NA	NA	NA	NA	< 110	< 110	230	< 110	< 110	NA	NA	NA	NA	NA	NA	< 110	460
Nitrogen, Nitrate + Nitrite	ug/l	10000	NS	NA	NA	NA	NA	NA	< 100	< 100	230	< 100	< 100	NA	NA	NA	NA	NA	NA	< 100	460
Nitrogen, Nitrite	ug/l	1000	1000	NA	NA	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA	NA	< 10	< 10
Phosphorus, Total	ug/l	NS	NS	NA	NA	NA	NA	NA	< 50	61	61	< 50	< 50	NA	NA	NA	NA	NA	NA	< 50	83
Sulfate	ug/l	250000	NS	24600	17100	15200	19200	NA	8000	< 10000	< 10000	< 10000	< 10000	11500	19400	< 10000	< 10000	NA	NA	21400	18200
Total Dissolved Solids	ug/l	500000	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total organic carbon	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See footnotes on last page

Location ID		GWQS[1]	EPA	OB-06	OB-06	OB-06	OB-06	OB-07	OB-07	OB-07	OB-07	OB-07	OB-07	OB-07	OB-07	OB-07	OB-07	OB-07	OB-07	OB-07	OB-10
Sample ID			MCLs	OB-6(071009)	OB-6(080501)	OB-6(080908)	OB-6(070209)	OB-7 (101304)	REP101304	OB-7	OB7(041107)	OB-7(071009)	OB-7(080430)	OB-7(080910)	OB-7(080910) Dup	OB-7(070109)	OB-7(102109)	OB-7(052510)	OB-7(052510) Dup	OB-7(051711)	OB-10 (10/14/04)
Sample Date	Units			10/9/2007	5/1/2008	9/8/2008	7/2/2009	10/13/2004	10/13/2004	9/28/2006	4/11/2007	10/9/2007	4/30/2008	9/10/2008	9/10/2008	7/1/2009	10/21/2009	5/25/2010	5/25/2010	5/17/2011	10/14/2004
VOC																					
1,1,1,2-Tetrachloroethane	ug/l	1	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/l	30	200	< 0.3	< 0.24	< 0.24	< 0.26	< 0.5	< 0.5	< 0.28	< 0.28	< 0.3	< 0.24	< 0.24	< 0.24	< 0.26	< 0.26	< 0.26	< 0.26	< 0.2	< 0.5
1,1,2,2-Tetrachloroethane	ug/l	1	NS	< 0.8	< 0.13	< 0.13	< 0.24	< 0.3	< 0.3	< 0.28	< 0.28	< 0.8	< 0.13	< 0.13	< 0.13	< 0.24	< 0.24	< 0.24	< 0.24	< 0.12	< 0.3
1,1,2-Trichloroethane	ug/l	3	5	< 0.49	< 0.17	< 0.17	< 0.23	< 0.5	< 0.5	< 0.32	< 0.32	< 0.49	< 0.17	< 0.17	< 0.17	< 0.23	< 0.23	< 0.23	< 0.23	< 0.13	< 0.5
1,1-Dichloroethane	ug/l	50	NS	< 0.2	< 0.16	< 0.24	< 0.29	< 0.5	< 0.5	< 0.23	< 0.23	< 0.2	< 0.16	< 0.24	< 0.24	< 0.29	< 0.29	< 0.29	< 0.29	< 0.16	< 0.5
1,1-Dichloroethene	ug/l	1	7	< 0.28	< 0.29	< 0.29	< 0.4	< 0.5	< 0.5	< 0.33	< 0.33	< 0.28	< 0.29	< 0.29	< 0.29	< 0.4	< 0.4	< 0.4	< 0.4	< 0.24	< 0.5
1,2,4-Trichlorobenzene	ug/l	9	70	< 0.41	< 1.3	< 1.3	< 0.56	< 0.5	< 0.5	< 0.16	< 0.16	< 0.41	< 1.3	< 1.3	< 1.3	< 0.56	< 0.56	< 0.56	< 0.56	< 0.16	< 0.5
1,2-Dibromo-3-Chloropropane (DBCP)	ug/l	0.02 [1]	0.2	< 0.8	< 2.4	< 1.3	< 1.1	< 1	< 1	< 1.1	< 1.1	< 0.8	< 2.4	< 1.3	< 1.3	< 1.1	< 1.1	< 1.1	< 1.1	< 1.2	< 1
1,2-Dibromoethane	ug/l	0.03 [0.5]	0.05	< 0.45	< 0.17	< 0.18	< 0.39	< 0.5	< 0.5	< 0.52	< 0.52	< 0.45	< 0.17	< 0.18	< 0.18	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.5
1,2-Dichlorobenzene	ug/l	600	600	< 0.2	< 0.18	< 0.18	< 0.26	< 0.5	< 0.5	< 0.2	< 0.2	< 0.2	< 0.18	< 0.18	< 0.18	< 0.26	< 0.26	< 0.26	< 0.26	< 0.15	< 0.5
1,2-Dichloroethane	ug/l	2	5	< 0.29	< 0.35	< 0.35	< 0.33	< 0.5	< 0.5	< 0.29	< 0.29	< 0.29	< 0.35	< 0.35	< 0.35	< 0.33	< 0.33	< 0.33	< 0.33	< 0.31	< 0.5
1,2-Dichloropropane	ug/l	1	5	< 0.24	< 0.18	< 0.18	< 0.27	< 0.5	< 0.5	< 0.2	< 0.2	< 0.24	< 0.18	< 0.18	< 0.18	< 0.27	< 0.27	< 0.27	< 0.27	< 0.23	< 0.5
1,3-Dichlorobenzene	ug/l	600	NS	< 0.21	< 0.26	< 0.26	< 0.25	< 0.5	< 0.5	< 0.32	< 0.32	< 0.21	< 0.26	< 0.26	< 0.26	< 0.25	< 0.25	< 0.25	< 0.25	< 0.19	< 0.5
1,4-Dichlorobenzene	ug/l	75	75	< 0.17	< 0.32	< 0.22	< 0.28	< 0.5	< 0.5	0.34 J	< 0.24	< 0.17	< 0.32	< 0.22	< 0.22	< 0.28	< 0.28	< 0.28	< 0.28	< 0.22	< 0.5
2-Butanone (MEK)	ug/l	300	NS	< 2.7	< 2.3	< 2.3	< 1.6	< 2.5	< 2.5	< 2.6	< 2.6	< 2.7	< 2.3	< 2.3	< 2.3	< 1.6	< 1.6	< 1.6	< 1.6	< 1.7	< 2.5
2-Hexanone	ug/l	NS	NS	< 0.94	< 1.7	< 1.7	< 1.4	< 2.5	< 2.5	< 1.3	< 1.3	< 0.94	< 1.7	< 1.7	< 1.7	< 1.4	< 1.4	< 1.4	< 1.4	< 1.9	< 2.5
4-methyl-2-pentanone (MIBK)	ug/l	NS	NS	< 1.4	< 1.9	< 1.3	< 0.86	< 2.5	< 2.5	< 1.1	< 1.1	< 1.4	< 1.9	< 1.3	< 1.3	< 0.86	< 0.86	< 0.86	< 0.86	< 0.74	< 2.5
Acetone	ug/l	6000	NS	< 2.9	< 2.1	< 2.1	< 2.9	< 5	< 5	< 2.4	< 2.4	< 2.9	< 2.1	< 2.1	< 2.1	< 2.9	< 2.9	< 2.9	< 2.9	< 4.4	< 5
Benzene	ug/l	1	5	< 0.19	< 0.26	< 0.26	< 0.23	< 0.5	< 0.5	< 0.21	< 0.21	< 0.19	< 0.26	< 0.26	< 0.26	< 0.23	< 0.23	< 0.23	< 0.23	< 0.26	< 0.5
Bromodichloromethane	ug/l	1	80	< 0.15	< 0.14	< 0.14	< 0.22	< 0.5	< 0.5	< 0.17	< 0.17	< 0.15	< 0.14	< 0.14	< 0.14	< 0.22	< 0.22	< 0.22	< 0.22	< 0.18	< 0.5
Bromoform	ug/l	4	80	< 0.34	< 0.18	< 0.18	< 0.23	< 0.5	< 0.5	< 0.54	< 0.54	< 0.34	< 0.18	< 0.18	< 0.18	< 0.23	< 0.23	< 0.23	< 0.23	< 0.42	< 0.5
Bromomethane	ug/l	10	NS	< 0.38	< 0.32	< 0.32	< 0.3	< 1	< 1	< 0.22	< 0.22	< 0.38	< 0.32	< 0.32	< 0.32	< 0.3	< 0.3	< 0.3	< 0.3	< 0.24	< 1
Carbon disulfide	ug/l	700	NS	< 0.14	< 0.15	< 0.16	< 0.74	< 1	< 1	< 0.21	< 0.21	< 0.14	< 0.15	< 0.16	< 0.16	< 0.74	< 0.74	< 0.74	< 0.74	< 0.13	< 1
Carbon tetrachloride	ug/l	1	5	< 0.19	< 0.18	< 0.18	< 0.26	< 0.5	< 0.5	< 0.29 J	< 0.29	< 0.19	< 0.18	< 0.18	< 0.18	< 0.26	< 0.26	< 0.26	< 0.26	< 0.35	< 0.5
Chlorobenzene	ug/l	50	100	< 0.19	< 0.14	< 0.19	< 0.39	< 0.5	< 0.5	< 0.22	< 0.22	< 0.19	< 0.14	< 0.19	< 0.19	< 0.39	< 0.39	< 0.39	< 0.39	< 0.15	< 0.5
Chloroethane	ug/l	NS	NS	< 0.67	< 0.22	< 0.22	< 0.37	< 1	< 1	< 0.56	< 0.56	< 0.67	< 0.22	< 0.22	< 0.22	< 0.37	< 0.37	< 0.37	< 0.37	< 0.25	< 1
Chloroform	ug/l	70	80	< 0.25	< 0.16	< 0.16	< 0.23	< 0.5	< 0.5	< 0.22	< 0.22	< 0.25	< 0.16	< 0.16	< 0.16	< 0.23	< 0.23	< 0.23	< 0.23	< 0.14	< 0.5
Chloromethane	ug/l	NS	NS	< 0.3	< 0.29	< 0.29	< 0.29	< 1	< 1	< 0.35	< 0.35	< 0.3	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.34	< 1
cis-1,2-Dichloroethene	ug/l	70	70	< 0.27	< 0.19	< 0.25	< 0.22	< 0.5	< 0.5	< 0.18	< 0.18	< 0.27	< 0.19	< 0.25	< 0.25	< 0.22	< 0.22	< 0.22	< 0.22	< 0.24	< 0.5
cis-1,3-Dichloropropene	ug/l	NS	NS	< 0.13	< 0.15	< 0.18	< 0.25	< 0.3	< 0.3	< 0.15	< 0.15	< 0.13	< 0.15	< 0.18	< 0.18	< 0.25	< 0.25	< 0.25	< 0.25	< 0.16	< 0.3
Cyclohexane	ug/l	NS	NS	< 0.85	< 0.85	< 0.85	< 1.9	< 0.5	< 0.5	< 0.5	< 0.5	< 0.85	< 0.85	< 0.85	< 0.85	< 1.9	< 1.9	< 1.9	< 1.9	< 0.43	< 0.5
Dibromochloromethane	ug/l	1	80	< 0.28	< 0.12	< 0.16	< 0.22	< 0.4	< 0.4	< 0.19	< 0.19	< 0.28	< 0.12	< 0.16	< 0.16	< 0.22	< 0.22	< 0.22	< 0.22	< 0.16	< 0.4
Dichlorodifluoromethane	ug/l	1,000	NS	< 1	< 0.88	< 0.88	< 0.92	< 0.5	< 0.5	< 0.75	< 0.75	< 1	< 0.88	< 0.88	< 0.88	< 0.92	< 0.92	< 0.92	< 0.92	< 0.39	< 0.5
Ethylbenzene	ug/l	700	700	< 0.21	< 0.27	< 0.27	< 0.27	< 0.5	< 0.5	< 0.2	< 0.2	< 0.21	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.31	< 0.5
Freon 113	ug/l	NS	NS	< 1.2	< 0.8	< 0.8	< 0.38	< 0.5	< 0.5	< 0.69	< 0.69	< 1.2	< 0.8	< 0.8	< 0.8	< 0.38	< 0.38	< 0.38	< 0.38	< 0.66	< 0.5
Isopropylbenzene	ug/l	700	NS	< 0.54	< 0.15	< 0.19	< 0.57	< 0.5	< 0.5	< 0.2	< 0.2	< 0.54	< 0.15	< 0.19	< 0.19	< 0.57	< 0.57	< 0.57	< 0.57	< 0.31	< 0.5
Methyl acetate	ug/l	7000	NS	< 1.6	< 2.5	< 1.7	< 1.5	< 5	< 5	< 2.1	< 2.1	< 1.6	< 2.5	< 1.7	< 1.7	< 1.5	< 1.5	< 1.5	< 1.5	< 1.3	< 5
Methyl tert butyl ether	ug/l	70	NS	< 0.2	< 0.14	< 0.16	< 0.23	< 0.5	< 0.5	< 0.31	< 0.31	< 0.2	< 0.14	< 0.16	< 0.16	< 0.23	< 0.23	< 0.23	< 0.23	< 0.2	< 0.5
Methylcyclohexane	ug/l	NS	NS	< 0.5	< 0.11	< 0.11	< 0.35	< 0.5	< 0.5	< 0.18	< 0.18	< 0.5	< 0.11	< 0.11	< 0.11	< 0.35	< 0.35	< 0.35	< 0.35	< 0.16	< 0.5
Methylene chloride	ug/l	3	5	< 0.21	< 0.16	< 0.16	< 0.3	1.6 J	< 1	< 0.27	< 0.27	< 0.21	< 0.16	< 0.16	< 0.16	< 0.3	< 0.3	< 0.3	< 0.3	< 0.2	< 1
o-Xylene	ug/l	NS	NS	< 0.2	< 0.45	< 0.45	< 0.25	NA	NA	< 0.31	< 0.31	< 0.2	< 0.45	< 0.45	< 0.45	< 0.25	< 0.25	NA	NA	NA	NA
Styrene	ug/l	100	100	< 0.2	< 0.11	< 0.17	< 0.58	< 0.5	< 0.5	< 0.16	< 0.16	< 0.2	< 0.11	< 0.17	< 0.17	< 0.58	< 0.58	< 0.58	< 0.58	< 0.48	< 0.5
Tertiary Butyl Alcohol	ug/l	100	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	ug/l	1	5	< 0.28	< 0.29	< 0.29	< 0.27	< 0.5	< 0.5	< 0.28	< 0.28	< 0.28	< 0.29	< 0.29	< 0.29	< 0.27	< 0.27	< 0.27	< 0.27	< 0.24	< 0.5
Toluene	ug/l	600	1000	< 0.21	< 0.15	< 0.15	< 0.3	< 0.5	< 0.5	< 0.2	< 0.2	< 0.21	< 0.15	< 0.15	< 0.15	< 0.3	< 0.3	< 0.3	< 0.3	< 0.27	< 0.5
Trans-1,2-dichloroethene	ug/l	100	100	< 0.32	< 0.16	< 0.16	< 0.25	< 0.5	< 0.5	< 0.42	< 0.42	< 0.32	< 0.16	< 0.16	< 0.16	< 0.25	< 0.25	< 0.25	< 0.25	< 0.3	< 0.5
trans-1,3-Dichloropropene	ug/l	NS	NS	< 0.17	< 0.11	< 0.15	< 0.21	< 0.3	< 0.3	< 0.2	< 0.2	< 0.17	< 0.11	< 0.15	< 0.15	< 0.21	< 0.21	< 0.21	< 0.21	< 0.22	< 0.3
Trichloroethene	ug/l	1	5	< 0.26	< 0.18	< 0.18	< 0.24	< 0.5	< 0.5	< 0.29	< 0.29	< 0.26	< 0.18	< 0.18	< 0.18	< 0.24	< 0.24	< 0.24	< 0.24	< 0.22	< 0.5
Trichlorofluoromethane	ug/l	2000	NS	< 0.26	< 0.25	< 0.25	< 0.54	< 0.6	< 0.6	< 0.25	< 0.25	< 0.26	< 0.25	< 0.25	< 0.25	< 0.54	< 0.54	< 0.54	< 0.54	< 0.23	< 0.6
Vinyl Chloride	ug/l	1	2	< 0.22	< 0.21	< 0.21	< 0.44	< 0.5	< 0.5	< 0.29	< 0.29	< 0.22	< 0.21	< 0.21	< 0.21	< 0.44	< 0.44	< 0.44	< 0.44	< 0.22	< 0.5
Xylene, -m,p	ug/l	NS	NS	< 0.35	< 0.39	< 0.39	< 0.25	NA	NA	< 0.42	< 0.42	< 0.35	< 0.39	< 0.39	< 0.39	< 0.25	< 0.25	NA	NA	NA	NA
Xylenes	ug/l	1,000	10000	< 0.2	< 0.39	< 0.39	< 0.25	< 1	< 1	< 0.31	< 0.31	< 0.2	< 0.39	< 0.39	< 0.39	< 0.25	< 0.25	< 0.25	< 0.25	< 0.28	< 1
Total TIC, Volatile	ug/l	NS	NS	0	0	0	14.6 J	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Location ID		GWQS[1]	EPA	OB-06	OB-06	OB-06	OB-06	OB-07	OB-07	OB-07	OB-07	OB-07	OB-07	OB-07	OB-07	OB-07	OB-07	OB-07	OB-07	OB-10
Sample ID			MCLs	OB-6(071009)	OB-6(080501)	OB-6(080908)	OB-6(070209)	OB-7 (101304)	REP101304	OB-7	OB7(041107)	OB-7(071009)	OB-7(080430)	OB-7(080910)	OB-7(080910) Dup	OB-7(070109)	OB-7(102109)	OB-7(052510)	OB-7(052510) Dup	OB-7(051711)	OB-10 (10/14/04)
Sample Date	Units			10/9/2007	5/1/2008	9/8/2008	7/2/2009	10/13/2004	10/13/2004	9/28/2006	4/11/2007	10/9/2007	4/30/2008	9/10/2008	9/10/2008	7/1/2009	10/21/2009	5/25/2010	5/25/2010	5/17/2011	10/14/2004
SVOC																					
1,1'-Biphenyl	ug/l	400	NS	< 0.33	< 0.24 J	< 0.55	< 0.48	< 0.29	< 0.29	< 0.34	< 0.33	< 0.34	< 0.23	< 0.6	< 0.55	< 0.46	< 0.44	< 0.47	< 0.45	< 0.47	< 0.29
1,2,4-Trichlorobenzene	ug/l	9	70	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	ug/l	600	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	ug/l	600	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	ug/l	75	75	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/l	700	NS	< 1.9	< 1.2 J	< 2	< 1.5	< 0.74	< 0.74	< 2	< 1.9	< 2	< 1.1	< 2.2	< 2	< 1.4	< 1.4	< 1.5 J	< 1.4	< 1.5	< 0.74
2,4,6-Trichlorophenol	ug/l	20	NS	< 1.3	< 1.1 J	< 1.6	< 1.4	< 0.8	< 0.8	< 1.3	< 1.3	< 1.3	< 1.1	< 1.7	< 1.6	< 1.3	< 1.3	< 1.4 J	< 1.3	< 1.4	< 0.8
2,4-Dichlorophenol	ug/l	20	NS	< 1.6	< 1.5 J	< 1.9	< 1.4	< 0.73	< 0.73	< 1.6	< 1.6	< 1.6	< 1.5	< 2.1	< 1.9	< 1.3	< 1.3	< 1.4 J	< 1.3	< 1.4	< 0.73
2,4-Dimethylphenol	ug/l	100	NS	< 1.6	< 1.8 J	< 2	< 1.9	< 1	< 1	< 1.7	< 1.6	< 1.7	< 1.7	< 2.2	< 2	< 1.8	< 1.7	< 1.8 J	< 1.8	< 1.8	< 1
2,4-Dinitrophenol	ug/l	40	NS	< 0.89	< 1.2 J	< 4.2	< 0.84	< 1.1	< 1.1	< 0.93	< 0.89	< 0.93	< 1.1	< 4.6	< 4.2	< 0.8	< 0.77	< 0.82 J	< 0.79	< 0.82	< 1.1
2,4-Dinitrotoluene	ug/l	NS	NS	< 0.86	< 0.59 J	< 0.45	< 0.25	< 0.78	< 0.78	< 0.9	< 0.86	< 0.9	< 0.57	< 0.5	< 0.45	< 0.24	< 0.23	< 0.24	< 0.24	< 0.24 J	< 0.78
2,6-Dinitrotoluene	ug/l	NS	NS	< 0.56	< 0.54 J	< 0.6	< 0.37	< 0.62	< 0.62	< 0.58	< 0.56	< 0.58	< 0.52	< 0.66	< 0.6	< 0.35	< 0.34	< 0.36	< 0.35	< 0.36	< 0.62
2-Chloronaphthalene	ug/l	600	NS	< 0.98	< 0.22 J	< 0.48	< 0.47	< 0.38	< 0.38	< 1	< 0.98	< 1	< 0.21	< 0.53	< 0.48	< 0.45	< 0.43	< 0.46	< 0.45	< 0.46	< 0.38
2-Chlorophenol	ug/l	40	NS	< 0.95	< 0.95 J	< 1.5	< 1.2	< 4.3	< 4.3	< 0.99	< 0.95	< 0.99	< 0.91	< 1.6	< 1.5	< 1.2	< 1.1	< 1.2 J	< 1.2	< 1.2	< 4.3
2-Methylnaphthalene	ug/l	NS	NS	< 0.41	< 0.83 J	< 0.43	< 0.75	< 0.72	< 0.72	< 0.43	< 0.41	< 0.43	< 0.8	< 0.47	< 0.43	< 0.72	< 0.69	< 0.73	< 0.71	< 0.73	< 0.72
2-Methylphenol	ug/l	NS	NS	< 1.4	< 1.1 J	< 1.4	< 1.3	< 0.72	< 0.72	< 1.4	< 1.4	< 1.4	< 1.1	< 1.5	< 1.4	< 1.2	< 1.2	< 1.2 J	< 1.2	< 1.2	< 0.72
2-Nitroaniline	ug/l	NS	NS	< 0.66	< 0.54 J	< 0.45	< 0.27	< 1.4	< 1.4	< 0.69	< 0.66	< 0.69	< 0.52	< 0.49	< 0.45	< 0.26	< 0.24	< 0.26	< 0.25	< 0.26	< 1.4
2-Nitrophenol	ug/l	NS	NS	< 1.8	< 1.6 J	< 1.9	< 1.4	< 0.73	< 0.73	< 1.9	< 1.8	< 1.9	< 1.6	< 2.1	< 1.9	< 1.3	< 1.3	< 1.4 J	< 1.3	< 1.4	< 0.73
3&4-Methylphenol	ug/l	NS	NS	< 1.3	< 1.2 J	< 1.5	< 1.2	< 0.7	< 0.7	< 1.3	< 1.3	< 1.3	< 1.1	< 1.6	< 1.5	< 1.1	< 1.1	< 1.2 J	< 1.1	< 1.2	< 0.7
3,3'-Dichlorobenzidine	ug/l	30	NS	< 1.2	< 1.1 J	< 4.6	< 0.34	< 0.39	< 0.39	< 1.3	< 1.2	< 1.3	< 1	< 5	< 4.6	< 0.32	< 0.31	< 0.33	< 0.32	< 0.33	< 0.39
3-Nitroaniline	ug/l	NS	NS	< 1.3	< 0.35 J	< 0.45	< 0.33	< 1.2	< 1.2	< 1.3	< 1.3	< 1.3	< 0.34	< 0.49	< 0.45	< 0.31	< 0.3	< 0.32	< 0.31	< 0.32	< 1.2
4,6-Dinitro-2-methylphenol	ug/l	NS	NS	< 0.72	< 2.4 J	< 1.2	< 0.58	< 0.65	< 0.65	< 0.75	< 0.72	< 0.75	< 2.3	< 1.3	< 1.2	< 0.56	< 0.53	< 0.57 J	< 0.55	< 0.57	< 0.65
4-Bromophenyl phenyl ether	ug/l	NS	NS	< 0.3	< 0.41 J	< 0.41	< 0.4	< 0.54	< 0.54	< 0.31	< 0.3	< 0.31	< 0.39	< 0.45	< 0.41	< 0.38	< 0.36	< 0.39	< 0.38	< 0.39	< 0.54
4-Chloro-3-Methylphenol	ug/l	NS	NS	< 1.2	< 1.3 J	< 2.3	< 1.2	< 4.7	< 4.7	< 1.2	< 1.2	< 1.2	< 1.3	< 2.5	< 2.3	< 1.1	< 1.1	< 1.2 J	< 1.1	< 1.2	< 4.7
4-Chloroaniline	ug/l	30	NS	< 0.4	< 0.38 J	< 0.33	< 0.29	< 0.43	< 0.43	< 0.41	< 0.4	< 0.41	< 0.36	< 0.37	< 0.33	< 0.28	< 0.26	< 0.28	< 0.27	< 0.28	< 0.43
4-Chlorophenyl phenyl ether	ug/l	NS	NS	< 0.43	< 0.32 J	< 0.45	< 0.4	< 1	< 1	< 0.45	< 0.43	< 0.45	< 0.3	< 0.5	< 0.45	< 0.38	< 0.37	< 0.39	< 0.38	< 0.39	< 1
4-Nitroaniline	ug/l	NS	NS	< 0.72	< 0.64 J	< 0.45	< 0.2	< 1.1	< 1.1	< 0.75	< 0.72	< 0.75	< 0.61	< 0.5	< 0.45	< 0.19	< 0.19	< 0.2	< 0.19	< 0.2	< 1.1
4-Nitrophenol	ug/l	NS	NS	< 0.84	< 1.7 J	< 2.3	< 0.94	< 2.3	< 2.3	< 0.88	< 0.84	< 0.88	< 1.6	< 2.5	< 2.3	< 0.9	< 0.86	< 0.92 J	< 0.89	< 0.92	< 2.3
Acenaphthene	ug/l	400	NS	NA	NA	NA	NA	< 0.3	< 0.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.3
Acenaphthylene	ug/l	NS	NS	NA	NA	NA	NA	< 0.35	< 0.35	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.35
Acetophenone	ug/l	700	NS	< 0.37	< 0.39 J	< 0.47	< 0.45	< 0.53	< 0.53	< 0.39	< 0.37	< 0.39	< 0.38	< 0.51	< 0.47	< 0.43	< 0.42	< 0.44	< 0.43	< 0.44	< 0.53
Anthracene	ug/l	2000	NS	NA	NA	NA	NA	< 0.22	< 0.22	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.22
Atrazine	ug/l	3	3	< 0.16	< 0.31 J	< 0.62	< 0.44	< 1.5	< 1.5	< 0.17	< 0.16	< 0.17	< 0.29	< 0.67	< 0.62	< 0.43	< 0.41	< 0.43	< 0.42	< 0.43	< 1.5
Benzaldehyde	ug/l	NS	NS	R	< 0.83 J	< 1.6	< 0.46	< 3.6	< 3.6	< 0.28	< 0.27	R	< 0.79	< 1.8	< 1.6	< 0.44	< 0.42	< 0.45	< 0.43	< 0.45	< 3.6
Benzo(a)anthracene	ug/l	0.1 [0.2]	NS	NA	NA	NA	NA	< 0.27	< 0.27	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.27
Benzo(a)pyrene	ug/l	0.1 [0.2]	0.2	NA	NA	NA	NA	< 0.38	< 0.38	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.38
Benzo(b)fluoranthene	ug/l	0.2 [10]	NS	NA	NA	NA	NA	< 0.37	< 0.37	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.37
Benzo(g,h,i)perylene	ug/l	NS	NS	NA	NA	NA	NA	< 0.5	< 0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.5
Benzo(k)fluoranthene	ug/l	0.5	NS	NA	NA	NA	NA	< 0.37	< 0.37	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.37
Benzyl butyl phthalate	ug/l	100	NS	< 0.59	< 0.69 J	< 0.42	< 0.29	< 0.54	< 0.54	< 0.62	< 0.59	< 0.62	< 0.66	< 0.46	< 0.42	< 0.27	< 0.26	< 0.28	< 0.27	< 0.28	< 0.54
bis(2-Chloroethoxy)methane	ug/l	NS	NS	< 0.65	< 0.35 J	< 0.52	< 0.28	< 0.34	< 0.34	< 0.68	< 0.65	< 0.68	< 0.33	< 0.57	< 0.52	< 0.27	< 0.26	< 0.28	< 0.27	< 0.28	< 0.34
bis(2-Chloroethyl)ether	ug/l	7	NS	< 0.53	< 0.73 J	< 0.49	< 0.35	< 0.49	< 0.49	< 0.55	< 0.53	< 0.55	< 0.7	< 0.54	< 0.49	< 0.34	< 0.32	< 0.34	< 0.33	< 0.34	< 0.49
bis(2-Chloroisopropyl)ether	ug/l	300	NS	< 0.74	< 0.63 J	< 0.54	< 0.44	< 0.44	< 0.44	< 0.77	< 0.74	< 0.77	< 0.6	< 0.59	< 0.54	< 0.42	< 0.41	< 0.43	< 0.42	< 0.43	< 0.44
bis(2-Ethylhexyl)phthalate	ug/l	3	6	< 0.66	< 0.95 J	< 0.75	< 0.37	< 0.74	< 0.74	< 0.69	2.6	< 0.69	< 0.91	< 0.82	< 0.75	< 0.36	< 0.34	< 0.36	< 0.35	< 0.36	< 0.74
Caprolactam	ug/l	NS	NS	< 0.32	< 0.53 J	< 0.63	< 0.22	< 0.44	< 0.44	< 0.33	< 0.32	< 0.33	< 0.51	< 0.68	< 0.63	< 0.21	< 0.2	< 0.22	< 0.21	< 0.22	< 0.44
Carbazole	ug/l	NS	NS	< 0.36	< 0.43 J	< 0.45	< 0.19	< 0.34	< 0.34	< 0.38	< 0.36	< 0.38	< 0.41	< 0.49	< 0.45	< 0.18	< 0.17	< 0.18	< 0.18	< 0.18	< 0.34
Chrysene	ug/l	5	NS	NA	NA	NA	NA	< 0.26	< 0.26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.26
Dibenzo(a,h)anthracene	ug/l	0.3 [0.5]	NS	NA	NA	NA	NA	< 0.58	< 0.58	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.58
Dibenzofuran	ug/l	NS	NS	< 0.34	< 0.25 J	< 0.49	< 0.35	< 0.49	< 0.49	< 0.36	< 0.34	< 0.36	< 0.24	< 0.53	< 0.49	< 0.33	< 0.32	< 0.34	< 0.33	< 0.34	< 0.49
Diethyl phthalate	ug/l	6000	NS	< 0.39	< 0.37 J	< 0.36	< 0.19	< 1.4	< 1.4	< 0.41	< 0.39	< 0.41	< 0.36	< 0.39	< 0.36	< 0.18	< 0.17	< 0.18	< 0.18	< 0.18	< 1.4
Dimethyl phthalate	ug/l	NS	NS	< 0.33	< 0.37 J	< 0.36	< 0.26	< 0.58	< 0.58	< 0.34	< 0.33	< 0.34	< 0.35	< 0.39	< 0.36	< 0.24	< 0.23	< 0.25	< 0.24	< 0.25	< 0.58
di-n-butyl phthalate	ug/l	700	NS	< 0.59	< 0.43 J	< 0.5	< 0.22	< 0.79	< 0.79	< 0.62	< 0.59	< 0.62	< 0.42	< 0.55	< 0.5	< 0.21	< 0.2	< 0.21	< 0.21	< 0.21	< 0.79
di-n-octylphthalate	ug/l	100	NS	< 0.57	< 0.52 J	< 0.5	< 0.45	< 0.63	< 0.63	< 0.59	< 0.57	< 0.59	< 0.5	< 0.54	< 0.5	< 0.43	< 0.41	< 0.44	< 0.42	< 0.44	< 0.63
Fluoranthene	ug/l	300	NS	NA	NA	NA	NA	< 0.63	< 0.63	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.63
Fluorene	ug/l	300	NS	NA	NA	NA	NA	< 0.89	< 0.89	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.89
Hexachlorobenzene	ug/l	0.02 [10]	1	NA	NA	NA	NA	< 1.2	< 1.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.2
Hexachlorobutadiene	ug/l	1	NS	R	< 0.14 J	< 0.38	< 0.42	< 0.41	< 0.41	< 0.18	< 0.18	R	< 0.13	< 0.41	< 0.38	< 0.4	< 0.39	< 0.14	< 0.14	< 0.14	< 0.41
Hexachlorocyclopentadiene	ug/l	40	50	< 0.41	< 0.11 J	< 4.5	< 0.76	< 0.45	< 0.45	< 0.42	< 0.41	< 0.42	< 0.11	< 5	< 4.5	< 0.73	< 0.7	< 0.27	< 0.26	< 0.27	< 0.45
Hexachloroethane	ug/l	7	NS	< 0.28	< 0.18 J	< 0.3	< 0.3	< 0.67	< 0.67	< 0.29	< 0.28	< 0.29	< 0.17	< 0.33	< 0.3	< 0.29	< 0.27	< 0.23	< 0.22	< 0.23	< 0.67
Indeno(1,2,3-cd)pyrene	ug/l	0.2 [10]	NS	NA	NA	NA	NA	< 1.5	< 1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.5
Isophrone	ug/l	40	NS	< 0.59	< 0.53 J	< 0.69	< 0.28	< 0.54	< 0.54	< 0.61	< 0.59	< 0.61	< 0.51	< 0.76	< 0.69	< 0.27	< 0.26	< 0.28	< 0.27	< 0.28	< 0.54
Naphthalene	ug/l	300	NS	NA	NA	NA	NA	< 1	< 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1
Nitrobenzene	ug/l	6	NS	< 0.42	< 0.77 J	< 0.66	< 0.29	< 0.61	< 0.61	< 0.44	< 0.42	< 0.44	< 0.73	< 0.72	< 0.66	< 0.28	< 0.26	< 0.28	< 0.27	< 0.28	< 0.61
N-Nitroso-di-n-Propylamine	ug/l	10	NS	< 0.47	< 0.42 J	< 0.39	< 0.5	< 0.5	< 0.5	< 0.49	< 0.47	< 0.49	< 0.4	< 0.43	< 0.39	< 0.48	< 0.46	< 0.49	< 0.47	< 0.49	< 0.5
N-Nitrosodiphenylamine	ug/l	10	NS	< 0.52	< 0.45 J	< 0.61	< 0.24	< 0.8	< 0.8	< 0.54	< 0.52	< 0.54	< 0.43	< 0.66	< 0.61	< 0.23	< 0.22	< 0.24	< 0.23	< 0.24	< 0.8
Pentachlorophenol	ug/l	0.3 [1]	1	NA	NA	NA	NA	< 0.75	< 0.75	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.75
Phenanthrene	ug/l	NS	NS	NA	NA	NA	NA	< 0.23	< 0.23	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.23
Phenol	ug/l	2000	NS	< 0.5	< 0.74 J	< 1.4	< 0.66	< 1.8	< 1.8	< 0.52	< 0.5	< 0.52	< 0.71	< 1.5	< 1.4	< 0.63	< 0.6	< 0.64 J	< 0.62	< 0.64	< 1.8
Pyrene	ug/l	200	NS	NA	NA	NA	NA	< 0.58	< 0.58	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.58
Total TIC, Semi-Volatile	ug/l	NS	NS	0	0	4.6 J	18 J	0	0	0	0	0	5.1 J	11 J	11 J	0	0	0	0	0	0

Location ID		GWQS[1]	EPA	OB-06	OB-06	OB-06	OB-06	OB-07	OB-07	OB-07	OB-07	OB-07	OB-07	OB-07	OB-07	OB-07	OB-07	OB-07	OB-07	OB-10
Sample ID			MCLs	OB-6(071009)	OB-6(080501)	OB-6(080908)	OB-6(070209)	OB-7 (101304)	REP101304	OB-7	OB7(041107)	OB-7(071009)	OB-7(080430)	OB-7(080910)	OB-7(080910) Dup	OB-7(070109)	OB-7(102109)	OB-7(052510)	OB-7(052510) Dup	OB-7(051711)	OB-10 (10/14/04)
Sample Date	Units			10/9/2007	5/1/2008	9/8/2008	7/2/2009	10/13/2004	10/13/2004	9/28/2006	4/11/2007	10/9/2007	4/30/2008	9/10/2008	9/10/2008	7/1/2009	10/21/2009	5/25/2010	5/25/2010	5/17/2011	10/14/2004
SVOC BY SIM																					
Acenaphthene	ug/l	400	NS	< 0.017	< 0.018	< 0.016	< 0.018	NA	NA	< 0.018	< 0.017	< 0.018	< 0.017	< 0.017	< 0.016	< 0.017	< 0.03	< 0.032	< 0.031	< 0.015	NA
Acenaphthylene	ug/l	NS	NS	< 0.0095	< 0.0078	< 0.007	< 0.008	NA	NA	< 0.0099	< 0.0095	< 0.0099	< 0.0073	< 0.0077	< 0.007	< 0.0076	< 0.041	< 0.044	< 0.042	< 0.018	NA
Anthracene	ug/l	2000	NS	< 0.021	< 0.023	< 0.021	< 0.024	NA	NA	< 0.022	< 0.021	< 0.022	< 0.022	< 0.023	< 0.021	< 0.023	< 0.027	< 0.028	< 0.028	< 0.011	NA
Benzo(a)anthracene	ug/l	0.1 [0.2]	NS	< 0.0068	< 0.037	< 0.034	< 0.038	NA	NA	< 0.0071	< 0.0068	< 0.0071	< 0.035	< 0.037	< 0.034	< 0.037	< 0.025	< 0.026	< 0.025	< 0.017	NA
Benzo(a)pyrene	ug/l	0.1 [0.2]	0.2	< 0.017	< 0.039	< 0.036	< 0.04	NA	NA	< 0.018	< 0.017	< 0.018	< 0.037	< 0.039	< 0.036	< 0.039	< 0.032	< 0.034	< 0.033	< 0.0054	NA
Benzo(b)fluoranthene	ug/l	0.2 [10]	NS	< 0.036	< 0.019	< 0.017	< 0.019	NA	NA	< 0.038	< 0.036	< 0.038	< 0.018	< 0.019	< 0.017	< 0.018	< 0.037	< 0.04	< 0.038	< 0.018	NA
Benzo(g,h,i)perylene	ug/l	NS	NS	< 0.018	< 0.013	< 0.012	< 0.013	NA	NA	< 0.019	< 0.018	< 0.019	< 0.012	< 0.013	< 0.012	< 0.013	< 0.03	< 0.032	< 0.031	< 0.011	NA
Benzo(k)fluoranthene	ug/l	0.5	NS	< 0.016	< 0.021	< 0.019	< 0.021	NA	NA	< 0.016	< 0.016	< 0.016	< 0.02	< 0.021	< 0.019	< 0.02	< 0.029	< 0.031	< 0.03	< 0.014	NA
Chrysene	ug/l	5	NS	< 0.017	< 0.02	< 0.018	< 0.02	NA	NA	< 0.017	< 0.017	< 0.017	< 0.018	< 0.019	< 0.018	< 0.019	< 0.023	< 0.024	< 0.024	< 0.026	NA
Dibenzo(a,h)anthracene	ug/l	0.3 [0.5]	NS	< 0.016	< 0.022	< 0.02	< 0.023	NA	NA	< 0.017	< 0.016	< 0.017	< 0.021	< 0.022	< 0.02	< 0.022	< 0.023	< 0.025	< 0.024	< 0.025	NA
Fluoranthene	ug/l	300	NS	< 0.009	< 0.011	< 0.0096	< 0.011	NA	NA	< 0.0094	< 0.009	< 0.0094	< 0.01	< 0.01	< 0.0096	< 0.01	< 0.025	< 0.027	< 0.026	< 0.011	NA
Fluorene	ug/l	300	NS	< 0.02	< 0.022	< 0.02	< 0.022	NA	NA	< 0.021 J	< 0.02	< 0.021	< 0.02	< 0.021	< 0.02	< 0.021	< 0.028	< 0.03	< 0.029	< 0.017	NA
Hexachlorobenzene	ug/l	0.02 [10]	1	< 0.02	< 0.011	< 0.0099	< 0.011	NA	NA	< 0.063	< 0.02	< 0.021	< 0.01 J	< 0.011	< 0.0099	< 0.011	< 0.01	< 0.011	< 0.011	< 0.0089	NA
Indeno(1,2,3-cd)pyrene	ug/l	0.2 [10]	NS	< 0.011	< 0.016	< 0.014	< 0.016	NA	NA	< 0.012	< 0.011	< 0.012	< 0.015	< 0.016	< 0.014	< 0.016	< 0.03	< 0.032	< 0.031	< 0.012	NA
Naphthalene	ug/l	300	NS	< 0.026	< 0.015	< 0.014	< 0.016	NA	NA	< 0.027	< 0.026	< 0.027	< 0.014	< 0.015	< 0.014	< 0.015	< 0.019	< 0.021	< 0.02	< 0.018	NA
Pentachlorophenol	ug/l	0.3 [1]	1	R	< 0.24 J	< 0.22	< 0.25	NA	NA	< 0.41 **	< 0.3	R	< 0.23 J	< 0.24	< 0.22	< 0.24	< 0.23	< 0.076	< 0.073	< 0.32	NA
Phenanthrene	ug/l	NS	NS	< 0.021	< 0.019	< 0.017	< 0.019	NA	NA	< 0.022	< 0.021	< 0.022	< 0.018	< 0.019	< 0.017	< 0.018	< 0.038	< 0.04	< 0.039	< 0.017	NA
Pyrene	ug/l	200	NS	< 0.014	< 0.013	< 0.012	< 0.014	NA	NA	< 0.015	< 0.014	< 0.015	< 0.013	< 0.013	< 0.012	< 0.013	< 0.023	< 0.025	< 0.024	< 0.009	NA
PCBs																					
PCB 1016	ug/l	0.5	0.5	< 0.094	< 0.11	< 0.094	< 0.21	< 0.075 J	< 0.075 J	< 0.1	< 0.1	< 0.1	< 0.099	< 0.094	< 0.094	< 0.19	< 0.34	< 0.32	< 0.31	< 0.14	< 0.075
PCB 1221	ug/l	0.5	0.5	< 0.47	< 0.53	< 0.47	< 0.34	< 0.085	< 0.085	< 0.51	< 0.5	< 0.52	< 0.49	< 0.47	< 0.47	< 0.31	< 0.46	< 0.43	< 0.43	< 0.29	< 0.085
PCB 1232	ug/l	0.5	0.5	< 0.39	< 0.44	< 0.39	< 0.23	< 0.12	< 0.12	< 0.42	< 0.41	< 0.43	< 0.41	< 0.39	< 0.39	< 0.21	< 0.35	< 0.33	< 0.32	< 0.42	< 0.12
PCB 1242	ug/l	0.5	0.5	< 0.16	< 0.19	< 0.16	< 0.099	< 0.13	< 0.13	< 0.18	< 0.17	< 0.18	< 0.17	< 0.16	< 0.16	< 0.089	< 0.3	< 0.28	< 0.28	< 0.093	< 0.13
PCB 1248	ug/l	0.5	0.5	< 0.15	< 0.17	< 0.15	< 0.28	< 0.072	< 0.072	< 0.17	< 0.16	< 0.17	< 0.16	< 0.15	< 0.15	< 0.25	< 0.31	< 0.29	< 0.29	< 0.16	< 0.072
PCB 1254	ug/l	0.5	0.5	< 0.11	< 0.12	< 0.11	< 0.12	< 0.072	< 0.072	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11	< 0.11	< 0.11	< 0.2	< 0.19	< 0.19	< 0.15	< 0.072
PCB 1260	ug/l	0.5	0.5	< 0.12	< 0.13	< 0.12	< 0.16	< 0.1	< 0.1	< 0.13	< 0.12	< 0.13	< 0.12	< 0.12	< 0.12	< 0.14	< 0.16	< 0.15	< 0.15	< 0.23	< 0.1
Total PCBs	ug/l	0.5	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pesticides/Herbicides																					
4,4-DDD	ug/l	0.1	NS	NA	NA	NA	NA	< 0.017	< 0.017	< 0.0025	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.017
4,4-DDE	ug/l	0.1	NS	NA	NA	NA	NA	< 0.0041	< 0.0041	< 0.0017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0041
4,4-DDT	ug/l	0.1	NS	NA	NA	NA	NA	< 0.018 J	< 0.018	< 0.0051	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.018 J
Aldrin	ug/l	0.04	NS	NA	NA	NA	NA	< 0.0079	< 0.0079	< 0.0034	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0079
alpha-BHC	ug/l	0.02	NS	NA	NA	NA	NA	< 0.013	< 0.013	< 0.0027	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.013
alpha-Chlordane	ug/l	NS	NS	NA	NA	NA	NA	< 0.018	< 0.018	< 0.0045	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.018
beta-BHC	ug/l	0.04	NS	NA	NA	NA	NA	< 0.0086	< 0.0086	< 0.0064	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0086
delta-BHC	ug/l	NS	NS	NA	NA	NA	NA	< 0.0098	< 0.0098	< 0.0032	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0098
Dieldrin	ug/l	0.03	NS	NA	NA	NA	NA	< 0.013	< 0.013	< 0.0018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.013
Endosulfan I (alpha)	ug/l	40	NS	NA	NA	NA	NA	< 0.0029	< 0.0029	< 0.0022	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0029
Endosulfan II (beta)	ug/l	40	NS	NA	NA	NA	NA	< 0.0028	< 0.0028	< 0.0033	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0028
Endosulfan sulfate	ug/l	40	NS	NA	NA	NA	NA	< 0.013	< 0.013	< 0.0048	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.013
Endrin	ug/l	2	2	NA	NA	NA	NA	< 0.011	< 0.011	< 0.0031	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.011
Endrin Aldehyde	ug/l	NS	NS	NA	NA	NA	NA	< 0.02	< 0.02	< 0.0066	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.02
Endrin ketone	ug/l	NS	NS	NA	NA	NA	NA	< 0.0053	< 0.0053	< 0.0036	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0053
gamma-Chlordane	ug/l	NS	NS	NA	NA	NA	NA	< 0.013	< 0.013	< 0.0018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.013
Heptachlor	ug/l	0.05	0.4	NA	NA	NA	NA	< 0.0059	< 0.0059	< 0.0026	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0059
Heptachlor epoxide	ug/l	0.2	0.2	NA	NA	NA	NA	< 0.011	< 0.011	< 0.0015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.011
Lindane	ug/l	0.03	0.2	NA	NA	NA	NA	< 0.0026	< 0.0026	< 0.0018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0026
Methoxychlor	ug/l	40	40	NA	NA	NA	NA	< 0.012 J	< 0.012	< 0.007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.012 J
Toxaphene	ug/l	2	3	NA	NA	NA	NA	< 0.25	< 0.25	< 0.097	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.25

Table 15: Summary of Historical Ground Water Analytical Results, 2004-2011
Ringwood Mines/Landfill Site, Ringwood, New Jersey

Location ID		GWQS[1]	EPA	OB-06	OB-06	OB-06	OB-06	OB-07	OB-07	OB-07	OB-07	OB-07	OB-07	OB-07	OB-07	OB-07	OB-07	OB-07	OB-07	OB-10
Sample ID			MCLs	OB-6(071009)	OB-6(080501)	OB-6(080908)	OB-6(070209)	OB-7 (101304)	REP101304	OB-7	OB7(041107)	OB-7(071009)	OB-7(080430)	OB-7(080910)	OB-7(080910) Dup	OB-7(070109)	OB-7(102109)	OB-7(052510)	OB-7(052510) Dup	OB-7(051711)	OB-10 (10/14/04)
Sample Date	Units			10/9/2007	5/1/2008	9/8/2008	7/2/2009	10/13/2004	10/13/2004	9/28/2006	4/11/2007	10/9/2007	4/30/2008	9/10/2008	9/10/2008	7/1/2009	10/21/2009	5/25/2010	5/25/2010	5/17/2011	10/14/2004
Metals - Total																					
Aluminum	ug/l	200	NS	< 26	< 24	< 24	< 26	< 200	< 200	< 110	< 23	< 26	< 24	< 24	< 24	< 26	< 26	44.2 BJ	39.7 BJ	< 200	< 200
Antimony	ug/l	6	6	< 0.9	< 1.8 B	< 1.8	< 4	< 5	< 5	< 4.4	< 5	< 0.9	< 1.8	< 1.8	< 1.8	< 4	< 2.9	< 2.2	< 2.2	< 1.3	< 5
Arsenic	ug/l	3 [8]	10	< 1.1	< 1.7	< 1.7	< 2.4	< 5	< 5	< 1.5	< 1.5	< 1.1	< 1.7	< 1.7	< 1.7	< 2.4	< 2.4	< 1.4	< 1.4	< 0.92	< 5
Barium	ug/l	6000	2000	27.8 B	15.1 B	32.3 B	15.8 B	< 200	< 200	17.1 BJ	13.7 B	18.8 B	15.7 B	17.1 B	16.7 B	15.7 B	14.7 B	13.1 BJ	12.6 BJ	12.5 B	< 200
Beryllium	ug/l	1	4	< 0.15	< 0.15	< 0.15	< 0.4	< 5	< 5	< 0.5	< 0.4	< 0.15	< 0.15	< 0.15	< 0.15	< 1	< 0.4	< 0.24	< 0.24	< 0.24	< 5
Cadmium	ug/l	4	5	< 0.24	< 0.28	< 0.28	< 0.4	< 4	< 4	< 0.6	< 1.3	< 0.24	< 0.28	< 0.28	< 0.28	< 0.4	< 0.4	< 0.35	< 0.35	< 0.17	< 4
Calcium	ug/l	NS	NS	39800	28700	48000	24500	90600	83400	82700	70500	80000	72000 J	76100	73100	69700	66100	61800	60300	58400	15100
Chromium	ug/l	70	100	< 0.53	< 0.53	< 0.53	< 10	< 10	< 10	< 1.6	< 0.8	0.6 B	1.1 B	1.9 BJ	1.4 BJ	< 10	3.4 B	< 0.59	< 0.59	< 0.9	< 10
Cobalt	ug/l	NS	NS	6.5 B	3 B	6.9 B	6.6 B	< 50	< 50	2.4 B	< 1.8	5.4 B	2.5 B	3.5 B	3.1 B	2.4 BJ	< 1.6	1.7 B	1.7 B	1.1 B	< 50
Copper	ug/l	1,300	1300	< 3.3	3.7 B	< 2.5	< 10	< 25	< 25	< 2.3	< 2.7	8 B	< 2.5	< 0.7	< 0.7	2.5 BJ	2.4 B	< 2.5	< 2.5	< 0.85	< 25
Iron	ug/l	300	NS	**2090**	**2210**	**3030**	**5150**	**1360**	**1160**	**2640**	**2340**	**1440**	**4840**	**1940**	**1680**	**3480**	**9200**	**3500**	**3420**	**6840**	< 100
Lead	ug/l	5	15	< 0.94	< 1.4	< 1.4	< 1.7	< 3	< 3	< 2.6	< 2.8	< 0.94	2.9 B	< 1.4	< 1.4	< 1.7	< 1.7	< 1.9	< 1.9	1.2 B	< 3
Magnesium	ug/l	NS	NS	9440 J	7080	11400	5780	36900	33900	32600	28800	31400 J	28200 J	30400	29200	28000	25900	24700	23900	23200	< 5000
Manganese	ug/l	50	NS	**3000**	**2160**	**4670**	**2540**	**3150**	**2890**	**2710**	**1480**	**2880**	**2230 J**	**2510**	**2350**	**2180**	**1120**	**2160 J**	**2120 J**	**1850 J**	< 15
Mercury	ug/l	2	2	< 0.15	< 0.15	< 0.049	< 0.049	< 0.2	< 0.2	< 0.08	< 0.037	< 0.15	< 0.15	< 0.049	< 0.049	< 0.049	< 0.082 J	< 0.082	< 0.082	< 0.088	< 0.2
Nickel	ug/l	100	NS	1.5 B	< 1.2	< 1.2	< 10	< 40	< 40	< 1.6	< 2.8	2.9 B	2.6 B	3.5 B	3.4 B	< 10	21.3	< 10	< 10	1.4 J	< 40
Potassium	ug/l	NS	NS	2540 B	1680 B	2350 B	1930 B	< 5000	< 5000	3090 B	3100 B	3060 B	2940 B	2920 B	2830 B	2880 B	2520 B	2480 BJ	2390 BJ	2260 B	< 5000
Selenium	ug/l	40	50	< 0.73	< 1.6	< 1.6	< 3.7	< 5	< 5	< 3	< 6.2	< 0.73	< 1.6	< 1.6	< 1.6	< 3.7	< 3.7	< 1.9	< 1.9	< 1.5	< 5
Silver	ug/l	40	NS	< 0.83	< 1	< 1	< 1	< 10	< 10	< 1.9	< 1	< 0.83	< 1	< 1	< 1	1.7 B	< 1	< 0.53	< 0.53	< 0.72	< 10
Sodium	ug/l	50,000	NS	37500 J	29600	42700	31000	12100	11000	11500 J	10400	11300 J	10700	10700	10500	10500	9280 B	9000 BJ	8780 BJ	8220 B	< 5000
Thallium	ug/l	2 [10]	2	< 1.4	< 1.3	< 1.3	< 1.5	< 10	< 10	< 0.09	< 0.09	< 1.4	< 1.3	< 1.3	< 1.3	< 1.5	1.6 B	< 1.8	< 1.8	< 0.17	< 10
Vanadium	ug/l	NS	NS	< 0.49	< 0.43	< 0.43	< 0.9	< 50	< 50	< 1.9	< 1.8	0.5 B	0.5 B	< 0.43	< 0.43	< 0.9	< 0.9	< 0.56	< 0.56	< 0.43	< 50
Zinc	ug/l	2000	NS	< 2.7	< 4 B	< 4	< 2.9	< 20	< 20	< 3.3 J	< 3.4	< 2.7	< 4	< 4	< 4	< 20	< 20	< 20	< 20	< 20	< 20
Metals - Dissolved																					
Aluminum	ug/l	200	NS	< 26	< 24	< 24	< 26	< 200	< 200	< 110	< 23	< 26	< 24	< 24	< 24	< 26	< 26	44.6 BJ	51.3 BJ	< 200	< 200
Antimony	ug/l	6	6	< 0.9	< 1.8	< 1.8	< 4	< 5	< 5	< 4.4	< 5	< 0.9	< 1.8	< 1.8	< 1.8	< 4	< 2.9	< 2.2	< 2.2	< 1.3	< 5
Arsenic	ug/l	3 [8]	10	< 1.1	< 1.7	< 1.7	< 2.4	< 5	< 5	< 1.5	< 1.5	< 1.1	2 B	< 1.7	< 1.7	< 2.4	< 2.4	< 1.4	< 1.4	< 0.92	< 5
Barium	ug/l	6000	2000	26.6 B	14.7 B	29.5 B	14.8 B	< 200	< 200	20 BJ	10.6 B	14.4 B	14 B	15.9 B	15.4 B	14.1 B	11.4 B	11.6 BJ	12.2 BJ	9.4 B	< 200
Beryllium	ug/l	1	4	< 0.15	< 0.15	< 0.15	< 0.4	< 5	< 5	< 0.5	< 0.4	< 0.15	< 0.15	< 0.15	< 0.15	< 1	< 0.4	< 0.24	< 0.24	< 0.24	< 5
Cadmium	ug/l	4	5	< 0.24	< 0.28	< 0.28	< 0.4	< 4	< 4	< 0.6	< 1.3	< 0.24	< 0.28	< 0.28	< 0.28	< 0.4	< 0.4	< 0.35	< 0.35	< 0.17	< 4
Calcium	ug/l	NS	NS	39300	29100	45800	24400	91500	88700	82700	65200	65800	70000 J	75900	71400	70300	70400	61400	64600	55600	16200
Chromium	ug/l	70	100	< 0.53	< 0.53	< 0.53	< 10	< 10	< 10	< 1.6	< 0.8	< 0.53	0.6 B	1.6 BJ	1 BJ	< 10	< 0.9	< 0.59	< 0.59	< 0.83	< 10
Cobalt	ug/l	NS	NS	6.3 B	3.1 B	6.8 B	5.7 B	< 50	< 50	1.8 B	< 1.8	4.4 B	1.8 B	3.1 B	2.8 B	2.2 BJ	< 1.6	1.4 B	1.6 B	0.9 B	< 50
Copper	ug/l	1,300	1300	< 3.3	< 2.5	< 2.5	< 1.6	< 25	< 25	< 2.3	< 2.7	< 3.3	< 2.5	1.1 B	1.3 B	< 1.6	< 1.6	< 2.5	< 2.5	< 1.9	< 25
Iron	ug/l	300	NS	219	273	**1930**	**2280**	270	266	**1680**	**535**	30.5 BJ	181	**335 J**	**534 J**	**373**	**510**	244 J	274 J	**304**	< 100
Lead	ug/l	5	15	< 0.94	1.9 B	< 1.4	< 1.7	< 3	< 3	< 2.6	< 2.8	< 0.94	1.9 B	< 1.4	< 1.4	< 1.7	< 1.7	< 1.9	< 1.9	1.3 B	< 3
Magnesium	ug/l	NS	NS	9370 J	7190	10900	5800	36900	35900	33000	27800	25800 J	27600 J	30300	28700	28300	27600	24200	25800	22300	< 5000
Manganese	ug/l	50	NS	**2830**	**2170**	**4460**	**2520**	**3140**	**3050**	**2700**	**1400**	**2350**	**2120 J**	**2460**	**2220**	**2180**	**1290**	**2120 J**	**2210 J**	**1730**	< 15
Mercury	ug/l	2	2	< 0.15	< 0.15	< 0.049	< 0.049	< 0.2	< 0.2	< 0.08	< 0.037	< 0.15	< 0.15	< 0.049	< 0.049	< 0.049	< 0.082 J	< 0.082	< 0.082	< 0.088	< 0.2
Nickel	ug/l	100	NS	1.3 B	< 1.2	< 1.2	< 10	< 40	< 40	< 1.6	< 2.8	2.4 B	1.7 B	3.3 BJ	2.6 BJ	< 10	1.2 B	< 10	< 10	1.4 J	< 40
Potassium	ug/l	NS	NS	2580 B	1730 B	2180 B	1940 B	< 5000	< 5000	3160 B	2960 B	2560 B	2870 B	2910 B	2770 B	2880 B	2670 B	2450 BJ	2570 BJ	2150 B	< 5000
Selenium	ug/l	40	50	< 0.73	< 1.6	< 1.6	< 3.7	< 5	< 5	< 3	< 6.2	< 0.73	< 1.6	< 1.6	< 1.6	< 3.7	< 3.7	< 1.9	2.3 B	< 1.5	< 5
Silver	ug/l	40	NS	< 0.83	< 1	< 1	< 1	< 10	< 10	< 1.9	< 1	< 0.83	< 1	< 1	< 1	1.8 B	< 1	< 0.53	< 0.53	< 0.66	< 10
Sodium	ug/l	50,000	NS	36700 J	30100	40600	31300	12000	11600	11800 J	9990 B	9340 BJ	10400	10600	10200	10600	9840 B	8910 BJ	9420 BJ	7860 B	< 5000
Thallium	ug/l	2 [10]	2	< 1.4	< 1.3	< 1.3	< 1.5	< 10	< 10	< 0.09	< 0.09	< 1.4	< 1.3	< 1.3	< 1.3	< 1.5	< 1.5	< 1.8	< 1.8	< 0.17	< 10
Vanadium	ug/l	NS	NS	< 0.49	< 0.43	< 0.43	< 0.9	< 50	< 50	< 1.9	< 1.8	< 0.49	0.5 B	< 0.43	< 0.43	< 0.9	< 0.9	< 0.56	< 0.56	< 0.7	< 50
Zinc	ug/l	2000	NS	< 2.7	< 4	< 4	11.2 BJ	< 20	< 20	< 3.3 J	< 3.4	< 2.7	6.8 B	< 4	< 4	< 20	< 2.9	< 20	< 20	< 20	< 20
Other																					
Alkalinity, Bicarbonate	ug/l	NS	NS	99100	97100	126000	NA	NA	NA	343000	307000	346000	323000	307000	300000	NA	NA	NA	NA	NA	NA
Alkalinity, Carbonate	ug/l	NS	NS	< 5000	< 5000	< 5000	NA	NA	NA	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	NA	NA	NA	NA	NA	NA
Alkalinity, total (as CaCO3)	ug/l	NS	NS	99100	97100	126000	97900	NA	NA	NA	307000	347000	324000	307000	300000	312000	298000	276000	279000	248000	NA
BOD, 5 Day	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromide	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	ug/l	250000	NS	88300	46300	87200	41800	NA	NA	7500	6100	7500	7300	7200	6900	8800	8300	8300	8400	9400	NA
COD	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide	ug/l	100	200	< 10	< 10	< 10	NA	14 J	R	< 10	< 10	< 10	< 10 J	< 10	< 10	NA	NA	NA	NA	NA	R
Nitrate	ug/l	10000	10000	< 110	< 110	< 110	NA	NA	NA	< 110	< 110	< 110	< 110	< 110	< 110	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrate + Nitrite	ug/l	10000	NS	< 100	< 100	< 100	NA	NA	NA	< 100	< 100	< 100	< 100	< 100	< 100	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrite	ug/l	1000	1000	< 10	< 10	< 10	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA	NA
Phosphorus, Total	ug/l	NS	NS	< 50	< 50	< 50	NA	NA	NA	< 50	< 100	< 50	< 50	< 50	< 50	NA	NA	NA	NA	NA	NA
Sulfate	ug/l	250000	NS	14500	11900	10800	< 10000	NA	NA	10900	10700	< 10000	< 10000	< 10000	< 10000	< 10000	< 10000	< 10000	< 10000	< 10000	NA
Total Dissolved Solids	ug/l	500000	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total organic carbon	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See footnotes on last page

Location ID		GWQS[1]	EPA	OB-10	OB-10	OB-10	OB-10	OB-10	OB-10	OB-10	OB-10	OB-10	OB-10	OB-10	OB-11	OB-11R	OB-11R	OB-12	OB-12
Sample ID			MCLs	OB-10 (10/2/2006)	OB-10 (040207)	OB-10 (071012)	OB-10(080429)	OB-10(080910)	OB-10(070109)	OB-10(102109)	OB-10(102109) Dup	OB-10(052610)	OB-10(051711)	OB-10(051711) DUP	OB-11(10/14/04)	OB-11R(061110)	OB-11R(051811)	OB-12 (1101/04)	OB-12 (123004)
Sample Date	Units			10/2/2006	4/2/2007	10/12/2007	4/29/2008	9/10/2008	7/1/2009	10/21/2009	10/21/2009	5/26/2010	5/17/2011	5/17/2011	10/14/2004	6/11/2010	5/18/2011	11/1/2004	12/30/2004
VOC																			
1,1,1,2-Tetrachloroethane	ug/l	1	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/l	30	200	< 0.28	< 0.28	< 0.3	< 0.24	< 0.24	< 0.26	< 0.26	< 0.26	< 0.26	< 0.2	< 0.2	< 0.5	< 0.26	< 0.24	< 1	< 0.25
1,1,2,2-Tetrachloroethane	ug/l	1	NS	< 0.28	< 0.28	< 0.8	< 0.13	< 0.13	< 0.24	< 0.24	< 0.24	< 0.24	< 0.12	< 0.12	< 0.3	< 0.24	< 0.2	< 1	< 0.14
1,1,2-Trichloroethane	ug/l	3	5	< 0.32	< 0.32	< 0.49	< 0.17	< 0.17	< 0.23	< 0.23	< 0.23	< 0.23	< 0.13	< 0.13	< 0.5	< 0.23	< 0.23	< 1	< 0.17
1,1-Dichloroethane	ug/l	50	NS	< 0.23	< 0.23	< 0.2	< 0.16	< 0.24	< 0.29	< 0.29	< 0.29	< 0.29	< 0.16	< 0.16	< 0.5	0.52 J	0.48 J	< 1	< 0.13
1,1-Dichloroethene	ug/l	1	7	< 0.33	< 0.33	< 0.28	< 0.29	< 0.29	< 0.4	< 0.4	< 0.4	< 0.4	< 0.24	< 0.24	< 0.5	< 0.4	< 0.28	< 1	< 0.81
1,2,4-Trichlorobenzene	ug/l	9	70	< 0.16	< 0.16	< 0.41	< 1.3	< 1.3	< 0.56	< 0.56	< 0.56	< 0.56	< 0.16	< 0.16	< 0.5	< 0.56	< 0.15	< 5	< 0.61
1,2-Dibromo-3-Chloropropane (DBCP)	ug/l	0.02 [1]	0.2	< 1.1	< 1.1	< 0.8	< 2.4	< 1.3	< 1.1	< 1.1	< 1.1	< 1.1	< 1.2	< 1.2 J	< 1	< 1.1	< 1.3	< 10	< 1.1
1,2-Dibromoethane	ug/l	0.03 [0.5]	0.05	< 0.52	< 0.52	< 0.45	< 0.17	< 0.18	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.5	< 0.39	< 0.21	< 2	< 0.47
1,2-Dichlorobenzene	ug/l	600	600	< 0.2	< 0.2	< 0.2	< 0.18	< 0.18	< 0.26	< 0.26	< 0.26	< 0.26	< 0.15	< 0.15	< 0.5	< 0.26	< 0.18	< 1	< 0.19
1,2-Dichloroethane	ug/l	2	5	< 0.29	< 0.29	< 0.29	< 0.35	< 0.35	< 0.33	< 0.33	< 0.33	< 0.33	< 0.31	< 0.31	< 0.5	< 0.33	< 0.18	< 1	< 0.35
1,2-Dichloropropane	ug/l	1	5	< 0.2	< 0.2	< 0.24	< 0.18	< 0.18	< 0.27	< 0.27	< 0.27	< 0.27	< 0.23	< 0.23	< 0.5	< 0.27	< 0.22	< 1	< 0.11
1,3-Dichlorobenzene	ug/l	600	NS	< 0.32	< 0.32	< 0.21	< 0.26	< 0.26	< 0.25	< 0.25	< 0.25	< 0.25	< 0.19	< 0.19	< 0.5	< 0.25	< 0.29	< 1	< 0.18
1,4-Dichlorobenzene	ug/l	75	75	< 0.24	< 0.24	< 0.17	< 0.32	< 0.22	< 0.28	< 0.28	< 0.28	< 0.28	< 0.22	< 0.22	< 0.5	< 0.28	< 0.26	< 1	< 0.29
2-Butanone (MEK)	ug/l	300	NS	< 2.6	< 2.6	< 2.7	< 2.3	< 2.3	< 1.6	< 1.6	< 1.6	< 1.6	< 1.7	< 1.7	< 2.5	< 1.6	< 2.9	< 10	< 2.5
2-Hexanone	ug/l	NS	NS	< 1.3	< 1.3	< 0.94	< 1.7	< 1.7	< 1.4	< 1.4	< 1.4	< 1.4	< 1.9	< 1.9	< 2.5	< 1.4	< 3	< 5	< 0.73
4-methyl-2-pentanone (MIBK)	ug/l	NS	NS	< 1.1	< 1.1	< 1.4	< 1.9	< 1.3	< 0.86	< 0.86	< 0.86	< 0.86	< 0.74	< 0.74	< 2.5	< 0.86	< 1.2	< 5	< 0.59
Acetone	ug/l	6000	NS	< 2.4	< 2.4	< 2.9	< 2.1	< 2.1	< 2.9	< 2.9	< 2.9	< 2.9	< 4.4	< 4.4	< 5 B	< 2.9	< 7.6	< 10	< 2.3
Benzene	ug/l	1	5	< 0.21	< 0.21	< 0.19	< 0.26	< 0.26	< 0.23	< 0.23	< 0.23	< 0.23	< 0.26	< 0.26	**1.2**	**5.2**	**3.7**	< 1	< 0.31
Bromodichloromethane	ug/l	1	80	< 0.17	< 0.17	< 0.15	< 0.14	< 0.14	< 0.22	< 0.22	< 0.22	< 0.22	< 0.18	< 0.18	< 0.5	< 0.22	< 0.23	< 1	< 0.11
Bromoform	ug/l	4	80	< 0.54	< 0.54	< 0.34	< 0.18	< 0.18	< 0.23	< 0.23	< 0.23	< 0.23	< 0.42	< 0.42	< 0.5	< 0.23	< 0.24	< 4	< 0.17
Bromomethane	ug/l	10	NS	< 0.22	< 0.22	< 0.38	< 0.32	< 0.32	< 0.3	< 0.3	< 0.3	< 0.3	< 0.24	< 0.24	< 1 J	< 0.3	< 0.31	< 2	< 0.15
Carbon disulfide	ug/l	700	NS	< 0.21	< 0.21	< 0.14	< 0.15	< 0.16	< 0.74	< 0.74	< 0.74	< 0.74	< 0.13	< 0.13	< 1	< 0.74	< 0.18	< 2	< 0.23
Carbon tetrachloride	ug/l	1	5	< 0.29	< 0.29	< 0.19	< 0.18	< 0.18	< 0.26	< 0.26	< 0.26	< 0.26	< 0.35	< 0.35	< 0.5	< 0.26	< 0.19	< 1	< 0.15
Chlorobenzene	ug/l	50	100	< 0.22	< 0.22	< 0.19	< 0.14	< 0.19	< 0.39	< 0.39	< 0.39	< 0.39	< 0.15	< 0.15	< 0.5	< 0.39	< 0.22	< 1	< 0.23
Chloroethane	ug/l	NS	NS	< 0.56	< 0.56	< 0.67	< 0.22	< 0.22	< 0.37	< 0.37	< 0.37	< 0.37	< 0.25	< 0.25	2.6	39.1	20.2	< 1	< 0.73
Chloroform	ug/l	70	80	< 0.22	< 0.22	< 0.25	< 0.16	< 0.16	< 0.23	< 0.23	< 0.23	< 0.23	< 0.14	< 0.14	< 0.5	< 0.23	< 0.21	< 1	< 0.081
Chloromethane	ug/l	NS	NS	< 0.35	< 0.35	< 0.3	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.34	< 0.34	< 1	< 0.29	< 0.22 J	< 1	< 0.13
cis-1,2-Dichloroethene	ug/l	70	70	< 0.18	< 0.18	< 0.27	< 0.19	< 0.25	< 0.22	< 0.22	< 0.22	< 0.22	< 0.24	< 0.24	< 0.5	0.42 J	0.33 J	< 1	< 0.24
cis-1,3-Dichloropropene	ug/l	NS	NS	< 0.15	< 0.15	< 0.13	< 0.15	< 0.18	< 0.25	< 0.25	< 0.25	< 0.25	< 0.16	< 0.16	< 0.3	< 0.25	< 0.22	< 1	< 0.071
Cyclohexane	ug/l	NS	NS	< 0.5	< 0.5	< 0.85	< 0.85	< 0.85	< 1.9	< 1.9	< 1.9	< 1.9	< 0.43	< 0.43	< 0.5	2 J	1.1 J	< 5	< 0.17
Dibromochloromethane	ug/l	1	80	< 0.19	< 0.19	< 0.28	< 0.12	< 0.16	< 0.22	< 0.22	< 0.22	< 0.22	< 0.16	< 0.16	< 0.4	< 0.22	< 0.2	< 1	< 0.18
Dichlorodifluoromethane	ug/l	1,000	NS	< 0.75	< 0.75	< 1	< 0.88	< 0.88	< 0.92	< 0.92	< 0.92	< 0.92	< 0.39	< 0.39	< 0.5	< 0.92	< 0.31 J	< 5	< 0.62
Ethylbenzene	ug/l	700	700	< 0.2	< 0.2	< 0.21	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.31	< 0.31	< 0.5	< 0.27	< 0.21	< 1	< 0.27
Freon 113	ug/l	NS	NS	< 0.69	< 0.69	< 1.2	< 0.8	< 0.8	< 0.38	< 0.38	< 0.38	< 0.38	< 0.66	< 0.66	< 0.5	< 0.38	< 0.49	< 5	< 0.35
Isopropylbenzene	ug/l	700	NS	< 0.2	< 0.2	< 0.54	< 0.15	< 0.19	< 0.57	< 0.57	< 0.57	< 0.57	< 0.31	< 0.31	< 0.5	0.75 J	0.62 J	< 2	< 0.33
Methyl acetate	ug/l	7000	NS	< 2.1	< 2.1	< 1.6	< 2.5	< 1.7	< 1.5	< 1.5	< 1.5	< 1.5	< 1.3	< 1.3	< 5	< 1.5	< 2.9	< 5	< 0.63
Methyl tert butyl ether	ug/l	70	NS	< 0.31	< 0.31	< 0.2	< 0.14	< 0.16	< 0.23	< 0.23	< 0.23	< 0.23	< 0.2	< 0.2	< 0.5	< 0.23	< 0.18	< 1	< 0.28
Methylcyclohexane	ug/l	NS	NS	< 0.18	< 0.18	< 0.5	< 0.11	< 0.11	< 0.35	< 0.35	< 0.35	< 0.35	< 0.16	< 0.16	< 0.5	0.39 J	0.23 J	< 5	< 0.16
Methylene chloride	ug/l	3	5	< 0.27	< 0.27	< 0.21	< 0.16	< 0.16	< 0.3	< 0.3	< 0.3	< 0.3	< 0.2	< 0.2	< 1	< 0.3	< 0.2	< 2	< 0.2
o-Xylene	ug/l	NS	NS	< 0.31	< 0.31	< 0.2	< 0.45	< 0.45	< 0.25	< 0.25	< 0.25	NA	NA	NA	NA	NA	NA	< 1	< 0.17
Styrene	ug/l	100	100	< 0.16	< 0.16	< 0.2	< 0.11	< 0.17	< 0.58	< 0.58	< 0.58	< 0.58	< 0.48	< 0.48	< 0.5 J	< 0.58	< 0.23	< 5	< 0.12
Tertiary Butyl Alcohol	ug/l	100	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	ug/l	1	5	< 0.28	< 0.28	< 0.28 J	< 0.29	< 0.29	< 0.27	< 0.27	< 0.27	< 0.27	< 0.24	< 0.24	< 0.5	< 0.27	< 0.32	< 1	< 0.37
Toluene	ug/l	600	1000	< 0.2	< 0.2	< 0.21	< 0.15	< 0.15	< 0.3	< 0.3	< 0.3	< 0.3	< 0.27	< 0.27	< 0.5	< 0.3	< 0.15	< 1	< 0.14
Trans-1,2-dichloroethene	ug/l	100	100	< 0.42	< 0.42	< 0.32	< 0.16	< 0.16	< 0.25	< 0.25	< 0.25	< 0.25	< 0.3	< 0.3	< 0.5	< 0.25	< 0.31	< 1	< 0.17
trans-1,3-Dichloropropene	ug/l	NS	NS	< 0.2	< 0.2	< 0.17	< 0.11	< 0.15	< 0.21	< 0.21	< 0.21	< 0.21	< 0.22	< 0.22	< 0.3	< 0.21	< 0.19	< 1	< 0.08
Trichloroethene	ug/l	1	5	< 0.29	< 0.29	< 0.26	< 0.18	< 0.18	< 0.24	< 0.24	< 0.24	< 0.24	< 0.22	< 0.22	< 0.5	< 0.24	< 0.21	< 1	< 0.13
Trichlorofluoromethane	ug/l	2000	NS	< 0.25	< 0.25	< 0.26	< 0.25	< 0.25	< 0.54	< 0.54	< 0.54	< 0.54	< 0.23	< 0.23	< 0.6	< 0.54	< 0.35	< 5	< 0.67
Vinyl Chloride	ug/l	1	2	< 0.29	< 0.29	< 0.22	< 0.21	< 0.21	< 0.44	< 0.44	< 0.44	< 0.44	< 0.22	< 0.22	< 0.5	< 0.44	< 0.27	< 1	< 0.66
Xylene, -m,p	ug/l	NS	NS	< 0.42	< 0.42	< 0.35	< 0.39	< 0.39	< 0.25	< 0.25	< 0.25	NA	NA	NA	NA	NA	NA	< 1	< 0.36
Xylenes	ug/l	1,000	10000	< 0.31	< 0.31	< 0.2	< 0.39	< 0.39	< 0.25	< 0.25	< 0.25	< 0.25	< 0.28	< 0.28	< 1	< 0.25	< 0.17	< 1	< 0.17
Total TIC, Volatile	ug/l	NS	NS	0	0	0	0	0	0	0	0	0	0	0	0	0	19.7 J	0	0

Location ID		GWQS[1]	EPA	OB-10	OB-10	OB-10	OB-10	OB-10	OB-10	OB-10	OB-10	OB-10	OB-10	OB-10	OB-11	OB-11R	OB-11R	OB-12	OB-12
Sample ID			MCLs	OB-10 (10/2/2006)	OB-10 (040207)	OB-10 (071012)	OB-10(080429)	OB-10(080910)	OB-10(070109)	OB-10(102109)	OB-10(102109) Dup	OB-10(052610)	OB-10(051711)	OB-10(051711) DUP	OB-11(10/14/04)	OB-11R(061110)	OB-11R(051811)	OB-12 (1101/04)	OB-12 (123004)
Sample Date	Units			10/2/2006	4/2/2007	10/12/2007	4/29/2008	9/10/2008	7/1/2009	10/21/2009	10/21/2009	5/26/2010	5/17/2011	5/17/2011	10/14/2004	6/11/2010	5/18/2011	11/1/2004	12/30/2004
SVOC																			
1,1'-Biphenyl	ug/l	400	NS	< 0.34	< 0.38	< 0.33	< 0.22	< 0.58	< 0.45	< 0.46	< 0.47	< 0.43	< 0.47	< 0.45	< 0.31	< 0.46	< 0.42	< 2	< 0.29
1,2,4-Trichlorobenzene	ug/l	9	70	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	ug/l	600	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	ug/l	600	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	ug/l	75	75	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/l	700	NS	< 2	< 2.3	< 1.9	< 1.1	< 2.1	< 1.4	< 1.5	< 1.5	< 1.3	< 1.5	< 1.4	< 0.81	< 1.4	< 1.3	< 5	< 0.74
2,4,6-Trichlorophenol	ug/l	20	NS	< 1.3	< 1.5	< 1.3	< 1	< 1.7	< 1.3	< 1.3	< 1.4	< 1.2	< 1.4	< 1.3	< 0.87	< 1.3	< 1.2	< 5	< 0.8
2,4-Dichlorophenol	ug/l	20	NS	< 1.6	< 1.8	< 1.6	< 1.4	< 2	< 1.3	< 1.3	< 1.4	< 1.2	< 1.4	< 1.3	< 0.79	< 1.3	< 1.2	< 5	< 0.73
2,4-Dimethylphenol	ug/l	100	NS	< 1.7	< 1.9	< 1.6	< 1.7	< 2.1	< 1.8	< 1.8	< 1.8	< 1.7	< 1.8	< 1.8	< 1.1	< 1.8	< 1.7	< 5	< 1
2,4-Dinitrophenol	ug/l	40	NS	< 0.94	< 1	< 0.89	< 1.1	< 4.4	< 0.78	< 0.81	< 0.82	< 0.75	< 0.82	< 0.78	< 1.2	< 0.8	< 0.74	< 20	< 1.1
2,4-Dinitrotoluene	ug/l	NS	NS	< 0.91	< 1	< 0.86	< 0.54	< 0.48	< 0.23	< 0.24	< 0.24	< 0.22	< 0.24 J	< 0.23 J	< 0.84	< 0.24	< 0.22	< 2	< 0.78
2,6-Dinitrotoluene	ug/l	NS	NS	< 0.59	< 0.66	< 0.56	< 0.5	< 0.63	< 0.35	< 0.36	< 0.36	< 0.33	< 0.36	< 0.35	< 0.68	< 0.35	< 0.33	< 2	< 0.62
2-Chloronaphthalene	ug/l	600	NS	< 1	< 1.2	< 0.98	< 0.2	< 0.51	< 0.44	< 0.46	< 0.46	< 0.42	< 0.46	< 0.44	< 0.41	< 0.45	< 0.42	< 5	< 0.38
2-Chlorophenol	ug/l	40	NS	< 1	< 1.1	< 0.95	< 0.87	< 1.5	< 1.1	< 1.2	< 1.2	< 1.1	< 1.2	< 1.1	< 4.6	< 1.2	< 1.1	< 5	< 4.3
2-Methylnaphthalene	ug/l	NS	NS	< 0.43	< 0.48	< 0.41	< 0.76	< 0.46	< 0.7	< 0.72	< 0.73	< 0.67	< 0.73	< 0.7	< 0.78	< 0.72	< 0.66	< 2	< 0.72
2-Methylphenol	ug/l	NS	NS	< 1.4	< 1.6	< 1.4	< 1	< 1.4	< 1.2	< 1.2	< 1.2	< 1.1	< 1.2	< 1.2	< 0.79	< 1.2	< 1.1	< 5	< 0.72
2-Nitroaniline	ug/l	NS	NS	< 0.7	< 0.78	< 0.66	< 0.5	< 0.47	< 0.25	< 0.26	< 0.26	< 0.24	< 0.26	< 0.25	< 1.5	< 0.26	< 0.24	< 5	< 1.4
2-Nitrophenol	ug/l	NS	NS	< 1.9	< 2.1	< 1.8	< 1.5	< 2	< 1.3	< 1.4	< 1.4	< 1.3	< 1.4	< 1.3	< 0.79	< 1.3	< 1.2	< 5	< 0.73
3&4-Methylphenol	ug/l	NS	NS	< 1.3	< 1.5	< 1.3	< 1.1	< 1.5	< 1.1	< 1.2	< 1.2	< 1.1	< 1.2	< 1.1	< 0.76	< 1.1	< 1	< 5	< 0.7
3,3'-Dichlorobenzidine	ug/l	30	NS	< 1.3	< 1.4	< 1.2	< 0.97	< 4.8	< 0.31	< 0.32	< 0.33	< 0.3	< 0.33	< 0.31	< 0.42	< 0.32	< 0.3	< 5	< 0.39
3-Nitroaniline	ug/l	NS	NS	< 1.3	< 1.5	< 1.3	< 0.32	< 0.47	< 0.31	< 0.32	< 0.32	< 0.29	< 0.32	< 0.31	< 1.3	< 0.31	< 0.29	< 5	< 1.2
4,6-Dinitro-2-methylphenol	ug/l	NS	NS	< 0.76	< 0.85	< 0.72	< 2.2	< 1.2	< 0.55	< 0.56	< 0.57	< 0.52	< 0.57	< 0.55	< 0.71	< 0.56	< 0.51	< 20	< 0.65
4-Bromophenyl phenyl ether	ug/l	NS	NS	< 0.31	< 0.35	< 0.3	< 0.37	< 0.43	< 0.37	< 0.38	< 0.39	< 0.36	< 0.39	< 0.37	< 0.58	< 0.38	< 0.35	< 2	< 0.54
4-Chloro-3-Methylphenol	ug/l	NS	NS	< 1.2	< 1.4	< 1.2	< 1.2	< 2.4	< 1.1	< 1.2	< 1.2	< 1.1	< 1.2	< 1.1	< 5.1	< 1.1	< 1.1	< 5	< 4.7
4-Chloroaniline	ug/l	30	NS	< 0.42	< 0.47 J	< 0.4	< 0.35	< 0.35	< 0.27	< 0.28	< 0.28	< 0.26	< 0.28	< 0.27	< 0.46	< 0.28	< 0.25	< 5	< 0.43
4-Chlorophenyl phenyl ether	ug/l	NS	NS	< 0.45	< 0.51	< 0.43	< 0.29	< 0.48	< 0.38	< 0.39	< 0.39	< 0.36	< 0.39	< 0.38	< 1.1	< 0.38	< 0.35	< 2	< 1
4-Nitroaniline	ug/l	NS	NS	< 0.76	< 0.85	< 0.72	< 0.59	< 0.48	< 0.19	< 0.2	< 0.2	< 0.18	< 0.2	< 0.19	< 1.2	< 0.19	< 0.18	< 5	< 1.1
4-Nitrophenol	ug/l	NS	NS	< 0.89	< 0.99	< 0.84	< 1.6	< 2.4	< 0.88	< 0.91	< 0.92	< 0.84	< 0.92	< 0.88	< 2.4	< 0.9	< 0.83	< 20	< 2.3
Acenaphthene	ug/l	400	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.32	NA	NA	< 2	< 0.3
Acenaphthylene	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.38	NA	NA	< 2	< 0.35
Acetophenone	ug/l	700	NS	< 0.39	< 0.44	< 0.37	< 0.36	< 0.49	< 0.42	< 0.44	< 0.44	< 0.41	< 0.44	< 0.42	< 0.58	< 0.43	< 0.4	< 5	< 0.53
Anthracene	ug/l	2000	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.24	NA	NA	< 2	< 0.22
Atrazine	ug/l	3	3	< 0.17	< 0.19	< 0.16	< 0.28	< 0.65	< 0.42	< 0.43	< 0.43	< 0.4	< 0.43	< 0.42	< 1.6	< 0.43	< 0.39	< 5	< 1.5
Benzaldehyde	ug/l	NS	NS	< 0.28	< 0.31	< 0.27	< 0.76	< 1.7	< 0.43	< 0.44	< 0.45	< 0.41	< 0.45	< 0.43	< 3.9	< 0.44	< 0.4	< 5	< 3.6
Benzo(a)anthracene	ug/l	0.1 [0.2]	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.3	NA	NA	< 2	< 0.27
Benzo(a)pyrene	ug/l	0.1 [0.2]	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.42	NA	NA	< 2	< 0.38
Benzo(b)fluoranthene	ug/l	0.2 [10]	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.4	NA	NA	< 2	< 0.37
Benzo(g,h,i)perylene	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.54	NA	NA	< 2	< 0.5
Benzo(k)fluoranthene	ug/l	0.5	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.41	NA	NA	< 2	< 0.37
Benzyl butyl phthalate	ug/l	100	NS	< 0.62	< 0.7	< 0.59	< 0.64	< 0.44	< 0.27	< 0.28	< 0.28	< 0.26	< 0.28	< 0.27	< 0.58	< 0.27	< 0.25	< 2	< 0.54
bis(2-Chloroethoxy)methane	ug/l	NS	NS	< 0.69	< 0.77	< 0.65	< 0.32	< 0.54	< 0.26	< 0.27	< 0.28	< 0.25	< 0.28	< 0.26	< 0.36	< 0.27	< 0.25	< 2	< 0.34
bis(2-Chloroethyl)ether	ug/l	7	NS	< 0.56	< 0.62	< 0.53	< 0.67	< 0.52	< 0.33	< 0.34	< 0.34	< 0.32	< 0.34	< 0.33	< 0.53	< 0.34	< 0.31	< 2	< 0.49
bis(2-Chloroisopropyl)ether	ug/l	300	NS	< 0.78	< 0.87 J	< 0.74	< 0.58	< 0.57	< 0.41	< 0.43	< 0.43	< 0.4	< 0.43	< 0.41	< 0.48	< 0.42	< 0.39	< 2	< 0.44
bis(2-Ethylhexyl)phthalate	ug/l	3	6	< 0.7	< 0.78	< 0.66	< 0.88	< 0.79	< 0.35	< 0.36	< 0.36	< 0.33	< 0.36	< 0.35	< 0.8	< 0.36	< 0.33	< 2	< 0.74
Caprolactam	ug/l	NS	NS	< 0.33	< 0.37	< 0.32	< 0.49	< 0.66	< 0.21	< 0.21	< 0.22	< 0.2	< 0.22	< 0.21	< 0.48	< 0.21	< 0.2	< 2	< 0.44
Carbazole	ug/l	NS	NS	< 0.38	< 0.43	< 0.36	< 0.4	< 0.47	< 0.18	< 0.18	< 0.18	< 0.17	< 0.18	< 0.18	< 0.37	< 0.18	< 0.17	< 2	< 0.34
Chrysene	ug/l	5	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.29	NA	NA	< 2	< 0.26
Dibenzo(a,h)anthracene	ug/l	0.3 [0.5]	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.63	NA	NA	< 2 J	< 0.58
Dibenzofuran	ug/l	NS	NS	< 0.36	< 0.4	< 0.34	< 0.23	< 0.51	< 0.32	< 0.33	< 0.34	< 0.31	< 0.34	< 0.32	< 0.53	< 0.33	< 0.3	< 5	< 0.49
Diethyl phthalate	ug/l	6000	NS	< 0.41	< 0.46	< 0.39	< 0.34	< 0.38	< 0.18	< 0.18	< 0.18	< 0.17	< 0.18	< 0.18	< 1.6	< 0.18	< 0.17	< 2	< 1.4
Dimethyl phthalate	ug/l	NS	NS	< 0.35	< 0.39	< 0.33	< 0.34	< 0.38	< 0.24	< 0.25	< 0.25	< 0.23	< 0.25	< 0.24	< 0.63	< 0.24	< 0.23	< 2	< 0.58
di-n-butyl phthalate	ug/l	700	NS	< 0.62	< 0.7	< 0.59	< 0.4	< 0.53	< 0.2	< 0.21	< 0.21	< 0.19	< 0.21	< 0.2	< 0.86	< 0.21	< 0.19	< 2	< 0.79
di-n-octylphthalate	ug/l	100	NS	< 0.6	< 0.67	< 0.57	< 0.48	< 0.52	< 0.42	< 0.43	< 0.44	< 0.4	< 0.44	< 0.42	< 0.68	< 0.43	< 0.4	< 2	< 0.63
Fluoranthene	ug/l	300	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.69	NA	NA	< 2	< 0.63
Fluorene	ug/l	300	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.97	NA	NA	< 2	< 0.89
Hexachlorobenzene	ug/l	0.02 [10]	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.3	NA	NA	< 2	< 1.2
Hexachlorobutadiene	ug/l	1	NS	< 0.18	< 0.21	< 0.18	< 0.13	< 0.39	< 0.4	< 0.41	< 0.41	< 0.13	< 0.14	< 0.14	< 0.45	< 0.14	< 0.13	< 2	< 0.41
Hexachlorocyclopentadiene	ug/l	40	50	< 0.43	< 0.48	< 0.41	< 0.1	< 4.8	< 0.71	< 0.74	< 0.75	< 0.25	< 0.27	< 0.26	< 0.49	< 0.27	< 0.24	< 20	< 0.45
Hexachloroethane	ug/l	7	NS	< 0.3	< 0.33	< 0.28	< 0.16	< 0.32	< 0.28	< 0.29	< 0.29	< 0.21	< 0.23	< 0.22	< 0.73	< 0.23	< 0.21	< 5	< 0.67
Indeno(1,2,3-cd)pyrene	ug/l	0.2 [10]	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.7	NA	NA	< 2	< 1.5
Isophrone	ug/l	40	NS	< 0.62	< 0.69	< 0.59	< 0.49	< 0.73	< 0.26	< 0.27	< 0.28	< 0.25	< 0.28	< 0.26	< 0.59	< 0.27	< 0.25	< 2	< 0.54
Naphthalene	ug/l	300	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.1	NA	NA	< 2	< 1
Nitrobenzene	ug/l	6	NS	< 0.44	< 0.49	< 0.42	< 0.71	< 0.69	< 0.27	< 0.28	< 0.28	< 0.26	< 0.28	< 0.27	< 0.66	< 0.28	< 0.25	< 2	< 0.61
N-Nitroso-di-n-Propylamine	ug/l	10	NS	< 0.49	< 0.55	< 0.47	< 0.38	< 0.41	< 0.47	< 0.48	< 0.49	< 0.45	< 0.49	< 0.47	< 0.55	< 0.48	< 0.44	< 2	< 0.5
N-Nitrosodiphenylamine	ug/l	10	NS	< 0.54	< 0.61	< 0.52	< 0.41	< 0.64	< 0.23	< 0.24	< 0.24	< 0.22	< 0.24	< 0.23	< 0.86	< 0.23	< 0.22	< 5	< 0.8
Pentachlorophenol	ug/l	0.3 [1]	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.82	NA	NA	< 20	< 0.75
Phenanthrene	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.25	NA	NA	< 2	< 0.23
Phenol	ug/l	2000	NS	< 0.52	< 0.58	1.4 J	< 0.68	< 1.4	< 0.61	< 0.63	< 0.64	< 0.59	< 0.64	< 0.61	< 1.9	< 0.63	< 0.58	< 5	< 1.8
Pyrene	ug/l	200	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.63	NA	NA	< 2	< 0.58
Total TIC, Semi-Volatile	ug/l	NS	NS	0	0	0	15 J	0	0	0	0	0	0	0	5.7 J	29.1 J	25 J	0	0

Location ID		GWQS[1]	EPA	OB-10	OB-10	OB-10	OB-10	OB-10	OB-10	OB-10	OB-10	OB-10	OB-10	OB-10	OB-11	OB-11R	OB-11R	OB-12	OB-12
Sample ID			MCLs	OB-10 (10/2/2006)	OB-10 (040207)	OB-10 (071012)	OB-10(080429)	OB-10(080910)	OB-10(070109)	OB-10(102109)	OB-10(102109) Dup	OB-10(052610)	OB-10(051711)	OB-10(051711) DUP	OB-11(10/14/04)	OB-11R(061110)	OB-11R(051811)	OB-12 (1101/04)	OB-12 (123004)
Sample Date	Units			10/2/2006	4/2/2007	10/12/2007	4/29/2008	9/10/2008	7/1/2009	10/21/2009	10/21/2009	5/26/2010	5/17/2011	5/17/2011	10/14/2004	6/11/2010	5/18/2011	11/1/2004	12/30/2004
SVOC BY SIM																			
Acenaphthene	ug/l	400	NS	< 0.018	< 0.02	< 0.017	< 0.016	< 0.017	< 0.017	< 0.032	< 0.032	< 0.03	< 0.015	< 0.015	NA	< 0.032	< 0.014	NA	NA
Acenaphthylene	ug/l	NS	NS	< 0.01	< 0.011	< 0.0095	< 0.007	< 0.0074	< 0.0074	< 0.043	< 0.044	< 0.04	< 0.018	< 0.017	NA	< 0.043	< 0.016	NA	NA
Anthracene	ug/l	2000	NS	< 0.022	< 0.025	< 0.021	< 0.021	< 0.022	< 0.022	< 0.028	< 0.028	< 0.026	< 0.011	< 0.011	NA	< 0.028	< 0.01	NA	NA
Benzo(a)anthracene	ug/l	0.1 [0.2]	NS	< 0.0072	< 0.008	< 0.0068	< 0.034	< 0.035	< 0.036	< 0.026	< 0.026	< 0.024	< 0.017	< 0.016	NA	< 0.026	< 0.015	NA	NA
Benzo(a)pyrene	ug/l	0.1 [0.2]	0.2	< 0.018	< 0.02	< 0.017	< 0.036	< 0.037	< 0.038	< 0.034	< 0.034	< 0.031	< 0.0054	< 0.0052	NA	< 0.033	< 0.0049	NA	NA
Benzo(b)fluoranthene	ug/l	0.2 [10]	NS	< 0.038	< 0.043	< 0.036	< 0.017	< 0.018	< 0.018	< 0.039	< 0.04	< 0.037	< 0.018	< 0.017	NA	< 0.039	< 0.016	NA	NA
Benzo(g,h,i)perylene	ug/l	NS	NS	< 0.019	< 0.021	< 0.018	< 0.012	< 0.012	< 0.012	< 0.032	< 0.032	< 0.029	< 0.011	< 0.011	NA	< 0.031	< 0.01	NA	NA
Benzo(k)fluoranthene	ug/l	0.5	NS	< 0.017	< 0.018	< 0.016	< 0.019	< 0.02	< 0.02	< 0.031	< 0.031	< 0.029	< 0.014	< 0.013	NA	< 0.031	< 0.013	NA	NA
Chrysene	ug/l	5	NS	< 0.018	< 0.02	< 0.017	< 0.018	< 0.019	< 0.019	< 0.024	< 0.024	< 0.022	< 0.026	< 0.025	NA	< 0.024	< 0.023	NA	NA
Dibenzo(a,h)anthracene	ug/l	0.3 [0.5]	NS	< 0.017	< 0.019	< 0.016	< 0.02	< 0.021	< 0.021	< 0.025	< 0.025	< 0.023	< 0.025	< 0.024	NA	< 0.024	< 0.023	NA	NA
Fluoranthene	ug/l	300	NS	< 0.0095	< 0.011	< 0.009	< 0.0096	< 0.01	< 0.01	< 0.027	< 0.027	< 0.025	< 0.011	< 0.01	NA	< 0.026	< 0.0096	NA	NA
Fluorene	ug/l	300	NS	< 0.021	< 0.024	< 0.02	< 0.02	< 0.021	< 0.021	< 0.03	< 0.03	< 0.027	< 0.017	< 0.016	NA	< 0.029	< 0.015	NA	NA
Hexachlorobenzene	ug/l	0.02 [10]	1	< 0.064	< 0.024	< 0.02	< 0.0099	< 0.01	< 0.011	< 0.011	< 0.011	< 0.01	< 0.0089	< 0.0085	NA	< 0.011	< 0.008	NA	NA
Indeno(1,2,3-cd)pyrene	ug/l	0.2 [10]	NS	< 0.012	< 0.013	< 0.011	< 0.014	< 0.015	< 0.015	< 0.032	< 0.032	< 0.03	< 0.012	< 0.011	NA	< 0.032	< 0.011	NA	NA
Naphthalene	ug/l	300	NS	< 0.027	< 0.03	< 0.026	< 0.014	< 0.015	< 0.015	< 0.02	0.583	< 0.019	< 0.018	< 0.017	NA	< 0.02	< 0.016	NA	NA
Pentachlorophenol	ug/l	0.3 [1]	1	< 0.42	< 0.35	< 0.3	< 0.22	< 0.23	< 0.24	< 0.25	< 0.25	< 0.069	< 0.32	< 0.3	NA	< 0.074	< 0.29	NA	NA
Phenanthrene	ug/l	NS	NS	< 0.022	< 0.025	< 0.021	< 0.017	< 0.018	< 0.018	< 0.04	< 0.04	< 0.037	< 0.017	< 0.017	NA	< 0.039	< 0.016	NA	NA
Pyrene	ug/l	200	NS	< 0.015	< 0.016	< 0.014	< 0.012	< 0.013	< 0.013	< 0.024	< 0.025	< 0.023	< 0.009	< 0.0086	NA	< 0.024	< 0.0081	NA	NA
PCBs																			
PCB 1016	ug/l	0.5	0.5	< 0.1	< 0.1	< 0.094	< 0.1	< 0.094	< 0.19	< 0.35	< 0.34	< 0.31	< 0.14	< 0.13	< 0.084	< 0.33	< 0.14	< 0.5	< 0.075
PCB 1221	ug/l	0.5	0.5	< 0.5	< 0.51	< 0.47	< 0.51	< 0.47	< 0.31	< 0.48	< 0.47	< 0.42	< 0.3	< 0.27	< 0.094	< 0.45	< 0.29	< 0.5	< 0.085
PCB 1232	ug/l	0.5	0.5	< 0.41	< 0.42	< 0.39	< 0.43	< 0.39	< 0.21	< 0.36	< 0.35	< 0.32	< 0.42	< 0.39	< 0.14	< 0.34	< 0.42	< 0.5	< 0.12
PCB 1242	ug/l	0.5	0.5	< 0.17	< 0.18	< 0.16	< 0.18	< 0.16	< 0.089	< 0.32	< 0.31	< 0.28	< 0.095	< 0.086	< 0.15	< 0.3	< 0.093	< 0.5	< 0.13
PCB 1248	ug/l	0.5	0.5	< 0.16	< 0.17	< 0.15	< 0.17	< 0.15	< 0.25	< 0.33	< 0.32	< 0.29	< 0.16	< 0.15	< 0.08	< 0.31	< 0.16	< 0.5	< 0.072
PCB 1254	ug/l	0.5	0.5	< 0.12	< 0.12	< 0.11	< 0.12	< 0.11	< 0.11	< 0.21	< 0.2	< 0.18	< 0.15	< 0.14	< 0.08	< 0.2	< 0.15	< 0.5	< 0.072
PCB 1260	ug/l	0.5	0.5	< 0.12	< 0.13	< 0.12	< 0.13	< 0.12	< 0.14	< 0.16	< 0.16	< 0.14	< 0.23	< 0.21	< 0.11	< 0.15	< 0.23	< 0.5	< 0.1
Total PCBs	ug/l	0.5	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pesticides/Herbicides																			
4,4-DDD	ug/l	0.1	NS	< 0.0026	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.017	NA	NA	< 0.02	< 0.017
4,4-DDE	ug/l	0.1	NS	< 0.0018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0041	NA	NA	< 0.02	< 0.0041
4,4-DDT	ug/l	0.1	NS	< 0.0052	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.018	NA	NA	< 0.02 J	< 0.018
Aldrin	ug/l	0.04	NS	< 0.0036	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0079	NA	NA	< 0.02	< 0.0079
alpha-BHC	ug/l	0.02	NS	< 0.0028	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.013	NA	NA	< 0.02	< 0.013
alpha-Chlordane	ug/l	NS	NS	< 0.0046	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.018	NA	NA	< 0.02	< 0.018
beta-BHC	ug/l	0.04	NS	< 0.0066	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0086	NA	NA	< 0.02	< 0.0086
delta-BHC	ug/l	NS	NS	< 0.0033	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0098	NA	NA	< 0.02	< 0.0098
Dieldrin	ug/l	0.03	NS	< 0.0018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.013	NA	NA	< 0.02	< 0.013
Endosulfan I (alpha)	ug/l	40	NS	< 0.0022	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0029	NA	NA	< 0.02	< 0.0029
Endosulfan II (beta)	ug/l	40	NS	< 0.0034	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0028	NA	NA	< 0.02	< 0.0028
Endosulfan sulfate	ug/l	40	NS	< 0.0049	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.013	NA	NA	< 0.02	< 0.013
Endrin	ug/l	2	2	< 0.0032	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.011	NA	NA	< 0.02 J	< 0.011
Endrin Aldehyde	ug/l	NS	NS	< 0.0069	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.02	NA	NA	< 0.02	< 0.02
Endrin ketone	ug/l	NS	NS	< 0.0037	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0053	NA	NA	< 0.05	< 0.0053
gamma-Chlordane	ug/l	NS	NS	< 0.0018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.013	NA	NA	< 0.02	< 0.013
Heptachlor	ug/l	0.05	0.4	< 0.0027	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0059	NA	NA	< 0.02	< 0.0059
Heptachlor epoxide	ug/l	0.2	0.2	< 0.0016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.011	NA	NA	< 0.02	< 0.011
Lindane	ug/l	0.03	0.2	< 0.0018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0026	NA	NA	< 0.02	< 0.0026
Methoxychlor	ug/l	40	40	< 0.0072	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.012	NA	NA	< 0.05	< 0.012
Toxaphene	ug/l	2	3	< 0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.25	NA	NA	< 0.25	< 0.25

Location ID		GWQS[1]	EPA	OB-10	OB-10	OB-10	OB-10	OB-10	OB-10	OB-10	OB-10	OB-10	OB-10	OB-10	OB-11	OB-11R	OB-11R	OB-12	OB-12
Sample ID			MCLs	OB-10 (10/2/2006)	OB-10 (040207)	OB-10 (071012)	OB-10(080429)	OB-10(080910)	OB-10(070109)	OB-10(102109)	OB-10(102109) Dup	OB-10(052610)	OB-10(051711)	OB-10(051711) DUP	OB-11(10/14/04)	OB-11R(061110)	OB-11R(051811)	OB-12 (1101/04)	OB-12 (123004)
Sample Date	Units			10/2/2006	4/2/2007	10/12/2007	4/29/2008	9/10/2008	7/1/2009	10/21/2009	10/21/2009	5/26/2010	5/17/2011	5/17/2011	10/14/2004	6/11/2010	5/18/2011	11/1/2004	12/30/2004
Metals - Total																			
Aluminum	ug/l	200	NS	< 110	< 23	< 26	< 24	< 24	< 26	< 26	< 26	< 7.8	53.4 J	< 200	< 200	**637 J**	**4860 J**	< 200	< 200
Antimony	ug/l	6	6	< 4.4	< 5	< 5.7	< 1.8	< 1.8	< 4	< 2.9	< 2.9	< 2.2	< 1.3	< 1.3	< 5	< 2.2	< 1.3	< 5	< 5
Arsenic	ug/l	3 [8]	10	< 1.5	< 1.5	< 1.1	< 1.7	< 1.7	< 2.4	< 2.4	< 2.4	< 1.4	< 0.92	< 0.92	< 5	**24.9**	**23.9**	< 5	< 5
Barium	ug/l	6000	2000	24.4 B	7.4 B	10.4 B	7.9 B	10.4 BJ	26 B	7.2 B	7 B	< 200	6.7 B	7.3 B	< 200	77.6 B	117 B	< 200	< 200
Beryllium	ug/l	1	4	< 0.5	< 0.4	< 0.15	< 0.15	< 0.15	< 1	< 0.4	< 0.4	< 0.24	< 0.24	< 0.24	< 5	< 0.21	< 0.24	< 5	< 5
Cadmium	ug/l	4	5	< 0.6	< 1.3	< 0.24	< 0.28	< 0.28	< 0.4	< 0.4	< 0.4	< 0.35	< 0.17	< 0.17	< 4	< 0.35	< 0.17	< 4	< 4
Calcium	ug/l	NS	NS	15600	10200	18900	13400	14800	14900	17500	17300	14600 J	13800	14300	31900	49700 J	64800	8230	9100
Chromium	ug/l	70	100	< 1.6	< 0.8	< 0.53	< 0.53	3.2 B	< 10	< 0.9	< 0.9	< 0.59	< 0.83	2.8 B	< 10	< 0.56	5.9 J	< 10	< 10
Cobalt	ug/l	NS	NS	< 1.7	< 1.8	1 B	< 0.51	< 0.51	1 BJ	< 1.6	< 1.6	< 0.65	< 0.3	< 0.3	< 50	2.7 B	4.5 B	< 50	< 50
Copper	ug/l	1,300	1300	< 2.3	< 2.7	< 3.3	4.1 B	< 0.7	< 10	< 1.6	< 1.6	< 2.5	< 1.9	< 0.85	< 25	< 2.5	10.1	< 25	< 25
Iron	ug/l	300	NS	**4010**	**1110**	**598**	298	71.5 B	**4160**	182 J	170 J	**304**	**1240**	**1500**	**33300**	**56700**	**66000**	< 100	< 100
Lead	ug/l	5	15	< 2.6	< 2.8	< 0.94	< 1.4	< 1.4	< 1.7	< 1.7	< 1.7	< 1.9	< 0.94	< 0.94	< 3	< 1.9	**7.4**	< 3	< 3
Magnesium	ug/l	NS	NS	3210 B	2430 B	5260	3930 B	3730 B	3010 B	4830 B	4790 B	4230 B	4040 B	4180 B	< 5000	6630	7800	< 5000	< 5000
Manganese	ug/l	50	NS	**1600**	**882**	**214**	25.1	**87.2**	**2570**	18.3	17.4	10.8 B	**79.5 J**	**144 J**	**1200 J**	**9580**	**9790**	< 15	< 15
Mercury	ug/l	2	2	< 0.08	< 0.037	< 0.15	< 0.15	< 0.049	< 0.049	< 0.082 J	< 0.082 J	0.17 B	< 0.088	< 0.088	< 0.2	< 0.082	< 0.088	< 0.2	< 0.2
Nickel	ug/l	100	NS	< 1.6	< 2.8	1 B	< 1.2	1.6 B	< 10	< 0.6	< 0.6	< 0.51	< 0.41	< 10	< 40	2.4 B	10	< 40	< 40
Potassium	ug/l	NS	NS	948 B	715 B	1400 B	1160 B	1370 B	1120 B	1390 B	1380 B	1270 B	1110 B	1160 B	< 5000	2840 B	3310 B	< 5000	< 5000
Selenium	ug/l	40	50	5.3 B	< 6.2	< 0.73	< 1.6	< 1.6	< 3.7	< 3.7	< 3.7	< 1.9	< 1.5	< 1.5	< 5	< 1.9	< 1.5	< 5	< 5
Silver	ug/l	40	NS	< 1.9	< 1	< 0.83	< 1	< 1	1.1 B	< 1	< 1	< 0.53	< 0.66	< 0.72	< 10	3.4 B	1.1 B	< 10	< 10
Sodium	ug/l	50,000	NS	< 310	3390 BJ	4340 B	3110 B	3830 BJ	4430 B	3970 B	3940 B	3840 J	3340 B	3520 B	< 5000	3480 B	3430 B	< 5000	< 5000
Thallium	ug/l	2 [10]	2	< 0.09	< 0.09	< 1.4	< 1.3	< 1.3	< 1.5	< 1.5	< 1.5	< 1.8	< 0.17	< 0.17	< 10	< 1.8	1.8 J	< 10	< 10
Vanadium	ug/l	NS	NS	< 1.9	< 1.8	< 0.49	0.7 B	< 0.43	< 0.9	< 0.9	< 0.9	< 0.56	< 0.7	< 0.43	< 50	< 0.56	1.2 B	< 50	< 50
Zinc	ug/l	2000	NS	< 3.3	< 3.4	< 2.7 J	< 4	< 4	< 20	< 2.9	< 2.9	< 20	< 20	< 20	< 20	15.4 B	27.5 J	< 20	< 20
Metals - Dissolved																			
Aluminum	ug/l	200	NS	< 110	< 23	< 26	< 24	< 24	< 26	< 26	< 26	< 7.8	< 200	< 200	< 200	< 7.8 J	< 200	< 200	< 200
Antimony	ug/l	6	6	< 4.4	< 5	< 5.7	< 1.8	< 1.8	< 4	< 2.9	< 2.9	< 2.2	< 1.3	< 1.3	< 5	< 2.2	< 1.3	< 5	< 5
Arsenic	ug/l	3 [8]	10	< 1.5	< 1.5	< 1.1	< 1.7	< 1.7	< 2.4	< 2.4	< 2.4	< 1.4	< 0.92	< 0.92	< 5	**3.8**	**19.5**	< 5	< 5
Barium	ug/l	6000	2000	23.5 B	8 B	8.6 B	6.5 B	10.5 B	24.5 B	6.8 B	7 B	< 200 J	5.3 B	5.4 B	< 200	44 B	87 B	< 200	< 200
Beryllium	ug/l	1	4	< 0.5	< 0.4	< 0.15	< 0.15	0.2 B	< 1	< 0.4	< 0.4	< 0.24	< 0.24	< 0.24	< 5	< 0.21	< 0.24	< 5	< 5
Cadmium	ug/l	4	5	< 0.6	< 1.3	< 0.24	< 0.28	< 0.28	< 0.4	< 0.4	< 0.4	< 0.35	< 0.17	< 0.17	< 4	< 0.35	< 0.17	< 4	< 4
Calcium	ug/l	NS	NS	15400	10100	18000	13600	14700	15000	17300	17400	14200	13600	13800	30800	45800	66000	8360	9490
Chromium	ug/l	70	100	< 1.6	< 0.8	< 0.53	0.6 B	< 0.53	6.3 BJ	< 0.9	< 0.9	< 0.59	< 0.83	< 0.9	< 10	< 0.56	< 0.9	< 10	< 10
Cobalt	ug/l	NS	NS	< 1.7	< 1.8	1 B	< 0.51	< 0.51	1 BJ	< 1.6	< 1.6	< 0.65	< 0.3	< 0.3	< 50	1.7 B	1.4 J	< 50	< 50
Copper	ug/l	1,300	1300	< 2.3	< 2.7	< 3.3	8.1 B	< 0.7	< 10	< 1.6	< 1.6	< 2.5	< 1.9	< 0.85	< 25	< 2.5	< 0.85	< 25	< 25
Iron	ug/l	300	NS	**3700**	**788**	< 6.3	13.4 B	18.2 B	**774**	< 100	< 12	< 18	24.5 J	34.8 J	**31900**	**23900**	**59000**	< 100	< 100
Lead	ug/l	5	15	< 2.6	< 2.8	< 0.94	< 1.4	< 1.4	< 1.7	< 1.7	< 1.7	< 1.9	< 0.94	< 0.94	< 3	< 1.9	2.4 B	< 3	< 3
Magnesium	ug/l	NS	NS	3270 B	2400 B	5010	4020 B	3760 B	3030 B	4780 B	4810 B	4170 B	3960 B	4020 B	< 5000	6150	6340	< 5000	< 5000
Manganese	ug/l	50	NS	**1570**	**866**	**161**	3 B	**84.4**	**2540**	0.8 B	0.7 BJ	< 0.46	< 15	< 15	**1130 J**	**9130**	**10100**	< 15	< 15
Mercury	ug/l	2	2	< 0.08	< 0.037	< 0.15	< 0.15	< 0.049	< 0.049	< 0.082 J	< 0.082 J	< 0.082	< 0.088	< 0.088	< 0.2	< 0.082	< 0.088	< 0.2	< 0.2
Nickel	ug/l	100	NS	< 1.6	< 2.8	< 0.73	< 1.2	< 1.2	< 10	< 0.6	< 0.6	< 0.51	< 0.41	< 0.41	< 40	1.5 B	2.2 B	< 40	< 40
Potassium	ug/l	NS	NS	934 B	711 B	1350 B	1210 B	1450 B	1130 B	1360 B	1390 B	1250 B	1090 B	1090 B	< 5000	2510 B	2530 B	< 5000	< 5000
Selenium	ug/l	40	50	< 3	< 6.2	< 0.73	< 1.6	< 1.6	< 3.7	< 3.7	< 3.7	< 1.9	< 1.5	< 1.5	< 5	< 1.9	< 1.5	< 5	< 5
Silver	ug/l	40	NS	< 1.9	< 1	< 0.83	< 1	< 1	1.1 B	< 1	< 1	< 0.53	< 0.66	< 0.72	< 10	2.8 B	1 B	< 10	< 10
Sodium	ug/l	50,000	NS	< 310	3340 BJ	4150 B	3170 B	3870 B	4500 B	3940 B	4000 B	3700 J	3300 B	3400 B	< 5000	3200 B	3210 B	< 5000	< 5000
Thallium	ug/l	2 [10]	2	0.26 B	< 0.09	< 1.4	< 1.3	< 1.3	< 1.5	< 1.5	< 1.5	< 1.8	< 0.17	< 0.17	< 10	< 1.8	< 2	< 10	< 10
Vanadium	ug/l	NS	NS	< 1.9	< 1.8	< 0.49	< 0.43	< 0.43	< 0.9	< 0.9	< 0.9	< 0.56	< 0.7	< 0.43	< 50	< 0.56	< 0.43	< 50	< 50
Zinc	ug/l	2000	NS	< 3.3	5.1 B	< 2.7 J	5.9 B	< 4	< 20	< 2.9	< 2.9	< 20	9.5 J	< 20	< 20	14.4 B	8.8 J	< 20	< 20
Other																			
Alkalinity, Bicarbonate	ug/l	NS	NS	54800	36100	67800	42200	36200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Alkalinity, Carbonate	ug/l	NS	NS	< 5000	< 5000	< 5000	< 5000	< 5000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Alkalinity, total (as CaCO3)	ug/l	NS	NS	54800	36100	67800	42200	36200	60000	58300	60500	54500	48600	49100	NA	179000	308000	NA	NA
BOD, 5 Day	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromide	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	ug/l	250000	NS	5100	2700	3900	3000	4000	3900	3100	3100	3200	3600	3700	NA	< 2000	< 2000	NA	NA
COD	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide	ug/l	100	200	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA	NA	R	NA	NA	< 10	< 10
Nitrate	ug/l	10000	10000	< 110	< 110	< 110	220	< 110	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrate + Nitrite	ug/l	10000	NS	< 100	< 100	< 100	220	< 100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrite	ug/l	1000	1000	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus, Total	ug/l	NS	NS	< 50	< 50	< 50	< 50	< 50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	ug/l	250000	NS	3600	< 10000	< 10000	< 10000	15300	< 10000	< 10000	< 10000	< 10000	< 10000	< 10000	NA	< 10000	< 10000	NA	NA
Total Dissolved Solids	ug/l	500000	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total organic carbon	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See footnotes on last page

Location ID		GWQS[1]	EPA	OB-12	OB-12	OB-12	OB-12	OB-12	OB-12	OB-12	OB-12	OB-12	OB-12	OB-13	OB-13	OB-13	OB-13	OB-13	OB-13	OB-13
Sample ID			MCLs	OB-12	OB-12(040307)	OB-12(071008)	OB-12(080428)	OB-12(080909)	OB-12(063009)	OB-12(063009)Dup	OB-12(102009)	OB-12(052510)	OB-12(051711)	OB-13 (10/13/04)	OB-13	OB-13(040307)	OB-13(071008)	OB-13(080428)	OB-13(080910)	OB-13(070109)
Sample Date	Units			9/28/2006	4/3/2007	10/8/2007	4/28/2008	9/9/2008	6/30/2009	6/30/2009	10/20/2009	5/25/2010	5/17/2011	10/13/2004	10/3/2006	4/3/2007	10/8/2007	4/28/2008	9/10/2008	7/1/2009
VOC																				
1,1,1,2-Tetrachloroethane	ug/l	1	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/l	30	200	< 0.28	< 0.28	< 0.3	< 0.24	< 0.24	< 0.26	< 0.26	< 0.26	< 0.26	< 0.2	< 0.5	< 0.28	< 0.28	< 0.3	< 0.24	< 0.24	< 0.26
1,1,2,2-Tetrachloroethane	ug/l	1	NS	< 0.28	< 0.28	< 0.8	< 0.13	< 0.13	< 0.24	< 0.24	< 0.24	< 0.24	< 0.12	< 0.3	< 0.28	< 0.28	< 0.8	< 0.13	< 0.13	< 0.24
1,1,2-Trichloroethane	ug/l	3	5	< 0.32	< 0.32	< 0.49	< 0.17	< 0.17	< 0.23	< 0.23	< 0.23	< 0.23	< 0.13	< 0.5	< 0.32	< 0.32	< 0.49	< 0.17	< 0.17	< 0.23
1,1-Dichloroethane	ug/l	50	NS	< 0.23	< 0.23	< 0.2	< 0.16	< 0.24	< 0.29	< 0.29	< 0.29	< 0.29	< 0.16	< 0.5	< 0.23	< 0.23	< 0.2	< 0.16	< 0.24	< 0.29
1,1-Dichloroethene	ug/l	1	7	< 0.33	< 0.33	< 0.28	< 0.29	< 0.29	< 0.4	< 0.4	< 0.4	< 0.4	< 0.24	< 0.5	< 0.33	< 0.33	< 0.28	< 0.29	< 0.29	< 0.4
1,2,4-Trichlorobenzene	ug/l	9	70	< 0.16	< 0.16	< 0.41	< 1.3	< 1.3	< 0.56	< 0.56	< 0.56	< 0.56	< 0.16	< 0.5	< 0.16	< 0.16	< 0.41	< 1.3	< 1.3	< 0.56
1,2-Dibromo-3-Chloropropane (DBCP)	ug/l	0.02 [1]	0.2	< 1.1	< 1.1	< 0.8	< 2.4	< 1.3	< 1.1	< 1.1	< 1.1	< 1.1	< 1.2	< 1	< 1.1	< 1.1	< 0.8	< 2.4	< 1.3	< 1.1
1,2-Dibromoethane	ug/l	0.03 [0.5]	0.05	< 0.52	< 0.52	< 0.45	< 0.17	< 0.18	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.5	< 0.52	< 0.52	< 0.45	< 0.17	< 0.18	< 0.39
1,2-Dichlorobenzene	ug/l	600	600	< 0.2	< 0.2	< 0.2	< 0.18	< 0.18	< 0.26	< 0.26	< 0.26	< 0.26	< 0.15	< 0.5	< 0.2	< 0.2	< 0.2	< 0.18	< 0.18	< 0.26
1,2-Dichloroethane	ug/l	2	5	< 0.29	< 0.29	< 0.29	< 0.35	< 0.35	< 0.33	< 0.33	< 0.33	< 0.33	< 0.31	< 0.5	< 0.29	< 0.29	< 0.29	< 0.35	< 0.35	< 0.33
1,2-Dichloropropane	ug/l	1	5	< 0.2	< 0.2	< 0.24	< 0.18	< 0.18	< 0.27	< 0.27	< 0.27	< 0.27	< 0.23	< 0.5	< 0.2	< 0.2	< 0.24	< 0.18	< 0.18	< 0.27
1,3-Dichlorobenzene	ug/l	600	NS	< 0.32	< 0.32	< 0.21	< 0.26	< 0.26	< 0.25	< 0.25	< 0.25	< 0.25	< 0.19	< 0.5	< 0.32	< 0.32	< 0.21	< 0.26	< 0.26	< 0.25
1,4-Dichlorobenzene	ug/l	75	75	< 0.24	< 0.24	< 0.17	< 0.32	< 0.22	< 0.28	< 0.28	< 0.28	< 0.28	< 0.22	< 0.5	< 0.24	< 0.24	< 0.17	< 0.32	< 0.22	< 0.28
2-Butanone (MEK)	ug/l	300	NS	< 2.6	< 2.6	< 2.7	< 2.3	< 2.3	< 1.6	< 1.6	< 1.6	< 1.6	< 1.7	< 2.5	< 2.6	< 2.6	< 2.7	< 2.3	< 2.3	< 1.6
2-Hexanone	ug/l	NS	NS	< 1.3	< 1.3	< 0.94	< 1.7	< 1.7	< 1.4	< 1.4	< 1.4	< 1.4	< 1.9	< 2.5	< 1.3	< 1.3	< 0.94	< 1.7	< 1.7	< 1.4
4-methyl-2-pentanone (MIBK)	ug/l	NS	NS	< 1.1	< 1.1	< 1.4	< 1.9	< 1.3	< 0.86	< 0.86	< 0.86	< 0.86	< 0.74	< 2.5	< 1.1	< 1.1	< 1.4	< 1.9	< 1.3	< 0.86
Acetone	ug/l	6000	NS	< 2.4	< 2.4	< 2.9	< 2.1	< 2.1	< 2.9	< 2.9	< 2.9	< 2.9	< 4.4	< 5	< 2.4	< 2.4	< 2.9	< 2.1	< 2.1	< 2.9
Benzene	ug/l	1	5	< 0.21	< 0.21	< 0.19	< 0.26	< 0.26	< 0.23	< 0.23	< 0.23	< 0.23	< 0.26	< 0.5	< 0.21	< 0.21	< 0.19	< 0.26	< 0.26	< 0.23
Bromodichloromethane	ug/l	1	80	< 0.17	< 0.17	< 0.15	< 0.14	< 0.14	< 0.22	< 0.22	< 0.22	< 0.22	< 0.18	< 0.5	< 0.17	< 0.17	< 0.15	< 0.14	< 0.14	< 0.22
Bromoform	ug/l	4	80	< 0.54	< 0.54	< 0.34	< 0.18	< 0.18	< 0.23	< 0.23	< 0.23	< 0.23	< 0.42	< 0.5	< 0.54	< 0.54	< 0.34	< 0.18	< 0.18	< 0.23
Bromomethane	ug/l	10	NS	< 0.22	< 0.22	< 0.38	< 0.32	< 0.32	< 0.3	< 0.3	< 0.3	< 0.3	< 0.24	< 1 J	< 0.22	< 0.22	< 0.38	< 0.32	< 0.32	< 0.3
Carbon disulfide	ug/l	700	NS	< 0.21	< 0.21	< 0.14	< 0.15	< 0.16	< 0.74	< 0.74	< 0.74	< 0.74	< 0.13	< 1	< 0.21	< 0.21	< 0.14	< 0.15	< 0.16	< 0.74
Carbon tetrachloride	ug/l	1	5	< 0.29 J	< 0.29	< 0.19	< 0.18	< 0.18	< 0.26	< 0.26	< 0.26	< 0.26	< 0.35	< 0.5	< 0.29	< 0.29	< 0.19	< 0.18	< 0.18	< 0.26
Chlorobenzene	ug/l	50	100	< 0.22	< 0.22	< 0.19	< 0.14	< 0.19	< 0.39	< 0.39	< 0.39	< 0.39	< 0.15	< 0.5	< 0.22	< 0.22	< 0.19	< 0.14	< 0.19	< 0.39
Chloroethane	ug/l	NS	NS	< 0.56	< 0.56	< 0.67	< 0.22	< 0.22	< 0.37	< 0.37	< 0.37	< 0.37	< 0.25	< 1	< 0.56	< 0.56	< 0.67	< 0.22	< 0.22	< 0.37
Chloroform	ug/l	70	80	< 0.22	< 0.22	< 0.25	< 0.16	< 0.16	< 0.23	< 0.23	< 0.23	< 0.23	< 0.14	< 0.5	< 0.22	< 0.22	< 0.25	< 0.16	< 0.16	< 0.23
Chloromethane	ug/l	NS	NS	< 0.35	< 0.35	< 0.3	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.34	< 1	< 0.35	< 0.35	< 0.3	< 0.29	< 0.29	< 0.29
cis-1,2-Dichloroethene	ug/l	70	70	< 0.18	< 0.18	< 0.27	< 0.19	< 0.25	< 0.22	< 0.22	< 0.22	< 0.22	< 0.24	< 0.5	< 0.18	< 0.18	< 0.27	< 0.19	< 0.25	< 0.22
cis-1,3-Dichloropropene	ug/l	NS	NS	< 0.15	< 0.15	< 0.13	< 0.15	< 0.18	< 0.25	< 0.25	< 0.25	< 0.25	< 0.16	< 0.3	< 0.15	< 0.15	< 0.13	< 0.15	< 0.18	< 0.25
Cyclohexane	ug/l	NS	NS	< 0.5	< 0.5	< 0.85	< 0.85	< 0.85	< 1.9	< 1.9	< 1.9	< 1.9	< 0.43	< 0.5	< 0.5	< 0.5	< 0.85	< 0.85	< 0.85	< 1.9
Dibromochloromethane	ug/l	1	80	< 0.19	< 0.19	< 0.28	< 0.12	< 0.16	< 0.22	< 0.22	< 0.22	< 0.22	< 0.16	< 0.4	< 0.19	< 0.19	< 0.28	< 0.12	< 0.16	< 0.22
Dichlorodifluoromethane	ug/l	1,000	NS	< 0.75	< 0.75	< 1	< 0.88	< 0.88	< 0.92	< 0.92	< 0.92	< 0.92	< 0.39	< 0.5	< 0.75	< 0.75	< 1	< 0.88	< 0.88	< 0.92
Ethylbenzene	ug/l	700	700	< 0.2	< 0.2	< 0.21	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.31	< 0.5	< 0.2	< 0.2	< 0.21	< 0.27	< 0.27	< 0.27
Freon 113	ug/l	NS	NS	< 0.69	< 0.69	< 1.2	< 0.8	< 0.8	< 0.38	< 0.38	< 0.38	< 0.38	< 0.66	< 0.5	< 0.69	< 0.69	< 1.2	< 0.8	< 0.8	< 0.38
Isopropylbenzene	ug/l	700	NS	< 0.2	< 0.2	< 0.54	< 0.15	< 0.19	< 0.57	< 0.57	< 0.57	< 0.57	< 0.31	< 0.5	< 0.2	< 0.2	< 0.54	< 0.15	< 0.19	< 0.57
Methyl acetate	ug/l	7000	NS	< 2.1	< 2.1	< 1.6	< 2.5	< 1.7	< 1.5	< 1.5	< 1.5	< 1.5	< 1.3	< 5	< 2.1	< 2.1	< 1.6	< 2.5	< 1.7	< 1.5
Methyl tert butyl ether	ug/l	70	NS	< 0.31	< 0.31	< 0.2	< 0.14	< 0.16	< 0.23	< 0.23	< 0.23	< 0.23	< 0.2	< 0.5	< 0.31	< 0.31	< 0.2	< 0.14	< 0.16	< 0.23
Methylcyclohexane	ug/l	NS	NS	< 0.18	< 0.18	< 0.5	< 0.11	< 0.11	< 0.35	< 0.35	< 0.35	< 0.35	< 0.16	< 0.5	< 0.18	< 0.18	< 0.5	< 0.11	< 0.11	< 0.35
Methylene chloride	ug/l	3	5	< 0.27	< 0.27	< 0.21	< 0.16	< 0.16	< 0.3	< 0.3	< 0.3	< 0.3	< 0.2	< 1	< 0.27	< 0.27	< 0.21	< 0.16	< 0.16	< 0.3
o-Xylene	ug/l	NS	NS	< 0.31	< 0.31	< 0.2	< 0.45	< 0.45	< 0.25	< 0.25	< 0.25	NA	NA	NA	< 0.31	< 0.31	< 0.2	< 0.45	< 0.45	< 0.25
Styrene	ug/l	100	100	< 0.16	< 0.16	< 0.2	< 0.11	< 0.17	< 0.58	< 0.58	< 0.58	< 0.58	< 0.48	< 0.5 J	< 0.16	< 0.16	< 0.2	< 0.11	< 0.17	< 0.58
Tertiary Butyl Alcohol	ug/l	100	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	ug/l	1	5	< 0.28	< 0.28	< 0.28	< 0.29	< 0.29	< 0.27	< 0.27	< 0.27	< 0.27	< 0.24	< 0.5	< 0.28	< 0.28	< 0.28	< 0.29	< 0.29	< 0.27
Toluene	ug/l	600	1000	< 0.2	< 0.2	< 0.21	< 0.15	< 0.15	< 0.3	< 0.3	< 0.3	< 0.3	< 0.27	< 0.5	< 0.2	< 0.2	< 0.21	< 0.15	< 0.15	< 0.3
Trans-1,2-dichloroethene	ug/l	100	100	< 0.42	< 0.42	< 0.32	< 0.16	< 0.16	< 0.25	< 0.25	< 0.25	< 0.25	< 0.3	< 0.5	< 0.42	< 0.42	< 0.32	< 0.16	< 0.16	< 0.25
trans-1,3-Dichloropropene	ug/l	NS	NS	< 0.2	< 0.2	< 0.17	< 0.11	< 0.15	< 0.21	< 0.21	< 0.21	< 0.21	< 0.22	< 0.3	< 0.2	< 0.2	< 0.17	< 0.11	< 0.15	< 0.21
Trichloroethene	ug/l	1	5	< 0.29	< 0.29	< 0.26	< 0.18	< 0.18	< 0.24	< 0.24	< 0.24	< 0.24	< 0.22	< 0.5	< 0.29	< 0.29	< 0.26	< 0.18	< 0.18	< 0.24
Trichlorofluoromethane	ug/l	2000	NS	< 0.25	< 0.25	< 0.26	< 0.25 J	< 0.25	< 0.54	< 0.54	< 0.54	< 0.54	< 0.23	< 0.6	< 0.25	< 0.25	< 0.26	< 0.25	< 0.25	< 0.54
Vinyl Chloride	ug/l	1	2	< 0.29	< 0.29	< 0.22	< 0.21	< 0.21	< 0.44	< 0.44	< 0.44	< 0.44	< 0.22	< 0.5	< 0.29	< 0.29	< 0.22	< 0.21	< 0.21	< 0.44
Xylene, -m,p	ug/l	NS	NS	< 0.42	< 0.42	< 0.35	< 0.39	< 0.39	< 0.25	< 0.25	< 0.25	NA	NA	NA	< 0.42	< 0.42	< 0.35	< 0.39	< 0.39	< 0.25
Xylenes	ug/l	1,000	10000	< 0.31	< 0.31	< 0.2	< 0.39	< 0.39	< 0.25	< 0.25	< 0.25	< 0.25	< 0.28	< 1	< 0.31	< 0.31	< 0.2	< 0.39	< 0.39	< 0.25
Total TIC, Volatile	ug/l	NS	NS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Location ID		GWQS[1]	EPA	OB-12	OB-12	OB-12	OB-12	OB-12	OB-12	OB-12	OB-12	OB-12	OB-12	OB-13	OB-13	OB-13	OB-13	OB-13	OB-13	OB-13
Sample ID			MCLs	OB-12	OB-12(040307)	OB-12(071008)	OB-12(080428)	OB-12(080909)	OB-12(063009)	OB-12(063009)Dup	OB-12(102009)	OB-12(052510)	OB-12(051711)	OB-13 (10/13/04)	OB-13	OB-13(040307)	OB-13(071008)	OB-13(080428)	OB-13(080910)	OB-13(070109)
Sample Date	Units			9/28/2006	4/3/2007	10/8/2007	4/28/2008	9/9/2008	6/30/2009	6/30/2009	10/20/2009	5/25/2010	5/17/2011	10/13/2004	10/3/2006	4/3/2007	10/8/2007	4/28/2008	9/10/2008	7/1/2009
SVOC																				
1,1'-Biphenyl	ug/l	400	NS	< 0.35	< 0.37	< 0.36	< 0.23	< 0.61	< 0.45	< 0.44	< 0.42	< 0.49	< 0.45	< 0.3	< 0.36	< 0.38	< 0.33	< 0.25	< 0.58	< 0.45
1,2,4-Trichlorobenzene	ug/l	9	70	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	ug/l	600	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	ug/l	600	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	ug/l	75	75	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/l	700	NS	< 2.1	< 2.2	< 2.1	< 1.1	< 2.2	< 1.4	< 1.4	< 1.3	< 1.5	< 1.4	< 0.78	< 2.1	< 2.2	< 1.9	< 1.2	< 2.1	< 1.4
2,4,6-Trichlorophenol	ug/l	20	NS	< 1.3	< 1.4	< 1.4	< 1.1	< 1.7	< 1.3	< 1.3	< 1.2	< 1.4	< 1.3	< 0.84	< 1.4	< 1.4	< 1.3	< 1.1	< 1.7	< 1.3
2,4-Dichlorophenol	ug/l	20	NS	< 1.7	< 1.8	< 1.7	< 1.5	< 2.1	< 1.3	< 1.3	< 1.2	< 1.4	< 1.3	< 0.77	< 1.7	< 1.8	< 1.6	< 1.6	< 2	< 1.3
2,4-Dimethylphenol	ug/l	100	NS	< 1.7	< 1.9	< 1.8	< 1.7	< 2.2	< 1.8	< 1.7	< 1.7	< 1.9	< 1.8	< 1.1	< 1.8	< 1.9	< 1.6	< 1.8	< 2.1	< 1.8
2,4-Dinitrophenol	ug/l	40	NS	< 0.95	< 1	< 0.99	< 1.1	< 4.6	< 0.78	< 0.78	< 0.74	< 0.86	< 0.78	< 1.1	< 0.97	< 1	< 0.89	< 1.2	< 4.4	< 0.78
2,4-Dinitrotoluene	ug/l	NS	NS	< 0.91	< 0.98	< 0.96	< 0.57	< 0.5	< 0.23	< 0.23	< 0.22	< 0.26	< 0.23	< 0.82	< 0.93	< 0.99	< 0.86	< 0.6	< 0.48	< 0.23
2,6-Dinitrotoluene	ug/l	NS	NS	< 0.59	< 0.64	< 0.62	< 0.52	< 0.67	< 0.35	< 0.34	< 0.33	< 0.38	< 0.35	< 0.65	< 0.61	< 0.64	< 0.56	< 0.56	< 0.63	< 0.35
2-Chloronaphthalene	ug/l	600	NS	< 1	< 1.1	< 1.1	< 0.21	< 0.54	< 0.44	< 0.44	< 0.42	< 0.48	< 0.44	< 0.4	< 1.1	< 1.1	< 0.98	< 0.22	< 0.51	< 0.44
2-Chlorophenol	ug/l	40	NS	< 1	< 1.1	< 1.1	< 0.91	< 1.6	< 1.1	< 1.1	< 1.1	< 1.2	< 1.1	< 4.5	< 1	< 1.1	< 0.95	< 0.97	< 1.5	< 1.1
2-Methylnaphthalene	ug/l	NS	NS	< 0.43	< 0.46	< 0.45	< 0.8	< 0.48	< 0.7	< 0.69	< 0.66	< 0.77	< 0.7	< 0.76	< 0.44	< 0.47	< 0.41	< 0.85	< 0.46	< 0.7
2-Methylphenol	ug/l	NS	NS	< 1.4	< 1.5	< 1.5	< 1.1	< 1.5	< 1.2	< 1.2	< 1.1	< 1.3	< 1.2	< 0.76	< 1.5	< 1.6	< 1.4	< 1.2	< 1.4	< 1.2
2-Nitroaniline	ug/l	NS	NS	< 0.7	< 0.75	< 0.74	< 0.52	< 0.49	< 0.25	< 0.25	< 0.24	< 0.27	< 0.25	< 1.4	< 0.72	< 0.76	< 0.66	< 0.55	< 0.47	< 0.25
2-Nitrophenol	ug/l	NS	NS	< 1.9	< 2.1	< 2	< 1.6	< 2.1	< 1.3	< 1.3	< 1.2	< 1.4	< 1.3	< 0.77	< 2	< 2.1	< 1.8	< 1.7	< 2	< 1.3
3&4-Methylphenol	ug/l	NS	NS	< 1.4	< 1.4	< 1.4	< 1.1	< 1.6	< 1.1	< 1.1	< 1	< 1.2	< 1.1	< 0.74	< 1.4	< 1.5	< 1.3	< 1.2	< 1.5	< 1.1
3,3'-Dichlorobenzidine	ug/l	30	NS	< 1.3	< 1.4	< 1.4	< 1	< 5.1	< 0.31	< 0.31	< 0.3	< 0.34	< 0.31	< 0.41	< 1.3	< 1.4	< 1.2	< 1.1	< 4.8	< 0.31
3-Nitroaniline	ug/l	NS	NS	< 1.3	< 1.4	< 1.4	< 0.34	< 0.5	< 0.31	< 0.3	< 0.29	< 0.33	< 0.31	< 1.3	< 1.4	< 1.4	< 1.3	< 0.36	< 0.47	< 0.31
4,6-Dinitro-2-methylphenol	ug/l	NS	NS	< 0.77	< 0.82	< 0.8	< 2.3	< 1.3	< 0.55	< 0.54	< 0.51	< 0.6	< 0.55	< 0.68	< 0.78	< 0.83	< 0.72	< 2.5	< 1.2	< 0.55
4-Bromophenyl phenyl ether	ug/l	NS	NS	< 0.32	< 0.34	< 0.33	< 0.39	< 0.46	< 0.37	< 0.37	< 0.35	< 0.41	< 0.37	< 0.57	< 0.33	< 0.34	< 0.3	< 0.41	< 0.43	< 0.37
4-Chloro-3-Methylphenol	ug/l	NS	NS	< 1.3	< 1.3	< 1.3	< 1.3	< 2.5	< 1.1	< 1.1	< 1.1	< 1.2	< 1.1	< 5	< 1.3	< 1.4	< 1.2	< 1.3	< 2.4	< 1.1
4-Chloroaniline	ug/l	30	NS	< 0.42	< 0.45	< 0.44	< 0.36	< 0.37	< 0.27	< 0.27	< 0.25	< 0.29	< 0.27	< 0.45	< 0.43	< 0.46	< 0.4	< 0.39	< 0.35	< 0.27
4-Chlorophenyl phenyl ether	ug/l	NS	NS	< 0.46	< 0.49	< 0.48	< 0.3	< 0.5	< 0.38	< 0.37	< 0.35	< 0.41	< 0.38	< 1.1	< 0.47	< 0.5	< 0.43	< 0.32	< 0.48	< 0.38
4-Nitroaniline	ug/l	NS	NS	< 0.77	< 0.82	< 0.8	< 0.61	< 0.5	< 0.19	< 0.19	< 0.18	< 0.21	< 0.19	< 1.1	< 0.78	< 0.83	< 0.72	< 0.66	< 0.48	< 0.19
4-Nitrophenol	ug/l	NS	NS	< 0.9	< 0.96	< 0.94	< 1.6	< 2.5	< 0.88	< 0.87	< 0.83	< 0.96	< 0.88	< 2.4	< 0.92	< 0.97	< 0.84	< 1.8	< 2.4	< 0.88
Acenaphthene	ug/l	400	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.31	NA	NA	NA	NA	NA	NA
Acenaphthylene	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.37	NA	NA	NA	NA	NA	NA
Acetophenone	ug/l	700	NS	< 0.4	< 0.42	< 0.42	< 0.38	< 0.52	< 0.42	< 0.42	< 0.4	< 0.46	< 0.42	< 0.56	< 0.41	< 0.43	< 0.37	< 0.4	< 0.49	< 0.42
Anthracene	ug/l	2000	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.23	NA	NA	NA	NA	NA	NA
Atrazine	ug/l	3	3	< 0.17	< 0.19	< 0.18	< 0.29	< 0.68	< 0.42	< 0.41	< 0.39	< 0.45	< 0.42	< 1.6	< 0.18	< 0.19	< 0.16	< 0.31	< 0.65	< 0.42
Benzaldehyde	ug/l	NS	NS	< 0.28	< 0.3	< 0.29	< 0.79	< 1.8	< 0.43	< 0.43	< 0.4	< 0.47	< 0.43	< 3.8	< 0.29	< 0.3	< 0.27	< 0.85	< 1.7	< 0.43
Benzo(a)anthracene	ug/l	0.1 [0.2]	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.29	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/l	0.1 [0.2]	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.4	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/l	0.2 [10]	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.39	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.52	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/l	0.5	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.39	NA	NA	NA	NA	NA	NA
Benzyl butyl phthalate	ug/l	100	NS	< 0.63	< 0.67	< 0.66	< 0.66	< 0.46	< 0.27	< 0.26	< 0.25	< 0.29	< 0.27	< 0.57	< 0.64	< 0.68	< 0.59	< 0.71	< 0.44	< 0.27
bis(2-Chloroethoxy)methane	ug/l	NS	NS	< 0.7	< 0.74	< 0.73	< 0.33	< 0.57	< 0.26	< 0.26	< 0.25	< 0.29	< 0.26	< 0.35	< 0.71	< 0.75	< 0.65	< 0.35	< 0.54	< 0.26
bis(2-Chloroethyl)ether	ug/l	7	NS	< 0.56	< 0.6	< 0.59	< 0.7	< 0.55	< 0.33	< 0.33	< 0.31	< 0.36	< 0.33	< 0.51	< 0.58	< 0.61	< 0.53	< 0.75	< 0.52	< 0.33
bis(2-Chloroisopropyl)ether	ug/l	300	NS	< 0.79	< 0.84	< 0.82	< 0.6	< 0.6	< 0.41	< 0.41	< 0.39	< 0.45	< 0.41	< 0.46	< 0.8	< 0.85	< 0.74	< 0.64	< 0.57	< 0.41
bis(2-Ethylhexyl)phthalate	ug/l	3	6	< 0.7	< 0.75	< 0.73	< 0.91	< 0.83	< 0.35	< 0.34	< 0.33	< 0.38	< 0.35	< 0.77	< 0.72	1.6 J	< 0.66	< 0.98	< 0.79	< 0.35
Caprolactam	ug/l	NS	NS	< 0.34	< 0.36	< 0.35	< 0.51	< 0.7	< 0.21	< 0.21	< 0.2	< 0.23	< 0.21	< 0.46	< 0.34	< 0.36	< 0.32	< 0.55	< 0.66	< 0.21
Carbazole	ug/l	NS	NS	< 0.39	< 0.41	< 0.4	< 0.41	< 0.5	< 0.18	< 0.17	< 0.17	< 0.19	< 0.18	< 0.36	< 0.4	< 0.42	< 0.36	< 0.44	< 0.47	< 0.18
Chrysene	ug/l	5	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.28	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	ug/l	0.3 [0.5]	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.61	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/l	NS	NS	< 0.37	< 0.39	< 0.38	< 0.24	< 0.54	< 0.32	< 0.32	< 0.3	< 0.35	< 0.32	< 0.52	< 0.37	< 0.4	< 0.34	< 0.25	< 0.51	< 0.32
Diethyl phthalate	ug/l	6000	NS	< 0.41	< 0.44	< 0.43	< 0.36	< 0.4	< 0.18	< 0.17	< 0.17	< 0.19	< 0.18	< 1.5	< 0.42	< 0.45	< 0.39	< 0.38	< 0.38	< 0.18
Dimethyl phthalate	ug/l	NS	NS	< 0.35	< 0.37	< 0.36	< 0.35	< 0.4	< 0.24	< 0.24	< 0.23	< 0.26	< 0.24	< 0.61	< 0.36	< 0.38	< 0.33	< 0.37	< 0.38	< 0.24
di-n-butyl phthalate	ug/l	700	NS	< 0.63	< 0.67	< 0.66	< 0.42	< 0.55	< 0.2	< 0.2	< 0.19	< 0.22	< 0.2	< 0.83	< 0.64	< 0.68	< 0.59	< 0.44	< 0.53	< 0.2
di-n-octylphthalate	ug/l	100	NS	< 0.61	< 0.65	< 0.63	< 0.5	< 0.55	< 0.42	< 0.42	< 0.4	< 0.46	< 0.42	< 0.66	< 0.62	< 0.65	< 0.57	< 0.53	< 0.52	< 0.42
Fluoranthene	ug/l	300	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.67	NA	NA	NA	NA	NA	NA
Fluorene	ug/l	300	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.94	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	ug/l	0.02 [10]	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.2	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/l	1	NS	< 0.19	< 0.2 J	< 0.19	< 0.13	< 0.42	< 0.4	< 0.39	< 0.37	< 0.15	< 0.14	< 0.44	< 0.19	< 0.2 J	< 0.18	< 0.14	< 0.39	< 0.4
Hexachlorocyclopentadiene	ug/l	40	50	< 0.43	< 0.46	< 0.45	< 0.11	< 5	< 0.71	< 0.71	< 0.67	< 0.28	< 0.26	< 0.47	< 0.44	< 0.47	< 0.41	< 0.11	< 4.8	< 0.71
Hexachloroethane	ug/l	7	NS	< 0.3	< 0.32 J	< 0.31	< 0.17	< 0.33	< 0.28	< 0.28	< 0.26	< 0.24	< 0.22	< 0.7	< 0.31	< 0.33 J	< 0.28	< 0.18	< 0.32	< 0.28
Indeno(1,2,3-cd)pyrene	ug/l	0.2 [10]	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.6	NA	NA	NA	NA	NA	NA
Isophrone	ug/l	40	NS	< 0.63	< 0.67	< 0.65	< 0.51	< 0.77	< 0.26	< 0.26	< 0.25	< 0.29	< 0.26	< 0.57	< 0.64	< 0.68	< 0.59	< 0.54	< 0.73	< 0.26
Naphthalene	ug/l	300	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.1	NA	NA	NA	NA	NA	NA
Nitrobenzene	ug/l	6	NS	< 0.45	< 0.48	< 0.47	< 0.73	< 0.73	< 0.27	< 0.27	< 0.25	< 0.29	< 0.27	< 0.64	< 0.46	< 0.48	< 0.42	< 0.78	< 0.69	< 0.27
N-Nitroso-di-n-Propylamine	ug/l	10	NS	< 0.5	< 0.53	< 0.52	< 0.4	< 0.44	< 0.47	< 0.46	< 0.44	< 0.51	< 0.47	< 0.53	< 0.51	< 0.54	< 0.47	< 0.42	< 0.41	< 0.47
N-Nitrosodiphenylamine	ug/l	10	NS	< 0.55	< 0.59	< 0.57	< 0.43	< 0.67	< 0.23	< 0.23	< 0.22	< 0.25	< 0.23	< 0.84	< 0.56	< 0.59	< 0.52	< 0.46	< 0.64	< 0.23
Pentachlorophenol	ug/l	0.3 [1]	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.79	NA	NA	NA	NA	NA	NA
Phenanthrene	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.25	NA	NA	NA	NA	NA	NA
Phenol	ug/l	2000	NS	< 0.53	< 0.56	< 0.55	< 0.71	< 1.5	< 0.61	< 0.61	< 0.58	< 0.67	< 0.61	< 1.8	< 0.54	< 0.57	< 0.5	< 0.76	< 1.4	< 0.61
Pyrene	ug/l	200	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.61	NA	NA	NA	NA	NA	NA
Total TIC, Semi-Volatile	ug/l	NS	NS	0	0	6.9 J	0	9.1 J	0	0	0	0	0	0	0	0	0	7.7 J	0	0

Location ID		GWQS[1]	EPA	OB-12	OB-12	OB-12	OB-12	OB-12	OB-12	OB-12	OB-12	OB-12	OB-12	OB-13	OB-13	OB-13	OB-13	OB-13	OB-13	OB-13
Sample ID			MCLs	OB-12	OB-12(040307)	OB-12(071008)	OB-12(080428)	OB-12(080909)	OB-12(063009)	OB-12(063009)Dup	OB-12(102009)	OB-12(052510)	OB-12(051711)	OB-13 (10/13/04)	OB-13	OB-13(040307)	OB-13(071008)	OB-13(080428)	OB-13(080910)	OB-13(070109)
Sample Date	Units			9/28/2006	4/3/2007	10/8/2007	4/28/2008	9/9/2008	6/30/2009	6/30/2009	10/20/2009	5/25/2010	5/17/2011	10/13/2004	10/3/2006	4/3/2007	10/8/2007	4/28/2008	9/10/2008	7/1/2009
SVOC BY SIM																				
Acenaphthene	ug/l	400	NS	< 0.018	< 0.019	< 0.019	< 0.017	< 0.017	< 0.017	< 0.017	< 0.029	< 0.034	< 0.015	NA	< 0.019	< 0.02	< 0.017	< 0.018	< 0.017	< 0.017
Acenaphthylene	ug/l	NS	NS	< 0.01	< 0.011	< 0.011	< 0.0073	< 0.0076	< 0.0074	< 0.0076	< 0.039	< 0.046	< 0.017	NA	< 0.01	< 0.011	< 0.0095	< 0.0078	< 0.0074	< 0.0074
Anthracene	ug/l	2000	NS	< 0.022	< 0.024	< 0.023	< 0.022	< 0.023	< 0.022	< 0.023	< 0.026	< 0.03	< 0.011	NA	< 0.023	< 0.024	< 0.021	< 0.023	< 0.022	< 0.022
Benzo(a)anthracene	ug/l	0.1 [0.2]	NS	< 0.0072	< 0.0077	< 0.0076	< 0.035	< 0.037	< 0.035	< 0.037	< 0.024	< 0.028	< 0.016	NA	< 0.0074	< 0.0078	< 0.0068	< 0.037	< 0.035	< 0.036
Benzo(a)pyrene	ug/l	0.1 [0.2]	0.2	< 0.018	< 0.019	< 0.019	< 0.037	< 0.039	< 0.037	< 0.039	< 0.031	< 0.036	< 0.0052	NA	< 0.018	< 0.019	< 0.017	< 0.039	< 0.037	< 0.038
Benzo(b)fluoranthene	ug/l	0.2 [10]	NS	< 0.039	< 0.041	< 0.04	< 0.018	< 0.018	< 0.018	< 0.018	< 0.036	< 0.042	< 0.017	NA	< 0.039	< 0.042	< 0.036	< 0.019	< 0.018	< 0.018
Benzo(g,h,i)perylene	ug/l	NS	NS	< 0.019	< 0.02	< 0.02	< 0.012	< 0.013	< 0.012	< 0.013	< 0.029	< 0.033	< 0.011	NA	< 0.019	< 0.02	< 0.018	< 0.013	< 0.012	< 0.012
Benzo(k)fluoranthene	ug/l	0.5	NS	< 0.017	< 0.018	< 0.017	< 0.02	< 0.02	< 0.02	< 0.02	< 0.028	< 0.033	< 0.013	NA	< 0.017	< 0.018	< 0.016	< 0.021	< 0.02	< 0.02
Chrysene	ug/l	5	NS	< 0.018	< 0.019	< 0.019	< 0.018	< 0.019	< 0.019	< 0.019	< 0.022	< 0.026	< 0.025	NA	< 0.018	< 0.019	< 0.017	< 0.02	< 0.019	< 0.019
Dibenzo(a,h)anthracene	ug/l	0.3 [0.5]	NS	< 0.017	< 0.019	< 0.018	< 0.021	< 0.022	< 0.021	< 0.022	< 0.023	< 0.026	< 0.024	NA	< 0.018	< 0.019	< 0.016	< 0.022	< 0.021	< 0.021
Fluoranthene	ug/l	300	NS	< 0.0096	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.024	< 0.028	< 0.01	NA	< 0.0098	< 0.01	< 0.009	< 0.011	< 0.01	< 0.01
Fluorene	ug/l	300	NS	< 0.021	< 0.023	< 0.022	< 0.02	< 0.021	< 0.021	< 0.021	< 0.027	< 0.031	< 0.016	NA	< 0.022	< 0.023	< 0.02	< 0.022	< 0.021	< 0.021
Hexachlorobenzene	ug/l	0.02 [10]	1	< 0.065	< 0.023	< 0.022	< 0.01	< 0.011	< 0.01	< 0.011	< 0.0099	< 0.012	< 0.0085	NA	< 0.066	< 0.023	< 0.02	< 0.011	< 0.01	< 0.011
Indeno(1,2,3-cd)pyrene	ug/l	0.2 [10]	NS	< 0.012	< 0.013	< 0.012	< 0.015	< 0.016	< 0.015	< 0.016	< 0.029	< 0.034	< 0.011	NA	< 0.012	< 0.013	< 0.011	< 0.016	< 0.015	< 0.015
Naphthalene	ug/l	300	NS	< 0.027	< 0.029	< 0.029	< 0.014	< 0.015	< 0.015	< 0.015	< 0.019	< 0.022	< 0.017	NA	< 0.028	< 0.03	< 0.026	< 0.015	< 0.015	< 0.015
Pentachlorophenol	ug/l	0.3 [1]	1	< 0.42	< 0.34	R	< 0.23	< 0.24	< 0.23	< 0.24	< 0.22	< 0.079	< 0.3	NA	< 0.43	< 0.34	R	< 0.25	< 0.23	< 0.24
Phenanthrene	ug/l	NS	NS	< 0.022	< 0.024	< 0.023	< 0.018	< 0.018	< 0.018	< 0.018	< 0.036	< 0.042	< 0.017	NA	< 0.023	< 0.024	< 0.021	< 0.019	< 0.018	< 0.018
Pyrene	ug/l	200	NS	< 0.015	< 0.016	< 0.016	< 0.013	< 0.013	< 0.013	< 0.013	< 0.022	< 0.026	< 0.0086	NA	< 0.015	< 0.016	< 0.014	< 0.013	< 0.013	< 0.013
PCBs																				
PCB 1016	ug/l	0.5	0.5	< 0.1	< 0.11	< 0.1	< 0.094	< 0.096 J	< 0.2	< 0.21	< 0.32	< 0.32	< 0.14	< 0.075	< 0.1	< 0.11	< 0.099	< 0.1	< 0.094	< 0.19
PCB 1221	ug/l	0.5	0.5	< 0.52	< 0.53	< 0.52	< 0.47	< 0.48 J	< 0.32	< 0.34	< 0.43	< 0.44	< 0.3	< 0.085	< 0.51	< 0.53	< 0.49	< 0.52	< 0.47	< 0.31
PCB 1232	ug/l	0.5	0.5	< 0.43	< 0.44	< 0.43	< 0.39	< 0.4 J	< 0.21	< 0.23	< 0.33	< 0.33	< 0.43	< 0.12	< 0.42	< 0.44	< 0.41	< 0.43	< 0.39	< 0.21
PCB 1242	ug/l	0.5	0.5	< 0.18	< 0.18	< 0.18	< 0.16	< 0.17 J	< 0.093	< 0.099	< 0.28	< 0.29	< 0.097	< 0.13	< 0.18	< 0.18	< 0.17	< 0.18	< 0.16	< 0.089
PCB 1248	ug/l	0.5	0.5	< 0.17	< 0.17	< 0.17	< 0.15	< 0.16 J	< 0.26	< 0.28	< 0.29	< 0.3	< 0.16	< 0.072	< 0.16	< 0.17	< 0.16	< 0.17	< 0.15	< 0.25
PCB 1254	ug/l	0.5	0.5	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11 J	< 0.12	< 0.12	< 0.19	< 0.19	< 0.16	< 0.072	< 0.12	< 0.12	< 0.11	< 0.12	< 0.11	< 0.11
PCB 1260	ug/l	0.5	0.5	< 0.13	< 0.13	< 0.13	< 0.12	< 0.12 J	< 0.15	< 0.16	< 0.15	< 0.15	< 0.23	< 0.1	< 0.13	< 0.13	< 0.12	< 0.13	< 0.12	< 0.14
Total PCBs	ug/l	0.5	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pesticides/Herbicides																				
4,4-DDD	ug/l	0.1	NS	< 0.0027	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.017	< 0.0026	NA	NA	NA	NA	NA
4,4-DDE	ug/l	0.1	NS	< 0.0018	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0041	< 0.0018	NA	NA	NA	NA	NA
4,4-DDT	ug/l	0.1	NS	< 0.0054	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.018	< 0.0053	NA	NA	NA	NA	NA
Aldrin	ug/l	0.04	NS	< 0.0037	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0079	< 0.0036	NA	NA	NA	NA	NA
alpha-BHC	ug/l	0.02	NS	< 0.0029	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.013	< 0.0028	NA	NA	NA	NA	NA
alpha-Chlordane	ug/l	NS	NS	< 0.0048	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.018	< 0.0047	NA	NA	NA	NA	NA
beta-BHC	ug/l	0.04	NS	< 0.0068	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0086	< 0.0066	NA	NA	NA	NA	NA
delta-BHC	ug/l	NS	NS	< 0.0034	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0098	< 0.0033	NA	NA	NA	NA	NA
Dieldrin	ug/l	0.03	NS	< 0.0019	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.013	< 0.0018	NA	NA	NA	NA	NA
Endosulfan I (alpha)	ug/l	40	NS	< 0.0023	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0029	< 0.0023	NA	NA	NA	NA	NA
Endosulfan II (beta)	ug/l	40	NS	< 0.0036	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0028	< 0.0035	NA	NA	NA	NA	NA
Endosulfan sulfate	ug/l	40	NS	< 0.0051	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.013	< 0.005	NA	NA	NA	NA	NA
Endrin	ug/l	2	2	< 0.0033	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.011	< 0.0032	NA	NA	NA	NA	NA
Endrin Aldehyde	ug/l	NS	NS	< 0.0071	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.02	< 0.0069	NA	NA	NA	NA	NA
Endrin ketone	ug/l	NS	NS	< 0.0038	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0053	< 0.0038	NA	NA	NA	NA	NA
gamma-Chlordane	ug/l	NS	NS	< 0.0019	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.013	< 0.0018	NA	NA	NA	NA	NA
Heptachlor	ug/l	0.05	0.4	< 0.0028	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0059	< 0.0028	NA	NA	NA	NA	NA
Heptachlor epoxide	ug/l	0.2	0.2	< 0.0016	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.011	< 0.0016	NA	NA	NA	NA	NA
Lindane	ug/l	0.03	0.2	< 0.0019	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0026	< 0.0018	NA	NA	NA	NA	NA
Methoxychlor	ug/l	40	40	< 0.0074	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.012	< 0.0073	NA	NA	NA	NA	NA
Toxaphene	ug/l	2	3	< 0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.25	< 0.1	NA	NA	NA	NA	NA

Location ID		GWQS[1]	EPA	OB-12	OB-12	OB-12	OB-12	OB-12	OB-12	OB-12	OB-12	OB-12	OB-12	OB-13	OB-13	OB-13	OB-13	OB-13	OB-13	OB-13
Sample ID			MCLs	OB-12	OB-12(040307)	OB-12(071008)	OB-12(080428)	OB-12(080909)	OB-12(063009)	OB-12(063009)Dup	OB-12(102009)	OB-12(052510)	OB-12(051711)	OB-13 (10/13/04)	OB-13	OB-13(040307)	OB-13(071008)	OB-13(080428)	OB-13(080910)	OB-13(070109)
Sample Date	Units			9/28/2006	4/3/2007	10/8/2007	4/28/2008	9/9/2008	6/30/2009	6/30/2009	10/20/2009	5/25/2010	5/17/2011	10/13/2004	10/3/2006	4/3/2007	10/8/2007	4/28/2008	9/10/2008	7/1/2009
Metals - Total																				
Aluminum	ug/l	200	NS	< 110	< 23	28.7 B	< 24	< 24	< 26	< 26	< 26	< 200	< 200	< 200	< 110	< 23	< 26	24.3 B	< 24	**247 J**
Antimony	ug/l	6	6	< 4.4	< 5	< 0.9	< 1.8	< 1.8	< 4	< 4	< 2.9	< 2.2	< 1.3	< 5	< 4.4	< 5	< 0.9	< 1.8	< 1.8	< 4
Arsenic	ug/l	3 [8]	10	< 1.5	< 1.5	< 1.1	< 1.7	< 1.7	< 2.4	< 2.4	< 2.4	< 1.4	< 0.92	< 5	< 1.5	< 1.5	< 1.1	< 1.7	< 1.7	< 2.4
Barium	ug/l	6000	2000	< 2.5 J	3.3 B	4.8 B	2.6 B	2 B	3.7 BJ	3.7 BJ	3.4 B	< 200 J	2.4 B	< 200	< 2.5	4.9 B	11.6 B	3.5 B	6.7 BJ	4.7 BJ
Beryllium	ug/l	1	4	< 0.5	< 0.4	< 0.15	< 0.15	< 0.15	< 1	< 1	< 0.4	< 0.24	< 0.24	< 5	< 0.5	< 0.4	< 0.15	< 0.15	< 0.15	< 1
Cadmium	ug/l	4	5	< 0.6	< 1.3	< 0.24	< 0.28	< 0.28	< 0.4	< 0.4	< 0.4	< 0.35	< 0.17	< 4	< 0.6	< 1.3	< 0.24	< 0.28	< 0.28	< 0.4
Calcium	ug/l	NS	NS	7280	7720	9460	6860	8500	7400	7240	10800	7210	5970	11500	8900	6210	21100	5420	17400	7430
Chromium	ug/l	70	100	< 1.6	< 0.8	< 0.53	0.7 B	< 0.53	< 10	< 10	< 0.9	< 0.59	< 0.9	< 10	< 1.6	< 0.8	< 0.53	< 0.53	< 0.53	13.9 J
Cobalt	ug/l	NS	NS	< 1.7	< 1.8	0.6 B	< 0.51	< 0.51	< 0.4	< 0.4	< 1.6	< 0.65	< 0.3	< 50	< 1.7	< 1.8	1.1 B	< 0.51	< 0.51	< 0.4
Copper	ug/l	1,300	1300	3.1 B	< 2.7	8.4 B	< 2.5 B	< 10	4.2 BJ	4.3 BJ	4.9 B	3.2 B	1.7 B	< 25	< 2.3	< 2.7	< 3.3	< 2.5	< 0.7	< 1.6
Iron	ug/l	300	NS	104	< 25	19.5 BJ	67.4 B	< 7.4	< 100	< 100	< 100	< 100	31 J	< 100	67.2 B	< 25	10.3 BJ	40.4 B	20.1 B	< 100
Lead	ug/l	5	15	< 2.6	< 2.8	< 0.94	< 1.4	< 1.4	< 1.7	< 1.7	< 1.7	< 1.9	< 0.94	< 3	< 2.6	< 2.8	< 0.94	< 1.4	< 1.4	< 1.7
Magnesium	ug/l	NS	NS	2720 B	2830 B	3690 B	2510 B	3440 B	2700 B	2640 B	3820 B	2580 B	2230 B	< 5000	3960 B	2550 B	7490	2270 B	6220	3000 B
Manganese	ug/l	50	NS	2.4 BJ	1.3 B	1.6 BJ	1.9 B	< 15	2.5 BJ	2.6 BJ	< 15	1.6 BJ	< 15 J	< 15 J	1.1 B	< 0.6	1.4 BJ	0.8 B	1.8 B	5.4 BJ
Mercury	ug/l	2	2	< 0.08	0.038 B	< 0.15	< 0.15	0.074 B	0.088 B	< 0.049	< 0.082	< 0.082	< 0.088	< 0.2	< 0.08	< 0.037	< 0.15	< 0.15	< 0.049	< 0.049
Nickel	ug/l	100	NS	< 1.6	< 2.8	< 0.73	< 1.2	< 1.2	< 0.6	< 10	< 0.6	< 0.51	< 0.41	< 40	< 1.6	< 2.8	< 0.73	< 1.2	1.2 B	20.5 J
Potassium	ug/l	NS	NS	667 B	513 B	517 B	481 B	696 B	775 B	761 B	730 B	557 BJ	491 B	< 5000	954 B	1110 B	1210 B	711 B	1330 B	1230 B
Selenium	ug/l	40	50	< 3	< 6.2	2 B	< 1.6	< 1.6	< 3.7	< 3.7	< 3.7	< 1.9	< 1.5	< 5	4.8 B	< 6.2	< 0.73	< 1.6	< 1.6	< 3.7
Silver	ug/l	40	NS	< 1.9	< 1	< 0.83	< 1	< 1	< 1	< 1	< 1	< 0.53	< 0.72	< 10	< 1.9	< 1	< 0.83	< 1	< 1	1 B
Sodium	ug/l	50,000	NS	3580 BJ	3740 BJ	2830 B	2060 B	2400 B	2720 B	2720 B	3400 B	2300 BJ	2070 B	< 5000	< 310	4060 BJ	3500 B	2410 B	3370 BJ	3120 B
Thallium	ug/l	2 [10]	2	< 0.09	< 0.09	< 1.4	< 1.3	< 1.3	< 1.5	< 1.5	< 1.5	< 1.8	< 0.17	< 10	< 0.09	< 0.09	< 1.4	< 1.3	< 1.3	< 1.5
Vanadium	ug/l	NS	NS	< 1.9	< 1.8	< 0.49	0.7 B	< 0.43	< 0.9	< 0.9	< 0.9	< 0.56	< 0.43	< 50	< 1.9	< 1.8	< 0.49	0.6 B	< 0.43	0.7 B	< 0.9
Zinc	ug/l	2000	NS	< 3.3	< 3.4 J	< 2.7	5 B	< 4	< 20	< 20	4 B	< 20	< 20	< 20	< 3.3	< 3.4 J	< 2.7	< 4	4.5 B	21.9 J
Metals - Dissolved																				
Aluminum	ug/l	200	NS	< 110	< 23	< 26	< 24	< 24	< 26	< 26	< 26	< 200	< 200	< 200	< 110	< 23	< 26	< 24	< 24	< 26
Antimony	ug/l	6	6	< 4.4	< 5	< 0.9	< 1.8	< 1.8	< 4	< 4	< 2.9	< 2.2	< 1.3	< 5	< 4.4	< 5	< 0.9	< 1.8	< 1.8	< 4
Arsenic	ug/l	3 [8]	10	< 1.5	< 1.5	< 1.1	< 1.7	< 1.7	< 2.4	< 2.4	< 2.4	< 1.4	< 0.92	< 5	< 1.5	< 1.5	< 1.1	< 1.7	< 1.7	< 2.4
Barium	ug/l	6000	2000	2.9 BJ	3.6 B	6.3 B	2.7 B	2 B	3.5 BJ	3.8 BJ	2.7 B	< 200 J	2.2 B	< 200	< 2.5	4.7 B	8.3 B	3.1 B	7.1 B	4.4 BJ
Beryllium	ug/l	1	4	< 0.5	< 0.4	< 0.15	< 0.15	< 0.15	< 1	< 1	< 0.4	< 0.24	< 0.24	< 5	< 0.5	< 0.4	< 0.15	< 0.15	< 0.15	< 1
Cadmium	ug/l	4	5	< 0.6	< 1.3	< 0.24	< 0.28	< 0.28	< 0.4	< 0.4	< 0.4	< 0.35	< 0.17	< 4	< 0.6	< 1.3	< 0.24	< 0.28	< 0.28	< 0.4
Calcium	ug/l	NS	NS	7010	8040	9220	7190	8140	7220	7200	11000	7470	6090	11300	8830	6330	20300	5540	17300	7400
Chromium	ug/l	70	100	< 1.6	< 0.8	< 0.53	0.6 B	< 0.53	< 10	< 0.9	< 0.9	< 0.59	< 0.83	< 10	< 1.6	< 0.8	< 0.53	< 0.53	< 0.53	< 10
Cobalt	ug/l	NS	NS	< 1.7	< 1.8	0.7 B	< 0.51	< 0.51	< 0.4	< 0.4	< 1.6	< 0.65	< 0.3	< 50	< 1.7	< 1.8	0.9 B	< 0.51	< 0.51	< 0.4
Copper	ug/l	1,300	1300	2.6 B	< 2.7	7.7 B	< 2.5 B	< 10	3.5 BJ	3.2 BJ	4.1 B	2.9 B	2.6 B	< 25	< 2.3	< 2.7	< 3.3	< 2.5 B	1 B	< 1.6
Iron	ug/l	300	NS	< 67	< 25	20.5 BJ	12 B	< 7.4	< 100	< 12	16.7 B	< 100	< 100	< 100	< 67	< 25	< 6.3 J	16.7 B	< 7.4	< 100
Lead	ug/l	5	15	< 2.6	< 2.8	< 0.94	< 1.4	< 1.4	< 1.7	< 1.7	< 1.7	< 1.9	< 0.94	< 3	< 2.6	< 2.8	< 0.94	< 1.4	< 1.4	< 1.7
Magnesium	ug/l	NS	NS	2640 B	2920 B	3590 B	2630 B	3330 B	2620 B	2610 B	3870 B	2690 B	2270 B	< 5000	3980 B	2600 B	7200	2320 B	6130	2980 B
Manganese	ug/l	50	NS	2.4 BJ	1.4 B	1.8 BJ	1.3 B	< 0.24	< 15	< 15	1.4 B	1.9 BJ	< 15	< 15 J	0.63 B	< 0.6	1.3 BJ	0.7 B	2.8 B	< 15
Mercury	ug/l	2	2	< 0.08	< 0.037	0.16 B	< 0.15	< 0.049	< 0.049	< 0.049	< 0.082	< 0.082	< 0.088	< 0.2	< 0.08	< 0.037	< 0.15	< 0.15	< 0.049	< 0.049
Nickel	ug/l	100	NS	< 1.6	< 2.8	< 0.73	< 1.2	< 1.2	< 0.6	< 0.6	< 0.6	< 10	< 10	< 40	< 1.6	< 2.8	< 0.73	< 1.2	< 1.2	< 10
Potassium	ug/l	NS	NS	678 B	539 B	465 B	524 B	669 B	769 B	777 B	704 B	574 BJ	499 B	< 5000	865 B	1130 B	1170 B	702 B	1300 B	1230 B
Selenium	ug/l	40	50	< 3	< 6.2	< 0.73	< 1.6	< 1.6	< 3.7	< 3.7	< 3.7	< 1.9	< 1.5	< 5	< 3	< 6.2	< 0.73	< 1.6	< 1.6	< 3.7
Silver	ug/l	40	NS	< 1.9	< 1	< 0.83	< 1	< 1	< 1	< 1	< 1	< 0.53	< 0.66	< 10	< 1.9	< 1	< 0.83	< 1	< 1	1.1 B
Sodium	ug/l	50,000	NS	3690 BJ	3580 BJ	2610 B	2140 B	2330 B	2720 B	2780 B	3400 B	2390 BJ	2110 B	< 5000	< 310	4230 BJ	3440 B	2450 B	3360 B	3170 B
Thallium	ug/l	2 [10]	2	< 0.09	< 0.09	< 1.4	< 1.3	< 1.3	< 1.5	< 1.5	< 1.5	< 1.8	< 0.17	< 10	0.14 B	< 0.09	< 1.4	< 1.3	< 1.3	< 1.5
Vanadium	ug/l	NS	NS	< 1.9	< 1.8	< 0.49	< 0.43	< 0.43	< 0.9	< 0.9	< 0.9	< 0.56	< 0.7	< 50	< 1.9	< 1.8	< 0.49	0.5 B	0.8 B	< 0.9
Zinc	ug/l	2000	NS	< 3.3	7.7 BJ	< 2.7	5.2 B	< 4	< 20	< 20	5.8 B	< 20	9.6 J	< 20	< 3.3	7 BJ	< 2.7	< 4	< 4	< 20
Other																				
Alkalinity, Bicarbonate	ug/l	NS	NS	18300	13200	24400	15000	24800	NA	NA	NA	NA	NA	NA	29000	18300	64100	15000	48600	NA
Alkalinity, Carbonate	ug/l	NS	NS	< 5000	< 5000	< 5000	< 5000	< 5000	NA	NA	NA	NA	NA	NA	< 5000	< 5000	< 5000	< 5000	< 5000	NA
Alkalinity, total (as CaCO3)	ug/l	NS	NS	NA	13200	24400	15000	24800	20400	23300	36500	22300	16700	NA	29000	18300	64100	15000	48600	20400
BOD, 5 Day	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromide	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	ug/l	250000	NS	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	NA	2200	2300	2100	2200	2100	2600
COD	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide	ug/l	100	200	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA	R	< 10	< 10	< 10	< 10	< 10	NA
Nitrate	ug/l	10000	10000	< 110	< 110	< 110	< 110	460	NA	NA	NA	NA	NA	NA	110	< 110	490	< 110	300	NA
Nitrogen, Nitrate + Nitrite	ug/l	10000	NS	< 100	< 100	< 100	< 100	460	NA	NA	NA	NA	NA	NA	110	< 100	490	< 100	300	NA
Nitrogen, Nitrite	ug/l	1000	1000	< 10	< 10 J	< 10	< 10	< 10	NA	NA	NA	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	NA
Phosphorus, Total	ug/l	NS	NS	< 50	< 50	< 50	< 50	< 50	NA	NA	NA	NA	NA	NA	< 50	< 50	< 50	< 50	< 50	NA
Sulfate	ug/l	250000	NS	16800	17500	18400	14000	11600	14900	15800	12700	11900	10200	NA	15500	10200	22600	< 10000	19000	11200
Total Dissolved Solids	ug/l	500000	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total organic carbon	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See footnotes on last page

Location ID		GWQS[1]	EPA	OB-13	OB-13	OB-13	OB-14A	OB-14A	OB-14A	OB-14A	OB-14A	OB-14A	OB-14A	OB-14A	OB-14A	OB-14A	OB-14A	OB-14B	OB-14B
Sample ID			MCLs	OB-13(102109)	OB-13(052510)	OB-13(051711)	OB-14A (10/12/04)	OB-14A	OB-14A(040907)	DUP (071011)	OB-14A (071011)	OB-14A(080430)	OB-14A(080911)	OB-14A(070609)	OB-14A(102309)	OB-14A(052810)	OB-14A(051911)	OB-14B (10/12/04)	OB-14B
Sample Date	Units			10/21/2009	5/25/2010	5/17/2011	10/12/2004	9/27/2006	4/9/2007	10/11/2007	10/11/2007	4/30/2008	9/11/2008	7/6/2009	10/23/2009	5/28/2010	5/19/2011	10/12/2004	9/27/2006
VOC																			
1,1,1,2-Tetrachloroethane	ug/l	1	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/l	30	200	< 0.26	< 0.26	< 0.2	< 0.5	< 0.28	< 0.28	< 0.3	< 0.3	< 0.24	< 0.24	< 0.26	< 0.26	< 0.26	< 0.2	< 0.5	< 0.28
1,1,2,2-Tetrachloroethane	ug/l	1	NS	< 0.24	< 0.24	< 0.12	< 0.3	< 0.28	< 0.28	< 0.8	< 0.8	< 0.13	< 0.13	< 0.24	< 0.24	< 0.24	< 0.12	< 0.3	< 0.28
1,1,2-Trichloroethane	ug/l	3	5	< 0.23	< 0.23	< 0.13	< 0.5	< 0.32	< 0.32	< 0.49	< 0.49	< 0.17	< 0.17	< 0.23	< 0.23	< 0.23	< 0.13	< 0.5	< 0.32
1,1-Dichloroethane	ug/l	50	NS	< 0.29	< 0.29	< 0.16	< 0.5	< 0.23	< 0.23	< 0.2	< 0.2	< 0.16	< 0.24	< 0.29	< 0.29	< 0.29	< 0.16	< 0.5	< 0.23
1,1-Dichloroethene	ug/l	1	7	< 0.4	< 0.4	< 0.24	< 0.5	< 0.33	< 0.33	< 0.28	< 0.28	< 0.29	< 0.29	< 0.4	< 0.4	< 0.4	< 0.24	< 0.5	< 0.33
1,2,4-Trichlorobenzene	ug/l	9	70	< 0.56	< 0.56	< 0.16	< 0.5	< 0.16	< 0.16	< 0.41	< 0.41	< 1.3	< 1.3	< 0.56	< 0.56	< 0.56	< 0.16	< 0.5	< 0.16
1,2-Dibromo-3-Chloropropane (DBCP)	ug/l	0.02 [1]	0.2	< 1.1	< 1.1	< 1.2	< 1	< 1.1	< 1.1	< 0.8	< 0.8	< 2.4	< 1.3	< 1.1	< 1.1	< 1.1	< 1.2	< 1	< 1.1
1,2-Dibromoethane	ug/l	0.03 [0.5]	0.05	< 0.39	< 0.39	< 0.39	< 0.5	< 0.52	< 0.52	< 0.45	< 0.45	< 0.17	< 0.18	< 0.39	< 0.39	< 0.39	< 0.39	< 0.5	< 0.52
1,2-Dichlorobenzene	ug/l	600	600	< 0.26	< 0.26	< 0.15	< 0.5	< 0.2	< 0.2	< 0.2	< 0.2	< 0.18	< 0.18	< 0.26	< 0.26	< 0.26	< 0.15	< 0.5	< 0.2
1,2-Dichloroethane	ug/l	2	5	< 0.33	< 0.33	< 0.31	< 0.5	< 0.29	< 0.29	< 0.29	< 0.29	< 0.35	< 0.35	< 0.33	< 0.33	< 0.33	< 0.31	< 0.5	< 0.29
1,2-Dichloropropane	ug/l	1	5	< 0.27	< 0.27	< 0.23	< 0.5	< 0.2	< 0.2	< 0.24	< 0.24	< 0.18	< 0.18	< 0.27	< 0.27	< 0.27	< 0.23	< 0.5	< 0.2
1,3-Dichlorobenzene	ug/l	600	NS	< 0.25	< 0.25	< 0.19	< 0.5	< 0.32	< 0.32	< 0.21	< 0.21	< 0.26	< 0.26	< 0.25	< 0.25	< 0.25	< 0.19	< 0.5	< 0.32
1,4-Dichlorobenzene	ug/l	75	75	< 0.28	< 0.28	< 0.22	< 0.5	< 0.24	< 0.24	< 0.17	< 0.17	< 0.32	< 0.22	< 0.28	< 0.28	< 0.28	< 0.22	< 0.5	< 0.24
2-Butanone (MEK)	ug/l	300	NS	< 1.6	< 1.6	< 1.7	< 2.5	< 2.6	< 2.6	< 2.7	< 2.7	< 2.3	< 2.3	< 1.6	< 1.6	< 1.6	< 1.7	< 2.5	< 2.6
2-Hexanone	ug/l	NS	NS	< 1.4	< 1.4	< 1.9	< 2.5	< 1.3	< 1.3	< 0.94	< 0.94	< 1.7	< 1.7	< 1.4	< 1.4	< 1.4	< 1.9	< 2.5	< 1.3
4-methyl-2-pentanone (MIBK)	ug/l	NS	NS	< 0.86	< 0.86	< 0.74	< 2.5	< 1.1	< 1.1	< 1.4	< 1.4	< 1.9	< 1.3	< 0.86	< 0.86	< 0.86	< 0.74	< 2.5	< 1.1
Acetone	ug/l	6000	NS	< 2.9	< 2.9	< 4.4	< 5	< 2.4	2.7 J	< 2.9	< 2.9	< 2.1	< 2.1	< 2.9	< 2.9	< 2.9	< 4.4	< 5	< 2.4
Benzene	ug/l	1	5	< 0.23	< 0.23	< 0.26	< 0.5	< 0.21	< 0.21	< 0.19	< 0.19	< 0.26	< 0.26	< 0.23	< 0.23	< 0.23	< 0.26	< 0.5	< 0.21
Bromodichloromethane	ug/l	1	80	< 0.22	< 0.22	< 0.18	< 0.5	< 0.17	< 0.17	< 0.15	< 0.15	< 0.14	< 0.14	< 0.22	< 0.22	< 0.22	< 0.18	< 0.5	< 0.17
Bromoform	ug/l	4	80	< 0.23	< 0.23	< 0.42	< 0.5	< 0.54	< 0.54	< 0.34	< 0.34	< 0.18	< 0.18	< 0.23	< 0.23	< 0.23	< 0.42	< 0.5	< 0.54
Bromomethane	ug/l	10	NS	< 0.3	< 0.3	< 0.24	< 1 J	< 0.22	< 0.22	< 0.38	< 0.38	< 0.32	< 0.32	< 0.3	< 0.3	< 0.3	< 0.24	< 1 J	< 0.22
Carbon disulfide	ug/l	700	NS	< 0.74	< 0.74	< 0.13	< 1	< 0.21	< 0.21	< 0.14	< 0.14	< 0.15	< 0.16	< 0.74	< 0.74	< 0.74	< 0.13	< 1	< 0.21
Carbon tetrachloride	ug/l	1	5	< 0.26	< 0.26	< 0.35	< 0.5	< 0.29 J	< 0.29	< 0.19	< 0.19	< 0.18	< 0.18	< 0.26	< 0.26	< 0.26	< 0.35	< 0.5	< 0.29 J
Chlorobenzene	ug/l	50	100	< 0.39	< 0.39	< 0.15	< 0.5	< 0.22	< 0.22	< 0.19	< 0.19	< 0.14	< 0.19	< 0.39	< 0.39	< 0.39	< 0.15	< 0.5	< 0.22
Chloroethane	ug/l	NS	NS	< 0.37	< 0.37	< 0.25	< 1	< 0.56	< 0.56	< 0.67	< 0.67	< 0.22	< 0.22	< 0.37	< 0.37	< 0.37	< 0.25	< 1	< 0.56
Chloroform	ug/l	70	80	< 0.23	< 0.23	< 0.14	< 0.5	< 0.22	< 0.22	< 0.25	< 0.25	< 0.16	< 0.16	< 0.23	< 0.23	< 0.23	< 0.14	< 0.5	< 0.22
Chloromethane	ug/l	NS	NS	< 0.29	< 0.29	< 0.34	< 1	< 0.35	< 0.35	< 0.3	< 0.3	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.34	< 1	< 0.35
cis-1,2-Dichloroethene	ug/l	70	70	< 0.22	< 0.22	< 0.24	< 0.5	< 0.18	< 0.18	< 0.27	< 0.27	< 0.19	< 0.25	< 0.22	< 0.22	< 0.22	< 0.24	< 0.5	< 0.18
cis-1,3-Dichloropropene	ug/l	NS	NS	< 0.25	< 0.25	< 0.16	< 0.3	< 0.15	< 0.15	< 0.13	< 0.13	< 0.15	< 0.18	< 0.25	< 0.25	< 0.25	< 0.16	< 0.3	< 0.15
Cyclohexane	ug/l	NS	NS	< 1.9	< 1.9	< 0.43	< 0.5	< 0.5	< 0.5	< 0.85	< 0.85	< 0.85	< 0.85	< 1.9	< 1.9	< 1.9	< 0.43	< 0.5	< 0.5
Dibromochloromethane	ug/l	1	80	< 0.22	< 0.22	< 0.16	< 0.4	< 0.19	< 0.19	< 0.28	< 0.28	< 0.12	< 0.16	< 0.22	< 0.22	< 0.22	< 0.16	< 0.4	< 0.19
Dichlorodifluoromethane	ug/l	1,000	NS	< 0.92	< 0.92	< 0.39	< 0.5	< 0.75	< 0.75	< 1	< 1	< 0.88	< 0.88	< 0.92	< 0.92	< 0.92	< 0.39	< 0.5	< 0.75
Ethylbenzene	ug/l	700	700	< 0.27	< 0.27	< 0.31	< 0.5	< 0.2	< 0.2	< 0.21	< 0.21	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.31	< 0.5	< 0.2
Isopropylbenzene	ug/l	700	NS	< 0.57	< 0.57	< 0.31	< 0.5	< 0.2	< 0.2	< 0.54	< 0.54	< 0.15	< 0.19	< 0.57	< 0.57	< 0.57	< 0.31	< 0.5	< 0.2
Methyl acetate	ug/l	7000	NS	< 1.5	< 1.5	< 1.3	< 5	< 2.1	< 2.1	< 1.6	< 1.6	< 2.5	< 1.7	< 1.5	< 1.5	< 1.5	< 1.3	< 5	< 2.1
Methyl tert butyl ether	ug/l	70	NS	< 0.23	< 0.23	< 0.2	< 0.5	< 0.31	0.46 J	0.56 J	0.62 J	0.41 J	< 0.16	< 0.23	< 0.23	< 0.23	< 0.2	0.68 J	0.4 J
Methylcyclohexane	ug/l	NS	NS	< 0.35	< 0.35	< 0.16	< 0.5	< 0.18	< 0.18	< 0.5	< 0.5	< 0.11	< 0.11	< 0.35	< 0.35	< 0.35	< 0.16	< 0.5	< 0.18
Methylene chloride	ug/l	3	5	< 0.3	< 0.3	< 0.2	< 1	< 0.27	< 0.27	< 0.21	< 0.21	< 0.16	< 0.16	< 0.3	< 0.3	< 0.3	< 0.2	< 1	< 0.27
o-Xylene	ug/l	NS	NS	< 0.25	NA	NA	NA	< 0.31	< 0.31	< 0.2	< 0.2	< 0.45	< 0.45	< 0.25	< 0.25	NA	NA	NA	< 0.31
Styrene	ug/l	100	100	< 0.58	< 0.58	< 0.48	< 0.5 J	< 0.16	< 0.16	< 0.2	< 0.2	< 0.11	< 0.17	< 0.58	< 0.58	< 0.58	< 0.48	< 0.5 J	< 0.16
Tertiary Butyl Alcohol	ug/l	100	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	ug/l	1	5	< 0.27	< 0.27	< 0.24	< 0.5	< 0.28	< 0.28	< 0.28 J	< 0.28 J	< 0.29	< 0.29	< 0.27	< 0.27	< 0.27	< 0.24	< 0.5	< 0.28
Toluene	ug/l	600	1000	< 0.3	< 0.3	< 0.27	< 0.5	< 0.2	< 0.2	< 0.21	< 0.21	< 0.15	< 1 J	< 0.3	< 0.3	< 0.3	< 0.27	< 0.5	< 0.2
Trans-1,2-dichloroethene	ug/l	100	100	< 0.25	< 0.25	< 0.3	< 0.5	< 0.42	< 0.42	< 0.32	< 0.32	< 0.16	< 0.16	< 0.25	< 0.25	< 0.25	< 0.3	< 0.5	< 0.42
trans-1,3-Dichloropropene	ug/l	NS	NS	< 0.21	< 0.21	< 0.22	< 0.3	< 0.2	< 0.2	< 0.17	< 0.17	< 0.11	< 0.15	< 0.21	< 0.21	< 0.21	< 0.22	< 0.3	< 0.2
Trichloroethene	ug/l	1	5	< 0.24	< 0.24	< 0.22	< 0.5	< 0.29	< 0.29	< 0.26	< 0.26	< 0.18	< 0.18	< 0.24	< 0.24	< 0.24	< 0.22	< 0.5	< 0.29
Trichlorofluoromethane	ug/l	2000	NS	< 0.54	< 0.54	< 0.23	< 0.6	< 0.25	< 0.25	< 0.26	< 0.26	< 0.25	< 0.25	< 0.54	< 0.54	< 0.54	< 0.23	< 0.6	< 0.25
Vinyl Chloride	ug/l	1	2	< 0.44	< 0.44	< 0.22	< 0.5	< 0.29	< 0.29	< 0.22	< 0.22	< 0.21	< 0.21	< 0.44	< 0.44	< 0.44	< 0.22	< 0.5	< 0.29
Xylene, -m,p	ug/l	NS	NS	< 0.25	NA	NA	NA	< 0.42	< 0.42	< 0.35	< 0.35	< 0.39	< 0.39	< 0.25	< 0.25	NA	NA	NA	< 0.42
Xylenes	ug/l	1,000	10000	< 0.25	< 0.25	< 0.28	< 1	< 0.31	< 0.31	< 0.2	< 0.2	< 0.39	< 0.39	< 0.25	< 0.25	< 0.25	< 0.28	< 1	< 0.31
Total TIC, Volatile	ug/l	NS	NS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Location ID		GWQS[1]	EPA	OB-13	OB-13	OB-13	OB-14A	OB-14A	OB-14A	OB-14A	OB-14A	OB-14A	OB-14A	OB-14A	OB-14A	OB-14A	OB-14A	OB-14B	OB-14B
Sample ID			MCLs	OB-13(102109)	OB-13(052510)	OB-13(051711)	OB-14A (10/12/04)	OB-14A	OB-14A(040907)	DUP (071011)	OB-14A (071011)	OB-14A(080430)	OB-14A(080911)	OB-14A(070609)	OB-14A(102309)	OB-14A(052810)	OB-14A(051911)	OB-14B (10/12/04)	OB-14B
Sample Date	Units			10/21/2009	5/25/2010	5/17/2011	10/12/2004	9/27/2006	4/9/2007	10/11/2007	10/11/2007	4/30/2008	9/11/2008	7/6/2009	10/23/2009	5/28/2010	5/19/2011	10/12/2004	9/27/2006
SVOC																			
1,1'-Biphenyl	ug/l	400	NS	< 0.47	< 0.42	< 0.42	< 0.29	< 0.36	< 0.35	< 0.33	< 0.33	< 0.23	< 0.57	< 0.44	< 0.47	< 0.42	< 0.44	< 0.29	< 0.36
1,2,4-Trichlorobenzene	ug/l	9	70	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	ug/l	600	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	ug/l	600	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	ug/l	75	75	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/l	700	NS	< 1.5	< 1.3	< 1.3	< 0.74	< 2.1	< 2.1	< 1.9	< 1.9	< 1.1	< 2.1	< 1.4	< 1.5	< 1.3	< 1.4	< 0.74	< 2.1
2,4,6-Trichlorophenol	ug/l	20	NS	< 1.4	< 1.2	< 1.2	< 0.8	< 1.4	< 1.3	< 1.3	< 1.3	< 1	< 1.6	< 1.3	< 1.4	< 1.2	< 1.3	< 0.8	< 1.4
2,4-Dichlorophenol	ug/l	20	NS	< 1.4	< 1.2	< 1.2	< 0.73	< 1.7	< 1.7	< 1.6	< 1.6	< 1.4	< 2	< 1.3	< 1.4	< 1.2	< 1.3	< 0.73	< 1.7
2,4-Dimethylphenol	ug/l	100	NS	< 1.8	< 1.7	< 1.7	< 1	< 1.8	< 1.7	< 1.6	< 1.6	< 1.7	< 2.1	< 1.7	< 1.8	< 1.7	< 1.7	< 1	< 1.8
2,4-Dinitrophenol	ug/l	40	NS	< 0.82	< 0.74	< 0.74	< 1.1	< 0.97	< 0.95	< 0.89	< 0.89	< 1.1	< 4.3	< 0.77	< 0.82 J	< 0.74	< 0.78	< 1.1	< 0.98
2,4-Dinitrotoluene	ug/l	NS	NS	< 0.24	< 0.22	< 0.22	< 0.78	< 0.93	< 0.91	< 0.86	< 0.86	< 0.56	< 0.47	< 0.23	< 0.24	< 0.22	< 0.23	< 0.78	< 0.95
2,6-Dinitrotoluene	ug/l	NS	NS	< 0.36	< 0.33	< 0.33	< 0.62	< 0.61	< 0.59	< 0.56	< 0.56	< 0.51	< 0.63	< 0.34	< 0.36	< 0.33	< 0.34	< 0.62	< 0.61
2-Chloronaphthalene	ug/l	600	NS	< 0.46	< 0.42	< 0.42	< 0.38	< 1.1	< 1	< 0.98	< 0.98	< 0.2	< 0.5	< 0.43	< 0.46	< 0.42	< 0.44	< 0.38	< 1.1
2-Chlorophenol	ug/l	40	NS	< 1.2	< 1.1	< 1.1	< 4.3	< 1	< 1	< 0.95	< 0.95	< 0.89	< 1.5	< 1.1	< 1.2	< 1.1	< 1.1	< 4.3	< 1
2-Methylnaphthalene	ug/l	NS	NS	< 0.73	< 0.66	< 0.66	< 0.72	< 0.44	< 0.43	< 0.41	< 0.41	< 0.78	< 0.45	< 0.69	< 0.73	< 0.66	< 0.69	< 0.72	< 0.45
2-Methylphenol	ug/l	NS	NS	< 1.2	< 1.1	< 1.1	< 0.72	< 1.5	< 1.4	< 1.4	< 1.4	< 1.1	< 1.4	< 1.2	< 1.2	< 1.1	< 1.2	< 0.72	< 1.5
2-Nitroaniline	ug/l	NS	NS	< 0.26	< 0.24	< 0.24	< 1.4	< 0.72	< 0.7	< 0.66	< 0.66	< 0.51	< 0.46	< 0.24	< 0.26	< 0.24	< 0.25	< 1.4	< 0.73
2-Nitrophenol	ug/l	NS	NS	< 1.4	< 1.2	< 1.2	< 0.73	< 2	< 1.9	< 1.8	< 1.8	< 1.5	< 2	< 1.3	< 1.4	< 1.2	< 1.3	< 0.73	< 2
3&4-Methylphenol	ug/l	NS	NS	< 1.2	< 1	< 1	< 0.7	< 1.4	< 1.4	< 1.3	< 1.3	< 1.1	< 1.5	< 1.1	< 1.2	< 1	< 1.1	< 0.7	< 1.4
3,3'-Dichlorobenzidine	ug/l	30	NS	< 0.33	< 0.3	< 0.3	< 0.39	< 1.3	< 1.3	< 1.2	< 1.2	< 0.99	< 4.7	< 0.31	< 0.33	< 0.3	< 0.31	< 0.39	< 1.3
3-Nitroaniline	ug/l	NS	NS	< 0.32	< 0.29	< 0.29	< 1.2	< 1.4	< 1.3	< 1.3	< 1.3	< 0.33	< 0.47	< 0.3	< 0.32	< 0.29	< 0.3	< 1.2	< 1.4
4,6-Dinitro-2-methylphenol	ug/l	NS	NS	< 0.57	< 0.51	< 0.51	< 0.65	< 0.78	< 0.77	< 0.72	< 0.72	< 2.3	< 1.2	< 0.53	< 0.57	< 0.51	< 0.54	< 0.65	< 0.79
4-Bromophenyl phenyl ether	ug/l	NS	NS	< 0.39	< 0.35	< 0.35	< 0.54	< 0.33	< 0.32	< 0.3	< 0.3	< 0.38	< 0.43	< 0.36	< 0.39	< 0.35	< 0.37	< 0.54	< 0.33
4-Chloro-3-Methylphenol	ug/l	NS	NS	< 1.2	< 1.1	< 1.1	< 4.7	< 1.3	< 1.3	< 1.2	< 1.2	< 1.2	< 2.4	< 1.1	< 1.2	< 1.1	< 1.1	< 4.7	< 1.3
4-Chloroaniline	ug/l	30	NS	< 0.28	< 0.25	< 0.25	< 0.43	< 0.43	< 0.42	< 0.4	< 0.4	< 0.36	< 0.35	< 0.26	< 0.28	< 0.25	< 0.27	< 0.43	< 0.44
4-Chlorophenyl phenyl ether	ug/l	NS	NS	< 0.39	< 0.35	< 0.35	< 1	< 0.47	< 0.46	< 0.43	< 0.43	< 0.3	< 0.47	< 0.37	< 0.39	< 0.35	< 0.37	< 1	< 0.47
4-Nitroaniline	ug/l	NS	NS	< 0.2	< 0.18	< 0.18	< 1.1	< 0.78	< 0.77	< 0.72	< 0.72	< 0.6	< 0.47	< 0.19	< 0.2	< 0.18	< 0.19	< 1.1	< 0.79
4-Nitrophenol	ug/l	NS	NS	< 0.92	< 0.83	< 0.83	< 2.3	< 0.92	< 0.9	< 0.84	< 0.84	< 1.6	< 2.3	< 0.86	< 0.92	< 0.83	< 0.87	< 2.3	< 0.93
Acenaphthene	ug/l	400	NS	NA	NA	NA	< 0.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.3	NA
Acenaphthylene	ug/l	NS	NS	NA	NA	NA	< 0.35	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.35	NA
Acetophenone	ug/l	700	NS	< 0.44	< 0.4	< 0.4	< 0.53	< 0.41	< 0.4	< 0.37	< 0.37	< 0.37	< 0.49	< 0.42	< 0.44	< 0.4	< 0.42	< 0.53	< 0.41
Anthracene	ug/l	2000	NS	NA	NA	NA	< 0.22	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.22	NA
Atrazine	ug/l	3	3	< 0.43	< 0.39	< 0.39	< 1.5	< 0.18	< 0.17	< 0.16	< 0.16	< 0.29	< 0.64	< 0.41	< 0.43	< 0.39	< 0.41	< 1.5	< 0.18
Benzaldehyde	ug/l	NS	NS	< 0.45	< 0.4	< 0.4	< 3.6	< 0.29	< 0.28	< 0.27	< 0.27	< 0.78	< 1.7	< 0.42	< 0.45	< 0.4	< 0.43	< 3.6	< 0.29
Benzo(a)anthracene	ug/l	0.1 [0.2]	NS	NA	NA	NA	< 0.27	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.27	NA
Benzo(a)pyrene	ug/l	0.1 [0.2]	0.2	NA	NA	NA	< 0.38	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.38	NA
Benzo(b)fluoranthene	ug/l	0.2 [10]	NS	NA	NA	NA	< 0.37	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.37	NA
Benzo(g,h,i)perylene	ug/l	NS	NS	NA	NA	NA	< 0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.5	NA
Benzo(k)fluoranthene	ug/l	0.5	NS	NA	NA	NA	< 0.37	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.37	NA
Benzyl butyl phthalate	ug/l	100	NS	< 0.28	< 0.25	< 0.25	< 0.54	< 0.64	< 0.63	< 0.59	< 0.59	< 0.65	< 0.44	< 0.26	< 0.28	< 0.25	< 0.26	< 0.54	< 0.65
bis(2-Chloroethoxy)methane	ug/l	NS	NS	< 0.28	< 0.25	< 0.25	< 0.34	< 0.71	< 0.7	< 0.65	< 0.65	< 0.32	< 0.54	< 0.26	< 0.28	< 0.25	< 0.26	< 0.34	< 0.72
bis(2-Chloroethyl)ether	ug/l	7	NS	< 0.34	< 0.31	< 0.31	< 0.49	< 0.58	< 0.56	< 0.53	< 0.53	< 0.69	< 0.51	< 0.32	< 0.34	< 0.31	< 0.33	< 0.49	< 0.58
bis(2-Chloroisopropyl)ether	ug/l	300	NS	< 0.43	< 0.39	< 0.39	< 0.44	< 0.8	< 0.79	< 0.74	< 0.74	< 0.59	< 0.57	< 0.41	< 0.43	< 0.39	< 0.41	< 0.44	< 0.81
bis(2-Ethylhexyl)phthalate	ug/l	3	6	< 0.36	< 0.33	< 0.33	< 0.74	< 0.72	< 0.7	< 0.66	1.4 J	< 0.9	< 0.78	< 0.34	< 0.36	< 0.33	< 0.34	< 0.74	< 0.73
Caprolactam	ug/l	NS	NS	< 0.22	< 0.2	< 0.2	< 0.44	< 0.34	< 0.34	< 0.32	< 0.32	< 0.5	< 0.65	< 0.2	< 0.22	< 0.2	< 0.21	< 0.44	< 0.35
Carbazole	ug/l	NS	NS	< 0.18	< 0.17	< 0.17	< 0.34	0.73 J	< 0.39	< 0.36	0.78 J	0.54 J	< 0.47	< 0.17	< 0.18	< 0.17	< 0.17	< 0.34	< 0.4
Chrysene	ug/l	5	NS	NA	NA	NA	< 0.26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.26	NA
Dibenzo(a,h)anthracene	ug/l	0.3 [0.5]	NS	NA	NA	NA	< 0.58	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.58	NA
Dibenzofuran	ug/l	NS	NS	< 0.34	< 0.3	< 0.3	< 0.49	< 0.37	< 0.37	< 0.34	< 0.34	< 0.23	< 0.51	< 0.32	< 0.34	< 0.3	< 0.32	< 0.49	< 0.38
Diethyl phthalate	ug/l	6000	NS	< 0.18	< 0.17	< 0.17	< 1.4	< 0.42	< 0.41	< 0.39	< 0.39	< 0.35	< 0.38	< 0.17	< 0.18	< 0.17	< 0.17	< 1.4	< 0.43
Dimethyl phthalate	ug/l	NS	NS	< 0.25	< 0.23	< 0.23	< 0.58	< 0.36	< 0.35	< 0.33	< 0.33	< 0.34	< 0.38	< 0.23	< 0.25	< 0.23	< 0.24	< 0.58	< 0.36
di-n-butyl phthalate	ug/l	700	NS	< 0.21	< 0.19	< 0.19	< 0.79	< 0.64	< 0.63	< 0.59	< 0.59	< 0.41	< 0.52	< 0.2	< 0.21	< 0.19	< 0.2	< 0.79	< 0.65
di-n-octylphthalate	ug/l	100	NS	< 0.44	< 0.4	< 0.4	< 0.63	< 0.62	< 0.61 J	< 0.57	< 0.57	< 0.49	< 0.52	< 0.41	< 0.44	< 0.4	< 0.42	< 0.63	< 0.63
Fluoranthene	ug/l	300	NS	NA	NA	NA	< 0.63	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.63	NA
Fluorene	ug/l	300	NS	NA	NA	NA	< 0.89	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.89	NA
Hexachlorobenzene	ug/l	0.02 [10]	1	NA	NA	NA	< 1.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.2	NA
Hexachlorobutadiene	ug/l	1	NS	< 0.41	< 0.13	< 0.13	< 0.41	< 0.19	< 0.19	< 0.18	< 0.18	< 0.13	< 0.39	< 0.39	< 0.41	< 0.13	< 0.13	< 0.41	< 0.19
Hexachlorocyclopentadiene	ug/l	40	50	< 0.75	< 0.24	< 0.24	< 0.45	< 0.44	< 0.43	< 0.41	< 0.41	< 0.11	< 4.7	< 0.7	< 0.75	< 0.24	< 0.26	< 0.45	< 0.45
Hexachloroethane	ug/l	7	NS	< 0.29	< 0.21	< 0.21	< 0.67	< 0.31	< 0.3	< 0.28	< 0.28	< 0.16	< 0.31	< 0.27	< 0.29	< 0.21	< 0.22	< 0.67	< 0.31
Indeno(1,2,3-cd)pyrene	ug/l	0.2 [10]	NS	NA	NA	NA	< 1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.5	NA
Isophrone	ug/l	40	NS	< 0.28	< 0.25	< 0.25	< 0.54	< 0.64	< 0.63	< 0.59	< 0.59	< 0.5	< 0.72	< 0.26	< 0.28	< 0.25	< 0.26	< 0.54	< 0.65
Naphthalene	ug/l	300	NS	NA	NA	NA	< 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1	NA
Nitrobenzene	ug/l	6	NS	< 0.28	< 0.25	< 0.25	< 0.61	< 0.46	< 0.45	< 0.42	< 0.42	< 0.72	< 0.69	< 0.26	< 0.28	< 0.25	< 0.27	< 0.61	< 0.46
N-Nitroso-di-n-Propylamine	ug/l	10	NS	< 0.49	< 0.44	< 0.44	< 0.5	< 0.51	< 0.5	< 0.47	< 0.47	< 0.39	< 0.41	< 0.46	< 0.49	< 0.44	< 0.46	< 0.5	< 0.51
N-Nitrosodiphenylamine	ug/l	10	NS	< 0.24	< 0.22	< 0.22	< 0.8	< 0.56	< 0.55	< 0.52	< 0.52	0.42 J	< 0.63	< 0.22	< 0.24	< 0.22	< 0.23	< 0.8	< 0.57
Pentachlorophenol	ug/l	0.3 [1]	1	NA	NA	NA	< 0.75	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.75	NA
Phenanthrene	ug/l	NS	NS	NA	NA	NA	< 0.23	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.23	NA
Phenol	ug/l	2000	NS	< 0.64	< 0.58	< 0.58	< 1.8	< 0.54	< 0.53	< 0.5	< 0.5	< 0.7	< 1.4	< 0.6	< 0.66 J	< 0.58	< 0.61	< 1.8	< 0.55
Pyrene	ug/l	200	NS	NA	NA	NA	< 0.58	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.58	NA
Total TIC, Semi-Volatile	ug/l	NS	NS	0	0	0	37 J	127 J	247.6 J	136.3 J	138.2 J	95.2 J	208.8 J	73.6 J	24.1 J	142.4 J	40.5 J	7.2 J	0

Table 15: Summary of Historical Ground Water Analytical Results, 2004-2011
Ringwood Mines/Landfill Site, Ringwood, New Jersey

Location ID		GWQS[1]	EPA	OB-13	OB-13	OB-13	OB-14A	OB-14A	OB-14A	OB-14A	OB-14A	OB-14A	OB-14A	OB-14A	OB-14A	OB-14A	OB-14A	OB-14B	OB-14B
Sample ID			MCLs	OB-13(102109)	OB-13(052510)	OB-13(051711)	OB-14A (10/12/04)	OB-14A	OB-14A(040907)	DUP (071011)	OB-14A (071011)	OB-14A(080430)	OB-14A(080911)	OB-14A(070609)	OB-14A(102309)	OB-14A(052810)	OB-14A(051911)	OB-14B (10/12/04)	OB-14B
Sample Date	Units			10/21/2009	5/25/2010	5/17/2011	10/12/2004	9/27/2006	4/9/2007	10/11/2007	10/11/2007	4/30/2008	9/11/2008	7/6/2009	10/23/2009	5/28/2010	5/19/2011	10/12/2004	9/27/2006
SVOC BY SIM																			
Acenaphthene	ug/l	400	NS	< 0.032	< 0.029	< 0.014	NA	< 0.019	< 0.018	< 0.017	< 0.017	< 0.016	< 0.017	< 0.017	< 0.032	< 0.029	< 0.014	NA	< 0.019
Acenaphthylene	ug/l	NS	NS	< 0.044	< 0.039	< 0.016	NA	< 0.01	< 0.01	< 0.0095	< 0.0095	< 0.0071	< 0.0073	< 0.0073	< 0.044	< 0.039	< 0.017	NA	< 0.01
Anthracene	ug/l	2000	NS	< 0.028	< 0.026	< 0.01	NA	< 0.023	< 0.022	< 0.021	< 0.021	< 0.021	< 0.022	< 0.022	< 0.028	< 0.026	< 0.011	NA	< 0.023
Benzo(a)anthracene	ug/l	0.1 [0.2]	NS	< 0.026	< 0.024	< 0.015	NA	< 0.0074	< 0.0072	< 0.0068	< 0.0068	< 0.034	< 0.035	< 0.035	< 0.026	< 0.024	< 0.016	NA	< 0.0075
Benzo(a)pyrene	ug/l	0.1 [0.2]	0.2	< 0.034	< 0.031	< 0.0049	NA	< 0.018	< 0.018	< 0.017	< 0.017	< 0.036	< 0.037	< 0.037	< 0.034	< 0.031	< 0.0052	NA	< 0.019
Benzo(b)fluoranthene	ug/l	0.2 [10]	NS	< 0.04	< 0.036	< 0.016	NA	< 0.039	< 0.039	< 0.036	< 0.036	< 0.017	< 0.018	< 0.018	< 0.04	< 0.036	< 0.017	NA	< 0.04
Benzo(g,h,i)perylene	ug/l	NS	NS	< 0.032	< 0.029	< 0.01	NA	< 0.019	< 0.019	< 0.018	< 0.018	< 0.012	< 0.012	< 0.012	< 0.032	< 0.029	< 0.011	NA	< 0.02
Benzo(k)fluoranthene	ug/l	0.5	NS	< 0.031	< 0.028	< 0.013	NA	< 0.017	< 0.017	< 0.016	< 0.016	< 0.019	< 0.02	< 0.02	< 0.031	< 0.028	< 0.013	NA	< 0.017
Chrysene	ug/l	5	NS	< 0.024	< 0.022	< 0.023	NA	< 0.018	< 0.018	< 0.017	< 0.017	< 0.018	< 0.018	< 0.018	< 0.024	< 0.022	< 0.024	NA	< 0.018
Dibenzo(a,h)anthracene	ug/l	0.3 [0.5]	NS	< 0.025	< 0.023	< 0.023	NA	< 0.018	< 0.017	< 0.016	< 0.016	< 0.021	< 0.021	< 0.021	< 0.025	< 0.023	< 0.024	NA	< 0.018
Fluoranthene	ug/l	300	NS	< 0.027	< 0.024	< 0.0096	NA	< 0.0098	< 0.0096	< 0.009	< 0.009	< 0.0098	< 0.01	< 0.01	< 0.027	< 0.024	< 0.01	NA	< 0.0099
Fluorene	ug/l	300	NS	< 0.03	< 0.027	< 0.015	NA	< 0.022	< 0.021	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.03	< 0.027	< 0.016	NA	< 0.022
Hexachlorobenzene	ug/l	0.02 [10]	1	< 0.011	< 0.0099	< 0.008	NA	< 0.066	< 0.021	< 0.02	< 0.02	< 0.01 J	< 0.01	< 0.01	< 0.011	< 0.0099	< 0.0084	NA	< 0.067
Indeno(1,2,3-cd)pyrene	ug/l	0.2 [10]	NS	< 0.032	< 0.029	< 0.011	NA	< 0.012	< 0.012	< 0.011	< 0.011	< 0.015	< 0.015	< 0.015	< 0.032	< 0.029	< 0.011	NA	< 0.012
Naphthalene	ug/l	300	NS	< 0.021	< 0.019	< 0.016	NA	< 0.028	< 0.027	< 0.026	< 0.026	< 0.014	< 0.014	< 0.014	< 0.021	< 0.019	< 0.017	NA	< 0.028
Pentachlorophenol	ug/l	0.3 [1]	1	< 0.25	< 0.068	< 0.29	NA	< 0.43	R	R	R	< 0.23 J	< 0.23	< 0.23	< 0.25	< 0.068	< 0.3	NA	< 0.44
Phenanthrene	ug/l	NS	NS	< 0.04	< 0.036	< 0.016	NA	< 0.023	< 0.022	< 0.021	< 0.021	< 0.017	< 0.018	< 0.018	< 0.04	< 0.036	< 0.017	NA	< 0.023
Pyrene	ug/l	200	NS	< 0.025	< 0.022	< 0.0081	NA	< 0.015	< 0.015	< 0.014	< 0.014	< 0.012	< 0.013	< 0.013	< 0.025	< 0.022	< 0.0085	NA	< 0.015
PCBs																			
PCB 1016	ug/l	0.5	0.5	< 0.34	< 0.3	< 0.14	< 0.075 J	< 0.1	< 0.1	< 0.094	< 0.099	< 0.1	< 0.098	< 0.2	< 0.33	< 0.32	< 0.13	< 0.075 J	< 0.1
PCB 1221	ug/l	0.5	0.5	< 0.47	< 0.41	< 0.29	< 0.085	< 0.51	< 0.51	< 0.47	< 0.49	< 0.51	< 0.49	< 0.33	< 0.46	< 0.44	< 0.27	< 0.085	< 0.51
PCB 1232	ug/l	0.5	0.5	< 0.35	< 0.31	< 0.41	< 0.12	< 0.42	< 0.42	< 0.39	< 0.41	< 0.42	< 0.41	< 0.22	< 0.34	< 0.33	< 0.39	< 0.12	< 0.42
PCB 1242	ug/l	0.5	0.5	< 0.31	< 0.27	< 0.091	< 0.13	< 0.18	< 0.18	< 0.16	< 0.17	< 0.18	< 0.17	< 0.096	< 0.3	< 0.29	< 0.086	< 0.13	< 0.18
PCB 1248	ug/l	0.5	0.5	< 0.32	< 0.28	< 0.15	< 0.072	< 0.17	< 0.17	< 0.15	< 0.16	< 0.17	< 0.16	< 0.27	< 0.31	< 0.3	< 0.15	< 0.072	< 0.17
PCB 1254	ug/l	0.5	0.5	< 0.2	< 0.18	< 0.15	< 0.072	< 0.12	< 0.12	< 0.11	< 0.11	< 0.12	< 0.11	< 0.12	< 0.2	< 0.19	< 0.14	< 0.072	< 0.12
PCB 1260	ug/l	0.5	0.5	< 0.16	< 0.14	< 0.22	< 0.1	< 0.13	< 0.13	< 0.12	< 0.12	< 0.13	< 0.12	< 0.15	< 0.16	< 0.15	< 0.21	< 0.1	< 0.13
Total PCBs	ug/l	0.5	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pesticides/Herbicides																			
4,4-DDD	ug/l	0.1	NS	NA	NA	NA	< 0.017	< 0.0026	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.017	< 0.0026
4,4-DDE	ug/l	0.1	NS	NA	NA	NA	< 0.0041	< 0.0018	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0041	< 0.0018
4,4-DDT	ug/l	0.1	NS	NA	NA	NA	< 0.018	< 0.0053	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.018	< 0.0053
Aldrin	ug/l	0.04	NS	NA	NA	NA	< 0.0079	< 0.0036	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0079	< 0.0036
alpha-BHC	ug/l	0.02	NS	NA	NA	NA	< 0.013	< 0.0028	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.013	< 0.0028
alpha-Chlordane	ug/l	NS	NS	NA	NA	NA	< 0.018	< 0.0047	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.018	< 0.0047
beta-BHC	ug/l	0.04	NS	NA	NA	NA	< 0.0086 J	< 0.0067	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0086 J	< 0.0067
delta-BHC	ug/l	NS	NS	NA	NA	NA	< 0.0098	< 0.0034	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0098	< 0.0034
Dieldrin	ug/l	0.03	NS	NA	NA	NA	< 0.013	< 0.0019	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.013	< 0.0019
Endosulfan I (alpha)	ug/l	40	NS	NA	NA	NA	< 0.0029	< 0.0023	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0029	< 0.0023
Endosulfan II (beta)	ug/l	40	NS	NA	NA	NA	< 0.0028	< 0.0035	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0028	< 0.0035
Endosulfan sulfate	ug/l	40	NS	NA	NA	NA	< 0.013	< 0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.013	< 0.005
Endrin	ug/l	2	2	NA	NA	NA	< 0.011	< 0.0033	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.011	< 0.0033
Endrin Aldehyde	ug/l	NS	NS	NA	NA	NA	< 0.02 J	< 0.007	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.02 J	< 0.007
Endrin ketone	ug/l	NS	NS	NA	NA	NA	< 0.0053 J	< 0.0038	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0053 J	< 0.0038
gamma-Chlordane	ug/l	NS	NS	NA	NA	NA	< 0.013	< 0.0019	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.013	< 0.0019
Heptachlor	ug/l	0.05	0.4	NA	NA	NA	< 0.0059	< 0.0028	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0059	< 0.0028
Heptachlor epoxide	ug/l	0.2	0.2	NA	NA	NA	< 0.011	< 0.0016	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.011	< 0.0016
Lindane	ug/l	0.03	0.2	NA	NA	NA	< 0.0026	< 0.0019	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0026	< 0.0019
Methoxychlor	ug/l	40	40	NA	NA	NA	< 0.012	< 0.0073	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.012	< 0.0073
Toxaphene	ug/l	2	3	NA	NA	NA	< 0.25	< 0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.25	< 0.1

Location ID		GWQS[1]	EPA	OB-13	OB-13	OB-13	OB-14A	OB-14A	OB-14A	OB-14A	OB-14A	OB-14A	OB-14A	OB-14A	OB-14A	OB-14A	OB-14A	OB-14B	OB-14B
Sample ID			MCLs	OB-13(102109)	OB-13(052510)	OB-13(051711)	OB-14A (10/12/04)	OB-14A	OB-14A(040907)	DUP (071011)	OB-14A (071011)	OB-14A(080430)	OB-14A(080911)	OB-14A(070609)	OB-14A(102309)	OB-14A(052810)	OB-14A(051911)	OB-14B (10/12/04)	OB-14B
Sample Date	Units			10/21/2009	5/25/2010	5/17/2011	10/12/2004	9/27/2006	4/9/2007	10/11/2007	10/11/2007	4/30/2008	9/11/2008	7/6/2009	10/23/2009	5/28/2010	5/19/2011	10/12/2004	9/27/2006
Metals - Total																			
Aluminum	ug/l	200	NS	< 26	< 200	65.4 J	**640**	**215**	78.4 B	< 26	< 26	< 24	< 24	< 26	< 26	< 7.8	69.1 J	**1040**	< 110
Antimony	ug/l	6	6	< 2.9	< 2.2	< 1.3	< 5	< 4.4	< 5	< 0.9	< 0.9	< 1.8	< 1.8	< 4	< 2.9	< 2.2	< 1.3	< 5	4.7 B
Arsenic	ug/l	3 [8]	10	< 2.4	< 1.4	< 0.92	**16.7**	**4.5 J**	2.4	**21.6**	**23.1**	**14.4**	2.3 BJ	< 3	< 2.4	1.8 B	< 0.92	< 5	< 1.5
Barium	ug/l	6000	2000	4.8 B	3.5 BJ	3.4 B	520	587	524	474	482	488	513 J	439	537	463	435	< 200	45 B
Beryllium	ug/l	1	4	< 0.4	< 0.24	< 0.24	< 5	< 0.5	< 0.4	< 0.15	< 0.15	< 0.15	< 0.15	< 1	< 0.4	< 1	< 0.24	< 5	< 0.5
Cadmium	ug/l	4	5	< 0.4	< 0.35	< 0.17	< 4	1 B	< 1.3	< 0.24	< 0.24	< 0.28	< 0.28	< 0.4	< 0.4	0.4 B	< 0.17	< 4	< 0.6
Calcium	ug/l	NS	NS	11800	5820	5130	137000	137000	135000	137000	141000	134000 J	121000 J	112000	132000	112000	119000	112000	110000
Chromium	ug/l	70	100	< 0.9	< 0.59	< 0.9	< 10	< 1.6	0.96 B	< 0.53	0.6 B	1.1 B	< 1.7	< 10	1.5 B	1.8 B	< 10	< 10	< 1.6
Cobalt	ug/l	NS	NS	< 1.6	< 0.65	< 0.3	< 50	< 1.7	< 1.8	5.9 B	5.9 B	1.7 B	0.7 BJ	1.4 BJ	< 1.6	< 0.65	< 50	< 50	< 1.7
Copper	ug/l	1,300	1300	< 1.6	< 2.5	< 0.85	< 25	< 2.3	< 2.7	< 3.3	< 3.3	< 2.5	< 2.5	< 10	< 1.6	< 2.5	< 0.85	< 25	< 2.3
Iron	ug/l	300	NS	79.4 BJ	< 100	73.9 J	**55600**	**42300**	**45500**	**59600**	**61400**	**52500**	**34700 J**	**50500**	**38600**	**51300**	**50900**	**1740 J**	**959**
Lead	ug/l	5	15	< 1.7	< 1.9	< 0.94	< 3	< 2.6	3.3	1 B	1.4 B	4	< 1.4	< 1.7	< 1.7	< 1.9	3.8 J	3.6	< 2.6
Magnesium	ug/l	NS	NS	4880 B	2330 B	2060 B	15900	13800	13600	15900	16300	14000 J	11800	10800	11600	10500	11600	32600	31600
Manganese	ug/l	50	NS	1.2 BJ	2.4 BJ	< 15 J	**2320**	**1050 J**	**1040 J**	**2640**	**2770**	**1870 J**	**773**	**1360**	**969**	**1320**	**1480**	**1860**	**1900**
Mercury	ug/l	2	2	< 0.082 J	< 0.082	< 0.088	< 0.2	< 0.08	0.081 B	< 0.15	< 0.15	< 0.15	< 0.049	< 0.049	< 0.082	< 0.082	< 0.088	< 0.2	< 0.08
Nickel	ug/l	100	NS	< 0.6	< 10	< 0.41	< 40	< 1.6	< 2.8	2.8 B	2.8 B	< 1.2	< 1.2	3 BJ	< 10	3 B	3.1 J	< 40	< 1.6
Potassium	ug/l	NS	NS	921 B	839 BJ	815 B	9450	7960	7340	8230 B	8630 B	8020 B	6670 B	5810 BJ	6820 B	5860 J	6200 B	< 5000	3120 B
Selenium	ug/l	40	50	< 3.7	< 1.9	< 1.5	< 5	< 3	< 6.2	< 0.73	< 0.73	< 1.6	< 1.6	< 3.7	< 3.7	3 B	< 1.5	< 5	< 3
Silver	ug/l	40	NS	< 1	< 0.53	< 0.72	< 10	< 1.9	< 1	< 0.83	< 0.83	< 1	< 1	1.5 BJ	< 1	2.1 B	1.2 B	< 10	< 1.9
Sodium	ug/l	50,000	NS	3240 B	2610 BJ	2550 B	28100	21100 J	18100	24000	24800	21500	15000	15500	18800	20000	19400	23800	23100 J
Thallium	ug/l	2 [10]	2	< 1.5	< 1.8	< 0.17	< 10	< 0.09	< 0.09	< 1.4	< 1.4	< 1.3	< 1.3	< 1.5	< 1.5	< 1.8	< 0.17	< 10	< 0.09
Vanadium	ug/l	NS	NS	< 0.9	< 0.56	< 0.43	< 50	2.1 BJ	3.6 B	1.2 B	0.9 B	2.5 B	< 1.8	3.4 BJ	1.5 B	< 0.56	< 50	< 50	< 1.9
Zinc	ug/l	2000	NS	< 2.9	< 20	< 20	< 20	< 3.3	< 3.4	< 2.7	< 2.7	< 4	< 5	5.8 BJ	< 2.9	< 1.4	5.8 J	< 20	< 3.3
Metals - Dissolved																			
Aluminum	ug/l	200	NS	< 26	< 200	< 200	< 200	< 110	< 23	< 26	< 26	< 24	< 24	< 26	< 26	< 7.8	< 200	< 200	< 110
Antimony	ug/l	6	6	< 2.9	< 2.2	< 1.3	< 5	< 4.4	< 5	< 0.9	< 0.9	< 1.8	< 1.8	< 4	< 2.9	< 2.2	< 1.3	< 5	< 4.4
Arsenic	ug/l	3 [8]	10	< 2.4	< 1.4	< 0.92	**19.6**	**5.5 J**	< 1.5	**5**	**5.6**	**3.8**	< 1.7	< 3	< 2.4	< 1.4	< 0.92	< 5	< 1.5
Barium	ug/l	6000	2000	4.8 B	< 200 J	2.7 B	521	588	543	331	368	362	429 J	425	396	343	319	< 200	49.9 B
Beryllium	ug/l	1	4	< 0.4	< 0.24	< 0.24	< 5	< 0.5	< 0.4	< 0.15	< 0.15	< 0.15	< 0.15	< 1.1	< 0.4	< 1	< 0.24	< 5	< 0.5
Cadmium	ug/l	4	5	< 0.4	< 0.35	< 0.17	< 4	0.61 B	< 1.3	< 0.24	< 0.24	< 0.28	< 0.28	< 0.4	< 0.4	< 0.35	< 0.17	< 4	< 0.6
Calcium	ug/l	NS	NS	12000	5810	4920 B	144000	145000	140000	141000	136000	132000 J	117000 J	117000	131000	110000	113000	114000	112000
Chromium	ug/l	70	100	< 0.9	< 0.59	< 0.83	< 10	< 1.6	< 0.8	< 0.53	0.9 B	1.8 B	< 0.9	< 10	1.3 B	1.2 B	< 0.9	< 10	< 1.6
Cobalt	ug/l	NS	NS	< 1.6	< 0.65	< 0.3	< 50	< 1.7	< 1.8	4.6 B	5.1 B	0.9 B	< 0.51	1.4 BJ	< 1.6	< 0.65	< 50	< 50	< 1.7
Copper	ug/l	1,300	1300	< 1.6	< 2.5	< 1.9	< 25	< 2.3	< 2.7	< 3.3	< 3.3	< 2.5	< 2.5	< 1.6	< 1.6	< 2.5	< 0.85	< 25	< 2.3
Iron	ug/l	300	NS	12.6 BJ	< 100	< 100	**59400**	**46100**	**46200**	**32400**	**39900**	**18800**	**15100 J**	**47100**	**5210**	**22100**	**23100**	**407**	**949**
Magnesium	ug/l	NS	NS	4960 B	2320 B	1990 B	16800	14300	14000	16700	16000	13900 J	11400	11500	11500	10600	11100	32800	31900
Manganese	ug/l	50	NS	1.1 BJ	1 BJ	< 15	**2550**	**1230 J**	**1070 J**	**2860**	**2710**	**1810 J**	**722**	**1400**	**900**	**1300**	**1400**	**1890**	**1910**
Mercury	ug/l	2	2	< 0.082 J	< 0.082	< 0.088	< 0.2	< 0.08	< 0.15	< 0.15	< 0.15	< 0.15	< 0.049	< 0.049	< 0.082 J	< 0.082	< 0.088	< 0.2	< 0.08
Nickel	ug/l	100	NS	< 0.6	< 10	< 10	< 40	< 1.6	< 2.8	1.6 B	2.2 B	1.5 B	< 1.2	1.9 BJ	< 10	2.4 B	2.3 J	< 40	< 1.6
Potassium	ug/l	NS	NS	942 B	832 BJ	763 B	10200	7780	7510	8560 B	8280 B	7990 B	6360 B	6030 BJ	6750 B	5830 B	5890 B	< 5000	3190 B
Selenium	ug/l	40	50	< 3.7	< 1.9	< 1.5	< 5	< 3	< 6.2	< 0.73	< 0.73	< 1.6	< 1.6	< 3.7	< 3.7	3 B	< 1.5	< 5	< 3
Silver	ug/l	40	NS	< 1	< 0.53	< 0.66	< 10	< 1.9	1.5 B	< 0.83	< 0.83	< 1	< 1	1.3 BJ	< 1	1.2 B	0.8 B	< 10	< 1.9
Sodium	ug/l	50,000	NS	3310 B	2600 BJ	2440 B	30500	21600 J	19000	25500	24100	21400	14500	16400	18600	20000	18300	24000	23200 J
Thallium	ug/l	2 [10]	2	< 1.5	< 1.8	< 0.17	< 10	< 0.09	< 0.09	< 1.4	1.9 B	< 1.3	< 1.3	< 1.5	1.6 B	< 1.8	< 0.17	< 10	< 0.09
Vanadium	ug/l	NS	NS	< 0.9	< 0.56	< 50	< 50	2.8 BJ	3.3 B	< 0.49	< 0.49	0.8 B	< 0.43	< 50	< 0.9	< 0.56	< 0.43	< 50	< 1.9
Zinc	ug/l	2000	NS	3.1 B	< 20	< 20	< 20	< 3.3	< 3.4	< 2.7	< 2.7	< 4	< 4	< 20	3.2 B	< 20	14.6 B	< 20	< 3.3
Other																			
Alkalinity, Bicarbonate	ug/l	NS	NS	NA	NA	NA	NA	419000	415000	478000	520000	456000	391000	NA	NA	NA	NA	NA	384000
Alkalinity, Carbonate	ug/l	NS	NS	NA	NA	NA	NA	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	NA	NA	NA	NA	NA	< 5000
Alkalinity, total (as CaCO3)	ug/l	NS	NS	39800	20200	15100	NA	NA	415000	478000	520000	456000	391000	193000	403000	373000	347000	NA	NA
BOD, 5 Day	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromide	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	ug/l	250000	NS	< 2000	< 2000	2000	NA	19600	16600	25100	25300	20200	17000	22400	26100	31200	22400	NA	44600
COD	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide	ug/l	100	200	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10 J	15	NA	NA	NA	NA	< 10	< 10
Nitrate	ug/l	10000	10000	NA	NA	NA	NA	< 110	130	< 110	< 110	< 150	< 110	NA	NA	NA	NA	NA	< 110
Nitrogen, Nitrate + Nitrite	ug/l	10000	NS	NA	NA	NA	NA	< 100	130	< 100	< 100	< 100	< 100	NA	NA	NA	NA	NA	< 100
Nitrogen, Nitrite	ug/l	1000	1000	NA	NA	NA	NA	< 10	< 10	< 10	< 10	< 50	< 10	NA	NA	NA	NA	NA	< 10
Phosphorus, Total	ug/l	NS	NS	NA	NA	NA	NA	< 50	280	260 J	98 J	260	220	NA	NA	NA	NA	NA	< 50
Sulfate	ug/l	250000	NS	15400	10800	< 10000	NA	< 2000	< 10000	< 10000	< 10000	< 10000	< 10000	< 10000	< 10000	< 10000	< 10000	NA	17300
Total Dissolved Solids	ug/l	500000	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total organic carbon	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See footnotes on last page

Location ID		GWQS[1]	EPA	OB-14B	OB-14B	OB-14B	OB-14B	OB-14B	OB-14B	OB-14B	OB-14B	OB-15B	OB-15B	OB-15B	OB-15B	OB-15B	OB-15B	OB-15B
Sample ID			MCLs	OB-14B(040907)	OB-14B (071011)	OB-14B(080430)	OB-14B(080911)	OB-14B(070609)	OB-14B(102309)	OB-14B(052810)	OB-14B(051911)	OB-15B (10/12/04)	OB-15B (10/03/06)	OB-15B(041207)	OB-15B(071016)	OB-15B(080502)	OB-15B(080916)	OB-15B(070609)
Sample Date	Units			4/9/2007	10/11/2007	4/30/2008	9/11/2008	7/6/2009	10/23/2009	5/28/2010	5/19/2011	10/12/2004	10/3/2006	4/12/2007	10/16/2007	5/2/2008	9/16/2008	7/6/2009
VOC																		
1,1,1,2-Tetrachloroethane	ug/l	1	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/l	30	200	< 0.28	< 0.3	< 0.24	< 0.24	< 0.26	< 0.26	< 0.26	< 0.2	< 0.5	< 0.28	< 0.28	< 0.3	< 0.24	< 0.24	< 0.26
1,1,2,2-Tetrachloroethane	ug/l	1	NS	< 0.28	< 0.8	< 0.13	< 0.13	< 0.24	< 0.24	< 0.24	< 0.12	< 0.3	< 0.28	< 0.28	< 0.8	< 0.13	< 0.13	< 0.24
1,1,2-Trichloroethane	ug/l	3	5	< 0.32	< 0.49	< 0.17	< 0.17	< 0.23	< 0.23	< 0.23	< 0.13	< 0.5	< 0.32	< 0.32	< 0.49	< 0.17	< 0.17	< 0.23
1,1-Dichloroethane	ug/l	50	NS	< 0.23	< 0.2	< 0.16	< 0.24	< 0.29	< 0.29	< 0.29	< 0.16	< 0.5	< 0.23	< 0.23	< 0.2	< 0.16	< 0.24	< 0.29
1,1-Dichloroethene	ug/l	1	7	< 0.33	< 0.28	< 0.29	< 0.29	< 0.4	< 0.4	< 0.4	< 0.24	< 0.5	< 0.33	< 0.33	< 0.28	< 0.29	< 0.29	< 0.4
1,2,4-Trichlorobenzene	ug/l	9	70	< 0.16	< 0.41	< 1.3	< 1.3	< 0.56	< 0.56	< 0.56	< 0.16	< 0.5	< 0.16	< 0.16	< 0.41	< 1.3	< 1.3	< 0.56
1,2-Dibromo-3-Chloropropane (DBCP)	ug/l	0.02 [1]	0.2	< 1.1	< 0.8	< 2.4	< 1.3	< 1.1	< 1.1	< 1.1	< 1.2	< 1	< 1.1	< 1.1	< 0.8	< 2.4	< 1.3	< 1.1
1,2-Dibromoethane	ug/l	0.03 [0.5]	0.05	< 0.52	< 0.45	< 0.17	< 0.18	< 0.39	< 0.39	< 0.39	< 0.39	< 0.5	< 0.52	< 0.52	< 0.45	< 0.17	< 0.18	< 0.39
1,2-Dichlorobenzene	ug/l	600	600	< 0.2	< 0.2	< 0.18	< 0.18	< 0.26	< 0.26	< 0.26	< 0.15	< 0.5	< 0.2	< 0.2	< 0.2	< 0.18	< 0.18	< 0.26
1,2-Dichloroethane	ug/l	2	5	< 0.29	< 0.29	< 0.35	< 0.35	< 0.33	< 0.33	< 0.33	< 0.31	< 0.5	< 0.29	< 0.29	< 0.29	< 0.35	< 0.35	< 0.33
1,2-Dichloropropane	ug/l	1	5	< 0.2	< 0.24	< 0.18	< 0.18	< 0.27	< 0.27	< 0.27	< 0.23	< 0.5	< 0.2	< 0.2	< 0.24	< 0.18	< 0.18	< 0.27
1,3-Dichlorobenzene	ug/l	600	NS	< 0.32	< 0.21	< 0.26	< 0.26	< 0.25	< 0.25	< 0.25	< 0.19	< 0.5	< 0.32	< 0.32	< 0.21	< 0.26	< 0.26	< 0.25
1,4-Dichlorobenzene	ug/l	75	75	< 0.24	< 0.17	< 0.32	< 0.22	< 0.28	< 0.28	< 0.28	< 0.22	< 0.5	< 0.24	< 0.24	< 0.17	< 0.32	< 0.22	< 0.28
2-Butanone (MEK)	ug/l	300	NS	< 2.6	< 2.7	< 2.3	< 2.3	< 1.6	< 1.6	< 1.6	< 1.7	< 2.5	< 2.6	< 2.6	< 2.7	< 2.3	< 2.3	< 1.6
2-Hexanone	ug/l	NS	NS	< 1.3	< 0.94	< 1.7	< 1.7	< 1.4	< 1.4	< 1.4	< 1.9	< 2.5	< 1.3	< 1.3	< 0.94	< 1.7	< 1.7	< 1.4
4-methyl-2-pentanone (MIBK)	ug/l	NS	NS	< 1.1	< 1.4	< 1.9	< 1.3	< 0.86	< 0.86	< 0.86	< 0.74	< 2.5	< 1.1	< 1.1	< 1.4	< 1.9	< 1.3	< 0.86
Acetone	ug/l	6000	NS	< 2.4	< 2.9	< 2.1	< 2.1	< 2.9	< 2.9	< 2.9	< 4.4	< 5	< 2.4	< 2.4	< 2.9	< 2.1	< 2.1	< 2.9
Benzene	ug/l	1	5	< 0.21	< 0.19	< 0.26	< 0.26	< 0.23	< 0.23	< 0.23	< 0.26	< 0.5	< 0.21	< 0.21	< 0.19	< 0.26	< 0.26	< 0.23
Bromodichloromethane	ug/l	1	80	< 0.17	< 0.15	< 0.14	< 0.14	< 0.22	< 0.22	< 0.22	< 0.18	< 0.5	< 0.17	< 0.17	< 0.15	< 0.14	< 0.14	< 0.22
Bromoform	ug/l	4	80	< 0.54	< 0.34	< 0.18	< 0.18	< 0.23	< 0.23	< 0.23	< 0.42	< 0.5	< 0.54	< 0.54	< 0.34	< 0.18	< 0.18	< 0.23
Bromomethane	ug/l	10	NS	< 0.22	< 0.38	< 0.32	< 0.32	< 0.3	< 0.3	< 0.3	< 0.24	< 1	< 0.22	< 0.22	< 0.38	< 0.32	< 0.32	< 0.3
Carbon disulfide	ug/l	700	NS	< 0.21	< 0.14	< 0.15	< 0.16	< 0.74	< 0.74	< 0.74	< 0.13	< 1	< 0.21	< 0.21	< 0.14	< 0.15	< 0.16	< 0.74
Carbon tetrachloride	ug/l	1	5	< 0.29	< 0.19	< 0.18	< 0.18	< 0.26	< 0.26	< 0.26	< 0.35	< 0.5	< 0.29	< 0.29	< 0.19 J	< 0.18	< 0.18	< 0.26
Chlorobenzene	ug/l	50	100	< 0.22	< 0.19	< 0.14	< 0.19	< 0.39	< 0.39	< 0.39	< 0.15	< 0.5	< 0.22	< 0.22	< 0.19	< 0.14	< 0.19	< 0.39
Chloroethane	ug/l	NS	NS	< 0.56	< 0.67	< 0.22	< 0.22	< 0.37	< 0.37	< 0.37	< 0.25	< 1	< 0.56	< 0.56	< 0.67	< 0.22	< 0.22	< 0.37
Chloroform	ug/l	70	80	< 0.22	< 0.25	< 0.16	< 0.16	< 0.23	< 0.23	< 0.23	< 0.14	< 0.5	< 0.22	< 0.22	< 0.25	< 0.16	< 0.16	< 0.23
Chloromethane	ug/l	NS	NS	< 0.35	< 0.3	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.34	< 1	< 0.35	< 0.35	< 0.3	< 0.29	< 0.29	< 0.29
cis-1,2-Dichloroethene	ug/l	70	70	< 0.18	< 0.27	< 0.19	< 0.25	< 0.22	< 0.22	< 0.22	< 0.24	< 0.5	< 0.18	< 0.18	< 0.27	< 0.19	< 0.25	< 0.22
cis-1,3-Dichloropropene	ug/l	NS	NS	< 0.15	< 0.13	< 0.15	< 0.18	< 0.25	< 0.25	< 0.25	< 0.16	< 0.3	< 0.15	< 0.15	< 0.13	< 0.15	< 0.18	< 0.25
Cyclohexane	ug/l	NS	NS	< 0.5	< 0.85	< 0.85	< 0.85	< 1.9	< 1.9	< 1.9	< 0.43	< 0.5	< 0.5	< 0.5	< 0.85	< 0.85	< 0.85	< 1.9
Dibromochloromethane	ug/l	1	80	< 0.19	< 0.28	< 0.12	< 0.16	< 0.22	< 0.22	< 0.22	< 0.16	< 0.4	< 0.19	< 0.19	< 0.28	< 0.12	< 0.16	< 0.22
Dichlorodifluoromethane	ug/l	1,000	NS	< 0.75	< 1	< 0.88	< 0.88	< 0.92	< 0.92	< 0.92	< 0.39	< 0.5	< 0.75	< 0.75	< 1	< 0.88	< 0.88	< 0.92
Ethylbenzene	ug/l	700	700	< 0.2	< 0.21	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.31	< 0.5	< 0.2	< 0.2	< 0.21	< 0.27	< 0.27	< 0.27
Freon 113	ug/l	NS	NS	< 0.69	< 1.2	< 0.8	< 0.8	< 0.38	< 0.38	< 0.38	< 0.66	< 0.5	< 0.69	< 0.69	< 1.2	< 0.8	< 0.8	< 0.38
Isopropylbenzene	ug/l	700	NS	< 0.2	< 0.54	< 0.15	< 0.19	< 0.57	< 0.57	< 0.57	< 0.31	< 0.5	< 0.2	< 0.2	< 0.54	< 0.15	< 0.19	< 0.57
Methyl acetate	ug/l	7000	NS	< 2.1	< 1.6	< 2.5	< 1.7	< 1.5	< 1.5	< 1.5	< 1.3	< 5	< 2.1	< 2.1	< 1.6	< 2.5	< 1.7	< 1.5
Methyl tert butyl ether	ug/l	70	NS	0.58 J	0.33 J	0.49 J	< 0.16	0.42 J	0.38 J	0.38 J	0.41 J	< 0.5	< 0.31	< 0.31	< 0.2	< 0.14	< 0.16	< 0.23
Methylcyclohexane	ug/l	NS	NS	< 0.18	< 0.5	< 0.11	< 0.11	< 0.35	< 0.35	< 0.35	< 0.16	< 0.5	< 0.18	< 0.18	< 0.5	< 0.11	< 0.11	< 0.35
Methylene chloride	ug/l	3	5	< 0.27	< 0.21	< 0.16	< 0.16	< 0.3	< 0.3	< 0.3	< 0.2	1.2 J	< 0.27	< 0.27	< 0.21	< 0.16	< 0.16	< 0.3
o-Xylene	ug/l	NS	NS	< 0.31	< 0.2	< 0.45	< 0.45	< 0.25	< 0.25	NA	NA	NA	< 0.31	< 0.31	< 0.2	< 0.45	< 0.45	< 0.25
Styrene	ug/l	100	100	< 0.16	< 0.2	< 0.11	< 0.17	< 0.58	< 0.58	< 0.58	< 0.48	< 0.5	< 0.16	< 0.16	< 0.2	< 0.11	< 0.17	< 0.58
Tertiary Butyl Alcohol	ug/l	100	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	ug/l	1	5	< 0.28	< 0.28 J	< 0.29	< 0.29	< 0.27	< 0.27	< 0.27	< 0.24	< 0.5	< 0.28	< 0.28	< 0.28 J	< 0.29	< 0.29	< 0.27
Toluene	ug/l	600	1000	< 0.2	< 0.21	< 0.15	< 0.15	< 0.3	< 0.3	< 0.3	< 0.27	< 0.5	< 0.2	< 0.2	< 0.21	< 0.15	< 0.15	< 0.3
Trans-1,2-dichloroethene	ug/l	100	100	< 0.42	< 0.32	< 0.16	< 0.16	< 0.25	< 0.25	< 0.25	< 0.3	< 0.5	< 0.42	< 0.42	< 0.32	< 0.16	< 0.16	< 0.25
trans-1,3-Dichloropropene	ug/l	NS	NS	< 0.2	< 0.17	< 0.11	< 0.15	< 0.21	< 0.21	< 0.21	< 0.22	< 0.3	< 0.2	< 0.2	< 0.17	< 0.11	< 0.15	< 0.21
Trichloroethene	ug/l	1	5	< 0.29	< 0.26	< 0.18	< 0.18	< 0.24	< 0.24	< 0.24	< 0.22	< 0.5	< 0.29	< 0.29	< 0.26	< 0.18	< 0.18	< 0.24
Trichlorofluoromethane	ug/l	2000	NS	< 0.25	< 0.26	< 0.25	< 0.25	< 0.54	< 0.54	< 0.54	< 0.23	< 0.6	< 0.25	< 0.25	< 0.26	< 0.25	< 0.25	< 0.54
Vinyl Chloride	ug/l	1	2	< 0.29	< 0.22	< 0.21	< 0.21	< 0.44	< 0.44	< 0.44	< 0.22	< 0.5	< 0.29	< 0.29	< 0.22	< 0.21	< 0.21	< 0.44
Xylene, -m,p	ug/l	NS	NS	< 0.42	< 0.35	< 0.39	< 0.39	< 0.25	< 0.25	NA	NA	NA	< 0.42	< 0.42	< 0.35	< 0.39	< 0.39	< 0.25
Xylenes	ug/l	1,000	10000	< 0.31	< 0.2	< 0.39	< 0.39	< 0.25	< 0.25	< 0.25	< 0.28	< 1	< 0.31	< 0.31	< 0.2	< 0.39	< 0.39	< 0.25
Total TIC, Volatile	ug/l	NS	NS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Location ID		GWQS[1]	EPA	OB-14B	OB-14B	OB-14B	OB-14B	OB-14B	OB-14B	OB-14B	OB-14B	OB-15B	OB-15B	OB-15B	OB-15B	OB-15B	OB-15B	OB-15B
Sample ID			MCLs	OB-14B(040907)	OB-14B (071011)	OB-14B(080430)	OB-14B(080911)	OB-14B(070609)	OB-14B(102309)	OB-14B(052810)	OB-14B(051911)	OB-15B (10/12/04)	OB-15B (10/03/06)	OB-15B(041207)	OB-15B(071016)	OB-15B(080502)	OB-15B(080916)	OB-15B(070609)
Sample Date	Units			4/9/2007	10/11/2007	4/30/2008	9/11/2008	7/6/2009	10/23/2009	5/28/2010	5/19/2011	10/12/2004	10/3/2006	4/12/2007	10/16/2007	5/2/2008	9/16/2008	7/6/2009
SVOC																		
1,1'-Biphenyl	ug/l	400	NS	< 0.38	< 0.39	< 0.23	< 0.58	< 0.42	< 0.42	< 0.48	< 0.42	< 0.29	< 0.33	< 0.36	< 0.22	< 0.25 J	< 0.55	< 0.47
1,2,4-Trichlorobenzene	ug/l	9	70	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	ug/l	600	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	ug/l	600	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	ug/l	75	75	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/l	700	NS	< 2.2	< 2.3	< 1.2	< 2.1	< 1.3	< 1.3	< 1.5	< 1.3	< 0.74	< 1.9	< 2.1 J	< 1.1	< 1.2 J	< 2	< 1.5
2,4,6-Trichlorophenol	ug/l	20	NS	< 1.4	< 1.5	< 1.1	< 1.7	< 1.2	< 1.2	< 1.4	< 1.2	< 0.8	< 1.3	< 1.4 J	< 1	< 1.1 J	< 1.6	< 1.4
2,4-Dichlorophenol	ug/l	20	NS	< 1.8	< 1.9	< 1.5	< 2	< 1.2	< 1.2	< 1.4	< 1.2	< 0.73	< 1.6	< 1.7 J	< 1.4	< 1.6 J	< 1.9	< 1.4
2,4-Dimethylphenol	ug/l	100	NS	< 1.9	< 2	< 1.7	< 2.1	< 1.7	< 1.7	< 1.9	< 1.7	< 1	< 1.6	< 1.8 J	< 1.7	< 1.8 J	< 2	< 1.8
2,4-Dinitrophenol	ug/l	40	NS	< 1	< 1.1	< 1.2	< 4.4	< 0.74	< 0.74 J	< 0.84	< 0.74	< 1.1	< 0.89	< 0.99 J	< 1.1	< 1.2 J	< 4.2	< 0.82
2,4-Dinitrotoluene	ug/l	NS	NS	< 0.99	< 1	< 0.57	< 0.48	< 0.22	< 0.22	< 0.25	< 0.22	< 0.78	< 0.86	< 0.96	< 0.54	< 0.6 J	< 0.45	< 0.24
2,6-Dinitrotoluene	ug/l	NS	NS	< 0.64	< 0.67	< 0.53	< 0.63	< 0.33	< 0.33	< 0.37	< 0.33	< 0.62	< 0.56	< 0.62	< 0.5	< 0.56 J	< 0.6	< 0.36
2-Chloronaphthalene	ug/l	600	NS	< 1.1	< 1.2	< 0.21	< 0.51	< 0.42	< 0.42	< 0.47	< 0.42	< 0.38	< 0.98	< 1.1	< 0.2	< 0.22 J	< 0.48	< 0.46
2-Chlorophenol	ug/l	40	NS	< 1.1	< 1.1	< 0.92	< 1.5	< 1.1	< 1.1	< 1.2	< 1.1	< 4.3	< 0.95	< 1.1 J	< 0.87	< 0.97 J	< 1.5	< 1.2
2-Methylnaphthalene	ug/l	NS	NS	< 0.47	< 0.49	< 0.8	< 0.46	< 0.66	< 0.66	< 0.75	< 0.66	< 0.72	< 0.41	< 0.45	< 0.76	< 0.85 J	< 0.43	< 0.73
2-Methylphenol	ug/l	NS	NS	< 1.6	< 1.6	< 1.1	< 1.4	< 1.1	< 1.1	< 1.3	< 1.1	< 0.72	< 1.4	< 1.5 J	< 1	< 1.2 J	< 1.4	< 1.2
2-Nitroaniline	ug/l	NS	NS	< 0.76	< 0.79	< 0.52	< 0.47	< 0.24	< 0.24	< 0.27	< 0.24	< 1.4	< 0.66	< 0.74	< 0.5	< 0.55 J	< 0.45	< 0.26
2-Nitrophenol	ug/l	NS	NS	< 2.1	< 2.2	< 1.6	< 2	< 1.2	< 1.2	< 1.4	< 1.2	< 0.73	< 1.8	< 2 J	< 1.5	< 1.7 J	< 1.9	< 1.4
3&4-Methylphenol	ug/l	NS	NS	< 1.5	< 1.5	< 1.2	< 1.5	< 1	< 1	< 1.2	< 1	< 0.7	< 1.3	< 1.4 J	< 1.1	< 1.2 J	< 1.5	< 1.2
3,3'-Dichlorobenzidine	ug/l	30	NS	< 1.4	< 1.5	< 1	< 4.8	< 0.3	< 0.3	< 0.34	< 0.3	< 0.39	< 1.2	< 1.4	< 0.97	< 1.1 J	< 4.6	< 0.33
3-Nitroaniline	ug/l	NS	NS	< 1.4	< 1.5	< 0.34	< 0.47	< 0.29	< 0.29	< 0.33	< 0.29	< 1.2	< 1.3	< 1.4	< 0.32	< 0.36 J	< 0.45	< 0.32
4,6-Dinitro-2-methylphenol	ug/l	NS	NS	< 0.83	< 0.86	< 2.3	< 1.2	< 0.51	< 0.51	< 0.58	< 0.51	< 0.65	< 0.72	< 0.8 J	< 2.2	< 2.5 J	< 1.2	< 0.57
4-Bromophenyl phenyl ether	ug/l	NS	NS	< 0.34	< 0.36	< 0.39	< 0.43	< 0.35	< 0.35	< 0.4	< 0.35	< 0.54	< 0.3	< 0.33	< 0.37	< 0.41 J	< 0.41	< 0.39
4-Chloro-3-Methylphenol	ug/l	NS	NS	< 1.4	< 1.4	< 1.3	< 2.4	< 1.1	< 1.1	< 1.2	< 1.1	< 4.7	< 1.2	< 1.3 J	< 1.2	< 1.3 J	< 2.3	< 1.2
4-Chloroaniline	ug/l	30	NS	< 0.46	< 0.47	< 0.37	< 0.35	< 0.25	< 0.25	< 0.29	< 0.25	< 0.43	< 0.4	< 0.44	< 0.35	< 0.39 J	< 0.33	< 0.28
4-Chlorophenyl phenyl ether	ug/l	NS	NS	< 0.5	< 0.51	< 0.31	< 0.48	< 0.35	< 0.35	< 0.4	< 0.35	< 1	< 0.43	< 0.48	< 0.29	< 0.32 J	< 0.45	< 0.39
4-Nitroaniline	ug/l	NS	NS	< 0.83	< 0.86	< 0.62	< 0.48	< 0.18	< 0.18	< 0.2	< 0.18	< 1.1	< 0.72	< 0.8	< 0.59	< 0.66 J	< 0.45	< 0.2
4-Nitrophenol	ug/l	NS	NS	< 0.97	< 1	< 1.7	< 2.4	< 0.83	< 0.83	< 0.94	< 0.83	< 2.3	< 0.84	< 0.94 J	< 1.6	< 1.8 J	< 2.3	< 0.92
Acenaphthene	ug/l	400	NS	NA	NA	NA	NA	NA	NA	NA	NA	< 0.3	NA	NA	NA	NA	NA	NA
Acenaphthylene	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	< 0.35	NA	NA	NA	NA	NA	NA
Acetophenone	ug/l	700	NS	< 0.43	< 0.45	< 0.38	< 0.49	< 0.4	< 0.4	< 0.45	< 0.4	< 0.53	< 0.37	< 0.42	< 0.36	< 0.4 J	< 0.47	< 0.44
Anthracene	ug/l	2000	NS	NA	NA	NA	NA	NA	NA	NA	NA	< 0.22	NA	NA	NA	NA	NA	NA
Atrazine	ug/l	3	3	< 0.19	< 0.19	< 0.3	< 0.65	< 0.39	< 0.39	< 0.44	< 0.39	< 1.5	< 0.16	< 0.18	< 0.28	< 0.31 J	< 0.62	< 0.43
Benzaldehyde	ug/l	NS	NS	< 0.3	< 0.32	< 0.8	< 1.7	< 0.4	< 0.4	< 0.46	< 0.4	< 3.6	< 0.27	< 0.29	< 0.76	< 0.85 J	< 1.6	< 0.45
Benzo(a)anthracene	ug/l	0.1 [0.2]	NS	NA	NA	NA	NA	NA	NA	NA	NA	< 0.27	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/l	0.1 [0.2]	0.2	NA	NA	NA	NA	NA	NA	NA	NA	< 0.38	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/l	0.2 [10]	NS	NA	NA	NA	NA	NA	NA	NA	NA	< 0.37	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	< 0.5	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/l	0.5	NS	NA	NA	NA	NA	NA	NA	NA	NA	< 0.37	NA	NA	NA	NA	NA	NA
Benzyl butyl phthalate	ug/l	100	NS	< 0.68	< 0.71	< 0.67	< 0.44	< 0.25	< 0.25	< 0.29	< 0.25	< 0.54	< 0.59	< 0.66	< 0.64	< 0.71 J	< 0.42	< 0.28
bis(2-Chloroethoxy)methane	ug/l	NS	NS	< 0.75	< 0.78	< 0.33	< 0.54	< 0.25	< 0.25	< 0.28	< 0.25	< 0.34	< 0.65	< 0.73	< 0.32	< 0.35 J	< 0.52	< 0.28
bis(2-Chloroethyl)ether	ug/l	7	NS	< 0.61	< 0.63	< 0.71	< 0.52	< 0.31	< 0.31	< 0.35	< 0.31	< 0.49	< 0.53	< 0.59	< 0.67	< 0.75 J	< 0.49	< 0.34
bis(2-Chloroisopropyl)ether	ug/l	300	NS	< 0.85	< 0.88	< 0.61	< 0.57	< 0.39	< 0.39	< 0.44	< 0.39	< 0.44	< 0.74	< 0.82	< 0.58	< 0.64 J	< 0.54	< 0.43
bis(2-Ethylhexyl)phthalate	ug/l	3	6	< 0.76	< 0.79	< 0.92	< 0.79	< 0.33	< 0.33	< 0.37	< 0.33	< 0.74	1.2 J	< 0.73	< 0.88	< 2.3 BJ	< 0.75	< 0.36
Caprolactam	ug/l	NS	NS	< 0.36	< 0.38	< 0.52	< 0.66	< 0.2	< 0.2	< 0.22	< 0.2	< 0.44	< 0.32	< 0.35	< 0.49	< 0.55 J	< 0.63	< 0.22
Carbazole	ug/l	NS	NS	< 0.42	< 0.43	< 0.42	< 0.47	< 0.17	< 0.17	< 0.19	< 0.17	< 0.34	< 0.36	< 0.4	< 0.4	< 0.44 J	< 0.45	< 0.18
Chrysene	ug/l	5	NS	NA	NA	NA	NA	NA	NA	NA	NA	< 0.26	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	ug/l	0.3 [0.5]	NS	NA	NA	NA	NA	NA	NA	NA	NA	< 0.58	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/l	NS	NS	< 0.4	< 0.41	< 0.24	< 0.51	< 0.3	< 0.3	< 0.35	< 0.3	< 0.49	< 0.34	< 0.38	< 0.23	< 0.25 J	< 0.49	< 0.34
Diethyl phthalate	ug/l	6000	NS	< 0.45	< 0.46	< 0.36	< 0.38	< 0.17	< 0.17	< 0.19	< 0.17	< 1.4	< 0.39	< 0.43	< 0.34	< 0.38 J	< 0.36	< 0.18
Dimethyl phthalate	ug/l	NS	NS	< 0.38	< 0.39	< 0.35	< 0.38	< 0.23	< 0.23	< 0.26	< 0.23	< 0.58	< 0.33	< 0.36	< 0.34	< 0.37 J	< 0.36	< 0.25
di-n-butyl phthalate	ug/l	700	NS	< 0.68	< 0.7	< 0.42	< 0.53	< 0.19	< 0.19	< 0.22	< 0.19	< 0.79	< 0.59	< 0.66	< 0.4	< 0.44 J	< 0.5	< 0.21
di-n-octylphthalate	ug/l	100	NS	< 0.65 J	< 0.68	< 0.5	< 0.52	< 0.4	< 0.4	< 0.45	< 0.4	< 0.63	< 0.57	< 0.63	< 0.48	< 0.53 J	< 0.5	< 0.44
Fluoranthene	ug/l	300	NS	NA	NA	NA	NA	NA	NA	NA	NA	< 0.63	NA	NA	NA	NA	NA	NA
Fluorene	ug/l	300	NS	NA	NA	NA	NA	NA	NA	NA	NA	< 0.89	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	ug/l	0.02 [10]	1	NA	NA	NA	NA	NA	NA	NA	NA	< 1.2	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/l	1	NS	< 0.2	< 0.21	< 0.13	< 0.39	< 0.37	< 0.37	< 0.14	< 0.13	< 0.41	< 0.18	< 0.19	< 0.13	< 0.14 J	< 0.38	< 0.41
Hexachlorocyclopentadiene	ug/l	40	50	< 0.47	< 0.48	< 0.11	< 4.8	< 0.67	< 0.67	< 0.28	< 0.24	< 0.45	< 0.41	< 0.45	< 0.1	< 0.11 J	< 4.5	< 0.75
Hexachloroethane	ug/l	7	NS	< 0.33	< 0.34	< 0.17	< 0.32	< 0.26	< 0.26	< 0.24	< 0.21	< 0.67	< 0.28	< 0.31	< 0.16	< 0.18 J	< 0.3	< 0.29
Indeno(1,2,3-cd)pyrene	ug/l	0.2 [10]	NS	NA	NA	NA	NA	NA	NA	NA	NA	< 1.5	NA	NA	NA	NA	NA	NA
Isophrone	ug/l	40	NS	< 0.68	< 0.7	< 0.51	< 0.73	< 0.25	< 0.25	< 0.28	< 0.25	< 0.54	< 0.59	< 0.65	< 0.49	< 0.54 J	< 0.69	< 0.28
Naphthalene	ug/l	300	NS	NA	NA	NA	NA	NA	NA	NA	NA	< 1	NA	NA	NA	NA	NA	NA
Nitrobenzene	ug/l	6	NS	< 0.48	< 0.5	< 0.74	< 0.69	< 0.25	< 0.25	< 0.29	< 0.25	< 0.61	< 0.42	< 0.47	< 0.71	< 0.78 J	< 0.66	< 0.28
N-Nitroso-di-n-Propylamine	ug/l	10	NS	< 0.54	< 0.56	< 0.4	< 0.41	< 0.44	< 0.44	< 0.5	< 0.44	< 0.5	< 0.47	< 0.52	< 0.38	< 0.42 J	< 0.39	< 0.49
N-Nitrosodiphenylamine	ug/l	10	NS	< 0.59	< 0.61	< 0.44	< 0.64	< 0.22	< 0.22	< 0.24	< 0.22	< 0.8	< 0.52	< 0.57	< 0.41	< 0.46 J	< 0.61	< 0.24
Pentachlorophenol	ug/l	0.3 [1]	1	NA	NA	NA	NA	NA	NA	NA	NA	< 0.75	NA	NA	NA	NA	NA	NA
Phenanthrene	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	< 0.23	NA	NA	NA	NA	NA	NA
Phenol	ug/l	2000	NS	< 0.57	< 0.59	< 0.72	< 1.4	< 0.58	< 0.65 J	< 0.66	< 0.58	< 1.8	< 0.5	< 0.55 J	< 0.68	< 0.76 J	< 1.4	< 0.64
Pyrene	ug/l	200	NS	NA	NA	NA	NA	NA	NA	NA	NA	< 0.58	NA	NA	NA	NA	NA	NA
Total TIC, Semi-Volatile	ug/l	NS	NS	23.8 J	5.5 J	0	0	8.1 J	0	7 J	5.8 J	0	8 J	0	4.2 J	0	4 J	0

Location ID		GWQS[1]	EPA	OB-14B	OB-14B	OB-14B	OB-14B	OB-14B	OB-14B	OB-14B	OB-14B	OB-15B	OB-15B	OB-15B	OB-15B	OB-15B	OB-15B	OB-15B
Sample ID			MCLs	OB-14B(040907)	OB-14B (071011)	OB-14B(080430)	OB-14B(080911)	OB-14B(070609)	OB-14B(102309)	OB-14B(052810)	OB-14B(051911)	OB-15B (10/12/04)	OB-15B (10/03/06)	OB-15B(041207)	OB-15B(071016)	OB-15B(080502)	OB-15B(080916)	OB-15B(070609)
Sample Date	Units			4/9/2007	10/11/2007	4/30/2008	9/11/2008	7/6/2009	10/23/2009	5/28/2010	5/19/2011	10/12/2004	10/3/2006	4/12/2007	10/16/2007	5/2/2008	9/16/2008	7/6/2009
SVOC BY SIM																		
Acenaphthene	ug/l	400	NS	< 0.02	< 0.02	< 0.017	< 0.017	< 0.016	< 0.029	< 0.033	< 0.014	NA	< 0.017	< 0.019	< 0.017	< 0.018	< 0.016	< 0.018
Acenaphthylene	ug/l	NS	NS	< 0.011	< 0.011	< 0.0074	< 0.0074	< 0.007	< 0.039	< 0.045	< 0.016	NA	< 0.0095	< 0.011	< 0.0095	< 0.0078	< 0.007	< 0.0078
Anthracene	ug/l	2000	NS	< 0.024	< 0.025	< 0.022	< 0.022	< 0.021	< 0.026	< 0.029	< 0.01	NA	< 0.021	< 0.023	< 0.021	< 0.023	< 0.021	< 0.023
Benzo(a)anthracene	ug/l	0.1 [0.2]	NS	< 0.0078	< 0.0081	< 0.035	< 0.035	< 0.034	< 0.024	< 0.027	< 0.015	NA	< 0.0068	< 0.0076	< 0.0068	< 0.037	< 0.034	< 0.037
Benzo(a)pyrene	ug/l	0.1 [0.2]	0.2	< 0.019	< 0.02	< 0.037	< 0.037	< 0.036	< 0.031	< 0.035	< 0.0049	NA	< 0.017	< 0.019	< 0.017	< 0.039	< 0.036	< 0.039
Benzo(b)fluoranthene	ug/l	0.2 [10]	NS	< 0.042	< 0.043	< 0.018	< 0.018	< 0.017	< 0.036	< 0.041	< 0.016	NA	< 0.036	< 0.04	< 0.036	< 0.019	< 0.017	< 0.019
Benzo(g,h,i)perylene	ug/l	NS	NS	< 0.02	< 0.021	< 0.012	< 0.012	< 0.012	< 0.029	< 0.033	< 0.01	NA	< 0.018	< 0.02	< 0.018	< 0.013	< 0.012	< 0.013
Benzo(k)fluoranthene	ug/l	0.5	NS	< 0.018	< 0.019	< 0.02	< 0.02	< 0.019	< 0.028	< 0.032	< 0.013	NA	< 0.016	< 0.017	< 0.016	< 0.021	< 0.019	< 0.021
Chrysene	ug/l	5	NS	< 0.019	< 0.02	< 0.019	< 0.019	< 0.018	< 0.022	< 0.025	< 0.023	NA	< 0.017	< 0.019	< 0.017	< 0.02	< 0.018	< 0.02
Dibenzo(a,h)anthracene	ug/l	0.3 [0.5]	NS	< 0.019	< 0.02	< 0.021	< 0.021	< 0.02	< 0.023	< 0.026	< 0.023	NA	< 0.016	< 0.018	< 0.016	< 0.022	< 0.02	< 0.022
Fluoranthene	ug/l	300	NS	< 0.01	< 0.011	< 0.01	< 0.01	< 0.0096	< 0.024	< 0.028	< 0.0096	NA	< 0.009	< 0.01	< 0.009	< 0.011	< 0.0096	< 0.011
Fluorene	ug/l	300	NS	< 0.023	< 0.024	< 0.021	< 0.021	< 0.02	< 0.027	< 0.031	< 0.015	NA	< 0.02	< 0.022	< 0.02	< 0.022	< 0.02	< 0.022
Hexachlorobenzene	ug/l	0.02 [10]	1	< 0.023	< 0.024	< 0.01 J	< 0.01	< 0.0099	< 0.0099	< 0.011	< 0.008	NA	< 0.061	< 0.022	< 0.02	< 0.011	< 0.0099	< 0.011
Indeno(1,2,3-cd)pyrene	ug/l	0.2 [10]	NS	< 0.013	< 0.013	< 0.015	< 0.015	< 0.014	< 0.029	< 0.033	< 0.011	NA	< 0.011	< 0.012	< 0.011	< 0.016	< 0.014	< 0.016
Naphthalene	ug/l	300	NS	< 0.03	< 0.031	< 0.015	< 0.015	< 0.014	< 0.019	< 0.021	< 0.016	NA	0.547	< 0.029	< 0.026	< 0.015	< 0.014	< 0.015
Pentachlorophenol	ug/l	0.3 [1]	1	R	R	< 0.23 J	< 0.23	< 0.22	< 0.22	< 0.077	< 0.29	NA	< 0.4	< 0.33 J	< 0.3	< 0.25	< 0.22 J	< 0.25
Phenanthrene	ug/l	NS	NS	< 0.024	< 0.025	< 0.018	< 0.018	< 0.017	< 0.036	< 0.041	< 0.016	NA	< 0.021	< 0.023	< 0.021	< 0.019	< 0.017	< 0.019
Pyrene	ug/l	200	NS	< 0.016	< 0.017	< 0.013	< 0.013	< 0.012	< 0.022	< 0.025	< 0.0081	NA	< 0.014	< 0.016	< 0.014	< 0.013	< 0.012	< 0.013
PCBs																		
PCB 1016	ug/l	0.5	0.5	< 0.12	< 0.11	< 0.1	< 0.096	< 0.19	< 0.3	< 0.3	< 0.13	< 0.075 J	< 0.094	< 0.1	< 0.1	< 0.1	< 0.096	< 0.2
PCB 1221	ug/l	0.5	0.5	< 0.59	< 0.53	< 0.51	< 0.48	< 0.31	< 0.41	< 0.41	< 0.28	< 0.085	< 0.47	< 0.52	< 0.52	< 0.5	< 0.48	< 0.32
PCB 1232	ug/l	0.5	0.5	< 0.49	< 0.44	< 0.42	< 0.4	< 0.21	< 0.31	< 0.31	< 0.39	< 0.12	< 0.39	< 0.43	< 0.43	< 0.41	< 0.4	< 0.21
PCB 1242	ug/l	0.5	0.5	< 0.21	< 0.18	< 0.18	< 0.17	< 0.089	< 0.27	< 0.27	< 0.088	< 0.13	< 0.16	< 0.18	< 0.18	< 0.17	< 0.17	< 0.093
PCB 1248	ug/l	0.5	0.5	< 0.19	< 0.17	< 0.17	< 0.16	< 0.25	< 0.28	< 0.28	< 0.15	< 0.072	< 0.15	< 0.17	< 0.17	< 0.16	< 0.16	< 0.26
PCB 1254	ug/l	0.5	0.5	< 0.14	< 0.12	< 0.12	< 0.11	< 0.11	< 0.18	< 0.18	< 0.14	< 0.072	< 0.11	< 0.12	< 0.12	< 0.12	< 0.11	< 0.12
PCB 1260	ug/l	0.5	0.5	< 0.15	< 0.13	< 0.13	< 0.12	< 0.14	< 0.14	< 0.14	< 0.21	< 0.1	< 0.12	< 0.13	< 0.13	< 0.12	< 0.12	< 0.15
Total PCBs	ug/l	0.5	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pesticides/Herbicides																		
4,4-DDD	ug/l	0.1	NS	NA	NA	NA	NA	NA	NA	NA	NA	< 0.017	< 0.0024	NA	NA	NA	NA	NA
4,4-DDE	ug/l	0.1	NS	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0041	< 0.0017	NA	NA	NA	NA	NA
4,4-DDT	ug/l	0.1	NS	NA	NA	NA	NA	NA	NA	NA	NA	< 0.018	< 0.0049	NA	NA	NA	NA	NA
Aldrin	ug/l	0.04	NS	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0079	< 0.0033	NA	NA	NA	NA	NA
alpha-BHC	ug/l	0.02	NS	NA	NA	NA	NA	NA	NA	NA	NA	< 0.013	< 0.0026	NA	NA	NA	NA	NA
alpha-Chlordane	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	< 0.018	< 0.0044	NA	NA	NA	NA	NA
beta-BHC	ug/l	0.04	NS	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0086	< 0.0062	NA	NA	NA	NA	NA
delta-BHC	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0098	< 0.0031	NA	NA	NA	NA	NA
Dieldrin	ug/l	0.03	NS	NA	NA	NA	NA	NA	NA	NA	NA	< 0.013	< 0.0017	NA	NA	NA	NA	NA
Endosulfan I (alpha)	ug/l	40	NS	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0029	< 0.0021	NA	NA	NA	NA	NA
Endosulfan II (beta)	ug/l	40	NS	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0028	< 0.0032	NA	NA	NA	NA	NA
Endosulfan sulfate	ug/l	40	NS	NA	NA	NA	NA	NA	NA	NA	NA	< 0.013	< 0.0046	NA	NA	NA	NA	NA
Endrin	ug/l	2	2	NA	NA	NA	NA	NA	NA	NA	NA	< 0.011	< 0.003	NA	NA	NA	NA	NA
Endrin Aldehyde	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	< 0.02	< 0.0064	NA	NA	NA	NA	NA
Endrin ketone	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0053	< 0.0035	NA	NA	NA	NA	NA
gamma-Chlordane	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	< 0.013	< 0.0017	NA	NA	NA	NA	NA
Heptachlor	ug/l	0.05	0.4	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0059	< 0.0026	NA	NA	NA	NA	NA
Heptachlor epoxide	ug/l	0.2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	< 0.011	< 0.0015	NA	NA	NA	NA	NA
Lindane	ug/l	0.03	0.2	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0026	< 0.0017	NA	NA	NA	NA	NA
Methoxychlor	ug/l	40	40	NA	NA	NA	NA	NA	NA	NA	NA	< 0.012	< 0.0068	NA	NA	NA	NA	NA
Toxaphene	ug/l	2	3	NA	NA	NA	NA	NA	NA	NA	NA	< 0.25	< 0.094	NA	NA	NA	NA	NA

Location ID		GWQS[1]	EPA	OB-14B	OB-14B	OB-14B	OB-14B	OB-14B	OB-14B	OB-14B	OB-14B	OB-15B	OB-15B	OB-15B	OB-15B	OB-15B	OB-15B	OB-15B
Sample ID			MCLs	OB-14B(040907)	OB-14B (071011)	OB-14B(080430)	OB-14B(080911)	OB-14B(070609)	OB-14B(102309)	OB-14B(052810)	OB-14B(051911)	OB-15B (10/12/04)	OB-15B (10/03/06)	OB-15B(041207)	OB-15B(071016)	OB-15B(080502)	OB-15B(080916)	OB-15B(070609)
Sample Date	Units			4/9/2007	10/11/2007	4/30/2008	9/11/2008	7/6/2009	10/23/2009	5/28/2010	5/19/2011	10/12/2004	10/3/2006	4/12/2007	10/16/2007	5/2/2008	9/16/2008	7/6/2009
Metals - Total																		
Aluminum	ug/l	200	NS	< 23	35.3 B	80.9 B	< 24	102 BJ	57.9 B	< 7.8	**860**	**2170**	**1550**	**231**	104 B	**425**	< 24	**700**
Antimony	ug/l	6	6	< 5	< 0.9	< 1.8	< 2	< 4	< 2.9	< 2.2	< 1.3	< 5	< 4.4	< 5	< 0.9	< 1.8	< 1.8	< 4
Arsenic	ug/l	3 [8]	10	< 1.5	2.8 B	2.1 B	2 BJ	< 2.4	< 2.4	< 1.4	1.6 J	< 5	< 1.5	< 1.5	< 1.1	< 1.7	1.7 B	< 3
Barium	ug/l	6000	2000	51.8 B	38.3 B	46.3 B	40.2 BJ	48.6 B	40.2 B	52.4 B	51.7 B	< 200	19.9 BJ	14.9 B	12.6 B	19.9 B	11.7 B	17.4 B
Beryllium	ug/l	1	4	< 0.4	< 0.15	< 0.15	**2.6**	< 1.1	< 0.4	< 1	< 0.24	< 5	< 0.5	< 0.4	< 0.15	< 0.15	< 0.15	< 1
Cadmium	ug/l	4	5	< 1.3	< 0.24	< 0.28	< 0.28	< 0.4	< 0.4	< 0.35	< 0.17	< 4	< 0.6	< 1.3	< 0.24	< 0.28	< 0.28	< 0.4
Calcium	ug/l	NS	NS	116000	94300	101000 J	91200 J	107000	90000	113000	111000	24000	25300	26300	24100 J	24300	23300	21800
Chromium	ug/l	70	100	< 0.8	0.8 B	1.2 B	< 1	< 10	< 10	1.4 B	< 10	< 10	3 B	< 0.8	1.6 B	1.1 B	< 0.53	< 10
Cobalt	ug/l	NS	NS	< 1.8	2.5 B	< 0.51	< 0.51	< 50	< 1.6	< 0.65	< 50	< 50	< 1.7	< 1.8	1.5 B	< 0.51	< 0.51	< 50
Copper	ug/l	1,300	1300	< 2.7	< 3.3	< 2.5	< 0.7	< 1.6	< 1.6	< 2.5	< 0.85	< 25	< 2.3	3.2 B	< 3.3	< 2.5	< 1.1	11.4
Iron	ug/l	300	NS	**962**	**642**	**890**	**516 J**	**1040**	**719**	**729**	**1740**	**2720**	**1640**	194	158 J	**507**	64.8 BJ	**1070**
Lead	ug/l	5	15	< 2.8	1.1 B	3.2	< 1.4	< 1.7	< 1.7	< 1.9	4.8 J	< 3	< 2.6	< 2.8	1 B	2.6 B	< 1.4	< 1.7
Magnesium	ug/l	NS	NS	32700	29000	28500 J	27500	30000	31200	30800	31700	6550	6660	6590	5890 J	6110	5790	5570
Manganese	ug/l	50	NS	**2040 J**	**1500**	**1740 J**	**1560**	**2100**	**1630**	**2190**	**2100**	**488**	**1540**	**440**	**675**	**2370**	**1300**	**1830**
Mercury	ug/l	2	2	0.084 B	< 0.15	< 0.15	< 0.049	< 0.049	< 0.082 J	< 0.082	< 0.088	< 0.2	< 0.08	< 0.037	< 0.15	< 0.15	< 0.049	< 0.049
Nickel	ug/l	100	NS	< 2.8	2.3 B	< 1.2	< 1.2	1.9 BJ	< 10	2 B	3.9 J	< 40	4.4 B	4.7 B	1.8 B	5.5 B	2.5 B	11.8
Potassium	ug/l	NS	NS	3430 B	2700 B	3250 B	2840 B	3180 BJ	3710 B	3630 B	3570 B	< 5000	1220 B	936 B	608 B	863 B	702 BJ	< 10000
Selenium	ug/l	40	50	< 6.2	< 0.73	1.6 B	< 1.6	< 3.7	< 3.7	3.5 B	< 1.5	< 5	3 B	< 6.2	< 0.73	< 1.6	< 1.6	< 3.7
Silver	ug/l	40	NS	< 1	< 0.83	< 1	< 1	2.2 BJ	< 1	1 B	< 0.72	< 10	< 1.9	< 1	< 0.83	< 1	< 1	1.4 BJ
Sodium	ug/l	50,000	NS	25200	19500	22400	19800	24300	28800	26300	23800	< 5000	5240 BJ	5050 BJ	4280 BJ	4200 B	4250 B	3860 BJ
Thallium	ug/l	2 [10]	2	< 0.09	< 1.4	< 1.3	1.3 BJ	< 1.5	< 1.5	< 1.8	< 0.17	< 10	< 0.09	< 0.09	< 1.4	< 1.3	< 1.3	< 1.5
Vanadium	ug/l	NS	NS	< 1.8	< 0.49	0.8 B	< 0.43	< 0.9	< 0.9	< 0.56	< 50	< 50	3.1 B	< 1.8	1.4 B	1.8 B	1.3 B	< 50
Zinc	ug/l	2000	NS	< 3.4	< 2.7	< 4	< 6.5	< 2.9	< 2.9	< 20	5.5 J	< 20	< 3.3	6.4 B	4.2 BJ	< 4	5.1 B	8 BJ
Metals - Dissolved																		
Aluminum	ug/l	200	NS	< 23	< 26	< 24	< 24	< 26	< 26	< 200	< 200	< 200	< 110	< 23	< 26	< 24	< 24	< 26
Antimony	ug/l	6	6	< 5	< 0.9	< 1.8	< 1.8	< 4	< 2.9	< 2.2	< 1.3	< 5	< 4.4	< 5	< 0.9	< 1.8	< 1.8	< 4
Arsenic	ug/l	3 [8]	10	< 1.5	1.6 B	< 1.7	2.6 BJ	< 2.4	< 2.4	< 1.4	< 0.92	< 5	< 1.5	< 1.5	< 1.1	< 1.7	< 1.7	< 2.4
Barium	ug/l	6000	2000	51.2 B	37.6 B	43.7 B	38.8 BJ	47.4 B	39.9 B	50.7 B	47.7 B	< 200	< 2.5	2.3 B	4.2 B	NA	1.2 B	< 200
Beryllium	ug/l	1	4	< 0.4	< 0.15	< 0.15	**2.8**	< 1.1	< 0.4	< 1	< 0.24	< 5	< 0.5	< 0.4	< 0.15	< 0.15	< 0.15	< 1
Cadmium	ug/l	4	5	< 1.3	< 0.24	< 0.28	< 0.28	< 0.4	< 0.4	< 0.35	< 0.17	< 4	< 0.6	< 1.3	< 0.24	< 0.28	< 0.28	< 0.4
Calcium	ug/l	NS	NS	116000	92700	98900 J	91400 J	109000	92100	111000	114000	24500	23700	25100	23600 J	22400	22000	23700
Chromium	ug/l	70	100	< 0.8	0.8 B	0.7 B	< 0.53	< 0.9	1.3 B	1.7 B	< 0.9	< 10	2 B	< 0.8	1.2 B	< 0.53	2.2 B	< 10
Cobalt	ug/l	NS	NS	< 1.8	2.3 B	< 0.51	< 0.51	< 50	< 1.6	< 0.65	< 50	< 50	< 1.7	< 1.8	1.4 B	< 0.51	< 0.51	< 0.4
Copper	ug/l	1,300	1300	< 2.7	< 3.3	< 2.5	< 0.7	< 1.6	< 1.6	< 2.5	< 0.85	< 25	< 2.3	< 2.7	< 3.3	< 2.5	< 1.1	< 1.6
Iron	ug/l	300	NS	**894**	26.5 J	38.2 B	< 64.3 J	70.5 BJ	54.2 B	99.6 B	97.5 J	< 100	< 67	< 25	12.8 BJ	8.4 B	11.2 B	< 100
Lead	ug/l	5	15	< 2.8	< 0.94	2.1 B	< 1.4	< 1.7	< 1.7	< 1.9	< 3	< 3	< 2.6	< 2.8	< 0.94	2.1 B	< 1.4	< 1.7
Magnesium	ug/l	NS	NS	32900	28500	27800 J	27700	30400	31400	31000	32000	6220	6130	6370	5800 J	5620	5510	5880
Manganese	ug/l	50	NS	**2020 J**	**1430**	**1690 J**	**1600**	**2130**	**1660**	**2180**	**2080**	**408**	**235**	**81.1**	**162**	**51.3**	**217**	**241**
Mercury	ug/l	2	2	0.1 B	< 0.15	< 0.15	< 0.049	< 0.049	**2.2 J**	< 0.082	< 0.088	< 0.2	< 0.08	< 0.037	< 0.15	< 0.15	< 0.049	< 0.049
Nickel	ug/l	100	NS	< 2.8	1.5 B	1.6 B	< 1.4	1.9 BJ	< 10	2.6 B	2 J	< 40	< 1.6	< 2.8	< 0.73	< 1.2	< 1.2	< 10
Potassium	ug/l	NS	NS	3410 B	2660 B	3190 B	2880 B	3200 BJ	3730 B	3500 B	3470 B	< 5000	746 B	885 B	576 B	719 B	642 B	< 10000
Selenium	ug/l	40	50	< 6.2	< 0.73	< 1.6	< 1.8	< 3.7	< 3.7	2.6 B	< 1.5	< 5	< 3	< 6.2	< 0.73	< 1.6	< 1.6	< 3.7
Silver	ug/l	40	NS	< 1	< 0.83	< 1	< 1	2 BJ	< 1	0.8 B	< 0.72	< 10	< 1.9	< 1	< 0.83	< 1	< 1	< 10
Sodium	ug/l	50,000	NS	25000	19200	22000	20300	24700	28900	25800	24100	< 5000	4580 BJ	5080 BJ	4280 BJ	3940 B	4080 B	4450 BJ
Thallium	ug/l	2 [10]	2	< 0.09	< 1.4	< 1.3	< 1.3	< 1.5	< 1.5	< 1.8	< 0.17	< 10	0.12 B	< 0.09	< 1.4	< 1.3	< 1.3	< 1.5
Vanadium	ug/l	NS	NS	< 1.8	< 0.49	< 0.43	< 0.43	< 0.9	< 0.9	< 0.56	< 0.43	< 50	< 1.9	< 1.8	1 B	0.6 B	1.1 B	< 50
Zinc	ug/l	2000	NS	< 3.4	< 2.7	< 4	< 4	< 2.9	3.5 B	7.3 J	3.6 J	< 20	< 3.3	3.8 B	4 BJ	NA	< 4	< 2.9
Other																		
Alkalinity, Bicarbonate	ug/l	NS	NS	404000	310000	355000	338000	NA	NA	NA	NA	NA	74000	79900	187000	72300	56700	NA
Alkalinity, Carbonate	ug/l	NS	NS	< 5000	< 5000	< 5000	< 5000	NA	NA	NA	NA	NA	< 5000	< 5000	< 5000	< 5000	< 5000	NA
Alkalinity, total (as CaCO3)	ug/l	NS	NS	405000	311000	355000	339000	414000	366000	405000	408000	NA	74200	80700	74700	72700	56700	77500
BOD, 5 Day	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromide	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	ug/l	250000	NS	45000	38700	40900	38300	41500	35300	43400	51800	NA	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000
COD	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide	ug/l	100	200	< 10	< 10	< 10 J	< 10	NA	NA	NA	NA	10 J	< 10	< 10	< 10	< 10	< 10	NA
Nitrate	ug/l	10000	10000	< 110	< 110	< 110	< 110	NA	NA	NA	NA	NA	< 110	< 110	< 110	< 110	< 110	NA
Nitrogen, Nitrate + Nitrite	ug/l	10000	NS	< 100	< 100	< 100	< 100	NA	NA	NA	NA	NA	< 100	< 100	< 100	< 100	< 100	NA
Nitrogen, Nitrite	ug/l	1000	1000	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	NA
Phosphorus, Total	ug/l	NS	NS	59	< 50	< 50	< 50	NA	NA	NA	NA	NA	160	220	1000	90	130	NA
Sulfate	ug/l	250000	NS	14800	22000	18300	20300	11900	14000	11800	< 10000	NA	19700	18500	15800	15400	15500	15000
Total Dissolved Solids	ug/l	500000	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total organic carbon	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See footnotes on last page

Location ID		GWQS[1]	EPA	OB-15B	OB-15B	OB-15B	OB-16	OB-16	OB-16	OB-16	OB-16	OB-16	OB-16	OB-16	OB-16	OB-16	OB-16	OB-17	OB-17	OB-17
Sample ID			MCLs	OB-15B(102609)	OB-15B(061110)	OB-15B(052311)	OB-16 (10/12/04)	OB-16 (9/27/2006)	OB-16(041007)	OB-16(071010)	OB-16(080501)	OB-16(080911)	OB-16(070809)	OB-16(102309)	OB-16	OB-16(052710)	OB-16(051911)	OB-17(10/11/04)	OB-17	OB-17(041007)
Sample Date	Units			10/26/2009	6/11/2010	5/23/2011	10/12/2004	9/27/2006	4/10/2007	10/10/2007	5/1/2008	9/11/2008	7/8/2009	10/23/2009	10/29/2009	5/27/2010	5/19/2011	10/11/2004	9/27/2006	4/10/2007
VOC																				
1,1,1,2-Tetrachloroethane	ug/l	1	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/l	30	200	< 0.26	< 0.26	< 0.24	< 0.5	< 0.28	< 0.28	< 0.3	< 0.24	< 0.24	< 0.26	NA	< 0.26	< 0.26	< 0.2	< 0.5	< 0.28	< 0.28
1,1,2,2-Tetrachloroethane	ug/l	1	NS	< 0.24	< 0.24	< 0.2	< 0.3	< 0.28	< 0.28	< 0.8	< 0.13	< 0.13	< 0.24	NA	< 0.24	< 0.24	< 0.12	< 0.3	< 0.28	< 0.28
1,1,2-Trichloroethane	ug/l	3	5	< 0.23	< 0.23	< 0.23	< 0.5	< 0.32	< 0.32	< 0.49	< 0.17	< 0.17	< 0.23	NA	< 0.23	< 0.23	< 0.13	< 0.5	< 0.32	< 0.32
1,1-Dichloroethane	ug/l	50	NS	< 0.29	< 0.29	< 0.19	< 0.5	< 0.23	< 0.23	< 0.2	< 0.16	< 0.24	< 0.29	NA	< 0.29	< 0.29	< 0.16	0.99 J	0.91 J	0.68 J
1,1-Dichloroethene	ug/l	1	7	< 0.4	< 0.4	< 0.28	< 0.5	< 0.33	< 0.33	< 0.28	< 0.29	< 0.29	< 0.4	NA	< 0.4	< 0.4	< 0.24	< 0.5	< 0.33	< 0.33
1,2,4-Trichlorobenzene	ug/l	9	70	< 0.56	< 0.56	< 0.15	< 0.5	< 0.16	< 0.16	< 0.41	< 1.3	< 1.3	< 0.56	NA	< 0.56	< 0.56	< 0.16	< 0.5	< 0.16	< 0.16
1,2-Dibromo-3-Chloropropane (DBCP)	ug/l	0.02 [1]	0.2	< 1.1	< 1.1	< 1.3	< 1	< 1.1	< 1.1	< 0.8	< 2.4	< 1.3	< 1.1	NA	< 1.1	< 1.1	< 1.2	< 1	< 1.1	< 1.1
1,2-Dibromoethane	ug/l	0.03 [0.5]	0.05	< 0.39	< 0.39	< 0.21	< 0.5	< 0.52	< 0.52	< 0.45	< 0.17	< 0.18	< 0.39	NA	< 0.39	< 0.39	< 0.39	< 0.5	< 0.52	< 0.52
1,2-Dichlorobenzene	ug/l	600	600	< 0.26	< 0.26	< 0.18	< 0.5	< 0.2	< 0.2	< 0.2	< 0.18	< 0.18	< 0.26	NA	< 0.26	< 0.26	< 0.15	< 0.5	< 0.2	< 0.2
1,2-Dichloroethane	ug/l	2	5	< 0.33	< 0.33	< 0.18	< 0.5	< 0.29	< 0.29	< 0.29	< 0.35	< 0.35	< 0.33	NA	< 0.33	< 0.33	< 0.31	< 0.5	< 0.29	< 0.29
1,2-Dichloropropane	ug/l	1	5	< 0.27	< 0.27	< 0.22	< 0.5	< 0.2	< 0.2	< 0.24	< 0.18	< 0.18	< 0.27	NA	< 0.27	< 0.27	< 0.23	< 0.5	< 0.2	< 0.2
1,3-Dichlorobenzene	ug/l	600	NS	< 0.25	< 0.25	< 0.29	< 0.5	< 0.32	< 0.32	< 0.21	< 0.26	< 0.26	< 0.25	NA	< 0.25	< 0.25	< 0.19	< 0.5	< 0.32	< 0.32
1,4-Dichlorobenzene	ug/l	75	75	< 0.28	< 0.28	< 0.26	< 0.5	< 0.24	< 0.24	< 0.17	< 0.32	< 0.22	< 0.28	NA	< 0.28	< 0.28	< 0.22	< 0.5	< 0.24	< 0.24
2-Butanone (MEK)	ug/l	300	NS	< 1.6	< 1.6	< 2.9	< 2.5	< 2.6	< 2.6	< 2.7	< 2.3	< 2.3	< 1.6	NA	< 1.6	< 1.6	< 1.7	< 2.5	< 2.6	< 2.6
2-Hexanone	ug/l	NS	NS	< 1.4	< 1.4	< 3	< 2.5	< 1.3	< 1.3	< 0.94	< 1.7	< 1.7	< 1.4	NA	< 1.4	< 1.4	< 1.9	< 2.5	< 1.3	< 1.3
4-methyl-2-pentanone (MIBK)	ug/l	NS	NS	< 0.86	< 0.86	< 1.2	< 2.5	< 1.1	< 1.1	< 1.4	< 1.9	< 1.3	< 0.86	NA	< 0.86	< 0.86	< 0.74	< 2.5	< 1.1	< 1.1
Acetone	ug/l	6000	NS	< 2.9	< 2.9	< 7.6	< 5	< 2.4	< 2.4	< 2.9	< 2.1	< 2.1	< 2.9	NA	< 2.9	< 2.9	< 4.4	< 5	< 2.4	< 2.4
Benzene	ug/l	1	5	< 0.23	< 0.23	< 0.22	< 0.5	< 0.21	< 0.21	< 0.19	< 0.26	< 0.26	< 0.23	NA	< 0.23	< 0.23	< 0.26	< 0.5	< 0.21	< 0.21
Bromodichloromethane	ug/l	1	80	< 0.22	< 0.22	< 0.23	< 0.5	< 0.17	< 0.17	< 0.15	< 0.14	< 0.14	< 0.22	NA	< 0.22	< 0.22	< 0.18	< 0.5	< 0.17	< 0.17
Bromoform	ug/l	4	80	< 0.23	< 0.23	< 0.24	< 0.5	< 0.54	< 0.54	< 0.34	< 0.18	< 0.18	< 0.23	NA	< 0.23	< 0.23	< 0.42	< 0.5	< 0.54	< 0.54
Bromomethane	ug/l	10	NS	< 0.3	< 0.3	< 0.31	< 1 J	< 0.22	< 0.22	< 0.38	< 0.32	< 0.32	< 0.3	NA	< 0.3	< 0.3	< 0.24	< 1 J	< 0.22	< 0.22
Carbon disulfide	ug/l	700	NS	< 0.74	< 0.74	< 0.18	< 1	< 0.21	< 0.21	< 0.14	< 0.15	< 0.16	< 0.74	NA	< 0.74	< 0.74	< 0.13	< 1	< 0.21	< 0.21
Carbon tetrachloride	ug/l	1	5	< 0.26	< 0.26	< 0.19	< 0.5	< 0.29 J	< 0.29	< 0.19	< 0.18	< 0.18	< 0.26	NA	< 0.26	< 0.26	< 0.35	< 0.5	< 0.29 J	< 0.29
Chlorobenzene	ug/l	50	100	< 0.39	< 0.39	< 0.22	< 0.5	< 0.22	< 0.22	< 0.19	< 0.14	< 0.19	< 0.39	NA	< 0.39	< 0.39	< 0.15	< 0.5	< 0.22	< 0.22
Chloroethane	ug/l	NS	NS	< 0.37	< 0.37	< 0.37	< 1	< 0.56	< 0.56	< 0.67	< 0.22	< 0.22	< 0.37	NA	< 0.37	< 0.37	< 0.25	< 1	< 0.56	< 0.56
Chloroform	ug/l	70	80	< 0.23	< 0.23	< 0.21	< 0.5	< 0.22	< 0.22	< 0.25	< 0.16	< 0.16	< 0.23	NA	< 0.23	< 0.23	< 0.14	< 0.5	< 0.22	< 0.22
Chloromethane	ug/l	NS	NS	< 0.29	< 0.29	< 0.22	< 1	< 0.35	< 0.35	< 0.3	< 0.29	< 0.29	< 0.29	NA	< 0.29	< 0.29	< 0.34	< 1	< 0.35	< 0.35
cis-1,2-Dichloroethene	ug/l	70	70	< 0.22	< 0.22	< 0.22	< 0.5	< 0.18	< 0.18	< 0.27	< 0.19	< 0.25	< 0.22	NA	< 0.22	< 0.22	< 0.24	< 0.5	< 0.18	< 0.18
cis-1,3-Dichloropropene	ug/l	NS	NS	< 0.25	< 0.25	< 0.22	< 0.3	< 0.15	< 0.15	< 0.13	< 0.15	< 0.18	< 0.25	NA	< 0.25	< 0.25	< 0.16	< 0.3	< 0.15	< 0.15
Cyclohexane	ug/l	NS	NS	< 1.9	< 1.9	< 0.29	< 0.5	< 0.5	< 0.5	< 0.85	< 0.85	< 0.85	< 1.9	NA	< 1.9	< 1.9	< 0.43	< 0.5	< 0.5	< 0.5
Dibromochloromethane	ug/l	1	80	< 0.22	< 0.22	< 0.2	< 0.4	< 0.19	< 0.19	< 0.28	< 0.12	< 0.16	< 0.22	NA	< 0.22	< 0.22	< 0.16	< 0.4	< 0.19	< 0.19
Dichlorodifluoromethane	ug/l	1,000	NS	< 0.92	< 0.92	< 0.31	< 0.5	< 0.75	< 0.75	< 1	< 0.88	< 0.88	< 0.92	NA	< 0.92	< 0.92	< 0.39	< 0.5	< 0.75	< 0.75
Ethylbenzene	ug/l	700	700	< 0.27	< 0.27	< 0.21	< 0.5	< 0.2	< 0.2	< 0.21	< 0.27	< 0.27	< 0.27	NA	< 0.27	< 0.27	< 0.31	< 0.5	< 0.2	< 0.2
Freon 113	ug/l	NS	NS	< 0.38	< 0.38	< 0.49	< 0.5	< 0.69	< 0.69	< 1.2	< 0.8	< 0.8	< 0.38	NA	< 0.38	< 0.38	< 0.66	< 0.5	< 0.69	< 0.69
Isopropylbenzene	ug/l	700	NS	< 0.57	< 0.57	< 0.19	< 0.5	< 0.2	< 0.2	< 0.54	< 0.15	< 0.19	< 0.57	NA	< 0.57	< 0.57	< 0.31	< 0.5	< 0.2	< 0.2
Methyl acetate	ug/l	7000	NS	< 1.5	< 1.5	< 2.9	< 5	< 2.1	< 2.1	< 1.6	< 2.5	< 1.7	< 1.5	NA	< 1.5	< 1.5	< 1.3	< 5	< 2.1	< 2.1
Methyl tert butyl ether	ug/l	70	NS	< 0.23	< 0.23	< 0.18	< 0.5	< 0.31	< 0.31	< 0.2	< 0.14	< 0.16	< 0.23	NA	< 0.23	< 0.23	< 0.2	< 0.5	< 0.31	< 0.31
Methylcyclohexane	ug/l	NS	NS	< 0.35	< 0.35	< 0.18	< 0.5	< 0.18	< 0.18	< 0.5	< 0.11	< 0.11	< 0.35	NA	< 0.35	< 0.35	< 0.16	< 0.5	< 0.18	< 0.18
Methylene chloride	ug/l	3	5	< 0.3	< 0.3	< 0.2	< 1	< 0.27	< 0.27	< 0.21	< 0.16	< 0.16	< 0.3	NA	< 0.3	< 0.3	< 0.2	< 1	< 0.27	< 0.27
o-Xylene	ug/l	NS	NS	< 0.25	NA	NA	NA	< 0.31	< 0.31	< 0.2	< 0.45	< 0.45	< 0.25	NA	< 0.25	NA	NA	NA	< 0.31	< 0.31
Styrene	ug/l	100	100	< 0.58	< 0.58	< 0.23	< 0.5 J	< 0.16	< 0.16	< 0.2	< 0.11	< 0.17	< 0.58	NA	< 0.58	< 0.58	< 0.48	< 0.5 J	< 0.16	< 0.16
Tertiary Butyl Alcohol	ug/l	100	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	ug/l	1	5	< 0.27	< 0.27	< 0.32	< 0.5	< 0.28	< 0.28	< 0.28	< 0.29	< 0.29	< 0.27	NA	< 0.27	< 0.27	< 0.24	< 0.5	< 0.28	< 0.28
Toluene	ug/l	600	1000	< 0.3	< 0.3	< 0.15	< 0.5	< 0.2	< 0.2	< 0.21	< 0.15	< 0.15	< 0.3	NA	< 0.3	< 0.3	< 0.27	< 0.5	< 0.2	< 0.2
Trans-1,2-dichloroethene	ug/l	100	100	< 0.25	< 0.25	< 0.31	< 0.5	< 0.42	< 0.42	< 0.32	< 0.16	< 0.16	< 0.25	NA	< 0.25	< 0.25	< 0.3	< 0.5	< 0.42	< 0.42
trans-1,3-Dichloropropene	ug/l	NS	NS	< 0.21	< 0.21	< 0.19	< 0.3	< 0.2	< 0.2	< 0.17	< 0.11	< 0.15	< 0.21	NA	< 0.21	< 0.21	< 0.22	< 0.3	< 0.2	< 0.2
Trichloroethene	ug/l	1	5	< 0.24	< 0.24	< 0.21	< 0.5	< 0.29	< 0.29	< 0.26	< 0.18	< 0.18	< 0.24	NA	< 0.24	< 0.24	< 0.22	< 0.5	< 0.29	< 0.29
Trichlorofluoromethane	ug/l	2000	NS	< 0.54	< 0.54	< 0.35	< 0.6	< 0.25	< 0.25	< 0.26	< 0.25	< 0.25	< 0.54	NA	< 0.54	< 0.54	< 0.23	< 0.6	< 0.25	< 0.25
Vinyl Chloride	ug/l	1	2	< 0.44	< 0.44	< 0.27	< 0.5	< 0.29	< 0.29	< 0.22	< 0.21	< 0.21	< 0.44	NA	< 0.44	< 0.44	< 0.22	< 0.5	< 0.29	< 0.29
Xylene, -m,p	ug/l	NS	NS	< 0.25	NA	NA	NA	< 0.42	< 0.42	< 0.35	< 0.39	< 0.39	< 0.25	NA	< 0.25	NA	NA	NA	< 0.42	< 0.42
Xylenes	ug/l	1,000	10000	< 0.25	< 0.25	< 0.17	< 1	< 0.31	< 0.31	< 0.2	< 0.39	< 0.39	< 0.25	NA	< 0.25	< 0.25	< 0.28	< 1	< 0.31	< 0.31
Total TIC, Volatile	ug/l	NS	NS	0	0	0	0	0	0	0	0	0	0	NA	0	0	0	0	0	0

Location ID		GWQS[1]	EPA	OB-15B	OB-15B	OB-15B	OB-16	OB-16	OB-16	OB-16	OB-16	OB-16	OB-16	OB-16	OB-16	OB-16	OB-17	OB-17	OB-17
Sample ID			MCLs	OB-15B(102609)	OB-15B(061110)	OB-15B(052311)	OB-16 (10/12/04)	OB-16 (9/27/2006)	OB-16(041007)	OB-16(071010)	OB-16(080501)	OB-16(080911)	OB-16(070809)	OB-16(102309)	OB-16	OB-16(052710)	OB-16(051911)	OB-17(10/11/04)	OB-17	OB-17(041007)
Sample Date	Units			10/26/2009	6/11/2010	5/23/2011	10/12/2004	9/27/2006	4/10/2007	10/10/2007	5/1/2008	9/11/2008	7/8/2009	10/23/2009	10/29/2009	5/27/2010	5/19/2011	10/11/2004	9/27/2006	4/10/2007
SVOC																				
1,1'-Biphenyl	ug/l	400	NS	< 0.42	< 0.53	< 0.47	< 0.29	< 0.35	< 0.36	< 0.33	< 0.23 J	< 0.59	< 0.46	< 0.45	NA	< 0.47	< 0.42	< 0.29	< 0.33	< 0.34
1,2,4-Trichlorobenzene	ug/l	9	70	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	ug/l	600	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	ug/l	600	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	ug/l	75	75	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/l	700	NS	< 1.3	< 1.7	< 1.5	< 0.74	< 2.1	< 2.1	< 1.9	< 1.2 J	< 2.1	< 1.5	< 1.4	NA	< 1.5	< 1.3	< 0.74	< 1.9	< 2
2,4,6-Trichlorophenol	ug/l	20	NS	< 1.2	< 1.5	< 1.4	< 0.8	< 1.4	< 1.4	< 1.3	< 1.1 J	< 1.7	< 1.3	< 1.3	NA	< 1.3	< 1.2	< 0.8	< 1.3	< 1.3
2,4-Dichlorophenol	ug/l	20	NS	< 1.2	< 1.5	< 1.4	< 0.73	< 1.7	< 1.7	< 1.6	< 1.5 J	< 2.1	< 1.3	< 1.3	NA	< 1.3	< 1.2	< 0.73	< 1.6	< 1.6
2,4-Dimethylphenol	ug/l	100	NS	< 1.7	< 2.1	< 1.8	< 1	< 1.8	< 1.8	< 1.6	< 1.7 J	< 2.1	< 1.8	< 1.8	NA	< 1.8	< 1.7	< 1	< 1.6	< 1.7
2,4-Dinitrophenol	ug/l	40	NS	< 0.74	< 0.93	< 0.82	< 1.1	< 0.96	< 0.99	< 0.89	< 1.2 J	< 4.5	< 0.81	< 0.78	NA	< 0.81	< 0.74	< 1.1	< 0.89	< 0.92
2,4-Dinitrotoluene	ug/l	NS	NS	< 0.22	< 0.28	< 0.24	< 0.78	< 0.92	< 0.96	< 0.86	< 0.57 J	< 0.49	< 0.24	< 0.23	NA	< 0.24	< 0.22	< 0.78	< 0.86	< 0.89
2,6-Dinitrotoluene	ug/l	NS	NS	< 0.33	< 0.41	< 0.36	< 0.62	< 0.6	< 0.62	< 0.56	< 0.53 J	< 0.65	< 0.36	< 0.35	NA	< 0.36	< 0.33	< 0.62	< 0.56	< 0.58
2-Chloronaphthalene	ug/l	600	NS	< 0.42	< 0.53	< 0.46	< 0.38	< 1.1	< 1.1	< 0.98	< 0.21 J	< 0.52	< 0.46	< 0.44	NA	< 0.46	< 0.42	< 0.38	< 0.98	< 1
2-Chlorophenol	ug/l	40	NS	< 1.1	< 1.4	< 1.2	< 4.3	< 1	< 1.1	< 0.95	< 0.92 J	< 1.6	< 1.2	< 1.1	NA	< 1.2	< 1.1	< 4.3	< 0.95	< 0.98
2-Methylnaphthalene	ug/l	NS	NS	< 0.66	< 0.83	< 0.73	< 0.72	< 0.44	< 0.45	< 0.41	< 0.8 J	< 0.47	< 0.72	< 0.7	NA	< 0.73	< 0.66	< 0.72	< 0.41	< 0.42
2-Methylphenol	ug/l	NS	NS	< 1.1	< 1.4	< 1.2	< 0.72	< 1.5	< 1.5	< 1.4	< 1.1 J	< 1.5	< 1.2	< 1.2	NA	< 1.2	< 1.1	< 0.72	< 1.4	< 1.4
2-Nitroaniline	ug/l	NS	NS	< 0.24	< 0.3	< 0.26	< 1.4	< 0.71	< 0.74	< 0.66	< 0.52 J	< 0.48	< 0.26	< 0.25	NA	< 0.26	< 0.24	< 1.4	< 0.66	< 0.68
2-Nitrophenol	ug/l	NS	NS	< 1.2	< 1.6	< 1.4	< 0.73	< 1.9	< 2	< 1.8	< 1.6 J	< 2.1	< 1.4	< 1.3	NA	< 1.4	< 1.2	< 0.73	< 1.8	< 1.9
3&4-Methylphenol	ug/l	NS	NS	< 1	< 1.3	< 1.2	< 0.7	< 1.4	< 1.4	< 1.3	< 1.2 J	< 1.6	< 1.1	< 1.1	NA	< 1.1	< 1	< 0.7	< 1.3	< 1.3
3,3'-Dichlorobenzidine	ug/l	30	NS	< 0.3	< 0.37	< 0.33	< 0.39	< 1.3	< 1.4	< 1.2	< 1 J	< 4.9	< 0.32	< 0.31	NA	< 0.33	< 0.3	< 0.39	< 1.2	< 1.3
3-Nitroaniline	ug/l	NS	NS	< 0.29	< 0.36	< 0.32	< 1.2	< 1.4	< 1.4	< 1.3	< 0.34 J	< 0.48	< 0.32	< 0.31	NA	< 0.32	< 0.29	< 1.2	< 1.3	< 1.3
4,6-Dinitro-2-methylphenol	ug/l	NS	NS	< 0.51	< 0.65	< 0.57	< 0.65	< 0.78	< 0.8	< 0.72	< 2.3 J	< 1.3	< 0.56	< 0.55	NA	< 0.57	< 0.51	< 0.65	< 0.72	< 0.74
4-Bromophenyl phenyl ether	ug/l	NS	NS	< 0.35	< 0.44	< 0.39	< 0.54	< 0.32	< 0.33	< 0.3	< 0.39 J	< 0.44	< 0.38	< 0.37	NA	< 0.39	< 0.35	< 0.54	< 0.3	< 0.31
4-Chloro-3-Methylphenol	ug/l	NS	NS	< 1.1	< 1.3	< 1.2	< 4.7	< 1.3	< 1.3	< 1.2	< 1.3 J	< 2.5	< 1.2	< 1.1	NA	< 1.2	< 1.1	< 4.7	< 1.2	< 1.2
4-Chloroaniline	ug/l	30	NS	< 0.25	< 0.32	< 0.28	< 0.43	< 0.43	< 0.44	< 0.4	< 0.37 J	< 0.36	< 0.28	< 0.27	NA	< 0.28	< 0.25	< 0.43	< 0.4	< 0.41
4-Chlorophenyl phenyl ether	ug/l	NS	NS	< 0.35	< 0.45	< 0.39	< 1	< 0.46	< 0.48	< 0.43	< 0.31 J	< 0.49	< 0.39	< 0.38	NA	< 0.39	< 0.35	< 1	< 0.43	< 0.44
4-Nitroaniline	ug/l	NS	NS	< 0.18	< 0.23	< 0.2	< 1.1	< 0.78	< 0.8	< 0.72	< 0.62 J	< 0.49	< 0.2	< 0.19	NA	< 0.2	< 0.18	< 1.1	< 0.72	< 0.74
4-Nitrophenol	ug/l	NS	NS	< 0.83	< 1	< 0.92 J	< 2.3	< 0.91	< 0.94	< 0.84	< 1.7 J	< 2.4	< 0.91	< 0.88	NA	< 0.91 J	< 0.83	< 2.3	< 0.84	< 0.87
Acenaphthene	ug/l	400	NS	NA	NA	NA	< 0.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.3	NA	NA
Acenaphthylene	ug/l	NS	NS	NA	NA	NA	< 0.35	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.35	NA	NA
Acetophenone	ug/l	700	NS	< 0.4	< 0.51	< 0.44	< 0.53	< 0.4	< 0.42	< 0.37	< 0.38 J	< 0.5	< 0.44	< 0.42	NA	< 0.44	< 0.4	< 0.53	< 0.37	< 0.39
Anthracene	ug/l	2000	NS	NA	NA	NA	< 0.22	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.22	NA	NA
Atrazine	ug/l	3	3	< 0.39	< 0.49	< 0.43	< 1.5	< 0.18	< 0.18	< 0.16	< 0.3 J	< 0.66	< 0.43	< 0.42	NA	< 0.43	< 0.39	< 1.5	< 0.16	< 0.17
Benzaldehyde	ug/l	NS	NS	< 0.4	< 0.51	< 0.45	< 3.6	< 0.28	< 0.29	R	< 0.8 J	< 1.7	< 0.44	< 0.43	NA	< 0.45	< 0.4	< 3.6	< 0.27	< 0.27
Benzo(a)anthracene	ug/l	0.1 [0.2]	NS	NA	NA	NA	< 0.27	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.27	NA	NA
Benzo(a)pyrene	ug/l	0.1 [0.2]	0.2	NA	NA	NA	< 0.38	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.38	NA	NA
Benzo(b)fluoranthene	ug/l	0.2 [10]	NS	NA	NA	NA	< 0.37	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.37	NA	NA
Benzo(g,h,i)perylene	ug/l	NS	NS	NA	NA	NA	< 0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.5	NA	NA
Benzo(k)fluoranthene	ug/l	0.5	NS	NA	NA	NA	< 0.37	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.37	NA	NA
Benzyl butyl phthalate	ug/l	100	NS	< 0.25	< 0.32	< 0.28	< 0.54	< 0.64	< 0.66	< 0.59	< 0.67 J	< 0.45	< 0.28	< 0.27	NA	< 0.28	< 0.25	< 0.54	< 0.59	< 0.61
bis(2-Chloroethoxy)methane	ug/l	NS	NS	< 0.25	< 0.31	< 0.28	< 0.34	< 0.7	< 0.73	< 0.65	< 0.33 J	< 0.56	< 0.27	< 0.26	NA	< 0.27	< 0.25	< 0.34	< 0.65	< 0.67
bis(2-Chloroethyl)ether	ug/l	7	NS	< 0.31	< 0.39	< 0.34	< 0.49	< 0.57	< 0.59	< 0.53	< 0.71 J	< 0.53	< 0.34	< 0.33	NA	< 0.34	< 0.31	< 0.49	< 0.53	< 0.55
bis(2-Chloroisopropyl)ether	ug/l	300	NS	< 0.39	< 0.49	< 0.43	< 0.44	< 0.79	< 0.82	< 0.74	< 0.61 J	< 0.58	< 0.43	< 0.41	NA	< 0.43	< 0.39	< 0.44	< 0.74	< 0.76
bis(2-Ethylhexyl)phthalate	ug/l	3	6	< 0.33	< 0.41	< 0.36	< 0.74	< 0.71	< 0.73	< 0.66	< 0.92 J	< 0.81	< 0.36	< 0.35	NA	< 0.36	< 0.33	< 0.74	< 0.66	< 0.68
Caprolactam	ug/l	NS	NS	< 0.2	< 0.25	< 0.22	< 0.44	< 0.34	< 0.35	< 0.32	< 0.52 J	< 0.67	< 0.21	< 0.21	NA	< 0.22	< 0.2	< 0.44	< 0.32	< 0.32
Carbazole	ug/l	NS	NS	< 0.17	< 0.21	< 0.18	< 0.34	< 0.39	< 0.4	< 0.36	< 0.42 J	< 0.48	< 0.18	< 0.18	NA	< 0.18	< 0.17	< 0.34	< 0.36	< 0.38
Chrysene	ug/l	5	NS	NA	NA	NA	< 0.26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.26	NA	NA
Dibenzo(a,h)anthracene	ug/l	0.3 [0.5]	NS	NA	NA	NA	< 0.58	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.58	NA	NA
Dibenzofuran	ug/l	NS	NS	< 0.3	< 0.38	< 0.34	< 0.49	< 0.37	< 0.38	< 0.34	< 0.24 J	< 0.52	< 0.33	< 0.32	NA	< 0.34	< 0.3	< 0.49	< 0.34	< 0.35
Diethyl phthalate	ug/l	6000	NS	< 0.17	< 0.21	< 0.18	< 1.4	< 0.42	< 0.43	< 0.39	< 0.36 J	< 0.39	< 0.18	< 0.18	NA	< 0.18	< 0.17	< 1.4	< 0.39	< 0.4
Dimethyl phthalate	ug/l	NS	NS	< 0.23	< 0.28	< 0.25	< 0.58	< 0.35	< 0.36	< 0.33	< 0.35 J	< 0.39	< 0.25	< 0.24	NA	< 0.25	< 0.23	< 0.58	< 0.33	< 0.34
di-n-butyl phthalate	ug/l	700	NS	< 0.19	< 0.24	< 0.21	< 0.79	< 0.64	< 0.66	< 0.59	< 0.42 J	< 0.54	< 0.21	< 0.2	NA	< 0.21	< 0.19	< 0.79	< 0.59	< 0.61
di-n-octylphthalate	ug/l	100	NS	< 0.4	< 0.5	< 0.44	< 0.63	< 0.61	< 0.63	< 0.57	< 0.5 J	< 0.53	< 0.43	< 0.42	NA	< 0.44	< 0.4	< 0.63	< 0.57	< 0.59
Fluoranthene	ug/l	300	NS	NA	NA	NA	< 0.63	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.63	NA	NA
Fluorene	ug/l	300	NS	NA	NA	NA	< 0.89	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.89	NA	NA
Hexachlorobenzene	ug/l	0.02 [10]	1	NA	NA	NA	< 1.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.2	NA	NA
Hexachlorobutadiene	ug/l	1	NS	< 0.37 J	< 0.16	< 0.14	< 0.41	< 0.19	< 0.19	< 0.18	< 0.13 J	< 0.4	< 0.41	< 0.4	NA	< 0.14	< 0.13	< 0.41	< 0.18	< 0.18
Hexachlorocyclopentadiene	ug/l	40	50	< 0.67	< 0.31	< 0.27 J	< 0.45	< 0.44	< 0.45	< 0.41	< 0.11 J	< 4.9	< 0.74	< 0.71	NA	< 0.27	< 0.24	< 0.45	< 0.41	< 0.42
Hexachloroethane	ug/l	7	NS	< 0.26	< 0.26	< 0.23	< 0.67	< 0.3	< 0.31	< 0.28	< 0.17 J	< 0.32	< 0.29	< 0.28	NA	< 0.23	< 0.21	< 0.67	< 0.28	< 0.29
Indeno(1,2,3-cd)pyrene	ug/l	0.2 [10]	NS	NA	NA	NA	< 1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.5	NA	NA
Isophrone	ug/l	40	NS	< 0.25	< 0.32	< 0.28	< 0.54	< 0.63	< 0.65	< 0.59	< 0.51 J	< 0.74	< 0.27	< 0.26	NA	< 0.28	< 0.25	< 0.54	< 0.59	< 0.61
Naphthalene	ug/l	300	NS	NA	NA	NA	< 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1	NA	NA
Nitrobenzene	ug/l	6	NS	< 0.25	< 0.32	< 0.28	< 0.61	< 0.45	< 0.47	< 0.42	< 0.74 J	< 0.71	< 0.28	< 0.27	NA	< 0.28	< 0.25	< 0.61	< 0.42	< 0.43
N-Nitroso-di-n-Propylamine	ug/l	10	NS	< 0.44	< 0.55	< 0.49	< 0.5	< 0.5	< 0.52	< 0.47	< 0.4 J	< 0.42	< 0.48	< 0.47	NA	< 0.48	< 0.44	< 0.5	< 0.47	< 0.48
N-Nitrosodiphenylamine	ug/l	10	NS	< 0.22	< 0.27	< 0.24	< 0.8	< 0.55	< 0.57	< 0.52	< 0.44 J	< 0.65	< 0.24	< 0.23	NA	< 0.24	< 0.22	< 0.8	< 0.52	< 0.53
Pentachlorophenol	ug/l	0.3 [1]	1	NA	NA	NA	< 0.75	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.75	NA	NA
Phenanthrene	ug/l	NS	NS	NA	NA	NA	< 0.23	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.23	NA	NA
Phenol	ug/l	2000	NS	< 0.58	< 0.73	< 0.64	< 1.8	< 0.53	< 0.55	< 0.5	< 0.72 J	< 1.5	< 0.63	< 0.61	NA	< 0.64	< 0.58	< 1.8	< 0.5	< 0.51
Pyrene	ug/l	200	NS	NA	NA	NA	< 0.58	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.58	NA	NA
Total TIC, Semi-Volatile	ug/l	NS	NS	NA	5.1 J	0	8.7 J	0	6.3 J	27.4 J	0	0	6.3 J	0	NA	12 J	13 J	4.4 J	9.2 J	0

Location ID		GWQS[1]	EPA	OB-15B	OB-15B	OB-15B	OB-16	OB-16	OB-16	OB-16	OB-16	OB-16	OB-16	OB-16	OB-16	OB-16	OB-16	OB-17	OB-17	OB-17
Sample ID			MCLs	OB-15B(102609)	OB-15B(061110)	OB-15B(052311)	OB-16 (10/12/04)	OB-16 (9/27/2006)	OB-16(041007)	OB-16(071010)	OB-16(080501)	OB-16(080911)	OB-16(070809)	OB-16(102309)	OB-16	OB-16(052710)	OB-16(051911)	OB-17(10/11/04)	OB-17	OB-17(041007)
Sample Date	Units			10/26/2009	6/11/2010	5/23/2011	10/12/2004	9/27/2006	4/10/2007	10/10/2007	5/1/2008	9/11/2008	7/8/2009	10/23/2009	10/29/2009	5/27/2010	5/19/2011	10/11/2004	9/27/2006	4/10/2007
SVOC BY SIM																				
Acenaphthene	ug/l	400	NS	< 0.029	< 0.037	< 0.015	NA	< 0.018	< 0.019	< 0.017	< 0.017	< 0.017	< 0.018	< 0.031	NA	< 0.032	< 0.014	NA	< 0.017	< 0.018
Acenaphthylene	ug/l	NS	NS	< 0.039	< 0.05	< 0.018	NA	< 0.01	< 0.011	< 0.0095	< 0.0074	< 0.0075	< 0.0077	< 0.042	NA	< 0.043	< 0.016	NA	< 0.0095	< 0.0098
Anthracene	ug/l	2000	NS	< 0.026	< 0.032	< 0.011	NA	< 0.022	< 0.023	< 0.021	< 0.022	< 0.023	< 0.023	< 0.027	NA	< 0.028	< 0.01	NA	< 0.021	< 0.022
Benzo(a)anthracene	ug/l	0.1 [0.2]	NS	< 0.024	< 0.03	< 0.017	NA	< 0.0073	< 0.0076	< 0.0068	< 0.035	< 0.036	< 0.037	< 0.025	NA	< 0.026	< 0.015	NA	< 0.0068	< 0.007
Benzo(a)pyrene	ug/l	0.1 [0.2]	0.2	< 0.031	< 0.039	< 0.0054	NA	< 0.018	< 0.019	< 0.017	< 0.037	< 0.038	< 0.039	< 0.033	NA	< 0.034	< 0.0049	NA	< 0.017	< 0.017
Benzo(b)fluoranthene	ug/l	0.2 [10]	NS	< 0.036	< 0.045	< 0.018	NA	< 0.039	< 0.04	< 0.036	< 0.018	< 0.018	< 0.019	< 0.038	NA	< 0.04	< 0.016	NA	< 0.036	< 0.037
Benzo(g,h,i)perylene	ug/l	NS	NS	< 0.029	< 0.036	< 0.011	NA	< 0.019	< 0.02	< 0.018	< 0.012	< 0.013	< 0.013	< 0.031	NA	< 0.032	< 0.01	NA	< 0.018	< 0.018
Benzo(k)fluoranthene	ug/l	0.5	NS	< 0.028	< 0.036	< 0.014	NA	< 0.017	< 0.017	< 0.016	< 0.02	< 0.02	< 0.021	< 0.03	NA	< 0.031	< 0.013	NA	< 0.016	< 0.016
Chrysene	ug/l	5	NS	< 0.022	< 0.028	< 0.026	NA	< 0.018	< 0.019	< 0.017	< 0.019	< 0.019	< 0.019	< 0.023	NA	< 0.024	< 0.023	NA	< 0.017	< 0.017
Dibenzo(a,h)anthracene	ug/l	0.3 [0.5]	NS	< 0.023	< 0.028	< 0.025	NA	< 0.018	< 0.018	< 0.016	< 0.021	< 0.022	< 0.022	< 0.024	NA	< 0.025	< 0.023	NA	< 0.016	< 0.017
Fluoranthene	ug/l	300	NS	< 0.024	< 0.031	< 0.011	NA	< 0.0097	< 0.01	< 0.009	< 0.01	< 0.01	< 0.011	< 0.026	NA	< 0.027	< 0.0096	NA	< 0.009	< 0.0093
Fluorene	ug/l	300	NS	< 0.027	< 0.034	< 0.017	NA	< 0.022	< 0.022	< 0.02	< 0.021	< 0.021	< 0.022	< 0.029	NA	< 0.03	< 0.015	NA	< 0.02	< 0.021
Hexachlorobenzene	ug/l	0.02 [10]	1	< 0.0099	< 0.013	< 0.0089	NA	< 0.065	< 0.022	< 0.02	< 0.01	< 0.011	< 0.011	< 0.011	NA	< 0.011	< 0.008	NA	< 0.061	< 0.021
Indeno(1,2,3-cd)pyrene	ug/l	0.2 [10]	NS	< 0.029	< 0.037	< 0.012	NA	< 0.012	< 0.012	< 0.011	< 0.015	< 0.015	< 0.016	< 0.031	NA	< 0.032	< 0.011	NA	< 0.011	< 0.011
Naphthalene	ug/l	300	NS	< 0.019	< 0.023	< 0.018	NA	< 0.028	< 0.029	< 0.026	< 0.015	< 0.015	< 0.015	< 0.02	NA	< 0.02	< 0.016	NA	< 0.026	< 0.027
Pentachlorophenol	ug/l	0.3 [1]	1	< 0.22	< 0.086	< 0.32	NA	< 0.43	< 0.33	< 0.3	< 0.23	< 0.24	< 0.25	< 0.24	NA	< 0.075	< 0.29	NA	< 0.4	< 0.31
Phenanthrene	ug/l	NS	NS	< 0.036	< 0.046	< 0.017	NA	< 0.023	< 0.023	< 0.021	< 0.018	< 0.018	< 0.019	< 0.038	NA	< 0.04	< 0.016	NA	< 0.021	< 0.022
Pyrene	ug/l	200	NS	< 0.022	< 0.028	< 0.009	NA	< 0.015	< 0.016	< 0.014	< 0.013	< 0.013	< 0.013	< 0.024	NA	< 0.024	< 0.0081	NA	< 0.014	< 0.014
PCBs																				
PCB 1016	ug/l	0.5	0.5	< 0.35	< 0.35	< 0.13	< 0.075 J	< 0.1	R	< 0.099	< 0.099	< 0.1	< 0.21	< 0.31	NA	< 0.33	< 0.13	< 0.075 J	< 0.1	< 0.1
PCB 1221	ug/l	0.5	0.5	< 0.48	< 0.48	< 0.27	< 0.085	< 0.5	R	< 0.49	< 0.5	< 0.5	< 0.34	< 0.42	NA	< 0.45	< 0.27	< 0.085	< 0.52	< 0.5
PCB 1232	ug/l	0.5	0.5	< 0.36	< 0.36	< 0.39	< 0.12	< 0.41	R	< 0.41	< 0.41	< 0.41	< 0.23	< 0.32	NA	< 0.34	< 0.39	< 0.12	< 0.43	< 0.41
PCB 1242	ug/l	0.5	0.5	< 0.32	< 0.31	< 0.086	< 0.13	< 0.17	R	< 0.17	< 0.17	< 0.17	< 0.099	< 0.28	NA	< 0.3	< 0.086	< 0.13	< 0.18	< 0.17
PCB 1248	ug/l	0.5	0.5	< 0.33	< 0.33	< 0.15	< 0.072	< 0.16	R	< 0.16	< 0.16	< 0.16	< 0.28	< 0.29	NA	< 0.31	< 0.15	< 0.072	< 0.17	< 0.16
PCB 1254	ug/l	0.5	0.5	< 0.21	< 0.21	< 0.14	< 0.072	< 0.12	R	< 0.11	< 0.12	< 0.12	< 0.12	< 0.19	NA	< 0.2	< 0.14	< 0.072	< 0.12	< 0.12
PCB 1260	ug/l	0.5	0.5	< 0.16	< 0.16	< 0.21	< 0.1	< 0.12	R	< 0.12	< 0.12	< 0.12	< 0.16	< 0.14	NA	< 0.15	< 0.21	< 0.1	< 0.13	< 0.12
Total PCBs	ug/l	0.5	0.5	0	0	0	0	0	R	0	0	0	0	0	NA	0	0	0	0	0
Pesticides/Herbicides																				
4,4-DDD	ug/l	0.1	NS	NA	NA	NA	< 0.017	< 0.0026	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.017	< 0.0027	NA
4,4-DDE	ug/l	0.1	NS	NA	NA	NA	< 0.0041	< 0.0018	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0041	< 0.0018	NA
4,4-DDT	ug/l	0.1	NS	NA	NA	NA	< 0.018	< 0.0052	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.018	< 0.0054	NA
Aldrin	ug/l	0.04	NS	NA	NA	NA	< 0.0079	< 0.0036	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0079	< 0.0037	NA
alpha-BHC	ug/l	0.02	NS	NA	NA	NA	< 0.013	< 0.0028	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.013	< 0.0029	NA
alpha-Chlordane	ug/l	NS	NS	NA	NA	NA	< 0.018	< 0.0046	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.018	< 0.0048	NA
beta-BHC	ug/l	0.04	NS	NA	NA	NA	< 0.0086 J	< 0.0066	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0086 J	< 0.0068	NA
delta-BHC	ug/l	NS	NS	NA	NA	NA	< 0.0098	< 0.0033	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0098	< 0.0034	NA
Dieldrin	ug/l	0.03	NS	NA	NA	NA	< 0.013	< 0.0018	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.013	< 0.0019	NA
Endosulfan I (alpha)	ug/l	40	NS	NA	NA	NA	< 0.0029	< 0.0022	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0029	< 0.0023	NA
Endosulfan II (beta)	ug/l	40	NS	NA	NA	NA	< 0.0028	< 0.0034	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0028	< 0.0036	NA
Endosulfan sulfate	ug/l	40	NS	NA	NA	NA	< 0.013	< 0.0049	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.013	< 0.0051	NA
Endrin	ug/l	2	2	NA	NA	NA	< 0.011	< 0.0032	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.011	< 0.0033	NA
Endrin Aldehyde	ug/l	NS	NS	NA	NA	NA	< 0.02 J	< 0.0069	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.02 J	< 0.0071	NA
Endrin ketone	ug/l	NS	NS	NA	NA	NA	< 0.0053 J	< 0.0037	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0053 J	< 0.0038	NA
gamma-Chlordane	ug/l	NS	NS	NA	NA	NA	< 0.013	< 0.0018	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.013	< 0.0019	NA
Heptachlor	ug/l	0.05	0.4	NA	NA	NA	< 0.0059	< 0.0027	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0059	< 0.0028	NA
Heptachlor epoxide	ug/l	0.2	0.2	NA	NA	NA	< 0.011	< 0.0016	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.011	< 0.0016	NA
Lindane	ug/l	0.03	0.2	NA	NA	NA	< 0.0026	< 0.0018	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0026	< 0.0019	NA
Methoxychlor	ug/l	40	40	NA	NA	NA	< 0.012	< 0.0072	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.012	< 0.0074	NA
Toxaphene	ug/l	2	3	NA	NA	NA	< 0.25	< 0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.25	< 0.1	NA

Location ID		GWQS[1]	EPA	OB-15B	OB-15B	OB-15B	OB-16	OB-16	OB-16	OB-16	OB-16	OB-16	OB-16	OB-16	OB-16	OB-16	OB-17	OB-17	OB-17
Sample ID			MCLs	OB-15B(102609)	OB-15B(061110)	OB-15B(052311)	OB-16 (10/12/04)	OB-16 (9/27/2006)	OB-16(041007)	OB-16(071010)	OB-16(080501)	OB-16(080911)	OB-16(070809)	OB-16(102309)	OB-16	OB-16(052710)	OB-16(051911)	OB-17(10/11/04)	OB-17	OB-17(041007)
Sample Date	Units			10/26/2009	6/11/2010	5/23/2011	10/12/2004	9/27/2006	4/10/2007	10/10/2007	5/1/2008	9/11/2008	7/8/2009	10/23/2009	10/29/2009	5/27/2010	5/19/2011	10/11/2004	9/27/2006	4/10/2007
Metals - Total																				
Aluminum	ug/l	200	NS	127 B	**349 J**	**227**	< 200	< 110	< 23	< 26	< 24	< 24	129 BJ	< 26	NA	< 7.8	**492**	< 200	< 110	< 23
Antimony	ug/l	6	6	< 2.9	< 2.2	< 1.3	< 5	< 4.4	< 5	< 0.9	< 1.8	< 1.8	< 4	< 2.9	NA	< 2.2	< 1.3	< 5	< 4.4	< 5
Arsenic	ug/l	3 [8]	10	< 2.4	**3.2**	1.2 B	**7.6**	**6.2**	**4.4**	**8.8**	**4.6**	**7.4**	**5.1**	**6.1**	NA	**7.8**	**9.1**	< 5	< 1.5	< 1.5
Barium	ug/l	6000	2000	18 B	131 B	54.3 B	< 200	92.2 B	79.6 B	87.7 B	81 B	80.4 BJ	88.1 B	90.4 B	NA	92.5 B	123 B	< 200	11.4 B	10.1 B
Beryllium	ug/l	1	4	< 0.4	< 0.21	< 0.24	< 5	< 0.5	< 0.4	< 0.15	< 0.15	< 0.15	< 0.4	< 0.4	NA	< 0.24	< 0.24	< 5	< 0.5	< 0.4
Cadmium	ug/l	4	5	< 0.4	< 0.35	< 3	< 4	< 0.6	< 1.3	< 0.24	< 0.28	< 0.28	0.6 B	< 0.4	NA	< 0.35	< 0.17	< 4	< 0.6	< 1.3
Calcium	ug/l	NS	NS	24300	24600	24800	146000	147000	133000	141000	138000	123000 J	149000	141000	NA	136000	147000	83100	85500	71800
Chromium	ug/l	70	100	2.4 B	0.98 B	2.9 B	< 10	< 1.6	< 0.8	0.9 B	< 0.53	< 1.6	< 0.9	0.9 B	NA	1.2 B	< 10	< 10	< 1.6	< 0.8
Cobalt	ug/l	NS	NS	< 1.6	1.6 B	< 0.3	< 50	< 1.7	< 1.8	5.2 B	1.8 B	< 1.2	1.5 B	< 1.6	NA	0.7 B	< 50	< 50	< 1.7	< 1.8
Copper	ug/l	1,300	1300	< 1.6	< 2.5	< 0.85	< 25	< 2.3	< 2.7	< 3.3	< 2.5	< 2.5	< 2	< 1.6	NA	< 2.5	< 0.85	< 25	< 2.3	< 2.7
Iron	ug/l	300	NS	169	**1490**	**579**	**11000 J**	**9890**	**8050**	**15400**	**11100**	**12200 J**	**12400**	**13200**	NA	**14300**	**16700**	**2470**	**1770**	**1410**
Lead	ug/l	5	15	< 1.7	2 B	2 B	< 3	< 2.6	< 2.8	< 0.94	3.7	< 1.4	< 1.7	< 1.7	NA	< 1.9	< 3	< 3	< 2.6	3.5
Magnesium	ug/l	NS	NS	5860	5930	5950	20700	20500	19600	20700	21500	18000	20500	19500	NA	19600	20100	26800	26800	24100
Manganese	ug/l	50	NS	**1970**	**16300**	**6880**	**3060**	**2840**	**2230**	**3940**	**2860**	**3250**	**3030**	**3440**	NA	**3440**	**3210**	**825**	**619**	**496**
Mercury	ug/l	2	2	< 0.082	< 0.082	< 0.088	< 0.2	< 0.08	< 0.037	< 0.15	< 0.15	< 0.049	< 0.049	< 0.082	NA	< 0.082	< 0.088	< 0.2	< 0.08	< 0.037
Nickel	ug/l	100	NS	7.8 B	**104**	30.6	< 40	< 1.6	< 2.8	1.7 B	< 1.2	< 1.2	< 10	< 10	NA	1.8 B	2.8 J	< 40	< 1.6	< 2.8
Potassium	ug/l	NS	NS	809 B	759 B	801 B	11100	11100	8670	10600	8980 B	10000	9650 B	10100	NA	9470 B	10200	< 5000	904 B	676 B
Selenium	ug/l	40	50	< 3.7	< 2.3	< 1.5	< 5	< 3	< 6.2	< 0.73	< 1.6	< 1.6	< 3.7	< 3.7	NA	2.1 B	< 1.5	< 5	< 3	< 6.2
Silver	ug/l	40	NS	< 1	3.9 B	< 0.72	< 10	< 1.9	< 1	< 0.83	< 1	< 1	< 1	< 1	NA	0.8 B	< 0.72	< 10	< 1.9	< 1
Sodium	ug/l	50,000	NS	4390 B	3820 B	4230 B	24800	25800	21100 J	31300	26800	25100	25700	27900	NA	30100	34500	15900	14700 J	11800 J
Thallium	ug/l	2 [10]	2	< 1.5	< 5.4	< 0.17	< 10	< 0.09	< 0.09	< 1.4	< 1.3	< 1.3	< 2	< 1.5	NA	< 1.8	< 0.17	< 10	< 0.09	< 0.09
Vanadium	ug/l	NS	NS	2.1 B	6.1 B	5.2 B	< 50	< 1.9	< 1.8	< 0.49	< 0.43	0.6 BJ	< 0.9	< 0.9	NA	< 0.56	< 0.43	< 50	< 1.9	< 1.8
Zinc	ug/l	2000	NS	< 2.9	19.2 B	3.6 B	< 20	< 3.3	< 3.4	< 2.7	< 4	< 4	< 2.9	< 2.9	NA	< 1.4	5 J	< 20	< 3.3	< 3.4
Metals - Dissolved																				
Aluminum	ug/l	200	NS	29.7 B	< 7.8 J	< 200	< 200	< 110	< 23	< 26	< 24	< 24	134 B	< 26	NA	< 200	< 200	< 200	< 110	< 23
Antimony	ug/l	6	6	< 2.9	< 2.2	< 1.3	< 5	< 4.4	< 5	< 0.9	< 1.8	< 1.8	< 4	< 2.9	NA	< 2.2	< 1.3	< 5	< 4.4	< 5
Arsenic	ug/l	3 [8]	10	< 2.4	< 1.4	< 0.92	**6.3**	**4.2**	**3.3**	**3.6**	< 1.7	2.6 BJ	< 2.4	< 2.4	NA	< 1.4	**6**	< 5	< 1.5	< 1.5
Barium	ug/l	6000	2000	< 1.3	2.3 J	< 0.44	< 200	86.9 B	76.8 B	69.6 B	64.2 B	62.5 BJ	72.3 B	68 B	NA	67.7 B	112 B	< 200	12.2 B	10.1 B
Beryllium	ug/l	1	4	< 0.4	< 0.21	< 0.24	< 5	< 0.5	< 0.4	< 0.15	< 0.15	< 0.15	< 0.4	< 0.4	NA	< 1	< 0.24	< 5	< 0.5	< 0.4
Cadmium	ug/l	4	5	< 0.4	< 0.35	< 0.17	< 4	< 0.6	< 1.3	< 0.24	< 0.28	< 0.28	0.4 B	< 0.4	NA	< 0.35	< 0.17	< 4	< 0.6	< 1.3
Calcium	ug/l	NS	NS	24000	23200	23100	146000	142000	135000	136000	134000	120000 J	148000	139000	NA	136000	146000	81400	82000	70400
Chromium	ug/l	70	100	2.2 B	< 0.56	< 0.9	< 10	< 1.6	< 0.8	1.7 B	< 0.53	< 1.2	< 10	< 0.9	NA	1.6 B	< 0.9	< 10	< 1.6	< 0.8
Cobalt	ug/l	NS	NS	< 1.6	< 0.65	< 0.3	< 50	< 1.7	< 1.8	4.6 B	1.7 B	1.1 BJ	1.6 B	< 1.6	NA	0.9 B	< 50	< 50	< 1.7	< 1.8
Copper	ug/l	1,300	1300	< 1.6	< 2.5	< 0.85	< 25	< 2.3	< 2.7	< 3.3	< 2.5	< 2.5	< 10	< 1.6	NA	< 2.5	< 0.85	< 25	< 2.3	< 2.7
Iron	ug/l	300	NS	< 12	73.8 B	< 100	**10200**	**9620**	**9140**	**5400**	**912**	**3660 J**	**2610**	**907**	NA	**988**	**13900**	**2150**	**1580**	**1080**
Lead	ug/l	5	15	< 1.9	< 1.9	< 0.94	< 3	< 2.6	< 2.8	< 0.94	1.6 B	< 1.4	< 1.7	< 1.7	NA	< 1.9	< 3	< 3	< 2.6	< 2.8
Magnesium	ug/l	NS	NS	5810	5680	5590	20800	19800	20100	20200	20800	17600	20900	19300	NA	20200	19700	26300	26300	23700
Manganese	ug/l	50	NS	12.2 B	9 B	< 0.18	**3080**	**2770**	**2470**	**3830**	**2740**	**3210**	**2990**	**3410**	NA	**3530**	**3260**	**804**	**586**	**482**
Mercury	ug/l	2	2	< 0.082	< 0.082	< 0.088	< 0.2	0.1 B	< 0.037	< 0.15	< 0.15	< 0.049	< 0.049	< 0.082 J	NA	< 0.082	< 0.088	< 0.2	< 0.08	< 0.037
Nickel	ug/l	100	NS	< 0.6	1.5 B	< 0.41	< 40	< 1.6	< 2.8	1.4 B	< 1.2	< 1.2	< 10	< 10	NA	2 B	2.4 J	< 40	< 1.6	< 2.8
Potassium	ug/l	NS	NS	746 B	649 B	707 B	11000	10600	8340	10400	8890 B	9760 B	9780 B	9990 B	NA	9570 B	9890 B	< 5000	910 B	669 B
Selenium	ug/l	40	50	< 3.7	< 1.9	< 1.5	< 5	< 3	< 6.2	< 0.73	< 1.6	< 2.1	< 3.7	< 3.7	NA	4.2 B	< 1.5	< 5	< 3	< 6.2
Silver	ug/l	40	NS	< 1	< 0.53	< 0.72	< 10	< 1.9	< 1	< 0.83	< 1	< 1	< 1	< 1	NA	0.8 B	< 0.72	< 10	< 1.9	< 1
Sodium	ug/l	50,000	NS	4460 B	3770 B	4070 B	24600	24800	20900 J	30400	26500	24600	26100	27400	NA	30600	34200	15900	14800 J	11800 J
Thallium	ug/l	2 [10]	2	< 1.5	< 1.8	< 0.17	< 10	< 0.09	< 0.09	< 1.4	< 1.3	< 1.3	< 1.5	< 1.5	NA	< 1.8	< 0.17	< 10	< 0.09	< 0.09
Vanadium	ug/l	NS	NS	< 0.9	0.7 B	0.9 B	< 50	< 1.9	< 1.8	< 0.49	< 0.43	< 0.43	< 0.9	< 0.9	NA	< 0.56	< 0.43	< 50	< 1.9	< 1.8
Zinc	ug/l	2000	NS	6.8 B	7.7 B	10.6 B	< 20	< 3.3	4.8 B	< 2.7	< 4	< 4	13.6 BJ	3.8 B	NA	< 20	8.5 B	< 20	< 3.3	7.5 B
Other																				
Alkalinity, Bicarbonate	ug/l	NS	NS	NA	NA	NA	NA	418000	444000	488000	414000	442000	NA	NA	NA	NA	NA	NA	286000	276000
Alkalinity, Carbonate	ug/l	NS	NS	NA	NA	NA	NA	< 5000	< 5000	< 5000	< 5000	< 5000	NA	NA	NA	NA	NA	NA	< 5000	< 5000
Alkalinity, total (as CaCO3)	ug/l	NS	NS	73000	80100	72900	NA	NA	445000	488000	414000	442000	443000	431000	NA	407000	429000	NA	NA	276000
BOD, 5 Day	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromide	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	ug/l	250000	NS	< 2000	< 2000	< 2000	NA	36200	34800	30300	42400	34600	49800	49800	NA	68100	67200	NA	6100	5700
COD	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide	ug/l	100	200	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA	< 10	< 10	< 10
Nitrate	ug/l	10000	10000	NA	NA	NA	NA	< 110	< 110	< 110	< 110	< 110 J	NA	NA	NA	NA	NA	NA	< 110	< 110
Nitrogen, Nitrate + Nitrite	ug/l	10000	NS	NA	NA	NA	NA	< 100	< 100	< 100	< 100	< 100	NA	NA	NA	NA	NA	NA	< 100	< 100
Nitrogen, Nitrite	ug/l	1000	1000	NA	NA	NA	NA	< 10	< 10	< 10	< 10	< 10 J	NA	NA	NA	NA	NA	NA	< 10	< 10
Phosphorus, Total	ug/l	NS	NS	NA	NA	NA	NA	86	< 50	170	130	180	NA	NA	NA	NA	NA	NA	< 50	< 50
Sulfate	ug/l	250000	NS	15100	15400	< 12400	NA	19300	19600	< 10000	21200	13300	19800	14900	NA	15200	10700	NA	44600	38500
Total Dissolved Solids	ug/l	500000	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total organic carbon	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See footnotes on last page

Location ID		GWQS[1]	EPA	OB-17	OB-17	OB-17	OB-17	OB-17	OB-17	OB-17	OB-18	OB-18	OB-18	OB-18	OB-18	OB-18	OB-18	OB-18	OB-18	OB-18
Sample ID			MCLs	OB-17(071010)	OB-17(080501)	OB-17(080911)	OB-17(070809)	OB-17(102309)	OB-17(052710)	OB-17(051911)	OB-18 (10/14/04)	OB-18	DUP(041007) (OB-18)	OB-18(041007)	OB-18(071010)	OB-18(080501)	OB-18(080911)	OB-18(070809)	OB-18(102309)	OB-18(052710)
Sample Date	Units			10/10/2007	5/1/2008	9/11/2008	7/8/2009	10/23/2009	5/27/2010	5/19/2011	10/11/2004	9/26/2006	4/10/2007	4/10/2007	10/10/2007	5/1/2008	9/11/2008	7/8/2009	10/23/2009	5/27/2010
VOC																				
1,1,1,2-Tetrachloroethane	ug/l	1	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/l	30	200	< 0.3	< 0.24	< 0.24	< 0.26	< 0.26	< 0.26	< 0.2	< 0.5	< 0.28	< 0.28	< 0.28	< 0.3	< 0.24	< 0.24	< 0.26	< 0.26	< 0.26
1,1,2,2-Tetrachloroethane	ug/l	1	NS	< 0.8	< 0.13	< 0.13	< 0.24	< 0.24	< 0.24	< 0.12	< 0.3	< 0.28	< 0.28	< 0.28	< 0.8	< 0.13	< 0.13	< 0.24	< 0.24	< 0.24
1,1,2-Trichloroethane	ug/l	3	5	< 0.49	< 0.17	< 0.17	< 0.23	< 0.23	< 0.23	< 0.13	< 0.5	< 0.32	< 0.32	< 0.32	< 0.49	< 0.17	< 0.17	< 0.23	< 0.23	< 0.23
1,1-Dichloroethane	ug/l	50	NS	1.1	0.57 J	< 0.24	1	1.3	1	< 0.16	< 0.5	< 0.23	< 0.23	< 0.23	< 0.2	< 0.16	< 0.24	< 0.29	< 0.29	< 0.29
1,1-Dichloroethene	ug/l	1	7	< 0.28	< 0.29	< 0.29	< 0.4	< 0.4	< 0.4	< 0.24	< 0.5	< 0.33	< 0.33	< 0.33	< 0.28	< 0.29	< 0.29	< 0.4	< 0.4	< 0.4
1,2,4-Trichlorobenzene	ug/l	9	70	< 0.41	< 1.3	< 1.3	< 0.56	< 0.56	< 0.56	< 0.16	< 0.5	< 0.16	< 0.16	< 0.16	< 0.41	< 1.3	< 1.3	< 0.56	< 0.56	< 0.56
1,2-Dibromo-3-Chloropropane (DBCP)	ug/l	0.02 [1]	0.2	< 0.8	< 2.4	< 1.3	< 1.1	< 1.1	< 1.1	< 1.2	< 1	< 1.1	< 1.1	< 1.1	< 0.8	< 2.4	< 1.3	< 1.1	< 1.1	< 1.1
1,2-Dibromoethane	ug/l	0.03 [0.5]	0.05	< 0.45	< 0.17	< 0.18	< 0.39	< 0.39	< 0.39	< 0.39	< 0.5	< 0.52	< 0.52	< 0.52	< 0.45	< 0.17	< 0.18	< 0.39	< 0.39	< 0.39
1,2-Dichlorobenzene	ug/l	600	600	< 0.2	< 0.18	< 0.18	< 0.26	< 0.26	< 0.26	< 0.15	< 0.5	< 0.2	< 0.2	< 0.2	< 0.2	< 0.18	< 0.18	< 0.26	< 0.26	< 0.26
1,2-Dichloroethane	ug/l	2	5	< 0.29	< 0.35	< 0.35	< 0.33	< 0.33	< 0.33	< 0.31	< 0.5	< 0.29	< 0.29	< 0.29	< 0.29	< 0.35	< 0.35	< 0.33	< 0.33	< 0.33
1,2-Dichloropropane	ug/l	1	5	< 0.24	< 0.18	< 0.18	< 0.27	< 0.27	< 0.27	< 0.23	< 0.5	< 0.2	< 0.2	< 0.2	< 0.24	< 0.18	< 0.18	< 0.27	< 0.27	< 0.27
1,3-Dichlorobenzene	ug/l	600	NS	< 0.21	< 0.26	< 0.26	< 0.25	< 0.25	< 0.25	< 0.19	< 0.5	< 0.32	< 0.32	< 0.32	< 0.21	< 0.26	< 0.26	< 0.25	< 0.25	< 0.25
1,4-Dichlorobenzene	ug/l	75	75	< 0.17	< 0.32	< 0.22	< 0.28	< 0.28	< 0.28	< 0.22	< 0.5	< 0.24	< 0.24	< 0.24	< 0.17	< 0.32	< 0.22	< 0.28	< 0.28	< 0.28
2-Butanone (MEK)	ug/l	300	NS	< 2.7	< 2.3	< 2.3	< 1.6	< 1.6	< 1.6	< 1.7	< 2.5	< 2.6	< 2.6	< 2.6	< 2.7	< 2.3	< 2.3	< 1.6	< 1.6	< 1.6
2-Hexanone	ug/l	NS	NS	< 0.94	< 1.7	< 1.7	< 1.4	< 1.4	< 1.4	< 1.9	< 2.5	< 1.3	< 1.3	< 1.3	< 0.94	< 1.7	< 1.7	< 1.4	< 1.4	< 1.4
4-methyl-2-pentanone (MIBK)	ug/l	NS	NS	< 1.4	< 1.9	< 1.3	< 0.86	< 0.86	< 0.86	< 0.74	< 2.5	< 1.1	< 1.1	< 1.1	< 1.4	< 1.9	< 1.3	< 0.86	< 0.86	< 0.86
Acetone	ug/l	6000	NS	< 2.9	< 2.1	< 2.1	< 2.9	< 2.9	< 2.9	< 4.4	< 5	< 2.4	< 2.4	< 2.4	< 2.9	< 2.1	< 2.1	< 2.9	< 2.9	< 2.9
Benzene	ug/l	1	5	< 0.19	< 0.26	< 0.26	< 0.23	< 0.23	< 0.23	< 0.26	< 0.5	< 0.21	< 0.21	< 0.21	< 0.19	< 0.26	< 0.26	< 0.23	< 0.23	< 0.23
Bromodichloromethane	ug/l	1	80	< 0.15	< 0.14	< 0.14	< 0.22	< 0.22	< 0.22	< 0.18	< 0.5	< 0.17	< 0.17	< 0.17	< 0.15	< 0.14	< 0.14	< 0.22	< 0.22	< 0.22
Bromoform	ug/l	4	80	< 0.34	< 0.18	< 0.18	< 0.23	< 0.23	< 0.23	< 0.42	< 0.5	< 0.54	< 0.54	< 0.54	< 0.34	< 0.18	< 0.18	< 0.23	< 0.23	< 0.23
Bromomethane	ug/l	10	NS	< 0.38	< 0.32	< 0.32	< 0.3	< 0.3	< 0.3	< 0.24	< 1 J	< 0.22	< 0.22	< 0.22	< 0.38	< 0.32	< 0.32	< 0.3	< 0.3	< 0.3
Carbon disulfide	ug/l	700	NS	< 0.14	< 0.15	< 0.16	< 0.74	< 0.74	< 0.74	< 0.13	< 1	< 0.21	< 0.21	< 0.21	< 0.14	< 0.15	< 0.16	< 0.74	< 0.74	< 0.74
Carbon tetrachloride	ug/l	1	5	< 0.19	< 0.18	< 0.18	< 0.26	< 0.26	< 0.26	< 0.35	< 0.5	< 0.29 J	< 0.29	< 0.29	< 0.19	< 0.18	< 0.18	< 0.26	< 0.26	< 0.26
Chlorobenzene	ug/l	50	100	< 0.19	< 0.14	< 0.19	< 0.39	< 0.39	< 0.39	< 0.15	< 0.5	< 0.22	< 0.22	< 0.22	< 0.19	< 0.14	< 0.19	< 0.39	< 0.39	< 0.39
Chloroethane	ug/l	NS	NS	< 0.67	< 0.22	< 0.22	< 0.37	< 0.37	< 0.37	< 0.25	< 1	< 0.56	< 0.56	< 0.56	< 0.67	< 0.22	< 0.22	< 0.37	< 0.37	< 0.37
Chloroform	ug/l	70	80	< 0.25	< 0.16	< 0.16	< 0.23	< 0.23	< 0.23	< 0.14	< 0.5	< 0.22	< 0.22	< 0.22	< 0.25	< 0.16	< 0.16	< 0.23	< 0.23	< 0.23
Chloromethane	ug/l	NS	NS	< 0.3	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.34	< 1	< 0.35	< 0.35	< 0.35	< 0.3	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29
cis-1,2-Dichloroethene	ug/l	70	70	< 0.27	< 0.19	< 0.25	< 0.22	< 0.22	< 0.22	< 0.24	< 0.5	< 0.18	< 0.18	< 0.18	< 0.27	< 0.19	< 0.25	< 0.22	< 0.22	< 0.22
cis-1,3-Dichloropropene	ug/l	NS	NS	< 0.13	< 0.15	< 0.18	< 0.25	< 0.25	< 0.25	< 0.16	< 0.3	< 0.15	< 0.15	< 0.15	< 0.13	< 0.15	< 0.18	< 0.25	< 0.25	< 0.25
Cyclohexane	ug/l	NS	NS	< 0.85	< 0.85	< 0.85	< 1.9	< 1.9	< 1.9	< 0.43	< 0.5	< 0.5	< 0.5	< 0.5	< 0.85	< 0.85	< 0.85	< 1.9	< 1.9	< 1.9
Dibromochloromethane	ug/l	1	80	< 0.28	< 0.12	< 0.16	< 0.22	< 0.22	< 0.22	< 0.16	< 0.4	< 0.19	< 0.19	< 0.19	< 0.28	< 0.12	< 0.16	< 0.22	< 0.22	< 0.22
Dichlorodifluoromethane	ug/l	1,000	NS	< 1	< 0.88	< 0.88	< 0.92	< 0.92	< 0.92	< 0.39	< 0.5	< 0.75	< 0.75	< 0.75	< 1	< 0.88	< 0.88	< 0.92	< 0.92	< 0.92
Ethylbenzene	ug/l	700	700	< 0.21	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.31	< 0.5	< 0.2	< 0.2	< 0.2	< 0.21	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27
Freon 113	ug/l	NS	NS	< 1.2	< 0.8	< 0.8	< 0.38	< 0.38	< 0.38	< 0.66	< 0.5	< 0.69	< 0.69	< 0.69	< 1.2	< 0.8	< 0.8	< 0.38	< 0.38	< 0.38
Isopropylbenzene	ug/l	700	NS	< 0.54	< 0.15	< 0.19	< 0.57	< 0.57	< 0.57	< 0.31	< 0.5	< 0.2	< 0.2	< 0.2	< 0.54	< 0.15	< 0.19	< 0.57	< 0.57	< 0.57
Methyl acetate	ug/l	7000	NS	< 1.6	< 2.5	< 1.7	< 1.5	< 1.5	< 1.5	< 1.3	< 5	< 2.1	< 2.1	< 2.1	< 1.6	< 2.5	< 1.7	< 1.5	< 1.5	< 1.5
Methyl tert butyl ether	ug/l	70	NS	< 0.2	< 0.14	< 0.16	< 0.23	< 0.23	< 0.23	< 0.2	< 0.5	< 0.31	< 0.31	< 0.31	< 0.2	< 0.14	< 0.16	< 0.23	< 0.23	< 0.23
Methylcyclohexane	ug/l	NS	NS	< 0.5	< 0.11	< 0.11	< 0.35	< 0.35	< 0.35	< 0.16	< 0.5	< 0.18	< 0.18	< 0.18	< 0.5	< 0.11	< 0.11	< 0.35	< 0.35	< 0.35
Methylene chloride	ug/l	3	5	< 0.21	< 0.16	< 0.16	< 0.3	< 0.3	< 0.3	< 0.2	< 1	< 0.27	< 0.27	< 0.27	< 0.21	< 0.16	< 0.16	< 0.3	< 0.3	< 0.3
o-Xylene	ug/l	NS	NS	< 0.2	< 0.45	< 0.45	< 0.25	< 0.25	NA	NA	NA	< 0.31	< 0.31	< 0.31	< 0.2	< 0.45	< 0.45	< 0.25	< 0.25	NA
Styrene	ug/l	100	100	< 0.2	< 0.11	< 0.17	< 0.58	< 0.58	< 0.58	< 0.48	< 0.5 J	< 0.16	< 0.16	< 0.16	< 0.2	< 0.11	< 0.17	< 0.58	< 0.58	< 0.58
Tertiary Butyl Alcohol	ug/l	100	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	ug/l	1	5	< 0.28	< 0.29	< 0.29	< 0.27	< 0.27	< 0.27	< 0.24	< 0.5	< 0.28	< 0.28	< 0.28	< 0.28	< 0.29	< 0.29	< 0.27	< 0.27	< 0.27
Toluene	ug/l	600	1000	< 0.21	< 0.15	< 0.15	< 0.3	< 0.3	< 0.3	< 0.27	< 0.5	< 0.2	< 0.2	< 0.2	< 0.21	< 0.15	< 0.15	< 0.3	< 0.3	< 0.3
Trans-1,2-dichloroethene	ug/l	100	100	< 0.32	< 0.16	< 0.16	< 0.25	< 0.25	< 0.25	< 0.3	< 0.5	< 0.42	< 0.42	< 0.42	< 0.32	< 0.16	< 0.16	< 0.25	< 0.25	< 0.25
trans-1,3-Dichloropropene	ug/l	NS	NS	< 0.17	< 0.11	< 0.15	< 0.21	< 0.21	< 0.21	< 0.22	< 0.3	< 0.2	< 0.2	< 0.2	< 0.17	< 0.11	< 0.15	< 0.21	< 0.21	< 0.21
Trichloroethene	ug/l	1	5	< 0.26	< 0.18	< 0.18	< 0.24	< 0.24	< 0.24	< 0.22	< 0.5	< 0.29	< 0.29	< 0.29	< 0.26	< 0.18	< 0.18	< 0.24	< 0.24	< 0.24
Trichlorofluoromethane	ug/l	2000	NS	< 0.26	< 0.25	< 0.25	< 0.54	< 0.54	< 0.54	< 0.23	< 0.6	< 0.25	< 0.25	< 0.25	< 0.26	< 0.25	< 0.25	< 0.54	< 0.54	< 0.54
Vinyl Chloride	ug/l	1	2	< 0.22	< 0.21	< 0.21	< 0.44	< 0.44	< 0.44	< 0.22	< 0.5	< 0.29	< 0.29	< 0.29	< 0.22	< 0.21	< 0.21	< 0.44	< 0.44	< 0.44
Xylene, -m,p	ug/l	NS	NS	< 0.35	< 0.39	< 0.39	< 0.25	< 0.25	NA	NA	NA	< 0.42	< 0.42	< 0.42	< 0.35	< 0.39	< 0.39	< 0.25	< 0.25	NA
Xylenes	ug/l	1,000	10000	< 0.2	< 0.39	< 0.39	< 0.25	< 0.25	< 0.25	< 0.28	< 1	< 0.31	< 0.31	< 0.31	< 0.2	< 0.39	< 0.39	< 0.25	< 0.25	< 0.25
Total TIC, Volatile	ug/l	NS	NS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Location ID		GWQS[1]	EPA	OB-17	OB-17	OB-17	OB-17	OB-17	OB-17	OB-17	OB-18	OB-18	OB-18	OB-18	OB-18	OB-18	OB-18	OB-18	OB-18	OB-18
Sample ID			MCLs	OB-17(071010)	OB-17(080501)	OB-17(080911)	OB-17(070809)	OB-17(102309)	OB-17(052710)	OB-17(051911)	OB-18 (10/14/04)	OB-18	DUP(041007) (OB-18)	OB-18(041007)	OB-18(071010)	OB-18(080501)	OB-18(080911)	OB-18(070809)	OB-18(102309)	OB-18(052710)
Sample Date	Units			10/10/2007	5/1/2008	9/11/2008	7/8/2009	10/23/2009	5/27/2010	5/19/2011	10/11/2004	9/26/2006	4/10/2007	4/10/2007	10/10/2007	5/1/2008	9/11/2008	7/8/2009	10/23/2009	5/27/2010
SVOC																				
1,1'-Biphenyl	ug/l	400	NS	< 0.36	< 0.24 J	< 0.59	< 0.42	< 0.44	< 0.43	< 0.42	< 0.29	< 0.35	< 0.35	< 0.33	< 0.37	< 0.24 J	< 0.58	< 0.47	< 0.44	< 0.43
1,2,4-Trichlorobenzene	ug/l	9	70	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	ug/l	600	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	ug/l	600	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	ug/l	75	75	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/l	700	NS	< 2.1	< 1.2 J	< 2.1	< 1.3	< 1.4	< 1.4	< 1.3	< 0.74	< 2.1	< 2.1	< 1.9	< 2.2	< 1.2 J	< 2.1	< 1.5	< 1.4	< 1.3
2,4,6-Trichlorophenol	ug/l	20	NS	< 1.4	< 1.1 J	< 1.7	< 1.2	< 1.3	< 1.3	< 1.2	< 0.8	< 1.4	< 1.3	< 1.3	< 1.4	< 1.1 J	< 1.7	< 1.4	< 1.3	< 1.2
2,4-Dichlorophenol	ug/l	20	NS	< 1.7	< 1.5 J	< 2.1	< 1.2	< 1.3	< 1.3	< 1.2	< 0.73	< 1.7	< 1.7	< 1.6	< 1.8	< 1.5 J	< 2	< 1.4	< 1.3	< 1.2
2,4-Dimethylphenol	ug/l	100	NS	< 1.8	< 1.8 J	< 2.1	< 1.7	< 1.7	< 1.7	< 1.7	< 1	< 1.8	< 1.7	< 1.6	< 1.8	< 1.8 J	< 2.1	< 1.9	< 1.7	< 1.7
2,4-Dinitrophenol	ug/l	40	NS	< 0.99	< 1.2 J	< 4.5	< 0.74	< 0.77	< 0.76	< 0.74	< 1.1	< 0.96	< 0.95	< 0.89	< 1	< 1.2 J	< 4.4	< 0.83	< 0.77	< 0.75
2,4-Dinitrotoluene	ug/l	NS	NS	< 0.96	< 0.58 J	< 0.49	< 0.22	< 0.23	< 0.23	< 0.22	< 0.78	< 0.92	< 0.91	< 0.86	< 0.97	< 0.58 J	< 0.48	< 0.25	< 0.23	< 0.22
2,6-Dinitrotoluene	ug/l	NS	NS	< 0.62	< 0.54 J	< 0.64	< 0.33	< 0.34	< 0.34	< 0.33	< 0.62	< 0.6	< 0.59	< 0.56	< 0.63	< 0.54 J	< 0.63	< 0.37	< 0.34	< 0.33
2-Chloronaphthalene	ug/l	600	NS	< 1.1	< 0.21 J	< 0.52	< 0.42	< 0.43	< 0.43	< 0.42	< 0.38	< 1.1	< 1	< 0.98	< 1.1	< 0.21 J	< 0.51	< 0.47	< 0.43	< 0.42
2-Chlorophenol	ug/l	40	NS	< 1.1	< 0.94 J	< 1.6	< 1.1	< 1.1	< 1.1	< 1.1	< 4.3	< 1	< 1	< 0.95	< 1.1	< 0.94 J	< 1.5	< 1.2	< 1.1	< 1.1
2-Methylnaphthalene	ug/l	NS	NS	< 0.45	< 0.82 J	< 0.46	< 0.66	< 0.69	< 0.68	< 0.66	< 0.72	< 0.44	< 0.43	< 0.41	< 0.46	< 0.82 J	< 0.46	< 0.74	< 0.69	< 0.67
2-Methylphenol	ug/l	NS	NS	< 1.5	< 1.1 J	< 1.5	< 1.1	< 1.2	< 1.2	< 1.1	< 0.72	< 1.5	< 1.4	< 1.4	< 1.5	< 1.1 J	< 1.4	< 1.3	< 1.2	< 1.1
2-Nitroaniline	ug/l	NS	NS	< 0.74	< 0.53 J	< 0.48	< 0.24	< 0.24	< 0.24	< 0.24	< 1.4	< 0.71	< 0.7	< 0.66	< 0.74	< 0.53 J	< 0.47	< 0.26	< 0.24	< 0.24
2-Nitrophenol	ug/l	NS	NS	< 2	< 1.6 J	< 2.1	< 1.2	< 1.3	< 1.3	< 1.2	< 0.73	< 1.9	< 1.9	< 1.8	< 2	< 1.6 J	< 2	< 1.4	< 1.3	< 1.3
3&4-Methylphenol	ug/l	NS	NS	< 1.4	< 1.2 J	< 1.6	< 1	< 1.1	< 1.1	< 1	< 0.7	< 1.4	< 1.4	< 1.3	< 1.4	< 1.2 J	< 1.5	< 1.2	< 1.1	< 1.1
3,3'-Dichlorobenzidine	ug/l	30	NS	< 1.4	< 1 J	< 4.9	< 0.3	< 0.31	< 0.3	< 0.3	< 0.39	< 1.3	< 1.3	< 1.2	< 1.4	< 1 J	< 4.8	< 0.33	< 0.31	< 0.3
3-Nitroaniline	ug/l	NS	NS	< 1.4	< 0.35 J	< 0.48	< 0.29	< 0.3	< 0.3	< 0.29	< 1.2	< 1.4	< 1.3	< 1.3	< 1.4	< 0.35 J	< 0.47	< 0.32	< 0.3	< 0.29
4,6-Dinitro-2-methylphenol	ug/l	NS	NS	< 0.8	< 2.4 J	< 1.3	< 0.51	< 0.53	< 0.53	< 0.51	< 0.65	< 0.78	< 0.77	< 0.72	< 0.81	< 2.4 J	< 1.2	< 0.58	< 0.53	< 0.52
4-Bromophenyl phenyl ether	ug/l	NS	NS	< 0.33	< 0.4 J	< 0.44	< 0.35	< 0.36	< 0.36	< 0.35	< 0.54	< 0.32	< 0.32	< 0.3	< 0.34	< 0.4 J	< 0.43	< 0.39	< 0.36	< 0.35
4-Chloro-3-Methylphenol	ug/l	NS	NS	< 1.3	< 1.3 J	< 2.4	< 1.1	< 1.1	< 1.1	< 1.1	< 4.7	< 1.3	< 1.3	< 1.2	< 1.3	< 1.3 J	< 2.4	< 1.2	< 1.1	< 1.1
4-Chloroaniline	ug/l	30	NS	< 0.44	< 0.37 J	< 0.36	< 0.25	< 0.26	< 0.26	< 0.25	< 0.43	< 0.43	< 0.42	< 0.4	< 0.45	< 0.37 J	< 0.35	< 0.28	< 0.26	< 0.26
4-Chlorophenyl phenyl ether	ug/l	NS	NS	< 0.48	< 0.31 J	< 0.49	< 0.35	< 0.37	< 0.36	< 0.35	< 1	< 0.46	< 0.46	< 0.43	< 0.48	< 0.31 J	< 0.48	< 0.4	< 0.37	< 0.36
4-Nitroaniline	ug/l	NS	NS	< 0.8	< 0.63 J	< 0.48	< 0.18	< 0.19	< 0.18	< 0.18	< 1.1	< 0.78	< 0.77	< 0.72	< 0.81	< 0.63 J	< 0.48	< 0.2	< 0.19	< 0.18
4-Nitrophenol	ug/l	NS	NS	< 0.94	< 1.7 J	< 2.4	< 0.83	< 0.86	< 0.85 J	< 0.83	< 2.3	< 0.91	< 0.9	< 0.84	< 0.95	< 1.7 J	< 2.4	< 0.93	< 0.86	< 0.84 J
Acenaphthene	ug/l	400	NS	NA	NA	NA	NA	NA	NA	NA	< 0.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	< 0.35	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	ug/l	700	NS	< 0.42	< 0.39 J	< 0.5	< 0.4	< 0.42	< 0.41	< 0.4	< 0.53	< 0.4	< 0.4	< 0.37	< 0.42	< 0.39 J	< 0.49	< 0.45	< 0.42	< 0.4
Anthracene	ug/l	2000	NS	NA	NA	NA	NA	NA	NA	NA	< 0.22	NA	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	ug/l	3	3	< 0.18	< 0.3 J	< 0.66	< 0.39	< 0.41	< 0.4	< 0.39	< 1.5	< 0.18	< 0.17	< 0.16	< 0.18	< 0.3 J	< 0.65	< 0.44	< 0.41	< 0.4
Benzaldehyde	ug/l	NS	NS	R	< 0.82 J	< 1.7	< 0.4	< 0.42	< 0.42	< 0.4	< 3.6	< 0.28	< 0.28	< 0.27	R	< 0.82 J	< 1.7	< 0.45	< 0.42	< 0.41
Benzo(a)anthracene	ug/l	0.1 [0.2]	NS	NA	NA	NA	NA	NA	NA	NA	< 0.27	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/l	0.1 [0.2]	0.2	NA	NA	NA	NA	NA	NA	NA	< 0.38	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/l	0.2 [10]	NS	NA	NA	NA	NA	NA	NA	NA	< 0.37	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	< 0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/l	0.5	NS	NA	NA	NA	NA	NA	NA	NA	< 0.37	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzyl butyl phthalate	ug/l	100	NS	< 0.66	< 0.69 J	< 0.45	< 0.25	< 0.26	< 0.26	< 0.25	< 0.54	< 0.64	< 0.63	< 0.59	< 0.67	< 0.69 J	< 0.44	< 0.28	< 0.26	< 0.25
bis(2-Chloroethoxy)methane	ug/l	NS	NS	< 0.73	< 0.34 J	< 0.55	< 0.25	< 0.26	< 0.26	< 0.25	< 0.34	< 0.7	< 0.7	< 0.65	< 0.73	< 0.34 J	< 0.54	< 0.28	< 0.26	< 0.25
bis(2-Chloroethyl)ether	ug/l	7	NS	< 0.59	< 0.72 J	< 0.53	< 0.31	< 0.32	< 0.32	< 0.31	< 0.49	< 0.57	< 0.56	< 0.53	< 0.6	< 0.72 J	< 0.52	< 0.35	< 0.32	< 0.31
bis(2-Chloroisopropyl)ether	ug/l	300	NS	< 0.82	< 0.62 J	< 0.58	< 0.39	< 0.41	< 0.4	< 0.39	< 0.44	< 0.79	< 0.79	< 0.74	< 0.83	< 0.62 J	< 0.57	< 0.44	< 0.41	< 0.4
bis(2-Ethylhexyl)phthalate	ug/l	3	6	< 0.73	< 0.94 BJ	< 0.8	< 0.33	< 0.34	< 0.34	< 0.33	< 0.74	< 0.71	< 0.7	< 0.66	< 0.74	< 0.94 BJ	< 0.79	< 0.37	< 0.34	< 0.33
Caprolactam	ug/l	NS	NS	< 0.35	< 0.53 J	< 0.67	< 0.2	< 0.2	< 0.2	< 0.2	< 0.44	< 0.34	< 0.34	< 0.32	< 0.35	< 0.53 J	< 0.66	< 0.22	< 0.2	< 0.2
Carbazole	ug/l	NS	NS	< 0.4	< 0.43 J	< 0.48	< 0.17	< 0.17	< 0.17	< 0.17	< 0.34	< 0.39	< 0.39	< 0.36	< 0.41	< 0.43 J	< 0.47	< 0.19	< 0.17	< 0.17
Chrysene	ug/l	5	NS	NA	NA	NA	NA	NA	NA	NA	< 0.26	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	ug/l	0.3 [0.5]	NS	NA	NA	NA	NA	NA	NA	NA	< 0.58	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/l	NS	NS	< 0.38	< 0.25 J	< 0.52	< 0.3	< 0.32	< 0.31	< 0.3	< 0.49	< 0.37	< 0.37	< 0.34	< 0.39	< 0.25 J	< 0.51	< 0.34	< 0.32	< 0.31
Diethyl phthalate	ug/l	6000	NS	< 0.43	< 0.37 J	< 0.39	< 0.17	< 0.17	< 0.17	< 0.17	< 1.4	< 0.42	< 0.41	< 0.39	< 0.44	< 0.37 J	< 0.38	< 0.19	< 0.17	< 0.17
Dimethyl phthalate	ug/l	NS	NS	< 0.36	< 0.36 J	< 0.39	< 0.23	< 0.23	< 0.23	< 0.23	< 0.58	< 0.35	< 0.35	< 0.33	< 0.37	< 0.36 J	< 0.38	< 0.25	< 0.23	< 0.23
di-n-butyl phthalate	ug/l	700	NS	< 0.66	< 0.43 J	< 0.53	< 0.19	< 0.2	< 0.2	< 0.19	< 0.79	< 0.64	< 0.63	< 0.59	< 0.67	< 0.43 J	< 0.53	< 0.21	< 0.2	< 0.19
di-n-octylphthalate	ug/l	100	NS	< 0.63	< 0.51 J	< 0.53	< 0.4	< 0.41	< 0.41	< 0.4	< 0.63	< 0.61	< 0.61	< 0.57	< 0.64	< 0.51 J	< 0.52	< 0.44	< 0.41	< 0.4
Fluoranthene	ug/l	300	NS	NA	NA	NA	NA	NA	NA	NA	< 0.63	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	ug/l	300	NS	NA	NA	NA	NA	NA	NA	NA	< 0.89	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	ug/l	0.02 [10]	1	NA	NA	NA	NA	NA	NA	NA	< 1.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/l	1	NS	< 0.19	< 0.14 J	< 0.4	< 0.37	< 0.39	< 0.13	< 0.13	< 0.41	< 0.19	< 0.19	< 0.18	< 0.2	< 0.14 J	< 0.39	< 0.42	< 0.39	< 0.13
Hexachlorocyclopentadiene	ug/l	40	50	< 0.45	< 0.11 J	< 4.8	< 0.67	< 0.7	< 0.25	< 0.24	< 0.45	< 0.44	< 0.43	< 0.41	< 0.46	< 0.11 J	< 4.8	< 0.76	< 0.7	< 0.25
Hexachloroethane	ug/l	7	NS	< 0.31	< 0.17 J	< 0.32	< 0.26	< 0.27	< 0.22	< 0.21	< 0.67	< 0.3	< 0.3	< 0.28	< 0.32	< 0.17 J	< 0.32	< 0.3	< 0.27	< 0.21
Indeno(1,2,3-cd)pyrene	ug/l	0.2 [10]	NS	NA	NA	NA	NA	NA	NA	NA	< 1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophrone	ug/l	40	NS	< 0.65	< 0.53 J	< 0.74	< 0.25	< 0.26	< 0.26	< 0.25	< 0.54	< 0.63	< 0.63	< 0.59	< 0.66	< 0.53 J	< 0.73	< 0.28	< 0.26	< 0.25
Naphthalene	ug/l	300	NS	NA	NA	NA	NA	NA	NA	NA	< 1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	ug/l	6	NS	< 0.47	< 0.76 J	< 0.7	< 0.25	< 0.26	< 0.26	< 0.25	< 0.61	< 0.45	< 0.45	< 0.42	< 0.47	< 0.76 J	< 0.69	< 0.28	< 0.26	< 0.26
N-Nitroso-di-n-Propylamine	ug/l	10	NS	< 0.52	< 0.41 J	< 0.42	< 0.44	< 0.46	< 0.45	< 0.44	< 0.5	< 0.5	< 0.5	< 0.47	< 0.53	< 0.41 J	< 0.41	< 0.49	< 0.46	< 0.44
N-Nitrosodiphenylamine	ug/l	10	NS	< 0.57	< 0.45 J	< 0.65	< 0.22	< 0.22	< 0.22	< 0.22	< 0.8	< 0.55	< 0.55	< 0.52	< 0.58	< 0.45 J	< 0.64	< 0.24	< 0.22	< 0.22
Pentachlorophenol	ug/l	0.3 [1]	1	NA	NA	NA	NA	NA	NA	NA	< 0.75	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	< 0.23	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	ug/l	2000	NS	< 0.55	< 0.73 J	< 1.5	< 0.58	< 0.6	< 0.59	< 0.58	< 1.8	< 0.53	< 0.53	< 0.5	< 0.56	< 0.73 J	< 1.4	< 0.65	< 0.6	< 0.59
Pyrene	ug/l	200	NS	NA	NA	NA	NA	NA	NA	NA	< 0.58	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total TIC, Semi-Volatile	ug/l	NS	NS	0	17.7 J	0	0	0	0	4 J	0	0	0	0	0	0	0	0	0	7.4 J

Location ID		GWQS[1]	EPA	OB-17	OB-17	OB-17	OB-17	OB-17	OB-17	OB-17	OB-18	OB-18	OB-18	OB-18	OB-18	OB-18	OB-18	OB-18	OB-18
Sample ID			MCLs	OB-17(071010)	OB-17(080501)	OB-17(080911)	OB-17(070809)	OB-17(102309)	OB-17(052710)	OB-17(051911)	OB-18 (10/14/04)	OB-18	DUP(041007) (OB-18)	OB-18(041007)	OB-18(071010)	OB-18(080501)	OB-18(080911)	OB-18(070809)	OB-18(102309)	OB-18(052710)
Sample Date	Units			10/10/2007	5/1/2008	9/11/2008	7/8/2009	10/23/2009	5/27/2010	5/19/2011	10/11/2004	9/26/2006	4/10/2007	4/10/2007	10/10/2007	5/1/2008	9/11/2008	7/8/2009	10/23/2009	5/27/2010
SVOC BY SIM																				
Acenaphthene	ug/l	400	NS	< 0.019	< 0.017	< 0.017	< 0.016	< 0.03	< 0.03	< 0.014	NA	< 0.018	< 0.018	< 0.017	< 0.019	< 0.017	< 0.017	< 0.018	< 0.03	< 0.03
Acenaphthylene	ug/l	NS	NS	< 0.011	< 0.0075	< 0.0075	< 0.007	< 0.041	< 0.041	< 0.016	NA	< 0.01	< 0.01	< 0.0095	< 0.011	< 0.0075	< 0.0074	< 0.0079	< 0.041	< 0.04
Anthracene	ug/l	2000	NS	< 0.023	< 0.023	< 0.022	< 0.021	< 0.027	< 0.026	< 0.01	NA	< 0.022	< 0.022	< 0.021	< 0.023	< 0.023	< 0.022	< 0.024	< 0.027	< 0.026
Benzo(a)anthracene	ug/l	0.1 [0.2]	NS	< 0.0076	< 0.036	< 0.036	< 0.034	< 0.025	< 0.024	< 0.015	NA	< 0.0073	< 0.0072	< 0.0068	< 0.0076	< 0.036	< 0.035	< 0.038	< 0.025	< 0.024
Benzo(a)pyrene	ug/l	0.1 [0.2]	0.2	< 0.019	< 0.038	< 0.038	< 0.036	< 0.032	< 0.032	< 0.0049	NA	< 0.018	< 0.018	< 0.017	< 0.019	< 0.038	< 0.037	< 0.04	< 0.032	< 0.031
Benzo(b)fluoranthene	ug/l	0.2 [10]	NS	< 0.04	< 0.018	< 0.018	< 0.017	< 0.037	< 0.037	< 0.016	NA	< 0.039	< 0.039	< 0.036	< 0.041	< 0.018	< 0.018	< 0.019	< 0.037	< 0.037
Benzo(g,h,i)perylene	ug/l	NS	NS	< 0.02	< 0.013	< 0.013	< 0.012	< 0.03	< 0.03	< 0.01	NA	< 0.019	< 0.019	< 0.018	< 0.02	< 0.013	< 0.012	< 0.013	< 0.03	< 0.029
Benzo(k)fluoranthene	ug/l	0.5	NS	< 0.017	< 0.02	< 0.02	< 0.019	< 0.029	< 0.029	< 0.013	NA	< 0.017	< 0.017	< 0.016	< 0.018	< 0.02	< 0.02	< 0.021	< 0.029	< 0.029
Chrysene	ug/l	5	NS	< 0.019	< 0.019	< 0.019	< 0.018	< 0.023	< 0.023	< 0.023	NA	< 0.018	< 0.018	< 0.017	< 0.019	< 0.019	< 0.019	< 0.02	< 0.023	< 0.022
Dibenzo(a,h)anthracene	ug/l	0.3 [0.5]	NS	< 0.018	< 0.022	< 0.022	< 0.02	< 0.023	< 0.023	< 0.023	NA	< 0.018	< 0.017	< 0.016	< 0.018	< 0.022	< 0.021	< 0.023	< 0.023	< 0.023
Fluoranthene	ug/l	300	NS	< 0.01	< 0.01	< 0.01	< 0.0096	< 0.025	< 0.025	< 0.0096	NA	< 0.0097	< 0.0096	< 0.009	< 0.01	< 0.01	< 0.01	< 0.011	< 0.025	< 0.025
Fluorene	ug/l	300	NS	< 0.022	< 0.021	< 0.021	< 0.02	< 0.028	< 0.028	< 0.015	NA	< 0.022	< 0.021	< 0.02	< 0.023	< 0.021	< 0.021	< 0.022	< 0.028	< 0.027
Hexachlorobenzene	ug/l	0.02 [10]	1	< 0.022	< 0.011	< 0.011	< 0.0099	< 0.01	< 0.01	< 0.008	NA	< 0.065	< 0.021	< 0.02	< 0.022	< 0.011	< 0.01	< 0.011	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	ug/l	0.2 [10]	NS	< 0.012	< 0.015	< 0.015	< 0.014	< 0.03	< 0.03	< 0.011	NA	< 0.012	< 0.012	< 0.011	< 0.012	< 0.015	< 0.015	< 0.016	< 0.03	< 0.03
Naphthalene	ug/l	300	NS	< 0.029	< 0.015	< 0.015	< 0.014	< 0.019	< 0.019	< 0.016	NA	< 0.028	< 0.027	< 0.026	< 0.029	< 0.015	< 0.015	< 0.016	< 0.019	< 0.019
Pentachlorophenol	ug/l	0.3 [1]	1	< 0.33	< 0.24	< 0.24	< 0.22	< 0.23	< 0.07	< 0.29	NA	< 0.43	< 0.32	< 0.3	< 0.34	< 0.24	< 0.23	< 0.25	< 0.23	< 0.069
Phenanthrene	ug/l	NS	NS	< 0.023	< 0.018	< 0.018	< 0.017	< 0.038	< 0.037	< 0.016	NA	< 0.023	< 0.022	< 0.021	< 0.024	< 0.018	< 0.018	< 0.019	< 0.038	< 0.037
Pyrene	ug/l	200	NS	< 0.016	< 0.013	< 0.013	< 0.012	< 0.023	< 0.023	< 0.0081	NA	< 0.015	< 0.015	< 0.014	< 0.016	< 0.013	< 0.013	< 0.014	< 0.023	< 0.023
PCBs																				
PCB 1016	ug/l	0.5	0.5	< 0.094	< 0.099	< 0.094	< 0.2	< 0.3	< 0.34	< 0.13	< 0.075 J	< 0.099	< 0.094	< 0.1	< 0.094	< 0.099	< 0.094	< 0.19	< 0.3	< 0.33
PCB 1221	ug/l	0.5	0.5	< 0.47	< 0.49	< 0.47	< 0.32	< 0.41	< 0.46	< 0.27	< 0.085	< 0.49	< 0.47	< 0.52	< 0.47	< 0.49	< 0.47	< 0.31	< 0.41	< 0.45
PCB 1232	ug/l	0.5	0.5	< 0.39	< 0.41	< 0.39	< 0.22	< 0.31	< 0.35	< 0.39	< 0.12	< 0.41	< 0.39	< 0.43	< 0.39	< 0.41	< 0.39	< 0.21	< 0.31	< 0.34
PCB 1242	ug/l	0.5	0.5	< 0.16	< 0.17	< 0.16	< 0.094	< 0.27	< 0.3	< 0.086	< 0.13	< 0.17	< 0.16	< 0.18	< 0.16	< 0.17	< 0.16	< 0.089	< 0.27	< 0.3
PCB 1248	ug/l	0.5	0.5	< 0.15	< 0.16	< 0.15	< 0.27	< 0.28	< 0.31	< 0.15	< 0.072	< 0.16	< 0.15	< 0.17	< 0.15	< 0.16	< 0.15	< 0.25	< 0.28	< 0.31
PCB 1254	ug/l	0.5	0.5	< 0.11	< 0.11	< 0.11	< 0.12	< 0.18	< 0.2	< 0.14	< 0.072	< 0.11	< 0.11	< 0.12	< 0.11	< 0.11	< 0.11	< 0.11	< 0.18	< 0.2
PCB 1260	ug/l	0.5	0.5	< 0.12	< 0.12	< 0.12	< 0.15	< 0.14	< 0.16	< 0.21	< 0.1	< 0.12	< 0.12	< 0.13	< 0.12	< 0.12	< 0.12	< 0.14	< 0.14	< 0.15
Total PCBs	ug/l	0.5	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pesticides/Herbicides																				
4,4-DDD	ug/l	0.1	NS	NA	NA	NA	NA	NA	NA	NA	< 0.017	< 0.0025	NA	NA	NA	NA	NA	NA	NA	NA
4,4-DDE	ug/l	0.1	NS	NA	NA	NA	NA	NA	NA	NA	< 0.0041	< 0.0018	NA	NA	NA	NA	NA	NA	NA	NA
4,4-DDT	ug/l	0.1	NS	NA	NA	NA	NA	NA	NA	NA	< 0.018	< 0.0052	NA	NA	NA	NA	NA	NA	NA	NA
Aldrin	ug/l	0.04	NS	NA	NA	NA	NA	NA	NA	NA	< 0.0079	< 0.0035	NA	NA	NA	NA	NA	NA	NA	NA
alpha-BHC	ug/l	0.02	NS	NA	NA	NA	NA	NA	NA	NA	< 0.013	< 0.0027	NA	NA	NA	NA	NA	NA	NA	NA
alpha-Chlordane	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	< 0.018	< 0.0046	NA	NA	NA	NA	NA	NA	NA	NA
beta-BHC	ug/l	0.04	NS	NA	NA	NA	NA	NA	NA	NA	< 0.0086 J	< 0.0065	NA	NA	NA	NA	NA	NA	NA	NA
delta-BHC	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	< 0.0098	< 0.0033	NA	NA	NA	NA	NA	NA	NA	NA
Dieldrin	ug/l	0.03	NS	NA	NA	NA	NA	NA	NA	NA	< 0.013	< 0.0018	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan I (alpha)	ug/l	40	NS	NA	NA	NA	NA	NA	NA	NA	< 0.0029	< 0.0022	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan II (beta)	ug/l	40	NS	NA	NA	NA	NA	NA	NA	NA	< 0.0028	< 0.0034	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan sulfate	ug/l	40	NS	NA	NA	NA	NA	NA	NA	NA	< 0.013	< 0.0049	NA	NA	NA	NA	NA	NA	NA	NA
Endrin	ug/l	2	2	NA	NA	NA	NA	NA	NA	NA	< 0.011	< 0.0032	NA	NA	NA	NA	NA	NA	NA	NA
Endrin Aldehyde	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	< 0.02 J	< 0.0068	NA	NA	NA	NA	NA	NA	NA	NA
Endrin ketone	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	< 0.0053 J	< 0.0037	NA	NA	NA	NA	NA	NA	NA	NA
gamma-Chlordane	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	< 0.013	< 0.0018	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor	ug/l	0.05	0.4	NA	NA	NA	NA	NA	NA	NA	< 0.0059	< 0.0027	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor epoxide	ug/l	0.2	0.2	NA	NA	NA	NA	NA	NA	NA	< 0.011	< 0.0015	NA	NA	NA	NA	NA	NA	NA	NA
Lindane	ug/l	0.03	0.2	NA	NA	NA	NA	NA	NA	NA	< 0.0026	< 0.0018	NA	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	ug/l	40	40	NA	NA	NA	NA	NA	NA	NA	< 0.012	< 0.0071	NA	NA	NA	NA	NA	NA	NA	NA
Toxaphene	ug/l	2	3	NA	NA	NA	NA	NA	NA	NA	< 0.25	< 0.099	NA	NA	NA	NA	NA	NA	NA	NA

Location ID		GWQS[1]	EPA	OB-17	OB-17	OB-17	OB-17	OB-17	OB-17	OB-17	OB-18	OB-18	OB-18	OB-18	OB-18	OB-18	OB-18	OB-18	OB-18
Sample ID			MCLs	OB-17(071010)	OB-17(080501)	OB-17(080911)	OB-17(070809)	OB-17(102309)	OB-17(052710)	OB-17(051911)	OB-18 (10/14/04)	OB-18	DUP(041007) (OB-18)	OB-18(041007)	OB-18(071010)	OB-18(080501)	OB-18(080911)	OB-18(070809)	OB-18(102309)	OB-18(052710)
Sample Date	Units			10/10/2007	5/1/2008	9/11/2008	7/8/2009	10/23/2009	5/27/2010	5/19/2011	10/11/2004	9/26/2006	4/10/2007	4/10/2007	10/10/2007	5/1/2008	9/11/2008	7/8/2009	10/23/2009	5/27/2010
Metals - Total																				
Aluminum	ug/l	200	NS	< 26	< 24	**683**	85.5 B	< 26	< 7.8	< 200	< 200	< 110	< 23	< 23	**262**	< 24	< 114 J	**420**	57.3 B	< 7.8
Antimony	ug/l	6	6	< 0.9	< 1.8	2.5 B	< 4	< 2.9	< 2.2	< 1.3	< 5	< 4.4	< 5	< 5	< 0.9	< 1.8	< 1.8	< 4	< 2.9	< 2.2
Arsenic	ug/l	3 [8]	10	2.5 B	< 1.7	< 1.7	< 2.4	< 2.4	1.9 B	< 0.92	< 5	< 1.5	< 1.5	< 1.5	< 1.1	< 1.7	< 1.7	< 2.4	< 2.4	< 1.4
Barium	ug/l	6000	2000	15.1 B	9.6 B	38.6 BJ	11.3 B	12 B	12.1 B	4 J	< 200	7.7 B	6.6 B	7.6 B	8.6 B	6.5 B	8.5 BJ	9.4 B	8.5 B	7 B
Beryllium	ug/l	1	4	< 0.15	< 0.15	< 0.15	< 0.4	< 0.4	< 0.24	< 0.24	< 5	< 0.5	< 0.4	< 0.4	< 0.15	< 0.15	< 0.15	< 0.4	< 0.4	< 0.24
Cadmium	ug/l	4	5	< 0.24	< 0.28	< 0.28	1 B	< 0.4	< 0.35	< 0.17	< 4	< 0.6	< 1.3	< 1.3	< 0.24	< 0.28	< 0.28	0.4 B	< 0.4	< 0.35
Calcium	ug/l	NS	NS	98300	65300	18700 J	89000	94300	91600	19300	43400	39900	46800	47900	45500	45100	34900 J	48700	44700	45300
Chromium	ug/l	70	100	1.3 B	0.8 B	< 5.3	< 10	1.1 B	1.5 B	< 0.9	< 10	1.9 B	< 0.8	< 0.8	1.6 B	0.9 B	< 1.5	< 10	2.6 B	1.6 B
Cobalt	ug/l	NS	NS	2.9 B	1 B	< 0.51	< 0.4	< 1.6	< 0.65	< 50	< 50	< 1.7	< 1.8	< 1.8	1.7 B	< 0.51	< 0.51	< 0.4	< 1.6	< 0.65
Copper	ug/l	1,300	1300	< 3.3	< 2.5	18.9	< 2	< 1.6	< 2.5	< 0.85	< 25	< 2.3	< 2.7	< 2.7	< 3.3	< 2.5	< 2.5	< 2	< 1.6	< 2.5
Iron	ug/l	300	NS	**3830**	**1570**	79.9 BJ	**3130**	**1730**	**2620**	**1350**	< 100	78.5 B	< 25	< 25	251	18.1 B	< 66.8 J	**490 J**	85.4 B	25 B
Lead	ug/l	5	15	1.7 B	2.3 B	< 1.4	< 1.7	< 1.7	< 1.9	< 3	< 3	< 2.6	< 2.8	< 2.8	1.2 B	< 1.4	< 1.4	< 1.7	< 1.7	< 1.9
Magnesium	ug/l	NS	NS	31100	22400	5660	28700	29400	29100	5910	8590	8120	9520	9770	9020	9630	7420	10200	8980	9430
Manganese	ug/l	50	NS	**669**	**472**	**64.5**	**496**	**462**	**538**	**165**	< 15	< 0.4	0.77 BJ	1.5 BJ	9.4 B	0.8 B	4.9 BJ	9.8 B	8.5 B	< 0.46
Mercury	ug/l	2	2	< 0.15	< 0.15	< 0.049	< 0.049	< 0.082	< 0.082	< 0.088	< 0.2	< 0.08	< 0.037	< 0.037	< 0.15	< 0.15	< 0.049	< 0.049	< 0.082	< 0.082
Nickel	ug/l	100	NS	0.9 B	< 1.2	< 2.4	< 10	< 10	1.7 B	< 10	< 40	< 1.6	< 2.8	< 2.8	< 0.73	< 1.2	< 1.2	< 10	< 10	0.7 B
Potassium	ug/l	NS	NS	893 B	682 B	1260 B	834 B	878 B	795 B	756 B	< 5000	358 B	310 B	354 B	445 B	< 48 B	288 B	521 B	427 B	369 B
Selenium	ug/l	40	50	< 0.73	< 1.6	< 1.6	< 3.7	< 3.7	3 B	< 1.5	< 5	< 3	< 6.2	< 6.2	< 0.73	< 1.6	< 1.6	< 3.7	< 3.7	< 1.9
Silver	ug/l	40	NS	< 0.83	< 1	< 1	< 1	< 1	< 0.53	< 0.72	< 10	< 1.9	< 1	< 1	< 0.83	< 1	< 1	< 1	< 1	< 0.53
Sodium	ug/l	50,000	NS	17200	12200	4950 B	15000	16800	15400	6540 B	6690	6600 BJ	6260 BJ	6370 BJ	6160 B	6090 B	5230 B	6210 B	6490 B	6150 B
Thallium	ug/l	2 [10]	2	< 1.4	< 1.3	< 1.3	< 1.5	< 1.5	< 1.8	< 0.17	< 10	< 0.09	< 0.09	< 0.09	< 1.4	< 1.3	< 1.3	< 1.5	< 1.5	< 1.8
Vanadium	ug/l	NS	NS	< 0.49	< 0.43	< 0.43	< 0.9	< 0.9	< 0.56	< 0.43	< 50	< 1.9	< 1.8	< 1.8	< 0.49	< 0.43	< 0.43	< 0.9	< 0.9	< 0.56
Zinc	ug/l	2000	NS	< 2.7	< 4	< 4	< 2.9	4.2 B	< 20	15.6 B	< 20	< 3.3	5.7 B	5.7 B	< 2.7	< 4	< 4	< 20	5.3 B	< 20
Metals - Dissolved																				
Aluminum	ug/l	200	NS	< 26	< 24	< 24	80.3 B	< 26	< 7.8	< 200	< 200	< 110	< 23	< 23	< 26	< 24	< 24	45 B	< 26	26.6 J
Antimony	ug/l	6	6	< 0.9	< 1.8	< 2.1	< 4	< 2.9	< 2.2	< 1.3	< 5	< 4.4	< 5	< 5	< 0.9	< 1.8	< 1.8	< 4	< 2.9	< 2.2
Arsenic	ug/l	3 [8]	10	< 1.1	< 1.7	< 1.7	< 2.4	< 2.4	< 1.4	< 0.92	< 5	< 1.5	< 1.5	< 1.5	< 1.1	< 1.7	< 1.7	< 2.4	< 2.4	< 1.4
Barium	ug/l	6000	2000	13.4 B	8.9 B	6.6 J	11 B	11.3 B	11 B	3.8 J	< 200	5.8 B	6.6 B	7.3 B	7.7 B	6.5 B	7.2 J	6.9 B	7.7 B	6.6 B
Beryllium	ug/l	1	4	< 0.15	< 0.15	< 0.15	< 0.4	< 0.4	< 1	< 0.24	< 5	< 0.5	< 0.4	< 0.4	< 0.15	< 0.15	< 0.15	< 0.4	< 0.4	< 0.24
Cadmium	ug/l	4	5	< 0.24	< 0.28	< 0.28	1.3 B	< 0.4	< 0.35	< 0.17	< 4	< 0.6	< 1.3	< 1.3	< 0.24	< 0.28	< 0.28	0.5 B	< 0.4	< 0.35
Calcium	ug/l	NS	NS	95600	65100	19400 J	91100	94100	91200	18800	42400	40400	45100	44600	47900	45200	35400 J	47100	44800	43000
Chromium	ug/l	70	100	1 B	1 B	< 0.53	< 0.9	1.2 B	1 B	< 0.9	< 10	< 1.6	< 0.8	< 0.8	1.9 B	1.2 B	< 1	< 10	1.9 B	2 B
Cobalt	ug/l	NS	NS	3 B	1.1 B	< 0.51	< 0.4	< 1.6	< 0.65	< 0.3	< 50	< 1.7	< 1.8	< 1.8	1.6 B	< 0.51	< 0.51	< 0.4	< 1.6	< 0.65
Copper	ug/l	1,300	1300	3.5 B	< 2.5	< 2.5	< 2	< 1.6	< 2.5	< 0.85	< 25	< 2.3	< 2.7	< 2.7	< 3.3	< 2.5	< 2.5	< 2	< 1.6	< 2.5
Iron	ug/l	300	NS	**419**	200	< 25	**1430**	110	**310**	106 J	< 100	< 67	< 25	< 25	< 6.3	< 7.4	< 18 J	< 100	< 12	23 J
Lead	ug/l	5	15	< 0.94	2.4 B	< 1.4	< 1.7	< 1.7	< 1.9	< 3	< 3	< 2.6	< 2.8	< 2.8	1 B	1.8 B	< 1.4	< 1.7	< 1.7	< 1.9
Magnesium	ug/l	NS	NS	30200	22200	5820	28800	29200	29600	5720	8390	8080	9300	9120	9340	9650	7500	9650	9010	9130
Manganese	ug/l	50	NS	**610**	**463**	**57.6**	**493**	**457**	**533**	**160**	< 15	< 0.4	< 0.6	< 0.6	< 0.17	0.5 B	< 1.4	< 15	< 15	< 0.46
Mercury	ug/l	2	2	< 0.15	< 0.15	< 0.049	< 0.049	< 0.082 J	< 0.082	< 0.088	< 0.2	< 0.08	< 0.037	< 0.037	< 0.15	0.17 B	< 0.049	< 0.049	< 0.082 J	< 0.082
Nickel	ug/l	100	NS	< 0.73	< 1.2	< 1.2	< 10	< 10	1.6 B	< 10	< 40	< 1.6	< 2.8	< 2.8	0.9 B	< 1.2	< 1.2	< 0.6	< 10	1.2 B
Potassium	ug/l	NS	NS	887 B	682 B	1170 B	824 B	870 B	801 B	795 B	< 5000	345 B	307 B	319 B	380 B	< 48 B	246 B	382 B	417 B	370 B
Selenium	ug/l	40	50	< 0.73	< 1.6	< 1.6	< 3.7	< 3.7	3.3 B	< 1.5	< 5	< 3	< 6.2	< 6.2	< 0.73	< 1.6	< 1.6	< 3.7	< 3.7	< 1.9
Silver	ug/l	40	NS	< 0.83	< 1	< 1	< 1	< 1	< 0.53	< 0.72	< 10	< 1.9	< 1	< 1	< 0.83	< 1	< 1	< 1	< 1	< 0.53
Sodium	ug/l	50,000	NS	16800	12200	5090 B	15200	16500	15500	6390 B	6540	6470 BJ	6250 BJ	6060 BJ	6490 B	6150 B	5300 B	6000 B	6450 B	5900 B
Thallium	ug/l	2 [10]	2	< 1.4	< 1.3	< 1.3	< 1.5	< 1.5	< 1.8	< 0.17	< 10	< 0.09	< 0.09	< 0.09	< 1.4	< 1.3	< 1.3	< 1.5	< 1.5	< 1.8
Vanadium	ug/l	NS	NS	< 0.49	< 0.43	< 0.43	< 0.9	< 0.9	< 0.56	< 0.43	< 50	< 1.9	< 1.8	< 1.8	< 0.49	< 0.43	< 0.43	< 0.9	< 0.9	< 0.56
Zinc	ug/l	2000	NS	< 2.7	< 4	< 4	< 2.9	4.2 B	< 20	15.6 B	< 20	< 3.3	5.7 B	5.7 B	< 2.7	< 4	< 4	< 20	5.3 B	< 20
Other																				
Alkalinity, Bicarbonate	ug/l	NS	NS	326000	224000	67500	NA	NA	NA	NA	NA	123000	163000	165000	157000	151000	127000	NA	NA	NA
Alkalinity, Carbonate	ug/l	NS	NS	< 5000	< 5000	< 5000	NA	NA	NA	NA	NA	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	NA	NA	NA
Alkalinity, total (as CaCO3)	ug/l	NS	NS	326000	224000	67500	220000	349000	341000	65300	NA	NA	164000	166000	157000	151000	127000	159000	155000	150000
BOD, 5 Day	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromide	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	ug/l	250000	NS	6200	7700	5900	7100	6800	7800	8300	NA	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000
COD	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide	ug/l	100	200	< 10	< 10	< 10	NA	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	21	NA	NA	NA
Nitrate	ug/l	10000	10000	< 110	< 110	260 J	NA	NA	NA	NA	NA	150	< 110	< 110	< 110	< 110	< 110 J	NA	NA	NA
Nitrogen, Nitrate + Nitrite	ug/l	10000	NS	< 100	< 100	260	NA	NA	NA	NA	NA	150	< 100	< 100	< 100	100	< 100	NA	NA	NA
Nitrogen, Nitrite	ug/l	1000	1000	< 10	< 10	< 10 J	NA	NA	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10 J	NA	NA	NA
Phosphorus, Total	ug/l	NS	NS	< 50	< 50	< 50	NA	NA	NA	NA	NA	< 50	< 50	< 50	< 50	< 50	59	NA	NA	NA
Sulfate	ug/l	250000	NS	41200	32400	14100	46900	46500	44000	10200	NA	15200	14900	15000	13900	13900	14500	15200	14100	14500
Total Dissolved Solids	ug/l	500000	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total organic carbon	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See footnotes on last page

Location ID		GWQS[1]	EPA	OB-18	OB-19	OB-19	OB-19	OB-19	OB-19	OB-19	OB-19	OB-19	OB-19	OB-19	OB-20A	OB-20A	OB-20A	OB-20A	OB-20A	OB-20A
Sample ID			MCLs	OB-18(051911)	MW-19	OB-19(040907)	DUP(071015)	OB-19(071015)	OB-19(080429)	OB-19(080912)	OB-19(070709)	OB-19(102709)	OB-19(060110)	OB-19 (052011)	MW-20	OB-20A(040307)	OB-20A (071011)	OB-20A(080429)	OB-20A(080915)	OB-20A(070909)
Sample Date	Units			5/19/2011	10/3/2006	4/9/2007	10/15/2007	10/15/2007	4/29/2008	9/12/2008	7/7/2009	10/27/2009	6/1/2010	5/20/2011	10/4/2006	4/3/2007	10/11/2007	4/29/2008	9/15/2008	7/9/2009
VOC																				
1,1,1,2-Tetrachloroethane	ug/l	1	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/l	30	200	< 0.2	< 0.28	< 0.28	< 0.3	< 0.3	< 0.24	< 0.24	< 0.26	< 0.26	< 0.26	< 0.2	< 0.28	< 0.28	< 0.3	< 0.24	< 0.24	< 0.26
1,1,2,2-Tetrachloroethane	ug/l	1	NS	< 0.12	< 0.28	< 0.28	< 0.8	< 0.8	< 0.13	< 0.13	< 0.24	< 0.24	< 0.24	< 0.12	< 0.28	< 0.28	< 0.8	< 0.13	< 0.13	< 0.24
1,1,2-Trichloroethane	ug/l	3	5	< 0.13	< 0.32	< 0.32	< 0.49	< 0.49	< 0.17	< 0.17	< 0.23	< 0.23	< 0.23	< 0.13	< 0.32	< 0.32	< 0.49	< 0.17	< 0.17	< 0.23
1,1-Dichloroethane	ug/l	50	NS	< 0.16	< 0.23	< 0.23	< 0.2	< 0.2	< 0.16	< 0.24	1	< 0.29	< 0.29	0.54 J	< 0.23	< 0.23	< 0.2	0.63 J	< 0.24	< 0.29
1,1-Dichloroethene	ug/l	1	7	< 0.24	< 0.33	< 0.33	< 0.28	< 0.28	< 0.29	< 0.29	< 0.4	< 0.4	< 0.4	< 0.24	< 0.33	< 0.33	< 0.28	< 0.29	< 0.29	< 0.4
1,2,4-Trichlorobenzene	ug/l	9	70	< 0.16	< 0.16	< 0.16	< 0.41	< 0.41	< 1.3	< 1.3	< 0.56	< 0.56	< 0.56	< 0.16	< 0.16	< 0.16	< 0.41	< 1.3	< 1.3	< 0.56
1,2-Dibromo-3-Chloropropane (DBCP)	ug/l	0.02 [1]	0.2	< 1.2	< 1.1	< 1.1	< 0.8	< 0.8	< 2.4	< 1.3	< 1.1	< 1.1	< 1.1	< 1.2	< 1.1	< 1.1	< 0.8	< 2.4	< 1.3	< 1.1
1,2-Dibromoethane	ug/l	0.03 [0.5]	0.05	< 0.39	< 0.52	< 0.52	< 0.45	< 0.45	< 0.17	< 0.18	< 0.39	< 0.39	< 0.39	< 0.39	< 0.52	< 0.52	< 0.45	< 0.17	< 0.18	< 0.39
1,2-Dichlorobenzene	ug/l	600	600	< 0.15	< 0.2	< 0.2	< 0.2	< 0.2	< 0.18	< 0.18	< 0.26	< 0.26	< 0.26	< 0.15	< 0.2	< 0.2	< 0.2	< 0.18	< 0.18	< 0.26
1,2-Dichloroethane	ug/l	2	5	< 0.31	< 0.29	< 0.29	< 0.29	< 0.29	< 0.35	< 0.35	< 0.33	< 0.33	< 0.33	< 0.31	< 0.29	< 0.29	< 0.29	< 0.35	< 0.35	< 0.33
1,2-Dichloropropane	ug/l	1	5	< 0.23	< 0.2	< 0.2	< 0.24	< 0.24	< 0.18	< 0.18	< 0.27	< 0.27	< 0.27	< 0.23	< 0.2	< 0.2	< 0.24	< 0.18	< 0.18	< 0.27
1,3-Dichlorobenzene	ug/l	600	NS	< 0.19	< 0.32	< 0.32	< 0.21	< 0.21	< 0.26	< 0.26	< 0.25	< 0.25	< 0.25	< 0.19	< 0.32	< 0.32	< 0.21	< 0.26	< 0.26	< 0.25
1,4-Dichlorobenzene	ug/l	75	75	< 0.22	< 0.24	< 0.24	< 0.17	< 0.17	< 0.32	< 0.22	< 0.28	< 0.28	< 0.28	< 0.22	< 0.24	< 0.24	< 0.17	< 0.32	< 0.22	< 0.28
2-Butanone (MEK)	ug/l	300	NS	< 1.7	< 2.6	< 2.6	< 2.7	< 2.7	< 2.3	< 2.3	< 1.6	< 1.6	< 1.6	< 1.7	< 2.6	< 2.6	< 2.7	< 2.3	< 2.3	< 1.6
2-Hexanone	ug/l	NS	NS	< 1.9	< 1.3	< 1.3	< 0.94	< 0.94	< 1.7	< 1.7	< 1.4	< 1.4	< 1.4	< 1.9	< 1.3	< 1.3	< 0.94	< 1.7	< 1.7	< 1.4
4-methyl-2-pentanone (MIBK)	ug/l	NS	NS	< 0.74	< 1.1	< 1.1	< 1.4	< 1.4	< 1.9	< 1.3	< 0.86	< 0.86	< 0.86	< 0.74	< 1.1	< 1.1	< 1.4	< 1.9	< 1.3	< 0.86
Acetone	ug/l	6000	NS	< 4.4	< 2.4	< 2.4	< 2.9	< 2.9	< 2.1	< 2.1	< 2.9	< 2.9	< 2.9	< 4.4	< 2.4	< 2.4	< 2.9	< 2.1	< 2.1	< 2.9
Benzene	ug/l	1	5	< 0.26	0.55 J	0.59 J	< 0.19	< 0.19	0.56 J	0.37 J	**1.2**	0.39 J	0.29 J	0.9 J	0.36 J	0.48 J	0.36 J	< 0.26	< 0.26	< 0.23
Bromodichloromethane	ug/l	1	80	< 0.18	< 0.17	< 0.17	< 0.15	< 0.15	< 0.14	< 0.14	< 0.22	< 0.22	< 0.22	< 0.18	< 0.17	< 0.17	< 0.15	< 0.14	< 0.14	< 0.22
Bromoform	ug/l	4	80	< 0.42	< 0.54	< 0.54	< 0.34	< 0.34	< 0.18	< 0.18	< 0.23	< 0.23	< 0.23	< 0.42	< 0.54	< 0.54	< 0.34	< 0.18	< 0.18	< 0.23
Bromomethane	ug/l	10	NS	< 0.24	< 0.22	< 0.22	< 0.38	< 0.38	< 0.32	< 0.32	< 0.3	< 0.3 J	< 0.3	< 0.24	< 0.22	< 0.22	< 0.38	< 0.32	< 0.32	< 0.3
Carbon disulfide	ug/l	700	NS	< 0.13	< 0.21	< 0.21	< 0.14	< 0.14	< 0.15	< 0.16	< 0.74	< 0.74	< 0.74	< 0.13	< 0.21	< 0.21	< 0.14	< 0.15	< 0.16	< 0.74
Carbon tetrachloride	ug/l	1	5	< 0.35	< 0.29	< 0.29	< 0.19	< 0.19	< 0.18	< 0.18	< 0.26	< 0.26	< 0.26	< 0.35	< 0.29	< 0.29	< 0.19	< 0.18	< 0.18	< 0.26
Chlorobenzene	ug/l	50	100	< 0.15	< 0.22	< 0.22	< 0.19	< 0.19	< 0.14	< 0.19	< 0.39	< 0.39	< 0.39	0.22 J	< 0.22	< 0.22	< 0.19	< 0.14	< 0.19	< 0.39
Chloroethane	ug/l	NS	NS	< 0.25	3.1	1.5	< 0.67	< 0.67	1.5	4.3	6.2	1.4 J	< 0.37	2.8	< 0.56	< 0.56	< 0.67	< 0.22	< 0.22	< 0.37
Chloroform	ug/l	70	80	< 0.14	< 0.22	< 0.22	< 0.25	< 0.25	< 0.16	< 0.16	< 0.23	< 0.23	< 0.23	< 0.14	< 0.22	< 0.22	< 0.25	< 0.16	< 0.16	< 0.23
Chloromethane	ug/l	NS	NS	< 0.34	< 0.35	< 0.35	< 0.3	< 0.3	< 0.29	< 0.29	< 0.29	< 0.29 J	< 0.29	< 0.34	< 0.35	< 0.35	< 0.3	< 0.29	< 0.29 J	< 0.29
cis-1,2-Dichloroethene	ug/l	70	70	< 0.24	< 0.18	< 0.18	< 0.27	< 0.27	< 0.19	< 0.25	< 0.22	< 0.22	< 0.22	< 0.24	< 0.18	< 0.18	< 0.27	< 0.19	< 0.25	< 0.22
cis-1,3-Dichloropropene	ug/l	NS	NS	< 0.16	< 0.15	< 0.15	< 0.13	< 0.13	< 0.15	< 0.18	< 0.25	< 0.25	< 0.25	< 0.16	< 0.15	< 0.15	< 0.13	< 0.15	< 0.18	< 0.25
Cyclohexane	ug/l	NS	NS	< 0.43	< 0.5	< 0.5	< 0.85	< 0.85	< 0.85	< 0.85	< 1.9	< 1.9	< 1.9	< 0.43	< 0.5	< 0.5	< 0.85	< 0.85	< 0.85	< 1.9
Dibromochloromethane	ug/l	1	80	< 0.16	< 0.19	< 0.19	< 0.28	< 0.28	< 0.12	< 0.16	< 0.22	< 0.22	< 0.22	< 0.16	< 0.19	< 0.19	< 0.28	< 0.12	< 0.16	< 0.22
Dichlorodifluoromethane	ug/l	1,000	NS	< 0.39	< 0.75	< 0.75	< 1	< 1	< 0.88	< 0.88	< 0.92	< 0.92	< 0.92	< 0.39	< 0.75	< 0.75	< 1	< 0.88	< 0.88	< 0.92
Ethylbenzene	ug/l	700	700	< 0.31	< 0.2	< 0.2	< 0.21	< 0.21	< 0.27	< 0.27	0.38 J	< 0.27	< 0.27	< 0.31	< 0.2	< 0.2	< 0.21	< 0.27	< 0.27	< 0.27
Freon 113	ug/l	NS	NS	< 0.66	< 0.69	< 0.69	< 1.2	< 1.2	< 0.8	< 0.8	< 0.38	< 0.38	< 0.38	< 0.66	< 0.69	< 0.69	< 1.2	< 0.8	< 0.8	< 0.38
Isopropylbenzene	ug/l	700	NS	< 0.31	< 0.2	0.5 J	< 0.54	< 0.54	0.59 J	< 0.19	< 0.57	< 0.57	< 0.57	0.61 J	< 0.2	< 0.2	< 0.54	< 0.15	< 0.19	< 0.57
Methyl acetate	ug/l	7000	NS	< 1.3	< 2.1	< 2.1	< 1.6	< 1.6	< 2.5	< 1.7	< 1.5	< 1.5	< 1.5	< 1.3	< 2.1	< 2.1	< 1.6	< 2.5	< 1.7	< 1.5
Methyl tert butyl ether	ug/l	70	NS	< 0.2	< 0.31	< 0.31	< 0.2	< 0.2	< 0.14	< 0.16	< 0.23	< 0.23	< 0.23	< 0.2	< 0.31	< 0.31	< 0.2	< 0.14	< 0.16	< 0.23
Methylcyclohexane	ug/l	NS	NS	< 0.16	< 0.18	< 0.18	< 0.5	< 0.5	< 0.11	< 0.11	< 0.35	< 0.35	< 0.35	< 0.16	< 0.18	< 0.18	< 0.5	< 0.11	< 0.11	< 0.35
Methylene chloride	ug/l	3	5	< 0.2	< 0.27	< 0.27	< 0.21	< 0.21	< 0.16	< 0.16	< 0.3	< 0.3	< 0.3	< 0.2	< 0.27	< 0.27	< 0.21	< 0.16	< 0.16	< 0.3
o-Xylene	ug/l	NS	NS	NA	< 0.31	< 0.31	< 0.2	< 0.2	0.81 J	< 0.45	0.84 J	< 0.25	NA	NA	< 0.31	< 0.31	< 0.2	< 0.45	< 0.45	< 0.25
Styrene	ug/l	100	100	< 0.48	< 0.16	< 0.16	< 0.2	< 0.2	< 0.11	< 0.17	< 0.58	< 0.58	< 0.58	< 0.48	< 0.16	< 0.16	< 0.2	< 0.11	< 0.17	< 0.58
Tertiary Butyl Alcohol	ug/l	100	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	ug/l	1	5	< 0.24	< 0.28	< 0.28	< 0.28	< 0.28	< 0.29	< 0.29	< 0.27	< 0.27	< 0.27	< 0.24	< 0.28	< 0.28	< 0.28 J	< 0.29	< 0.29	< 0.27
Toluene	ug/l	600	1000	< 0.27	< 0.2	< 0.2	< 0.21	< 0.21	< 0.15	< 0.15	< 0.3	< 0.3	< 0.3	< 0.27	0.56 J	< 0.2	< 0.21	< 0.15	< 0.15	< 0.3
Trans-1,2-dichloroethene	ug/l	100	100	< 0.3	< 0.42	< 0.42	< 0.32	< 0.32	< 0.16	< 0.16	< 0.25	< 0.25	< 0.25	< 0.3	< 0.42	< 0.42	< 0.32	< 0.16	< 0.16	< 0.25
trans-1,3-Dichloropropene	ug/l	NS	NS	< 0.22	< 0.2	< 0.2	< 0.17	< 0.17	< 0.11	< 0.15	< 0.21	< 0.21	< 0.21	< 0.22	< 0.2	< 0.2	< 0.17	< 0.11	< 0.15	< 0.21
Trichloroethene	ug/l	1	5	< 0.22	< 0.29	< 0.29	< 0.26	< 0.26	< 0.18	< 0.18	< 0.24	< 0.24	< 0.24	< 0.22	< 0.29	< 0.29	< 0.26	< 0.18	< 0.18	< 0.24
Trichlorofluoromethane	ug/l	2000	NS	< 0.23	< 0.25	< 0.25	< 0.26	< 0.26	< 0.25	< 0.25	< 0.54	< 0.54	< 0.54	< 0.23	< 0.25	< 0.25	< 0.26	< 0.25	< 0.25	< 0.54
Vinyl Chloride	ug/l	1	2	< 0.22	< 0.29	< 0.29	< 0.22	< 0.22	< 0.21	< 0.21	< 0.44	< 0.44	< 0.44	< 0.22	< 0.29	< 0.29	< 0.22	< 0.21	< 0.21	< 0.44
Xylene, -m,p	ug/l	NS	NS	NA	< 0.42	< 0.42	< 0.35	< 0.35	< 0.39	< 0.39	0.68 J	< 0.25	NA	NA	< 0.42	< 0.42	< 0.35	< 0.39	< 0.39	< 0.25
Xylenes	ug/l	1,000	10000	< 0.28	< 0.31	< 0.31	< 0.2	< 0.2	0.81 J	< 0.39	1.5	< 0.25	< 0.25	0.36 J	< 0.31	< 0.31	< 0.2	< 0.39	< 0.39	< 0.25
Total TIC, Volatile	ug/l	NS	NS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Location ID		GWQS[1]	EPA	OB-18	OB-19	OB-19	OB-19	OB-19	OB-19	OB-19	OB-19	OB-19	OB-19	OB-19	OB-20A	OB-20A	OB-20A	OB-20A	OB-20A	OB-20A
Sample ID			MCLs	OB-18(051911)	MW-19	OB-19(040907)	DUP(071015)	OB-19(071015)	OB-19(080429)	OB-19(080912)	OB-19(070709)	OB-19(102709)	OB-19(060110)	OB-19 (052011)	MW-20	OB-20A(040307)	OB-20A (071011)	OB-20A(080429)	OB-20A(080915)	OB-20A(070909)
Sample Date	Units			5/19/2011	10/3/2006	4/9/2007	10/15/2007	10/15/2007	4/29/2008	9/12/2008	7/7/2009	10/27/2009	6/1/2010	5/20/2011	10/4/2006	4/3/2007	10/11/2007	4/29/2008	9/15/2008	7/9/2009
SVOC																				
1,1'-Biphenyl	ug/l	400	NS	< 0.42	< 0.36	< 0.34 J	< 0.23	< 0.33	< 0.24	< 0.61	< 0.42	< 0.44	< 0.49	< 0.42	< 0.36	< 0.36	< 0.33	< 0.24	NA	< 0.42
1,2,4-Trichlorobenzene	ug/l	9	70	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.37	NA
1,2-Dichlorobenzene	ug/l	600	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.35	NA
1,3-Dichlorobenzene	ug/l	600	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.33	NA
1,4-Dichlorobenzene	ug/l	75	75	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.35	NA
2,4,5-Trichlorophenol	ug/l	700	NS	< 1.3	< 2.1	< 2 J	< 1.1	< 1.9	< 1.2	< 2.2	< 1.3	< 1.4	< 1.5	< 1.3	< 2.1	< 2.1	< 1.9	< 1.2	< 2	< 1.3
2,4,6-Trichlorophenol	ug/l	20	NS	< 1.2	< 1.4	< 1.3 J	< 1	< 1.3	< 1.1	< 1.7	< 1.2	< 1.3	< 1.4	< 1.2	< 1.4	< 1.4	< 1.3	< 1.1	< 1.6	< 1.2
2,4-Dichlorophenol	ug/l	20	NS	< 1.2	< 1.7	< 1.6 J	< 1.4	< 1.6	< 1.5	< 2.1	< 1.2	< 1.3	< 1.4	< 1.2	< 1.7	< 1.7	< 1.6	< 1.5	< 1.9	< 1.2
2,4-Dimethylphenol	ug/l	100	NS	< 1.7	< 1.8	< 1.7 J	< 1.7	< 1.6	< 1.8	< 2.2	< 1.7	< 1.7	< 1.9	< 1.7	< 1.8	< 1.8	< 1.6	< 1.8	< 2	< 1.7
2,4-Dinitrophenol	ug/l	40	NS	< 0.74	< 0.99	< 0.93 J	< 1.1	< 0.89	< 1.2	< 4.6	< 0.74	< 0.78 J	< 0.86	< 0.74	< 0.97	< 0.99	< 0.89	< 1.2	< 4.2	< 0.74
2,4-Dinitrotoluene	ug/l	NS	NS	< 0.22	< 0.96	< 0.9 J	< 0.56	< 0.86	< 0.59	< 0.5	< 0.22	< 0.23 J	< 0.26	< 0.22	< 0.93	< 0.96	< 0.86	< 0.58	< 0.45	< 0.22
2,6-Dinitrotoluene	ug/l	NS	NS	< 0.33	< 0.62	< 0.58 J	< 0.51	< 0.56	< 0.54	< 0.67	< 0.33	< 0.34	< 0.38	< 0.33	< 0.61	< 0.62	< 0.56	< 0.54	< 0.6	< 0.33
2-Chloronaphthalene	ug/l	600	NS	< 0.42	< 1.1	< 1 J	< 0.2	< 0.98	< 0.22	< 0.53	< 0.42	< 0.44	< 0.48	< 0.42	< 1.1	< 1.1	< 0.98	< 0.21	< 0.48	< 0.42
2-Chlorophenol	ug/l	40	NS	< 1.1	< 1.1	< 0.99 J	< 0.89	< 0.95	< 0.95	< 1.6	< 1.1	< 1.1	< 1.2	< 1.1	< 1	< 1.1	< 0.95	< 0.94	< 1.5	< 1.1
2-Methylnaphthalene	ug/l	NS	NS	< 0.66	< 0.45	< 0.43 J	< 0.78	< 0.41	< 0.83	< 0.48	< 0.66	< 0.69	< 0.77	< 0.66	< 0.44	< 0.45	< 0.41	< 0.82	< 0.43	< 0.66
2-Methylphenol	ug/l	NS	NS	< 1.1	< 1.5	< 1.4 J	< 1.1	< 1.4	< 1.1	< 1.5	< 1.1	< 1.2	< 1.3	< 1.1	< 1.5	< 1.5	< 1.4	< 1.1	< 1.4	< 1.1
2-Nitroaniline	ug/l	NS	NS	< 0.24	< 0.74	< 0.69 J	< 0.51	< 0.66	< 0.54	< 0.49	< 0.24	< 0.25	< 0.27	< 0.24	< 0.72	< 0.74	< 0.66	< 0.53	< 0.45	< 0.24
2-Nitrophenol	ug/l	NS	NS	< 1.2	< 2	< 1.9 J	< 1.5	< 1.8	< 1.6	< 2.1	< 1.2	< 1.3	< 1.4	< 1.2	< 2	< 2	< 1.8	< 1.6	< 1.9	< 1.2
3&4-Methylphenol	ug/l	NS	NS	< 1	< 1.4	< 1.3 J	< 1.1	< 1.3	< 1.2	< 1.6	< 1	< 1.1	< 1.2	< 1	< 1.4	< 1.4	< 1.3	< 1.2	< 1.5	< 1
3,3'-Dichlorobenzidine	ug/l	30	NS	< 0.3	< 1.4	< 1.3 J	< 0.99	< 1.2	< 1.1	< 5	< 0.3	< 0.31	< 0.34	< 0.3	< 1.3	< 1.4	< 1.2	< 1	< 4.6	< 0.3
3-Nitroaniline	ug/l	NS	NS	< 0.29	< 1.4	< 1.3 J	< 0.33	< 1.3	< 0.35	< 0.5	< 0.29	< 0.3	< 0.33	< 0.29	< 1.4	< 1.4	< 1.3	< 0.35	< 0.45	< 0.29
4,6-Dinitro-2-methylphenol	ug/l	NS	NS	< 0.51	< 0.8	< 0.75 J	< 2.3	< 0.72	< 2.4	< 1.3	< 0.51	< 0.54	< 0.6	< 0.51	< 0.78	< 0.8	< 0.72	< 2.4	< 1.2	< 0.51
4-Bromophenyl phenyl ether	ug/l	NS	NS	< 0.35	< 0.33	< 0.31 J	< 0.38	< 0.3	< 0.41	< 0.46	< 0.35	< 0.37	< 0.41	< 0.35	< 0.33	< 0.33	< 0.3	< 0.4	< 0.41	< 0.35
4-Chloro-3-Methylphenol	ug/l	NS	NS	< 1.1	< 1.3	< 1.2 J	< 1.2	< 1.2	< 1.3	< 2.5	< 1.1	< 1.1	< 1.2	< 1.1	< 1.3	< 1.3	< 1.2	< 1.3	< 2.3	< 1.1
4-Chloroaniline	ug/l	30	NS	< 0.25	< 0.44	< 0.41 J	< 0.36	< 0.4	< 0.38	< 0.37	< 0.25	< 0.27	< 0.29	< 0.25	< 0.43	< 0.44	< 0.4	< 0.37	< 0.33	< 0.25
4-Chlorophenyl phenyl ether	ug/l	NS	NS	< 0.35	< 0.48	< 0.45 J	< 0.3	< 0.43	< 0.32	< 0.5	< 0.35	< 0.37	< 0.41	< 0.35	< 0.47	< 0.48	< 0.43	< 0.31	< 0.45	< 0.35
4-Nitroaniline	ug/l	NS	NS	< 0.18	< 0.8	< 0.75 J	< 0.6	< 0.72	< 0.64	< 0.5	< 0.18	< 0.19	< 0.21	< 0.18	< 0.78	< 0.8	< 0.72	< 0.63	< 0.45	< 0.18
4-Nitrophenol	ug/l	NS	NS	< 0.83	< 0.94	< 0.88 J	< 1.6	< 0.84	< 1.7	< 2.5	< 0.83	< 0.87	< 0.96	< 0.83	< 0.92	< 0.94	< 0.84	< 1.7	< 2.3	< 0.83
Acenaphthene	ug/l	400	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	ug/l	700	NS	< 0.4	< 0.42	< 0.39 J	< 0.37	< 0.37	< 0.39	< 0.51	< 0.4	< 0.42	< 0.46	< 0.4	< 0.41	< 0.42	< 0.37	< 0.39	NA	< 0.4
Anthracene	ug/l	2000	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	ug/l	3	3	< 0.39	< 0.18	< 0.17 J	< 0.29	< 0.16	< 0.31	< 0.68	< 0.39	< 0.41 J	< 0.45	< 0.39	< 0.18	< 0.18	< 0.16	< 0.3	NA	< 0.39
Benzaldehyde	ug/l	NS	NS	< 0.4	< 0.29	< 0.28 J	< 0.78	< 0.27	< 0.83	< 1.8	< 0.4	< 0.43	< 0.47	< 0.4	< 0.29	< 0.29	< 0.27	< 0.82	NA	< 0.4
Benzo(a)anthracene	ug/l	0.1 [0.2]	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/l	0.1 [0.2]	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/l	0.2 [10]	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/l	0.5	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzyl butyl phthalate	ug/l	100	NS	< 0.25	< 0.66	< 0.62 J	< 0.65	< 0.59	< 0.69	< 0.46	< 0.25	< 0.26	< 0.29	< 0.25	< 0.64	< 0.66	< 0.59	< 0.69	< 0.42	< 0.25
bis(2-Chloroethoxy)methane	ug/l	NS	NS	< 0.25	< 0.73	< 0.68 J	< 0.32	< 0.65	< 0.35	< 0.57	< 0.25	< 0.26	< 0.29	< 0.25	< 0.71	< 0.73	< 0.65	< 0.34	< 0.52	< 0.25
bis(2-Chloroethyl)ether	ug/l	7	NS	< 0.31	< 0.59	< 0.55 J	< 0.69	< 0.53	< 0.73	< 0.54	< 0.31	< 0.33	< 0.36	< 0.31	< 0.58	< 0.59	< 0.53	< 0.72	< 0.49	< 0.31
bis(2-Chloroisopropyl)ether	ug/l	300	NS	< 0.39	< 0.82	< 0.77 J	< 0.59	< 0.74	< 0.63	< 0.6	< 0.39	< 0.41	< 0.45	< 0.39	< 0.8	< 0.82	< 0.74	< 0.62	< 0.54	< 0.39
bis(2-Ethylhexyl)phthalate	ug/l	3	6	< 0.33	< 0.73	< 0.69 J	< 0.9	< 0.66	< 0.95	< 0.83	< 0.33	< 0.34	< 0.38	< 0.33	< 0.72	< 0.73	1.1 J	< 0.94 J	< 0.75	< 2
Caprolactam	ug/l	NS	NS	< 0.2	< 0.35	< 0.33 J	< 0.5	< 0.32	< 0.53	< 0.69	< 0.2	< 0.21	< 0.23	< 0.2	< 0.34	< 0.35	< 0.32	< 0.53	NA	< 0.2
Carbazole	ug/l	NS	NS	< 0.17	< 0.4	< 0.38 J	< 0.41	< 0.36	< 0.43	< 0.5	< 0.17	< 0.17	< 0.19	< 0.17	< 0.4	< 0.4	< 0.36	< 0.43	< 0.45	< 0.17
Chrysene	ug/l	5	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	ug/l	0.3 [0.5]	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/l	NS	NS	< 0.3	< 0.38	< 0.36 J	< 0.23	< 0.34	< 0.25	< 0.54	< 0.3	< 0.32	< 0.35	< 0.3	< 0.37	< 0.38	< 0.34	< 0.25	< 0.49	< 0.3
Diethyl phthalate	ug/l	6000	NS	< 0.17	< 0.43	< 0.41 J	< 0.35	< 0.39	< 0.37	< 0.4	< 0.17	< 0.17	< 0.19	< 0.17	< 0.42	< 0.43	< 0.39	< 0.37	< 0.36	< 0.17
Dimethyl phthalate	ug/l	NS	NS	< 0.23	< 0.36	< 0.34 J	< 0.34	< 0.33	< 0.37	< 0.4	< 0.23	< 0.24	< 0.26	< 0.23	< 0.36	< 0.36	< 0.33	< 0.36	< 0.36	< 0.23
di-n-butyl phthalate	ug/l	700	NS	< 0.19	< 0.66	< 0.62 J	< 0.41	< 0.59	< 0.43	< 0.55	< 0.19	< 0.2	< 0.22	< 0.19	< 0.64	< 0.66	< 0.59	< 0.43	< 0.5	< 0.19
di-n-octylphthalate	ug/l	100	NS	< 0.4	< 0.63	< 0.59 J	< 0.49	< 0.57	< 0.52	< 0.55	< 0.4	< 0.42	< 0.46	< 0.4	< 0.62	< 0.63	< 0.57	< 0.51	< 0.5	< 0.4
Fluoranthene	ug/l	300	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	ug/l	300	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	ug/l	0.02 [10]	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/l	1	NS	< 0.13	< 0.19	< 0.18 J	< 0.13	< 0.18	< 0.14	< 0.41	< 0.37	< 0.39	< 0.15	< 0.13	< 0.19	< 0.19 J	< 0.18	< 0.14	< 0.38	< 0.37
Hexachlorocyclopentadiene	ug/l	40	50	< 0.24	< 0.45	< 0.42 J	< 0.11	< 0.41	< 0.11	< 5	< 0.67	< 0.71	< 0.28	< 0.24	< 0.44	< 0.45	< 0.41	< 0.11	< 4.5	< 0.67
Hexachloroethane	ug/l	7	NS	< 0.21	< 0.31	< 0.29 J	< 0.16	< 0.28	< 0.18	< 0.33	< 0.26	< 0.28	< 0.24	< 0.21	< 0.31	< 0.31 J	< 0.28	< 0.17	< 0.3	< 0.26
Indeno(1,2,3-cd)pyrene	ug/l	0.2 [10]	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophrone	ug/l	40	NS	< 0.25	< 0.65	< 0.61 J	< 0.5	< 0.59	< 0.53	< 0.76	< 0.25	< 0.26	< 0.29	< 0.25	< 0.64	< 0.65	< 0.59	< 0.53	< 0.69	< 0.25
Naphthalene	ug/l	300	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	ug/l	6	NS	< 0.25	< 0.47	< 0.44 J	< 0.72	< 0.42	< 0.77	< 0.73	< 0.25	< 0.27	< 0.29	< 0.25	< 0.46	< 0.47	< 0.42	< 0.76	< 0.66	< 0.25
N-Nitroso-di-n-Propylamine	ug/l	10	NS	< 0.44	< 0.52	< 0.49 J	< 0.39	< 0.47	< 0.42	< 0.44	< 0.44	< 0.46	< 0.51	< 0.44	< 0.51	< 0.52	< 0.47	< 0.41	< 0.39	< 0.44
N-Nitrosodiphenylamine	ug/l	10	NS	< 0.22	< 0.57	< 0.54 J	< 0.42	< 0.52	< 0.45	< 0.67	< 0.22	< 0.23	< 0.25	< 0.22	< 0.56	< 0.57	< 0.52	< 0.45	< 0.61	< 0.22
Pentachlorophenol	ug/l	0.3 [1]	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	ug/l	2000	NS	< 0.58	< 0.55	< 0.52 J	< 0.7	< 0.5	< 0.74	< 1.5	< 0.58	< 0.61	< 0.67	< 0.58	< 0.54	< 0.55	< 0.5	< 0.73	< 1.4	< 0.58
Pyrene	ug/l	200	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total TIC, Semi-Volatile	ug/l	NS	NS	0	0	0	0	6.3 J	0	0	4.4 J	0	0	4.2 J	6.7 J	5.4 J	15.2 J	13 J	0	0

Location ID		GWQS[1]	EPA	OB-18	OB-19	OB-19	OB-19	OB-19	OB-19	OB-19	OB-19	OB-19	OB-19	OB-20A	OB-20A	OB-20A	OB-20A	OB-20A	OB-20A
Sample ID			MCLs	OB-18(051911)	MW-19	OB-19(040907)	DUP(071015)	OB-19(071015)	OB-19(080429)	OB-19(080912)	OB-19(070709)	OB-19(102709)	OB-19(060110)	OB-19 (052011)	MW-20	OB-20A(040307)	OB-20A (071011)	OB-20A(080429)	OB-20A(080915)	OB-20A(070909)
Sample Date	Units			5/19/2011	10/3/2006	4/9/2007	10/15/2007	10/15/2007	4/29/2008	9/12/2008	7/7/2009	10/27/2009	6/1/2010	5/20/2011	10/4/2006	4/3/2007	10/11/2007	4/29/2008	9/15/2008	7/9/2009
SVOC BY SIM																				
Acenaphthene	ug/l	400	NS	< 0.014	< 0.019	< 0.018 J	< 0.017	< 0.017	< 0.017	< 0.018	< 0.016	< 0.031	< 0.034	< 0.014	< 0.019	< 0.019	0.249	< 0.017	< 0.016	< 0.016
Acenaphthylene	ug/l	NS	NS	< 0.016	< 0.011	< 0.0099 J	< 0.0097	< 0.0095	< 0.0076	< 0.0077	< 0.007	< 0.041	< 0.046	< 0.016	< 0.01	< 0.011	< 0.0095	< 0.0075	< 0.007	< 0.007
Anthracene	ug/l	2000	NS	< 0.01	< 0.023	< 0.022 J	< 0.021	< 0.021	< 0.023	< 0.023	< 0.021	< 0.027	< 0.03	< 0.01	< 0.023	< 0.023	< 0.021	< 0.023	< 0.021	< 0.021
Benzo(a)anthracene	ug/l	0.1 [0.2]	NS	< 0.015	< 0.0076	< 0.0071 J	< 0.0069	< 0.0068	< 0.037	< 0.037	< 0.034	< 0.025	< 0.028	< 0.015	< 0.0074	< 0.0076	< 0.0068	< 0.036	< 0.034	< 0.034
Benzo(a)pyrene	ug/l	0.1 [0.2]	0.2	< 0.0049	< 0.019	< 0.018 J	< 0.017	< 0.017	< 0.039	< 0.039	< 0.036	< 0.032	< 0.036	< 0.0049	< 0.018	< 0.019	< 0.017	< 0.038	< 0.036	< 0.036
Benzo(b)fluoranthene	ug/l	0.2 [10]	NS	< 0.016	< 0.04	< 0.038 J	< 0.037	< 0.036	< 0.018	< 0.019	< 0.017	< 0.038	< 0.042	< 0.016	< 0.039	< 0.04	< 0.036	< 0.018	< 0.017	< 0.017
Benzo(g,h,i)perylene	ug/l	NS	NS	< 0.01	< 0.02	< 0.019 J	< 0.018	< 0.018	< 0.013	< 0.013	< 0.012	< 0.03	< 0.033	< 0.01	< 0.019	< 0.02	< 0.018	< 0.013	< 0.012	< 0.012
Benzo(k)fluoranthene	ug/l	0.5	NS	< 0.013	< 0.017	< 0.016 J	< 0.016	< 0.016	< 0.02	< 0.021	< 0.019	< 0.03	< 0.033	< 0.013	< 0.017	< 0.017	< 0.016	< 0.02	< 0.019	< 0.019
Chrysene	ug/l	5	NS	< 0.023	< 0.019	< 0.017 J	< 0.017	< 0.017	< 0.019	< 0.019	< 0.018	< 0.023	< 0.026	< 0.023	< 0.018	< 0.019	< 0.017	< 0.019	< 0.018	< 0.018
Dibenzo(a,h)anthracene	ug/l	0.3 [0.5]	NS	< 0.023	< 0.018	< 0.017 J	< 0.017	< 0.016	< 0.022	< 0.022	< 0.02	< 0.024	< 0.026	< 0.023	< 0.018	< 0.018	< 0.016	< 0.022	< 0.02	< 0.02
Fluoranthene	ug/l	300	NS	< 0.0096	< 0.01	< 0.0094 J	< 0.0092	< 0.009	< 0.01	< 0.011	< 0.0096	< 0.026	< 0.028	< 0.0096	< 0.0098	< 0.01	< 0.009	< 0.01	< 0.0096	< 0.0096
Fluorene	ug/l	300	NS	< 0.015	< 0.022	< 0.021 J	< 0.021	< 0.02	< 0.021	< 0.022	< 0.02	< 0.028	< 0.031	< 0.015	< 0.022	< 0.022	< 0.02	< 0.021	< 0.02	< 0.02
Hexachlorobenzene	ug/l	0.02 [10]	1	< 0.008	< 0.068	< 0.021 J	< 0.02	< 0.02	< 0.011	< 0.011	< 0.0099	< 0.01	< 0.012	< 0.008	< 0.066	< 0.022	< 0.02	< 0.011	< 0.0099	< 0.0099
Indeno(1,2,3-cd)pyrene	ug/l	0.2 [10]	NS	< 0.011	< 0.012	< 0.012 J	< 0.011	< 0.011	< 0.016	< 0.016	< 0.014	< 0.031	< 0.034	< 0.011	< 0.012	< 0.012	< 0.011	< 0.015	< 0.014	< 0.014
Naphthalene	ug/l	300	NS	< 0.016	< 0.029	< 0.027 J	< 0.026	< 0.026	0.264	< 0.015	0.693	< 0.019	< 0.022	0.765	< 0.028	0.298	0.275	< 0.015	< 0.014	< 0.014
Pentachlorophenol	ug/l	0.3 [1]	1	< 0.29	< 0.44	R	< 0.31	< 0.3	< 0.24	< 0.25	< 0.22	< 0.23	< 0.079	< 0.29	< 0.43	< 0.33	R	< 0.24	< 0.22	< 0.22
Phenanthrene	ug/l	NS	NS	< 0.016	< 0.023	< 0.022 J	< 0.022	< 0.021	< 0.018	< 0.019	< 0.017	< 0.038	< 0.042	< 0.016	< 0.023	< 0.023	< 0.021	< 0.018	< 0.017	< 0.017
Pyrene	ug/l	200	NS	< 0.0081	< 0.016	< 0.015 J	< 0.014	< 0.014	< 0.013	< 0.013	< 0.012	< 0.023	< 0.026	< 0.0081	< 0.015	< 0.016	< 0.014	< 0.013	< 0.012	< 0.012
PCBs																				
PCB 1016	ug/l	0.5	0.5	< 0.13	< 0.1	< 0.1	< 0.1	< 0.1	< 0.094	< 0.094	< 0.21	< 0.3	< 0.34	< 0.14	< 0.1	< 0.1	< 0.094	< 0.1	< 0.094	< 0.19
PCB 1221	ug/l	0.5	0.5	< 0.27	< 0.51	< 0.51	< 0.52	< 0.52	< 0.47	< 0.47	< 0.33	< 0.41	< 0.46	< 0.29	< 0.5	< 0.52	< 0.47	< 0.52	< 0.47	< 0.31
PCB 1232	ug/l	0.5	0.5	< 0.39	< 0.42	< 0.42	< 0.43	< 0.43	< 0.39	< 0.39	< 0.22	< 0.31	< 0.35	< 0.41	< 0.41	< 0.43	< 0.39	< 0.43	< 0.39	< 0.21
PCB 1242	ug/l	0.5	0.5	< 0.086	< 0.18	< 0.18	< 0.18	< 0.18	< 0.16	< 0.16	< 0.097	< 0.27	< 0.3	< 0.091	< 0.17	< 0.18	< 0.16	< 0.18	< 0.16	< 0.089
PCB 1248	ug/l	0.5	0.5	< 0.15	< 0.16	< 0.16	< 0.17	< 0.17	< 0.15	< 0.15	< 0.28	< 0.28	< 0.31	< 0.15	< 0.16	< 0.17	< 0.15	< 0.17	< 0.15	< 0.25
PCB 1254	ug/l	0.5	0.5	< 0.14	< 0.12	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11	< 0.12	< 0.18	< 0.2	< 0.15	< 0.12	< 0.12	< 0.11	< 0.12	< 0.11	< 0.11
PCB 1260	ug/l	0.5	0.5	< 0.21	< 0.13	< 0.13	< 0.13	< 0.13	< 0.12	< 0.12	< 0.16	< 0.14	< 0.16	< 0.22	< 0.12	< 0.13	< 0.12	< 0.13	< 0.12	< 0.14
Total PCBs	ug/l	0.5	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pesticides/Herbicides																				
4,4-DDD	ug/l	0.1	NS	NA	< 0.0026	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0026	NA	NA	NA	NA	NA
4,4-DDE	ug/l	0.1	NS	NA	< 0.0018	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0018	NA	NA	NA	NA	NA
4,4-DDT	ug/l	0.1	NS	NA	< 0.0053	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0052	NA	NA	NA	NA	NA
Aldrin	ug/l	0.04	NS	NA	< 0.0036	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0036	NA	NA	NA	NA	NA
alpha-BHC	ug/l	0.02	NS	NA	< 0.0028	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0028	NA	NA	NA	NA	NA
alpha-Chlordane	ug/l	NS	NS	NA	< 0.0047	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0046	NA	NA	NA	NA	NA
beta-BHC	ug/l	0.04	NS	NA	< 0.0066	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0066	NA	NA	NA	NA	NA
delta-BHC	ug/l	NS	NS	NA	< 0.0033	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0033	NA	NA	NA	NA	NA
Dieldrin	ug/l	0.03	NS	NA	< 0.0018	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0018	NA	NA	NA	NA	NA
Endosulfan I (alpha)	ug/l	40	NS	NA	< 0.0023	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0022	NA	NA	NA	NA	NA
Endosulfan II (beta)	ug/l	40	NS	NA	< 0.0035	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0034	NA	NA	NA	NA	NA
Endosulfan sulfate	ug/l	40	NS	NA	< 0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0049	NA	NA	NA	NA	NA
Endrin	ug/l	2	2	NA	< 0.0032	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0032	NA	NA	NA	NA	NA
Endrin Aldehyde	ug/l	NS	NS	NA	< 0.0069	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0069	NA	NA	NA	NA	NA
Endrin ketone	ug/l	NS	NS	NA	< 0.0038	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0037	NA	NA	NA	NA	NA
gamma-Chlordane	ug/l	NS	NS	NA	< 0.0018	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0018	NA	NA	NA	NA	NA
Heptachlor	ug/l	0.05	0.4	NA	< 0.0028	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0027	NA	NA	NA	NA	NA
Heptachlor epoxide	ug/l	0.2	0.2	NA	< 0.0016	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0016	NA	NA	NA	NA	NA
Lindane	ug/l	0.03	0.2	NA	< 0.0018	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0018	NA	NA	NA	NA	NA
Methoxychlor	ug/l	40	40	NA	< 0.0073	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0072	NA	NA	NA	NA	NA
Toxaphene	ug/l	2	3	NA	< 0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.1	NA	NA	NA	NA	NA

Table 15: Summary of Historical Ground Water Analytical Results, 2004-2011
Ringwood Mines/Landfill Site, Ringwood, New Jersey

Location ID		GWQS[1]	EPA	OB-18	OB-19	OB-19	OB-19	OB-19	OB-19	OB-19	OB-19	OB-19	OB-19	OB-19	OB-20A	OB-20A	OB-20A	OB-20A	OB-20A	OB-20A
Sample ID			MCLs	OB-18(051911)	MW-19	OB-19(040907)	DUP(071015)	OB-19(071015)	OB-19(080429)	OB-19(080912)	OB-19(070709)	OB-19(102709)	OB-19(060110)	OB-19 (052011)	MW-20	OB-20A(040307)	OB-20A (071011)	OB-20A(080429)	OB-20A(080915)	OB-20A(070909)
Sample Date	Units			5/19/2011	10/3/2006	4/9/2007	10/15/2007	10/15/2007	4/29/2008	9/12/2008	7/7/2009	10/27/2009	6/1/2010	5/20/2011	10/4/2006	4/3/2007	10/11/2007	4/29/2008	9/15/2008	7/9/2009
Metals - Total																				
Aluminum	ug/l	200	NS	**236**	**2470**	39.2 B	153 B	137 B	48.1 B	< 56.5 J	< 200	114 J	120 J	136 B	**1990**	**981**	**2190**	**216**	**367 J**	< 200
Antimony	ug/l	6	6	< 1.3	< 4.4	< 5	< 0.9	< 0.9	< 1.8	< 1.8	< 4	< 2.9	< 2.2	1.3 B	< 4.4	< 5	< 0.9	< 1.8	< 1.8	< 4
Arsenic	ug/l	3 [8]	10	< 0.92	**3.1**	< 1.5	1.8 B	1.9 B	< 1.7	**4 J**	< 2.4	< 2.4	< 1.4	< 0.92	**13.9**	**24.6**	**18.6**	**3.7**	**7.8**	< 3
Barium	ug/l	6000	2000	8.9 J	124 B	84.9 B	52.5 B	60.6 B	64.2 B	78.8 BJ	116 B	109 B	61.7 J	118 B	159 B	120 B	103 B	91.9 B	113 B	121 B
Beryllium	ug/l	1	4	< 0.24	< 0.5	< 0.4	< 0.15	< 0.15	< 0.15	< 0.15	< 0.4	< 0.4	< 0.24	< 0.24	< 0.5	< 0.4	< 0.15	< 0.15	< 0.15	< 1
Cadmium	ug/l	4	5	< 0.17	0.94 B	< 1.3	< 0.24	< 0.24	< 0.28	< 0.4	0.6 B	< 0.4	< 0.35	< 0.17	0.63 B	< 1.3	< 0.24	< 0.28	0.3 B	< 0.4
Calcium	ug/l	NS	NS	50600	20000	13100	17200	17500	9740	16300	20400	20400	10500	18100	37600	41400	35000	23500	23300	27000
Chromium	ug/l	70	100	< 10	4.1 B	< 0.8	0.6 B	< 0.53 J	0.7 B	0.9 BJ	1.2 B	1.2 B	< 10	1 B	2.7 B	2.1 B	3.3 B	1.1 B	1.1 BJ	< 10
Cobalt	ug/l	NS	NS	< 0.3	1.7 B	< 1.8	2.2 B	2 B	0.7 B	1.5 BJ	0.4 B	< 1.6	< 0.65	0.6 B	5.5 B	6.8 B	7.4 B	3.4 B	3.5 B	< 50
Copper	ug/l	1,300	1300	< 0.85	48.8	< 2.7	4.1 B	< 3.3	8.1 B	< 0.7	3.6 B	< 1.6 J	< 2.5	2.6 B	5 B	< 2.7	< 3.3	5.6 B	1.4 B	< 10
Iron	ug/l	300	NS	278	**43600**	**18600**	**20200**	**20000**	**10100**	**20000**	**37500 J**	**20500**	**19300**	**20700**	**42400**	**60100**	**49600**	**28200**	**24400**	**26800 J**
Lead	ug/l	5	15	< 0.94	**9.4**	< 2.8	1 B	1.3 B	1.4 B	< 1.4	< 1.7	< 1.7	< 1.9	3.5	< 2.6	< 2.8	3	2.1 B	< 1.4	< 1.7
Magnesium	ug/l	NS	NS	10900	3550 B	2040 B	2970 B	2980 B	1600 B	2850 B	3280 B	3530 B	1610 B	2720 B	4510 B	4650 B	3890 B	2600 B	2450 B	3130 B
Manganese	ug/l	50	NS	6.3 J	**713**	**276 J**	**1150**	**987 J**	**180**	**755**	**447**	**394 J**	**351**	**353**	**3470**	**7740**	**5590**	**885**	**1300**	**685**
Mercury	ug/l	2	2	< 0.088	< 0.08	< 0.037	< 0.15	< 0.15	< 0.15	< 0.049	< 0.049	< 0.082	< 0.082	< 0.088	< 0.08	< 0.037	< 0.15	< 0.15	< 0.049	< 0.049
Nickel	ug/l	100	NS	< 10	5 B	< 2.8	2.9 B	3 B	1.3 B	< 2	< 0.6	1.4 J	0.7 B	3.1 B	< 1.6	3.8 B	5.4 B	2.5 B	4.5 B	< 10
Potassium	ug/l	NS	NS	520 J	1750 B	846 B	1490 B	1610 B	717 B	1220 BJ	1160 B	1370 B	978 B	1230 B	3660 B	2840 B	2800 B	1700 B	2430 B	2170 B
Selenium	ug/l	40	50	< 1.5	< 3	< 6.2	< 0.73	< 0.73	< 1.6	2.3 B	< 10	< 3.7	3.1 B	< 1.5	< 3	< 6.2	< 0.73	< 1.6	< 1.6	< 3.7
Silver	ug/l	40	NS	< 0.72	< 1.9	< 1	< 0.83	< 0.83	< 1	< 1	< 1	< 1	< 0.53	< 0.72	< 1.9	< 1	< 0.83	< 1	< 1	< 1
Sodium	ug/l	50,000	NS	6130 B	4420 BJ	2840 BJ	4120 B	4330 B	2160 B	< 3200	2790 B	3500 B	2370 J	2510 B	4560 BJ	4650 BJ	3040 B	2390 B	3230 B	2920 B
Thallium	ug/l	2 [10]	2	< 0.17	< 0.09	< 0.09	< 1.4	< 1.4 J	< 1.3	< 1.3	< 1.5	< 1.5	< 1.8	< 0.17	0.32 B	< 0.09	< 1.4	< 1.3	< 1.3	< 1.5
Vanadium	ug/l	NS	NS	< 0.43	8.3 B	< 1.8	1.2 B	1.3 B	1.5 B	1.9 BJ	2.3 BJ	1.8 B	2.6 J	1.5 B	3.3 B	3.2 B	4.3 B	1.9 B	3.3 B	< 50
Zinc	ug/l	2000	NS	< 1.7	45.1 J	< 3.4	18.2 BJ	18.7 BJ	22.7	< 27.4 J	20.2 J	10.3 B	8.8 J	61.6	20.5 J	11.6 B	< 2.7	17.4 B	84.9	9.3 BJ
Metals - Dissolved																				
Aluminum	ug/l	200	NS	< 200	< 110	< 23	< 26	< 26	< 24	< 24	< 26	< 26 J	< 200	21.5 B	< 110	< 23	< 26	< 24	94.9 BJ	< 200
Antimony	ug/l	6	6	< 1.3	< 4.4	< 5	< 0.9	< 0.9	< 1.8	< 1.8	< 4	< 2.9	< 2.2	< 1.3	< 4.4	< 5	< 0.9	< 1.8	2.2 B	< 4
Arsenic	ug/l	3 [8]	10	< 0.92	< 1.5	< 1.5	< 1.1	< 1.1	< 1.7	< 1.7	< 2.4	< 2.4	< 1.4	< 0.92	**13.1**	**20.8**	2.4 B	< 1.7	**5.3**	< 3
Barium	ug/l	6000	2000	7 J	98.9 B	85.2 B	47 B	45.5 B	60.6 B	70.3 BJ	98.4 B	97.3 B	50.8 J	106 B	137 B	110 B	64.9 B	75.7 B	104 B	121 B
Beryllium	ug/l	1	4	< 0.24	< 0.5	< 0.4	< 0.15	< 0.15	< 0.15	< 0.15	< 0.4	< 0.4	< 0.24	< 0.24	< 0.5	< 0.4	< 0.15	< 0.15	< 0.15	< 0.4
Cadmium	ug/l	4	5	< 0.17	< 0.6	< 1.3	< 0.24	< 0.24	< 0.28	< 0.28	0.6 B	< 0.4	< 0.35	< 0.17	< 0.6	< 1.3	< 0.24	< 0.28	0.3 B	< 0.4
Calcium	ug/l	NS	NS	47400	20100	13300	16600	16600	9580	15900	19600	20100	10100	17400	37300	41000	33500	22300	22800	26600
Chromium	ug/l	70	100	< 0.9	< 1.6	< 0.8	< 0.53	0.6 BJ	< 0.53	< 0.53	< 0.9	< 0.9	< 0.59	< 0.9	< 1.6	< 0.8	2.7 B	< 0.53	< 0.53	< 10
Cobalt	ug/l	NS	NS	< 0.3	< 1.7	< 1.8	1.9 B	1.9 B	0.9 B	< 0.8	< 0.4	< 1.6	< 0.65	0.4 B	5 B	6.1 B	5.1 B	3 B	3.1 B	< 50
Copper	ug/l	1,300	1300	< 0.85	< 2.3	< 2.7	< 3.3	3.3 B	< 2.5	< 0.7	< 10	< 1.6 J	< 2.5	< 0.85	< 2.3	< 2.7	< 3.3	4.2 B	< 1.1	< 10
Iron	ug/l	300	NS	< 100	**28700**	**18800**	**4170**	**3940**	**1790**	**3920**	**24000**	**12700**	**1520**	**4850**	**39800**	**58100**	**18600**	**9240**	**15600**	**30000 J**
Lead	ug/l	5	15	< 1.1	< 2.6	< 2.8	< 0.94	1.1 B	< 1.4	< 1.4	< 1.7	< 1.7	< 1.9	1 B	< 2.6	< 2.8	< 0.94	1.8 B	< 1.4	< 1.7
Magnesium	ug/l	NS	NS	10200	3190 B	2060 B	2840 B	2850 B	1610 B	2800 B	3200 B	3460 B	1550 B	2610 B	4190 B	4390 B	3370 B	2420 B	2310 B	3040 B
Manganese	ug/l	50	NS	< 15	**532**	**282 J**	**1070**	**1100 J**	**177**	**710**	**433**	**386 J**	**335**	**340**	**3350**	**7520**	**5310**	**857**	**1250**	**679**
Mercury	ug/l	2	2	< 0.088	< 0.08	< 0.037	< 0.15	< 0.15	< 0.15	< 0.049	< 0.049	< 0.082	< 0.082	< 0.088	< 0.08	< 0.037	< 0.15	< 0.15	< 0.049	< 0.049
Nickel	ug/l	100	NS	< 0.41	< 1.6	< 2.8	2 B	4 B	1.5 B	< 1.3	< 0.6	1.6 J	< 0.51	2.6 B	2.9 B	< 2.8	8.8 B	3.3 B	3.4 B	< 10
Potassium	ug/l	NS	NS	375 J	1240 B	837 B	1430 B	1460 B	677 B	1050 BJ	1120 B	1380 B	935 B	1170 B	2940 B	2600 B	2380 B	1550 B	2220 B	2040 B
Selenium	ug/l	40	50	< 1.5	< 3	< 6.2	< 0.73	< 0.73	< 1.6	< 1.6	< 3.7	< 3.7	< 1.9	< 1.5	< 3	< 6.2	< 0.73	< 1.6	2.1 B	< 3.7
Silver	ug/l	40	NS	< 0.72	< 1.9	< 1	< 0.83	< 0.83	< 1	< 1	< 1	< 1	< 0.53	< 0.72	< 1.9	< 1	< 0.83	< 1	< 1	< 10
Sodium	ug/l	50,000	NS	5820 B	< 310	2970 BJ	4000 B	3970 B	2150 B	< 3130	2700 B	3600 B	2310 J	2460 B	4020 BJ	4570 BJ	3020 B	2240 B	3200 B	2840 B
Thallium	ug/l	2 [10]	2	< 0.17	0.098 B	< 0.09	< 1.4	1.8 BJ	< 1.3	< 1.3	< 1.5	< 1.5	< 1.8	< 0.17	0.15 B	< 0.09	< 1.4	< 1.3	< 1.3	< 1.5
Vanadium	ug/l	NS	NS	< 0.43	< 1.9	< 1.8	< 0.49	< 0.49	< 0.43	< 0.43	< 0.9	< 0.9	< 0.56	< 0.43	< 1.9	< 1.8	< 0.49	0.5 B	1.8 B	< 50
Zinc	ug/l	2000	NS	3.1 J	< 3.3	< 3.4	12.8 BJ	14.7 BJ	15.5 B	< 19.7 J	< 20	11.9 B	< 20	33.5	18.3 BJ	7.6 B	< 2.7	10.9 B	79.3	9.3 BJ
Other																				
Alkalinity, Bicarbonate	ug/l	NS	NS	NA	65000	41800	58300	58800	30500	56700	NA	NA	NA	NA	116000	176000	143000	72700	83200	NA
Alkalinity, Carbonate	ug/l	NS	NS	NA	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	NA	NA	NA	NA	< 5000	< 5000	< 5000	< 5000	< 5000	NA
Alkalinity, total (as CaCO3)	ug/l	NS	NS	161000	65000	41800	58300	58800	30500	56700	74600	70900	35400	56200	116000	176000	143000	72700	83200	85600
BOD, 5 Day	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromide	ug/l	NS	NS	NA	< 150	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 150	NA	NA	NA	NA	NA
Chloride	ug/l	250000	NS	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000
COD	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide	ug/l	100	200	NA	< 10	< 10	< 10 J	< 10 J	< 10	< 10	NA	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	NA
Nitrate	ug/l	10000	10000	NA	< 110	< 110	< 110	< 110	< 110	< 110	NA	NA	NA	NA	< 110	< 110	< 110	< 110	< 110	NA
Nitrogen, Nitrate + Nitrite	ug/l	10000	NS	NA	< 100	< 100	< 100	< 100	< 100	< 100	NA	NA	NA	NA	< 100	< 100	< 100	< 100	< 100	NA
Nitrogen, Nitrite	ug/l	1000	1000	NA	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	NA
Phosphorus, Total	ug/l	NS	NS	NA	260	130	54	< 50	52	< 50	NA	NA	NA	NA	250	220	310	120	130	NA
Sulfate	ug/l	250000	NS	13400	5200	< 10000	< 10000	< 10000	< 10000	< 10000	< 10000	< 10000	45600	< 10000	< 3000	< 10000	< 10000	< 10000	15700	< 10000
Total Dissolved Solids	ug/l	500000	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total organic carbon	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See footnotes on last page

R2-0005403

Location ID		GWQS[1]	EPA	OB-20A	OB-20A	OB-20A	OB-20A	OB-20B	OB-20B	OB-20B	OB-20B	OB-20B	OB-20B	OB-20B	OB-20B	OB-20B	OB-20B	OB-20B
Sample ID			MCLs	OB-20A(102809)	OB-20A(060210)	OB-20A(051811)	OB-20A(051811) DUP	MW-20 OB-34	REP100406	DUP(040507) (OB20B)(040507)	OB20B(040507)	OB-20B (071011)	OB-20B(080429)	OB-20B(080915)	OB-20B(070909)	OB-20B(102809)	OB-20B(060210)	OB-20B(051811)
Sample Date	Units			10/28/2009	6/2/2010	5/18/2011	5/18/2011	10/4/2006	10/4/2006	4/5/2007	4/5/2007	10/11/2007	4/29/2008	9/15/2008	7/9/2009	10/28/2009	6/2/2010	5/18/2011
VOC																		
1,1,1,2-Tetrachloroethane	ug/l	1	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/l	30	200	< 0.26	< 0.26	< 0.24	< 0.24	< 0.28	< 0.28	< 0.28	< 0.28	< 0.3	< 0.24	< 0.24	< 0.26	< 0.26	< 0.26	< 0.24
1,1,2,2-Tetrachloroethane	ug/l	1	NS	< 0.24	< 0.24	< 0.2	< 0.2	< 0.28	< 0.28	< 0.28	< 0.28	< 0.8	< 0.13	< 0.13	< 0.24	< 0.24	< 0.24	< 0.2
1,1,2-Trichloroethane	ug/l	3	5	< 0.23	< 0.23	< 0.23	< 0.23	< 0.32	< 0.32	< 0.32	< 0.32	< 0.49	< 0.17	< 0.17	< 0.23	< 0.23	< 0.23	< 0.23
1,1-Dichloroethane	ug/l	50	NS	< 0.29	< 0.29	< 0.19	< 0.19	< 0.23	0.43 J	< 0.23	0.42 J	0.42 J	0.4 J	< 0.24	< 0.29	< 0.29	0.46 J	0.36 J
1,1-Dichloroethene	ug/l	1	7	< 0.4	< 0.4	< 0.28	< 0.28	< 0.33	< 0.33	< 0.33	< 0.33	< 0.28	< 0.29	< 0.29	< 0.4	< 0.4	< 0.4	< 0.28
1,2,4-Trichlorobenzene	ug/l	9	70	< 0.56	< 0.56	< 0.15	< 0.15	< 0.16	< 0.16	< 0.16	< 0.16	< 0.41	< 1.3	< 1.3	< 0.56	< 0.56	< 0.56	< 0.15
1,2-Dibromo-3-Chloropropane (DBCP)	ug/l	0.02 [1]	0.2	< 1.1	< 1.1	< 1.3	< 1.3	< 1.1	< 1.1	< 1.1	< 1.1	< 0.8	< 2.4	< 1.3	< 1.1	< 1.1	< 1.1	< 1.3
1,2-Dibromoethane	ug/l	0.03 [0.5]	0.05	< 0.39	< 0.39	< 0.21	< 0.21	< 0.52	< 0.52	< 0.52	< 0.52	< 0.45	< 0.17	< 0.18	< 0.39	< 0.39	< 0.39	< 0.21
1,2-Dichlorobenzene	ug/l	600	600	< 0.26	< 0.26	< 0.18	< 0.18	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.18	< 0.18	< 0.26	< 0.26	< 0.26	< 0.18
1,2-Dichloroethane	ug/l	2	5	< 0.33	< 0.33	< 0.18	< 0.18	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.35	< 0.35	< 0.33	< 0.33	< 0.33	< 0.18
1,2-Dichloropropane	ug/l	1	5	< 0.27	< 0.27	< 0.22	< 0.22	< 0.2	< 0.2	< 0.2	< 0.2	< 0.24	< 0.18	< 0.18	< 0.27	< 0.27	< 0.27	< 0.22
1,3-Dichlorobenzene	ug/l	600	NS	< 0.25	< 0.25	< 0.29	< 0.29	< 0.32	< 0.32	< 0.32	< 0.32	< 0.21	< 0.26	< 0.26	< 0.25	< 0.25	< 0.25	< 0.29
1,4-Dichlorobenzene	ug/l	75	75	< 0.28	< 0.28	< 0.26	< 0.26	< 0.24	< 0.24	< 0.24	< 0.24	< 0.17	< 0.32	< 0.22	< 0.28	< 0.28	< 0.28	< 0.26
2-Butanone (MEK)	ug/l	300	NS	< 1.6	< 1.6	< 2.9	< 2.9	< 2.6	< 2.6	< 2.6	< 2.6	< 2.7	< 2.3	< 2.3	< 1.6	< 1.6	< 1.6	< 2.9
2-Hexanone	ug/l	NS	NS	< 1.4	< 1.4	< 3	< 3	< 1.3	< 1.3	< 1.3	< 1.3	< 0.94	< 1.7	< 1.7	< 1.4	< 1.4	< 1.4	< 3
4-methyl-2-pentanone (MIBK)	ug/l	NS	NS	< 0.86	< 0.86	< 1.2	< 1.2	< 1.1	< 1.1	< 1.1	< 1.1	< 1.4	< 1.9	< 1.3	< 0.86	< 0.86	< 0.86	< 1.2
Acetone	ug/l	6000	NS	< 2.9	< 2.9	< 7.6	< 7.6	< 2.4	< 2.4	< 2.4	< 2.4	< 2.9	< 2.1	< 2.1	< 2.9	< 2.9	< 2.9	< 7.6
Benzene	ug/l	1	5	< 0.23	< 0.23	< 0.22	< 0.22	**2**	**1.9**	**1.5**	**1.4**	**1.5**	**1.4**	0.9 J	0.83 J	0.77 J	**1.1**	0.86 J
Bromodichloromethane	ug/l	1	80	< 0.22	< 0.22	< 0.23	< 0.23	< 0.17	< 0.17	< 0.17	< 0.17	< 0.15	< 0.14	< 0.14	< 0.22	< 0.22	< 0.22	< 0.23
Bromoform	ug/l	4	80	< 0.23	< 0.23	< 0.24	< 0.24	< 0.54	< 0.54	< 0.54	< 0.54	< 0.34	< 0.18	< 0.18	< 0.23	< 0.23	< 0.23	< 0.24
Bromomethane	ug/l	10	NS	< 0.3	< 0.3	< 0.31	< 0.31	< 0.22	< 0.22	< 0.22	< 0.22	< 0.38	< 0.32	< 0.32	< 0.3	< 0.3	< 0.3	< 0.31
Carbon disulfide	ug/l	700	NS	< 0.74	< 0.74	< 0.18	< 0.18	< 0.21	< 0.21	< 0.21	< 0.21	< 0.14	< 0.15	< 0.16	< 0.74	< 0.74	< 0.74	< 0.18
Carbon tetrachloride	ug/l	1	5	< 0.26	< 0.26	< 0.19	< 0.19	< 0.29	< 0.29 J	< 0.29	< 0.29	< 0.19	< 0.18	< 0.18	< 0.26	< 0.26	< 0.26	< 0.19
Chlorobenzene	ug/l	50	100	< 0.39	< 0.39	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	0.19 J	< 0.14	< 0.19	< 0.39	< 0.39	< 0.39	< 0.22
Chloroethane	ug/l	NS	NS	< 0.37	< 0.37	< 0.37	< 0.37	4.5	3.8	1.8	1.8	2.8	2.1	1.9	1.6	1.2	1.3	1.5
Chloroform	ug/l	70	80	< 0.23	< 0.23	< 0.21	< 0.21	< 0.22	< 0.22	< 0.22	< 0.22	< 0.25	< 0.16	< 0.16	< 0.23	< 0.23	< 0.23	< 0.21
Chloromethane	ug/l	NS	NS	< 0.29	< 0.29	< 0.22 J	< 0.22 J	< 0.35	< 0.35	< 0.35	< 0.35	< 0.3	< 0.29	< 0.29 J	< 0.29	< 0.29	< 0.29	< 0.22 J
cis-1,2-Dichloroethene	ug/l	70	70	< 0.22	< 0.22	< 0.22	< 0.22	< 0.18	< 0.18	< 0.18	< 0.18	< 0.27	< 0.19	< 0.25	< 0.22	< 0.22	< 0.22	< 0.22
cis-1,3-Dichloropropene	ug/l	NS	NS	< 0.25	< 0.25	< 0.22	< 0.22	< 0.15	< 0.15	< 0.15	< 0.15	< 0.13	< 0.15	< 0.18	< 0.25	< 0.25	< 0.25	< 0.22
Cyclohexane	ug/l	NS	NS	< 1.9	< 1.9	< 0.29	< 0.29	< 0.5	< 0.5	< 0.5	< 0.5	< 0.85	< 0.85	< 0.85	< 1.9	< 1.9	< 1.9	0.68 J
Dibromochloromethane	ug/l	1	80	< 0.22	< 0.22	< 0.2	< 0.2	< 0.19	< 0.19	< 0.19	< 0.19	< 0.28	< 0.12	< 0.16	< 0.22	< 0.22	< 0.22	< 0.2
Dichlorodifluoromethane	ug/l	1,000	NS	< 0.92	< 0.92	< 0.31 J	< 0.31 J	< 0.75	< 0.75	< 0.75	< 0.75	< 1	< 0.88	< 0.88	< 0.92	< 0.92	< 0.92	< 0.31 J
Ethylbenzene	ug/l	700	700	< 0.27	< 0.27	< 0.21	< 0.21	< 0.2	< 0.2	< 0.2	< 0.2	< 0.21	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.21
Freon 113	ug/l	NS	NS	< 0.38	< 0.38	< 0.49	< 0.49	< 0.69	< 0.69	< 0.69	< 0.69	< 1.2	< 0.8	< 0.8	< 0.38	< 0.38	< 0.38	< 0.49
Isopropylbenzene	ug/l	700	NS	< 0.57	< 0.57	< 0.19	< 0.19	0.73 J	0.69 J	< 0.2	0.34 J	0.8 J	1.4 J	< 0.19	< 0.57	< 0.57	1 J	0.48 J
Methyl acetate	ug/l	7000	NS	< 1.5	< 1.5	< 2.9	< 2.9	< 2.1	< 2.1	< 2.1	< 2.1	< 1.6	< 2.5	< 1.7	< 1.5	< 1.5	< 1.5	< 2.9
Methyl tert butyl ether	ug/l	70	NS	< 0.23	< 0.23	< 0.18	< 0.18	< 0.31	< 0.31	< 0.31	< 0.31	< 0.2	< 0.14	< 0.16	< 0.23	< 0.23	< 0.23	< 0.18
Methylcyclohexane	ug/l	NS	NS	< 0.35	< 0.35	< 0.18	< 0.18	< 0.18	0.34 J	< 0.18	< 0.18	< 0.5	0.25 J	< 0.11	< 0.35	< 0.35	< 0.35	0.4 J
Methylene chloride	ug/l	3	5	< 0.3	< 0.3	< 0.2	< 0.2	< 0.27	< 0.27	< 0.27	< 0.27	< 0.21	< 0.16	< 0.16	< 0.3	< 0.3	< 0.3	< 0.2
o-Xylene	ug/l	NS	NS	< 0.25	NA	NA	NA	< 0.31	< 0.31	< 0.31	< 0.31	< 0.2	< 0.45	< 0.45	< 0.25	< 0.25	NA	NA
Styrene	ug/l	100	100	< 0.58	< 0.58	< 0.23	< 0.23	< 0.16	< 0.16	< 0.16	< 0.16	< 0.2	< 0.11	< 0.17	< 0.58	< 0.58	< 0.58	< 0.23
Tertiary Butyl Alcohol	ug/l	100	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	ug/l	1	5	< 0.27	< 0.27	< 0.32	< 0.32	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28 J	< 0.29	< 0.29	< 0.27	< 0.27	< 0.27	< 0.32
Toluene	ug/l	600	1000	< 0.3	< 0.3	< 0.15	< 0.15	0.62 J	0.64 J	< 0.2	< 0.2	< 0.21	< 0.15	< 0.15	< 0.3	< 0.3	< 0.3	< 0.15
Trans-1,2-dichloroethene	ug/l	100	100	< 0.25	< 0.25	< 0.31	< 0.31	< 0.42	< 0.42	< 0.42	< 0.42	< 0.32	< 0.16	< 0.16	< 0.25	< 0.25	< 0.25	< 0.31
trans-1,3-Dichloropropene	ug/l	NS	NS	< 0.21	< 0.21	< 0.19	< 0.19	< 0.2	< 0.2	< 0.2	< 0.2	< 0.17	< 0.11	< 0.15	< 0.21	< 0.21	< 0.21	< 0.19
Trichloroethene	ug/l	1	5	< 0.24	< 0.24	< 0.21	< 0.21	< 0.29	< 0.29	< 0.29	< 0.29	< 0.26	< 0.18	< 0.18	< 0.24	< 0.24	< 0.24	< 0.21
Trichlorofluoromethane	ug/l	2000	NS	< 0.54	< 0.54	< 0.35	< 0.35	< 0.25	< 0.25	< 0.25	< 0.25	< 0.26	< 0.25	< 0.25	< 0.54	< 0.54	< 0.54	< 0.35
Vinyl Chloride	ug/l	1	2	< 0.44	< 0.44	< 0.27	< 0.27	< 0.29	< 0.29	< 0.29	< 0.29	< 0.22	< 0.21	< 0.21	< 0.44	< 0.44	< 0.44	< 0.27
Xylene, -m,p	ug/l	NS	NS	< 0.25	NA	NA	NA	< 0.42	< 0.42	< 0.42	< 0.42	< 0.35	3.2	< 0.39	< 0.25	< 0.25	NA	NA
Xylenes	ug/l	1,000	10000	< 0.25	< 0.25	< 0.17	< 0.17	< 0.31	< 0.31	< 0.31	< 0.31	< 0.2	3.2	< 0.39	< 0.25	< 0.25	4.4	< 0.17
Total TIC, Volatile	ug/l	NS	NS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Location ID		GWQS[1]	EPA	OB-20A	OB-20A	OB-20A	OB-20A	OB-20B	OB-20B	OB-20B	OB-20B	OB-20B	OB-20B	OB-20B	OB-20B	OB-20B	OB-20B
Sample ID			MCLs	OB-20A(102809)	OB-20A(060210)	OB-20A(051811)	OB-20A(051811) DUP	MW-20 OB-34	REP100406	DUP(040507) (OB20B)(040507)	OB20B(040507)	OB-20B (071011)	OB-20B(080429)	OB-20B(080915)	OB-20B(070909)	OB-20B(102809)	OB-20B(060210)	OB-20B(051811)
Sample Date	Units			10/28/2009	6/2/2010	5/18/2011	5/18/2011	10/4/2006	10/4/2006	4/5/2007	4/5/2007	10/11/2007	4/29/2008	9/15/2008	7/9/2009	10/28/2009	6/2/2010	5/18/2011
SVOC																		
1,1'-Biphenyl	ug/l	400	NS	< 0.46	< 0.5	< 0.42	< 0.42	< 0.34	< 0.35	< 0.36 J	< 0.42 J	< 0.36	< 0.22	NA	< 0.42	< 0.46	< 0.45	< 0.42
1,2,4-Trichlorobenzene	ug/l	9	70	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.37	NA	NA	NA	NA
1,2-Dichlorobenzene	ug/l	600	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.35	NA	NA	NA	NA
1,3-Dichlorobenzene	ug/l	600	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.33	NA	NA	NA	NA
1,4-Dichlorobenzene	ug/l	75	75	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.35	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/l	700	NS	< 1.4	< 1.6	< 1.3	< 1.3	< 2	< 2.1	< 2.1 J	< 2.5 J	< 2.1	< 1.1	< 2	< 1.3	< 1.4	< 1.4	< 1.3
2,4,6-Trichlorophenol	ug/l	20	NS	< 1.3	< 1.4	< 1.2	< 1.2	< 1.3	< 1.3	< 1.4 J	< 1.6 J	< 1.4	< 1	< 1.6	< 1.2	< 1.3	< 1.3	< 1.2
2,4-Dichlorophenol	ug/l	20	NS	< 1.3	< 1.4	< 1.2	< 1.2	< 1.6	< 1.7	< 1.7 J	< 2 J	< 1.7	< 1.4	< 1.9	< 1.2	< 1.3	< 1.3	< 1.2
2,4-Dimethylphenol	ug/l	100	NS	< 1.8	< 1.9	< 1.7	< 1.7	< 1.7	< 1.7	< 1.8 J	< 2.1 J	< 1.8	< 1.7	< 2	< 1.7	< 1.8	< 1.8	< 1.7
2,4-Dinitrophenol	ug/l	40	NS	< 0.8	< 0.87	< 0.74	< 0.74 J	< 0.94	< 0.95	< 0.98 J	< 1.2 J	< 0.99	< 1.1	< 4.2	< 0.74	< 0.8	< 0.78	< 0.74
2,4-Dinitrotoluene	ug/l	NS	NS	< 0.24 J	< 0.26	< 0.22	< 0.22	< 0.91	< 0.91	< 0.95 J	< 1.1 J	< 0.96	< 0.54	< 0.45	< 0.22	< 0.24 J	< 0.23	< 0.22
2,6-Dinitrotoluene	ug/l	NS	NS	< 0.35	< 0.38	< 0.33	< 0.33	< 0.59	< 0.59	< 0.61 J	< 0.73 J	< 0.62	< 0.5	< 0.6	< 0.33	< 0.35	< 0.35	< 0.33
2-Chloronaphthalene	ug/l	600	NS	< 0.45	< 0.49	< 0.42	< 0.42	< 1	< 1	< 1.1 J	< 1.3 J	< 1.1	< 0.2	< 0.48	< 0.42	< 0.45	< 0.44	< 0.42
2-Chlorophenol	ug/l	40	NS	< 1.2	< 1.3	< 1.1	< 1.1	< 1	< 1	< 1 J	< 1.2 J	< 1.1	< 0.87	< 1.5	< 1.1	< 1.2	< 1.1	< 1.1
2-Methylnaphthalene	ug/l	NS	NS	< 0.72	< 0.77	< 0.66	< 0.66	< 0.43	< 0.43	< 0.45 J	< 0.53 J	< 0.45	< 0.76	< 0.43	< 0.66	< 0.72	< 0.7	< 0.66
2-Methylphenol	ug/l	NS	NS	< 1.2	< 1.3	< 1.1	< 1.1	< 1.4	< 1.4	< 1.5 J	< 1.8 J	< 1.5	< 1	< 1.4	< 1.1	< 1.2	< 1.2	< 1.1
2-Nitroaniline	ug/l	NS	NS	< 0.26	< 0.28	< 0.24	< 0.24	< 0.7	< 0.7	< 0.73 J	< 0.86 J	< 0.74	< 0.5	< 0.45	< 0.24	< 0.26	< 0.25	< 0.24
2-Nitrophenol	ug/l	NS	NS	< 1.3	< 1.5	< 1.2	< 1.2	< 1.9	< 1.9	< 2 J	< 2.4 J	< 2	< 1.5	< 1.9	< 1.2	< 1.3	< 1.3	< 1.2
3&4-Methylphenol	ug/l	NS	NS	< 1.1	< 1.2	< 1	< 1	< 1.3	< 1.4	< 1.4 J	< 1.6 J	< 1.4	< 1.1	< 1.5	< 1	< 1.1	< 1.1	< 1
3,3'-Dichlorobenzidine	ug/l	30	NS	< 0.32	< 0.35	< 0.3	< 0.3	< 1.3	< 1.3	< 1.3 J	< 1.6 J	< 1.4	< 0.97	< 4.6	< 0.3	< 0.32	< 0.31	< 0.3
3-Nitroaniline	ug/l	NS	NS	< 0.31	< 0.34	< 0.29	< 0.29	< 1.3	< 1.3	< 1.4 J	< 1.6 J	< 1.4	< 0.32	< 0.45	< 0.29	< 0.31	< 0.31	< 0.29
4,6-Dinitro-2-methylphenol	ug/l	NS	NS	< 0.56	< 0.6	< 0.51	< 0.51	< 0.76	< 0.77	< 0.79 J	< 0.94 J	< 0.8	< 2.2	< 1.2	< 0.51	< 0.56	< 0.55	< 0.51
4-Bromophenyl phenyl ether	ug/l	NS	NS	< 0.38	< 0.41	< 0.35	< 0.35	< 0.31	< 0.32	< 0.33 J	< 0.39 J	< 0.33	< 0.37	< 0.41	< 0.35	< 0.38	< 0.37	< 0.35
4-Chloro-3-Methylphenol	ug/l	NS	NS	< 1.1	< 1.2	< 1.1	< 1.1	< 1.2	< 1.3	< 1.3 J	< 1.5 J	< 1.3	< 1.2	< 2.3	< 1.1	< 1.1	< 1.1	< 1.1
4-Chloroaniline	ug/l	30	NS	< 0.28	< 0.3	< 0.25	< 0.25	< 0.42	< 0.42	< 0.44 J	< 0.52 J	< 0.44	< 0.35	< 0.33	< 0.25	< 0.28	< 0.27	< 0.25
4-Chlorophenyl phenyl ether	ug/l	NS	NS	< 0.38	< 0.42	< 0.35	< 0.35	< 0.45	< 0.46	< 0.47 J	< 0.56 J	< 0.48	< 0.29	< 0.45	< 0.35	< 0.38	< 0.38	< 0.35
4-Nitroaniline	ug/l	NS	NS	< 0.19	< 0.21	< 0.18	< 0.18	< 0.76	< 0.77	< 0.79 J	< 0.94 J	< 0.8	< 0.59	< 0.45	< 0.18	< 0.19	< 0.19	< 0.18
4-Nitrophenol	ug/l	NS	NS	< 0.9	< 0.97	< 0.83	< 0.83	< 0.89	< 0.9	< 0.93 J	< 1.1 J	< 0.94	< 1.6	< 2.3	< 0.83	< 0.9	< 0.88	< 0.83
Acenaphthene	ug/l	400	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	ug/l	700	NS	< 0.43	< 0.47	< 0.4	< 0.4	< 0.39	< 0.4	< 0.41 J	< 0.49 J	< 0.42	< 0.36	NA	< 0.4	< 0.43	< 0.42	< 0.4
Anthracene	ug/l	2000	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	ug/l	3	3	< 0.43	< 0.46	< 0.39	< 0.39	< 0.17	< 0.17	< 0.18 J	< 0.21 J	< 0.18	< 0.28	NA	< 0.39	< 0.43	< 0.42	< 0.39
Benzaldehyde	ug/l	NS	NS	< 0.44	< 0.48	< 0.4	< 0.4	< 0.28	< 0.28	< 0.29 J	< 0.34 J	< 0.29	< 0.76	NA	< 0.4	< 0.44	< 0.43	< 0.4
Benzo(a)anthracene	ug/l	0.1 [0.2]	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/l	0.1 [0.2]	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/l	0.2 [10]	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/l	0.5	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzyl butyl phthalate	ug/l	100	NS	< 0.27	< 0.3	< 0.25	< 0.25	< 0.62	< 0.63	< 0.65 J	< 0.77 J	< 0.66	< 0.64	< 0.42	< 0.25	< 0.27	< 0.27	< 0.25
bis(2-Chloroethoxy)methane	ug/l	NS	NS	< 0.27	< 0.29	< 0.25	< 0.25	< 0.69	< 0.7	< 0.72 J	< 0.85 J	< 0.73	< 0.32	< 0.52	< 0.25	< 0.27	< 0.26	< 0.25
bis(2-Chloroethyl)ether	ug/l	7	NS	< 0.34	< 0.36	< 0.31	< 0.31	< 0.56	< 0.56	< 0.58 J	< 0.69 J	< 0.59	< 0.67	< 0.49	< 0.31	< 0.34	< 0.33	< 0.31
bis(2-Chloroisopropyl)ether	ug/l	300	NS	< 0.42	< 0.46	< 0.39	< 0.39	< 0.78	< 0.79	< 0.81 J	< 0.96 J	< 0.82	< 0.58	< 0.54	< 0.39	< 0.42	< 0.41	< 0.39
bis(2-Ethylhexyl)phthalate	ug/l	3	6	< 2.2 J	< 0.38	< 0.33	< 0.33	< 0.7	< 0.7	< 0.73 J	< 0.86 J	< 0.73	< 0.88	< 0.75	< 0.33	< 6.8 J	1.5 J	< 0.33
Caprolactam	ug/l	NS	NS	< 0.21	< 0.23	< 0.2	< 0.2	< 0.33	< 0.34	< 0.35 J	< 0.41 J	< 0.35	< 0.49	NA	< 0.2	< 0.21	< 0.21	< 0.2
Carbazole	ug/l	NS	NS	< 0.18	< 0.19	< 0.17	< 0.17	< 0.38	< 0.39	< 0.4 J	< 0.47 J	< 0.4	< 0.4	< 0.45	< 0.17	< 0.18	< 0.18	< 0.17
Chrysene	ug/l	5	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	ug/l	0.3 [0.5]	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/l	NS	NS	< 0.33	< 0.36	< 0.3	< 0.3	< 0.36	< 0.37	< 0.38 J	< 0.45 J	< 0.38	< 0.23	< 0.49	< 0.3	< 0.33	< 0.32	< 0.3
Diethyl phthalate	ug/l	6000	NS	< 0.18	< 0.19	< 0.17	< 0.17	< 0.41	< 0.41	< 0.43 J	< 0.51 J	< 0.43	< 0.34	< 0.36	< 0.17	< 0.18	< 0.18	< 0.17
Dimethyl phthalate	ug/l	NS	NS	< 0.24	< 0.26	< 0.23	< 0.23	< 0.35	< 0.35	< 0.36 J	< 0.43 J	< 0.36	< 0.34	< 0.36	< 0.23	< 0.24	1.5 J	< 0.23
di-n-butyl phthalate	ug/l	700	NS	< 0.21	< 0.22	< 0.19	< 0.19	< 0.62	< 0.63	< 0.65 J	< 0.77 J	< 0.66	< 0.4	< 0.5	< 0.19	< 0.21	< 0.2	< 0.19
di-n-octylphthalate	ug/l	100	NS	< 0.43	< 0.46	< 0.4	< 0.4	< 0.6	< 0.61	< 0.63 J	< 0.74 J	< 0.63	< 0.48	< 0.5	< 0.4	< 0.43	< 0.42	< 0.4
Fluoranthene	ug/l	300	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	ug/l	300	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	ug/l	0.02 [10]	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/l	1	NS	< 0.4 J	< 0.15	< 0.13	< 0.13	< 0.18	< 0.19	< 0.19 J	< 0.23 J	< 0.19	< 0.13	< 0.38	< 0.37	< 0.4 J	< 0.14	< 0.13
Hexachlorocyclopentadiene	ug/l	40	50	< 0.73	< 0.29	< 0.24	< 0.24	< 0.43	< 0.43	< 0.45 J	< 0.53 J	< 0.45	< 0.1	< 4.5	< 0.67	< 0.73	< 0.26	< 0.24
Hexachloroethane	ug/l	7	NS	< 0.29	< 0.25	< 0.21	< 0.21	< 0.3	< 0.3	< 0.31 J	< 0.37 J	< 0.31	< 0.16	< 0.3	< 0.26	< 0.29	< 0.22	< 0.21
Indeno(1,2,3-cd)pyrene	ug/l	0.2 [10]	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophrone	ug/l	40	NS	< 0.27	< 0.29	< 0.25	< 0.25	< 0.62	< 0.63	< 0.65 J	< 0.76 J	< 0.65	< 0.49	< 0.69	< 0.25	< 0.27	< 0.26	< 0.25
Naphthalene	ug/l	300	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	ug/l	6	NS	< 0.28	< 0.3	< 0.25	< 0.25	< 0.44	< 0.45	< 0.46 J	< 0.54 J	< 0.47	< 0.71	< 0.66	< 0.25	< 0.28	< 0.27	< 0.25
N-Nitroso-di-n-Propylamine	ug/l	10	NS	< 0.48	< 0.52	< 0.44	< 0.44	< 0.49	< 0.5	< 0.51 J	< 0.61 J	< 0.52	< 0.38	< 0.39	< 0.44	< 0.48	< 0.47	< 0.44
N-Nitrosodiphenylamine	ug/l	10	NS	< 0.23	< 0.25	< 0.22	< 0.22	< 0.54	< 0.55	< 0.57 J	< 0.67 J	< 0.57	0.6 J	0.61 J	0.69 J	< 0.23	0.64 J	< 0.22
Pentachlorophenol	ug/l	0.3 [1]	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	ug/l	2000	NS	< 0.63	< 0.68	< 0.58	< 0.58	< 0.52	< 0.53	< 0.55 J	< 0.64 J	< 0.55	< 0.68	< 1.4	< 0.58	< 0.63	< 0.61	< 0.58
Pyrene	ug/l	200	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total TIC, Semi-Volatile	ug/l	NS	NS	0	0	0	0	13.7 J	13.2 J	12.8 J	6.4 J	19 J	11.3 J	4.3 J	4.9 J	0	0	4 J

Location ID		GWQS[1]	EPA	OB-20A	OB-20A	OB-20A	OB-20A	OB-20B	OB-20B	OB-20B	OB-20B	OB-20B	OB-20B	OB-20B	OB-20B	OB-20B	OB-20B
Sample ID			MCLs	OB-20A(102809)	OB-20A(060210)	OB-20A(051811)	OB-20A(051811) DUP	MW-20 OB-34	REP100406	DUP(040507) (OB20B)(040507)	OB20B(040507)	OB-20B (071011)	OB-20B(080429)	OB-20B(080915)	OB-20B(070909)	OB-20B(102809)	OB-20B(060210)	OB-20B(051811)
Sample Date	Units			10/28/2009	6/2/2010	5/18/2011	5/18/2011	10/4/2006	10/4/2006	4/5/2007	4/5/2007	10/11/2007	4/29/2008	9/15/2008	7/9/2009	10/28/2009	6/2/2010	5/18/2011
SVOC BY SIM																		
Acenaphthene	ug/l	400	NS	< 0.032	< 0.034	< 0.014	< 0.014	< 0.018	< 0.018	< 0.019 J	< 0.022 J	< 0.019	< 0.016	< 0.016	< 0.016	< 0.032	< 0.031	< 0.014
Acenaphthylene	ug/l	NS	NS	< 0.043	< 0.046	< 0.016	< 0.016	< 0.01	< 0.01	< 0.01 J	< 0.012 J	< 0.011	< 0.007	< 0.007	< 0.007	< 0.043	< 0.042	< 0.016
Anthracene	ug/l	2000	NS	< 0.028	< 0.03	< 0.01	< 0.01	< 0.022	< 0.022	< 0.023 J	< 0.027 J	< 0.023	< 0.021	< 0.021	< 0.021	< 0.028	< 0.027	< 0.01
Benzo(a)anthracene	ug/l	0.1 [0.2]	NS	< 0.026	< 0.028	< 0.015	< 0.015	< 0.0072	< 0.0072	< 0.0075 J	< 0.0088 J	< 0.0076	< 0.034	< 0.034	< 0.034	< 0.026	< 0.025	< 0.015
Benzo(a)pyrene	ug/l	0.1 [0.2]	0.2	< 0.033	< 0.036	< 0.0049	< 0.0049	< 0.018	< 0.018	< 0.019 J	< 0.022 J	< 0.019	< 0.036	< 0.036	< 0.036	< 0.033	< 0.033	< 0.0049
Benzo(b)fluoranthene	ug/l	0.2 [10]	NS	< 0.039	< 0.042	< 0.016	< 0.016	< 0.038	< 0.039	< 0.04 J	< 0.047 J	< 0.04	< 0.017	< 0.017	< 0.017	< 0.039	< 0.038	< 0.016
Benzo(g,h,i)perylene	ug/l	NS	NS	< 0.031	< 0.034	< 0.01	< 0.01	< 0.019	< 0.019	< 0.02 J	< 0.023 J	< 0.02	< 0.012	< 0.012	< 0.012	< 0.031	< 0.031	< 0.01
Benzo(k)fluoranthene	ug/l	0.5	NS	< 0.031	< 0.033	< 0.013	< 0.013	< 0.017	< 0.017	< 0.017 J	< 0.02 J	< 0.017	< 0.019	< 0.019	< 0.019	< 0.031	< 0.03	< 0.013
Chrysene	ug/l	5	NS	< 0.024	< 0.026	< 0.023	< 0.023	< 0.018	< 0.018	< 0.018 J	< 0.022 J	< 0.019	< 0.018	< 0.018	< 0.018	< 0.024	< 0.023	< 0.023
Dibenzo(a,h)anthracene	ug/l	0.3 [0.5]	NS	< 0.024	< 0.026	< 0.023	< 0.023	< 0.017	< 0.017	< 0.018 J	< 0.021 J	< 0.018	< 0.02	< 0.02	< 0.02	< 0.024	< 0.024	< 0.023
Fluoranthene	ug/l	300	NS	< 0.026	< 0.029	< 0.0096	< 0.0096	< 0.0095	< 0.0096	< 0.0099 J	< 0.012 J	< 0.01	< 0.0096	< 0.0096	< 0.0096	< 0.026	< 0.026	< 0.0096
Fluorene	ug/l	300	NS	< 0.029	< 0.032	< 0.015	< 0.015	< 0.021	< 0.021	< 0.022 J	< 0.026 J	< 0.022	< 0.02	< 0.02	< 0.02	< 0.029	< 0.029	< 0.015
Hexachlorobenzene	ug/l	0.02 [10]	1	< 0.011	< 0.012	< 0.008	< 0.008	< 0.064	< 0.065	< 0.022 J	< 0.026 J	< 0.022	< 0.0099	< 0.0099	< 0.0099	< 0.011	< 0.011	< 0.008
Indeno(1,2,3-cd)pyrene	ug/l	0.2 [10]	NS	< 0.032	< 0.034	< 0.011	< 0.011	< 0.012	< 0.012	< 0.012 J	< 0.014 J	< 0.012	< 0.014	< 0.014	< 0.014	< 0.032	< 0.031	< 0.011
Naphthalene	ug/l	300	NS	< 0.02	< 0.022	< 0.016	< 0.016	0.53	0.51	0.357 J	0.316 J	1.02	0.355	0.815	0.663	< 0.02	0.59	0.321
Pentachlorophenol	ug/l	0.3 [1]	1	< 0.24 J	< 0.08	< 0.29	< 0.29	< 0.42	< 0.42	< 0.33 J	< 0.39 J	R	< 0.22	< 0.22	< 0.22	< 0.24 J	< 0.072	< 0.29
Phenanthrene	ug/l	NS	NS	< 0.039	< 0.042	< 0.016	< 0.016	< 0.022	< 0.022	< 0.023 J	< 0.027 J	< 0.023	< 0.017	< 0.017	< 0.017	< 0.039	< 0.038	< 0.016
Pyrene	ug/l	200	NS	< 0.024	< 0.026	< 0.0081	< 0.0081	< 0.015	< 0.015	< 0.015 J	< 0.018 J	< 0.016	< 0.012	< 0.012	< 0.012	< 0.024	< 0.024	< 0.0081
PCBs																		
PCB 1016	ug/l	0.5	0.5	< 0.33	< 0.3	< 0.14	< 0.14	< 0.1	< 0.099	< 0.1	< 0.099	< 0.094	< 0.1	< 0.094	< 0.19	< 0.33	< 0.3	< 0.14
PCB 1221	ug/l	0.5	0.5	< 0.45	< 0.41	< 0.29	< 0.29	< 0.5	< 0.49	< 0.51	< 0.49	< 0.47	< 0.52	< 0.47	< 0.31	< 0.46	< 0.41	< 0.29
PCB 1232	ug/l	0.5	0.5	< 0.34	< 0.31	< 0.41	< 0.41	< 0.41	< 0.41	< 0.42	< 0.41	< 0.39	< 0.43	< 0.39	< 0.21	< 0.34	< 0.31	< 0.41
PCB 1242	ug/l	0.5	0.5	< 0.29	< 0.27	< 0.092	< 0.091	< 0.17	< 0.17	< 0.18	< 0.17	< 0.16	< 0.18	< 0.16	< 0.089	< 0.3	< 0.27	< 0.092
PCB 1248	ug/l	0.5	0.5	< 0.3	< 0.28	< 0.16	< 0.15	< 0.16	< 0.16	< 0.17	< 0.16	< 0.15	< 0.17	< 0.15	< 0.25	< 0.31	< 0.28	< 0.16
PCB 1254	ug/l	0.5	0.5	< 0.2	< 0.18	< 0.15	< 0.15	< 0.12	< 0.11	< 0.12	< 0.11	< 0.11	< 0.12	< 0.11	< 0.11	< 0.2	< 0.18	< 0.15
PCB 1260	ug/l	0.5	0.5	< 0.15	< 0.14	< 0.22	< 0.22	< 0.12	< 0.12	< 0.13	< 0.12	< 0.12	< 0.13	< 0.12	< 0.14	< 0.16	< 0.14	< 0.22
Total PCBs	ug/l	0.5	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pesticides/Herbicides																		
4,4-DDD	ug/l	0.1	NS	NA	NA	NA	NA	< 0.0026	< 0.0025	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,4-DDE	ug/l	0.1	NS	NA	NA	NA	NA	< 0.0018	< 0.0018	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,4-DDT	ug/l	0.1	NS	NA	NA	NA	NA	< 0.0052	< 0.0052	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aldrin	ug/l	0.04	NS	NA	NA	NA	NA	< 0.0036	< 0.0035	NA	NA	NA	NA	NA	NA	NA	NA	NA
alpha-BHC	ug/l	0.02	NS	NA	NA	NA	NA	< 0.0028	< 0.0027	NA	NA	NA	NA	NA	NA	NA	NA	NA
alpha-Chlordane	ug/l	NS	NS	NA	NA	NA	NA	< 0.0046	< 0.0046	NA	NA	NA	NA	NA	NA	NA	NA	NA
beta-BHC	ug/l	0.04	NS	NA	NA	NA	NA	< 0.0066	< 0.0065	NA	NA	NA	NA	NA	NA	NA	NA	NA
delta-BHC	ug/l	NS	NS	NA	NA	NA	NA	< 0.0033	< 0.0033	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dieldrin	ug/l	0.03	NS	NA	NA	NA	NA	< 0.0018	< 0.0018	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan I (alpha)	ug/l	40	NS	NA	NA	NA	NA	< 0.0022	< 0.0022	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan II (beta)	ug/l	40	NS	NA	NA	NA	NA	< 0.0034	< 0.0034	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan sulfate	ug/l	40	NS	NA	NA	NA	NA	< 0.0049	< 0.0049	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endrin	ug/l	2	2	NA	NA	NA	NA	< 0.0032	< 0.0032	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endrin Aldehyde	ug/l	NS	NS	NA	NA	NA	NA	< 0.0069	< 0.0068	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endrin ketone	ug/l	NS	NS	NA	NA	NA	NA	< 0.0037	< 0.0037	NA	NA	NA	NA	NA	NA	NA	NA	NA
gamma-Chlordane	ug/l	NS	NS	NA	NA	NA	NA	< 0.0018	< 0.0018	NA	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor	ug/l	0.05	0.4	NA	NA	NA	NA	< 0.0027	< 0.0027	NA	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor epoxide	ug/l	0.2	0.2	NA	NA	NA	NA	< 0.0016	< 0.0015	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lindane	ug/l	0.03	0.2	NA	NA	NA	NA	< 0.0018	< 0.0018	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	ug/l	40	40	NA	NA	NA	NA	< 0.0072	< 0.0071	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toxaphene	ug/l	2	3	NA	NA	NA	NA	< 0.1	< 0.099	NA	NA	NA	NA	NA	NA	NA	NA	NA

Location ID		GWQS[1]	EPA	OB-20A	OB-20A	OB-20A	OB-20A	OB-20B	OB-20B	OB-20B	OB-20B	OB-20B	OB-20B	OB-20B	OB-20B	OB-20B	OB-20B
Sample ID			MCLs	OB-20A(102809)	OB-20A(060210)	OB-20A(051811)	OB-20A(051811) DUP	MW-20 OB-34	REP100406	DUP(040507) (OB20B)(040507)	OB20B(040507)	OB-20B (071011)	OB-20B(080429)	OB-20B(080915)	OB-20B(070909)	OB-20B(102809)	OB-20B(060210)	OB-20B(051811)
Sample Date	Units			10/28/2009	6/2/2010	5/18/2011	5/18/2011	10/4/2006	10/4/2006	4/5/2007	4/5/2007	10/11/2007	4/29/2008	9/15/2008	7/9/2009	10/28/2009	6/2/2010	5/18/2011
Metals - Total																		
Aluminum	ug/l	200	NS	158 B	192 B	**1050 J**	**393 J**	**515 J**	**311 J**	50.9 B	< 23	104 B	101 B	107 BJ	< 26	27.4 B	80.9 B	53.3 J
Antimony	ug/l	6	6	< 2.9	3.2 B	< 1.3	< 1.3	< 4.4	< 4.4	< 5	< 5	< 0.9	< 1.8	< 1.8	< 4	< 2.9	< 2.2	< 1.3
Arsenic	ug/l	3 [8]	10	< 2.4	**7.9**	< 0.92	< 0.92	1.5 B	1.9 B	< 1.5	1.5 B	1.2 B	< 1.7	**3.8**	< 3	< 2.4	< 1.4	< 0.92
Barium	ug/l	6000	2000	160 B	92.9 B	121 B	122 B	69.9 B	72.5 B	64 B	64.4 B	68.5 B	52.4 B	57.4 B	58.7 B	50.5 B	39.2 B	47.9 B
Beryllium	ug/l	1	4	< 0.4	< 0.24	< 0.24	< 0.24	< 0.5	< 0.5	< 0.4	< 0.4	< 0.15	0.4 B	0.3 B	< 1	< 0.4	< 0.24	< 0.24
Cadmium	ug/l	4	5	< 0.4	< 0.35	< 3	< 0.17	< 0.6	< 0.6	< 1.3	< 1.3	< 0.24	< 0.28	< 0.28	< 0.4	< 0.4	0.6 B	< 0.17
Calcium	ug/l	NS	NS	33700	22200	19400	20300	56800	57800	51000	52300	55900	41300	44400	45200	41200	32600	39400
Chromium	ug/l	70	100	< 10	< 0.59	2.8 J	1.6 J	< 1.6	< 1.6	< 0.8	< 0.8	1.9 B	< 0.53	< 0.53	< 0.9	< 10	< 0.59	2.2 J
Cobalt	ug/l	NS	NS	< 1.6	< 0.65	2.4 J	2.2 J	24.8 B	25.5 B	23.6 B	23.9 B	28.8 B	19 B	19.8 B	21 B	17.8 B	15.6 B	18.8 B
Copper	ug/l	1,300	1300	< 1.6	< 2.5	8.6 B	3.6 J	< 2.3	< 2.3	< 2.7	< 2.7	< 3.3	6.1 B	1.6 B	< 10	< 1.6	< 2.5	< 0.85
Iron	ug/l	300	NS	**30900 J**	**31400**	**28100**	**27800**	**35000**	**35400**	**31200**	**31500**	**34900**	**26400**	**29200**	**32000**	**26100 J**	**22600**	**27000**
Lead	ug/l	5	15	< 1.7	1.9 B	**5.6**	2.8 B	3.1	3.5	< 2.8	< 2.8	1.1 B	3.8	< 1.4	< 1.7	< 1.7	< 1.9	2.5 B
Magnesium	ug/l	NS	NS	3370 B	2310 B	2400 B	2360 B	11500	11800	10500	10500	11300	8100	8580	8920	7160	5780	7510
Manganese	ug/l	50	NS	**964**	**1160**	**507**	**534**	**9430**	**9730**	**8520**	**8680**	**9120**	**6800**	**7060**	**7850**	**6230**	**4990**	**6600**
Mercury	ug/l	2	2	< 0.082	< 0.082	< 0.088	< 0.088	< 0.08	< 0.08	< 0.037	< 0.037	< 0.15	< 0.15	< 0.049	< 0.049	< 0.082	< 0.082	< 0.088
Nickel	ug/l	100	NS	1.8 B	< 10	6.3 B	5 B	< 1.6	< 1.6	3.7 B	3.4 B	6.1 B	3.6 B	3.5 B	4.6 BJ	3.6 B	4.1 J	4.7 B
Potassium	ug/l	NS	NS	2840 J	1840 B	1610 B	1570 B	2910 B	3130 B	2880 B	2840 B	2650 B	2530 B	2580 B	2520 B	2200 J	2180 B	2220 B
Selenium	ug/l	40	50	< 3.7	< 10	< 1.5	< 1.5	< 3	< 3	< 6.2	< 6.2	< 0.73	< 1.6	2.7 B	< 3.7	< 3.7	< 10	< 1.5
Silver	ug/l	40	NS	< 1	< 0.53	< 0.72	< 0.72	< 1.9	< 1.9	< 1	< 1	< 0.83	< 1	< 1	< 10	1.2 B	< 0.53	< 0.72
Sodium	ug/l	50,000	NS	3290 B	2050 B	2000 B	2040 B	6060 BJ	6510 BJ	5740 B	5700 B	5630 B	4370 B	4620 B	4300 B	3930 B	3590 B	3850 B
Thallium	ug/l	2 [10]	2	1.5 B	< 1.8	< 0.17	< 0.17	< 0.09	< 0.09	< 0.09	< 0.09	< 1.4	< 1.3	< 1.3	< 1.5	1.6 B	< 1.8	< 0.17
Vanadium	ug/l	NS	NS	< 0.9	2.7 B	3.1 B	1.7 B	< 1.9	< 1.9	< 1.8	< 1.8	1.1 B	1.9 B	3.1 B	< 0.9	< 0.9	2.5 B	< 0.43
Zinc	ug/l	2000	NS	18.4 B	12.1 J	48.1	40.3	11.7 B	11.1 BJ	< 3.4	< 3.4	< 2.7	10.2 B	8.9 B	5.1 BJ	9.7 B	15.4 J	8.5 J
Metals - Dissolved																		
Aluminum	ug/l	200	NS	< 26	35 B	< 200	< 200	< 110	< 110	< 23	< 23	< 26	< 24	< 24	< 26	43 B	41.4 B	< 200
Antimony	ug/l	6	6	< 2.9	< 2.2	< 1.3	< 1.3	< 4.4	< 4.4	< 5	< 5	< 0.9	< 1.8	< 1.8	< 4	< 2.9	< 2.2	< 1.3
Arsenic	ug/l	3 [8]	10	< 2.4	< 1.4	< 0.92	< 0.92	< 1.5	1.6 B	< 1.5	< 1.5	< 1.1	< 1.7	< 1.7	< 2.4	< 2.4	< 1.4	< 0.92
Barium	ug/l	6000	2000	141 B	72.8 B	117 B	120 B	60.3 B	63.3 B	62.3 B	61.5 B	47.2 B	39.8 B	35 B	42.3 B	36.5 B	27.3 B	38.4 B
Beryllium	ug/l	1	4	< 0.4	< 0.24	< 0.24	< 0.24	< 0.5	< 0.5	< 0.4	< 0.4	< 0.15	0.3 B	0.2 B	< 1	< 0.4	< 0.24	< 0.24
Cadmium	ug/l	4	5	< 0.4	< 0.35	< 0.17	< 0.17	< 0.6	< 0.6	< 1.3	< 1.3	< 0.24	< 0.28	< 0.28	< 0.4	0.4 B	< 0.35	< 0.17
Calcium	ug/l	NS	NS	33900	21700	20500	21100	55700	55500	50600	49800	54400	39400	41000	44200	39700	31400	38400
Chromium	ug/l	70	100	< 10	< 0.59	< 0.9	< 0.9	< 1.6	1.8 B	< 0.8	< 0.8	1.7 B	< 0.53	< 0.53	< 0.9	< 10	< 0.59	< 0.9
Cobalt	ug/l	NS	NS	< 1.6	0.7 B	2 J	2 J	24.4 B	23.6 B	23.4 B	22.9 B	27 B	17.9 B	18.5 B	20.3 B	17.8 B	14.3 B	18.1 B
Copper	ug/l	1,300	1300	< 1.6	< 2.5	< 0.85	< 0.85	< 2.3	< 2.3	< 2.7	< 2.7	< 3.3	4.5 B	< 1.1	< 1.6	< 1.6	< 2.5	< 0.85
Iron	ug/l	300	NS	**20600 J**	**8150**	**16500**	**19900**	**32400**	**32600**	**30400**	**30100**	**11400**	**19600**	**823**	**14700**	**1040 J**	**2680**	**20000**
Lead	ug/l	5	15	< 1.7	< 1.9	1 J	< 0.94	< 2.6	< 2.6	3.6	2.9 B	1 B	2.4 B	< 1.4	< 1.7	< 1.7	< 1.9	2.2 B
Magnesium	ug/l	NS	NS	3360 B	2220 B	2290 B	2330 B	11300	11400	10500	10200	11000	7760	8000	8750	7190	5580	7340
Manganese	ug/l	50	NS	**979**	**1070**	**536**	**550**	**9150**	**9190**	**8450**	**8300**	**8970**	**6480**	**6690**	**7720**	**6530**	**4800**	**6430**
Mercury	ug/l	2	2	< 0.082	< 0.082	< 0.088	< 0.088	< 0.08	< 0.08	0.048 B	< 0.037	< 0.15	< 0.15	< 0.049	< 0.049	< 0.082	< 0.082	< 0.088
Nickel	ug/l	100	NS	1.9 B	< 10	3.6 B	4.3 B	< 1.6	< 1.6	3.3 B	< 2.8	5.6 B	4.3 B	3.7 B	4.3 BJ	4.4 B	< 10	3.9 B
Potassium	ug/l	NS	NS	2780 B	1750 B	1500 B	1530 B	2680 B	2680 B	2900 B	2830 B	2610 B	2370 B	2280 B	2440 B	2180 B	2110 B	2160 B
Selenium	ug/l	40	50	< 3.7	< 10	< 1.5	< 1.5	< 3	< 3	< 6.2	< 6.2	< 0.73	< 1.6	2 B	< 3.7	< 3.7	< 10	< 1.5
Silver	ug/l	40	NS	< 1	< 0.53	< 0.72	< 0.72	< 1.9	< 1.9	< 1	< 1	< 0.83	< 1	< 1	< 10	< 1	< 0.53	< 0.72
Sodium	ug/l	50,000	NS	3240 B	2000 B	2010 B	2000 B	5490 BJ	5810 BJ	5890 B	6210 B	5540 B	4190 B	4230 B	4270 B	3920 B	3460 B	3770 B
Thallium	ug/l	2 [10]	2	1.9 B	< 1.8	< 0.17	< 0.17	< 0.09	< 0.09	< 0.09	< 0.09	< 1.4	< 1.3	< 1.3	< 1.5	< 1.5	< 1.8	< 0.17
Vanadium	ug/l	NS	NS	< 0.9	0.6 B	< 0.43	< 0.43	< 1.9	< 1.9	< 1.8	< 1.8	< 0.49	0.8 B	< 0.43	< 0.9	< 0.9	0.8 B	< 0.43
Zinc	ug/l	2000	NS	14.4 B	< 20	37.9	39.2	6 BJ	21.2	8.9 B	9.2 B	< 2.7	< 4	5.5 B	< 20	5.7 B	8.5 J	8.5 J
Other																		
Alkalinity, Bicarbonate	ug/l	NS	NS	NA	NA	NA	NA	215000	213000	222000	223000	207000	159000	167000	NA	NA	NA	NA
Alkalinity, Carbonate	ug/l	NS	NS	NA	NA	NA	NA	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	NA	NA	NA	NA
Alkalinity, total (as CaCO3)	ug/l	NS	NS	98600	69200	56200	68000	215000	213000	222000	223000	207000	159000	167000	181000	156000	120000	157000
BOD, 5 Day	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromide	ug/l	NS	NS	NA	NA	NA	NA	< 150	< 150	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	ug/l	250000	NS	< 2000	< 2000	< 2000	< 2000	2100	2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000
COD	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide	ug/l	100	200	NA	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA
Nitrate	ug/l	10000	10000	NA	NA	NA	NA	< 110	< 110	< 110	130	< 110	< 110	< 110	NA	NA	NA	NA
Nitrogen, Nitrate + Nitrite	ug/l	10000	NS	NA	NA	NA	NA	< 100	< 100	< 100	130	< 100	< 100	< 100	NA	NA	NA	NA
Nitrogen, Nitrite	ug/l	1000	1000	NA	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA
Phosphorus, Total	ug/l	NS	NS	NA	NA	NA	NA	440	480	390	330	300	250	330	NA	NA	NA	NA
Sulfate	ug/l	250000	NS	< 10000	< 10000	< 10000	< 10000	< 2000	< 2000	< 10000	< 10000	< 10000	< 10000	< 10000	< 10000	< 10000	< 10000	< 10000
Total Dissolved Solids	ug/l	500000	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total organic carbon	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See footnotes on last page

Location ID		GWQS[1]	EPA	OB-21	OB-21	OB-21	OB-21	OB-21	OB-21	OB-21	OB-21	OB-21	OB-21	OB-21	OB-22	OB-22	OB-22	OB-22	OB-22	OB-22	OB-23
Sample ID			MCLs	MW-21	REP100506	OB-21(040907)	OB-21(071015)	OB-21(080429)	OB-21(080912)	OB-21(070709)	OB-21(070709) Dup	OB-21(102709)	OB-21(060110)	OB-21(051811)	OB-22	OB-22(040407)	OB-22(080501)	OB-22(070809)	OB-22(052810)	OB-22(051911)	OB-23
Sample Date	Units			10/5/2006	10/5/2006	4/9/2007	10/15/2007	4/29/2008	9/12/2008	7/7/2009	7/7/2009	10/27/2009	6/1/2010	5/18/2011	11/30/2006	4/4/2007	5/1/2008	7/8/2009	5/28/2010	5/19/2011	11/28/2006
VOC																					
1,1,1,2-Tetrachloroethane	ug/l	1	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/l	30	200	< 0.28	< 0.28	< 0.28	< 0.3	< 0.24	< 0.24	< 0.26	< 0.26	< 0.26	< 0.26	< 0.24	< 0.28	< 0.28	< 0.24	< 0.26	< 0.26	< 0.2	< 0.28
1,1,2,2-Tetrachloroethane	ug/l	1	NS	< 0.28	< 0.28	< 0.28	< 0.8	< 0.13	< 0.13	< 0.24	< 0.24	< 0.24	< 0.24	< 0.2	< 0.28	< 0.28	< 0.13	< 0.24	< 0.24	< 0.12	< 0.28
1,1,2-Trichloroethane	ug/l	3	5	< 0.32	< 0.32	< 0.32	< 0.49	< 0.17	< 0.17	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.32	< 0.32	< 0.17	< 0.23	< 0.23	< 0.13	< 0.32
1,1-Dichloroethane	ug/l	50	NS	< 0.23	< 0.23	< 0.23	< 0.2	< 0.16	< 0.24	< 0.29	< 0.29	< 0.29	< 0.29	< 0.19	< 0.23	< 0.23	< 0.16	< 0.29	< 0.29	< 0.16	< 0.23
1,1-Dichloroethene	ug/l	1	7	< 0.33	< 0.33	< 0.33	< 0.28	< 0.29	< 0.29	< 0.4	< 0.4	< 0.4	< 0.4	< 0.28	< 0.33	< 0.33	< 0.29	< 0.4	< 0.4	< 0.24	< 0.33
1,2,4-Trichlorobenzene	ug/l	9	70	< 0.16	< 0.16	< 0.16	< 0.41	< 1.3	< 1.3	< 0.56	< 0.56	< 0.56	< 0.56	< 0.15	< 0.16	< 0.16	< 1.3	< 0.56	< 0.56	< 0.16	< 0.16
1,2-Dibromo-3-Chloropropane (DBCP)	ug/l	0.02 [1]	0.2	< 1.1	< 1.1	< 1.1	< 0.8	< 2.4	< 1.3	< 1.1	< 1.1	< 1.1	< 1.1	< 1.3	< 1.1	< 1.1	< 2.4	< 1.1	< 1.1	< 1.2	< 1.1
1,2-Dibromoethane	ug/l	0.03 [0.5]	0.05	< 0.52	< 0.52	< 0.52	< 0.45	< 0.17	< 0.18	< 0.39	< 0.39	< 0.39	< 0.39	< 0.21	< 0.52	< 0.52	< 0.17	< 0.39	< 0.39	< 0.39	< 0.52
1,2-Dichlorobenzene	ug/l	600	600	< 0.2	< 0.2	< 0.2	< 0.2	< 0.18	< 0.18	< 0.26	< 0.26	< 0.26	< 0.26	< 0.18	< 0.2	< 0.2	< 0.18	< 0.26	< 0.26	< 0.15	< 0.2
1,2-Dichloroethane	ug/l	2	5	< 0.29	< 0.29	< 0.29	< 0.29	< 0.35	< 0.35	< 0.33	< 0.33	< 0.33	< 0.33	< 0.18	< 0.29	< 0.29	< 0.35	< 0.33	< 0.33	< 0.31	< 0.29 J
1,2-Dichloropropane	ug/l	1	5	< 0.2	< 0.2	< 0.2	< 0.24	< 0.18	< 0.18	< 0.27	< 0.27	< 0.27	< 0.27	< 0.22	< 0.2	< 0.2	< 0.18	< 0.27	< 0.27	< 0.23	< 0.2
1,3-Dichlorobenzene	ug/l	600	NS	< 0.32	< 0.32	< 0.32	< 0.21	< 0.26	< 0.26	< 0.25	< 0.25	< 0.25	< 0.25	< 0.29	< 0.32	< 0.32	< 0.26	< 0.25	< 0.25	< 0.19	< 0.32
1,4-Dichlorobenzene	ug/l	75	75	< 0.24	< 0.24	< 0.24	< 0.17	< 0.32	< 0.22	< 0.28	< 0.28	< 0.28	< 0.28	< 0.26	< 0.24	< 0.24	< 0.32	< 0.28	< 0.28	< 0.22	< 0.24
2-Butanone (MEK)	ug/l	300	NS	< 2.6	< 2.6	< 2.6	< 2.7	< 2.3	< 2.3	< 1.6	< 1.6	< 1.6	< 1.6	< 2.9	< 2.6	< 2.6	< 2.3	< 1.6	< 1.6	< 1.7	< 2.6
2-Hexanone	ug/l	NS	NS	< 1.3	< 1.3	< 1.3	< 0.94	< 1.7	< 1.7	< 1.4	< 1.4	< 1.4	< 1.4	< 3	< 1.3	< 1.3	< 1.7	< 1.4	< 1.4	< 1.9	< 1.3
4-methyl-2-pentanone (MIBK)	ug/l	NS	NS	< 1.1	< 1.1	< 1.1	< 1.4	< 1.9	< 1.3	< 0.86	< 0.86	< 0.86	< 0.86	< 1.2	< 1.1	< 1.1	< 1.9	< 0.86	< 0.86	< 0.74	< 1.1
Acetone	ug/l	6000	NS	< 2.4	< 2.4	< 2.4	< 2.9	< 2.1	< 2.1	< 2.9	< 2.9	< 2.9	< 2.9	< 7.6	< 2.4	< 2.4	< 2.1	< 2.9	< 2.9	< 4.4	< 2.4
Benzene	ug/l	1	5	< 0.21	< 0.21	< 0.21	< 0.19	< 0.26	< 0.26	< 0.23	< 0.23	< 0.23	< 0.23	< 0.22	< 0.21	< 0.21	< 0.26	< 0.23	< 0.23	< 0.26	< 0.21
Bromodichloromethane	ug/l	1	80	< 0.17	< 0.17	< 0.17	< 0.15	< 0.14	< 0.14	< 0.22	< 0.22	< 0.22	< 0.22	< 0.23	< 0.17	< 0.17	< 0.14	< 0.22	< 0.22	< 0.18	< 0.17
Bromoform	ug/l	4	80	< 0.54	< 0.54	< 0.54	< 0.34	< 0.18	< 0.18	< 0.23	< 0.23	< 0.23	< 0.23	< 0.24	< 0.54	< 0.54	< 0.18	< 0.23	< 0.23	< 0.42	< 0.54
Bromomethane	ug/l	10	NS	< 0.22	< 0.22	< 0.22	< 0.38	< 0.32	< 0.32	< 0.3	< 0.3	< 0.3 J	< 0.3	< 0.31	< 0.22	< 0.22	< 0.32	< 0.3	< 0.3	< 0.24	< 0.22
Carbon disulfide	ug/l	700	NS	< 0.21	< 0.21	< 0.21	< 0.14	< 0.15	< 0.16	< 0.74	< 0.74	< 0.74	< 0.74	< 0.18	< 0.21	< 0.21	< 0.15	< 0.74	< 0.74	< 0.13	< 0.21
Carbon tetrachloride	ug/l	1	5	< 0.29 J	< 0.29	< 0.29	< 0.19	< 0.18	< 0.18	< 0.26	< 0.26	< 0.26	< 0.26	< 0.19	< 0.29	< 0.29	< 0.18	< 0.26	< 0.26	< 0.35	< 0.29
Chlorobenzene	ug/l	50	100	< 0.22	< 0.22	< 0.22	< 0.19	< 0.14	< 0.19	< 0.39	< 0.39	< 0.39	< 0.39	< 0.22	< 0.22	< 0.22	< 0.14	< 0.39	< 0.39	< 0.15	< 0.22
Chloroethane	ug/l	NS	NS	< 0.56	< 0.56	< 0.56	< 0.67	< 0.22	< 0.22	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.56	< 0.56	< 0.22	< 0.37	< 0.37	< 0.25	< 0.56
Chloroform	ug/l	70	80	< 0.22	< 0.22	< 0.22	< 0.25	< 0.16	< 0.16	< 0.23	< 0.23	< 0.23	< 0.23	< 0.21	< 0.22	< 0.22	< 0.16	< 0.23	< 0.23	< 0.14	< 0.22
Chloromethane	ug/l	NS	NS	< 0.35	< 0.35	< 0.35	< 0.3	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.22 J	< 0.35	< 0.35	< 0.29	< 0.29	< 0.29	< 0.34	< 0.35
cis-1,2-Dichloroethene	ug/l	70	70	< 0.18	< 0.18	< 0.18	< 0.27	< 0.19	< 0.25	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.18	< 0.18	< 0.19	< 0.22	< 0.22	< 0.24	< 0.18
cis-1,3-Dichloropropene	ug/l	NS	NS	< 0.15	< 0.15	< 0.15	< 0.13	< 0.15	< 0.18	< 0.25	< 0.25	< 0.25	< 0.25	< 0.22	< 0.15	< 0.15	< 0.15	< 0.25	< 0.25	< 0.16	< 0.15
Cyclohexane	ug/l	NS	NS	< 0.5	< 0.5	< 0.5	< 0.85	< 0.85	< 0.85	< 1.9	< 1.9	< 1.9	< 1.9	< 0.29	< 0.5	< 0.5	< 0.85	< 1.9	< 1.9	< 0.43	< 0.5
Dibromochloromethane	ug/l	1	80	< 0.19	< 0.19	< 0.19	< 0.28	< 0.12	< 0.16	< 0.22	< 0.22	< 0.22	< 0.22	< 0.2	< 0.19	< 0.19	< 0.12	< 0.22	< 0.22	< 0.16	< 0.19
Dichlorodifluoromethane	ug/l	1,000	NS	< 0.75	< 0.75	< 0.75	< 1	< 0.88	< 0.88	< 0.92	< 0.92	< 0.92	< 0.92	< 0.31 J	< 0.75	< 0.75	< 0.88	< 0.92	< 0.92	< 0.39	< 0.75
Ethylbenzene	ug/l	700	700	< 0.2	< 0.2	< 0.2	< 0.21	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.21	< 0.2	< 0.2	< 0.27	< 0.27	< 0.27	< 0.31	8.4
Freon 113	ug/l	NS	NS	< 0.69	< 0.69	< 0.69	< 1.2	< 0.8	< 0.8	< 0.38	< 0.38	< 0.38	< 0.38	< 0.49	< 0.69	< 0.69	< 0.8	< 0.38	< 0.38	< 0.66	< 0.69
Isopropylbenzene	ug/l	700	NS	< 0.2	< 0.2	< 0.2	< 0.54	< 0.15	< 0.19	< 0.57	< 0.57	< 0.57	< 0.57	< 0.19	< 0.2	< 0.2	< 0.15	< 0.57	< 0.57	< 0.31	2
Methyl acetate	ug/l	7000	NS	< 2.1	< 2.1	< 2.1	< 1.6	< 2.5	< 1.7	< 1.5	< 1.5	< 1.5	< 1.5	< 2.9	< 2.1	< 2.1	< 2.5	< 1.5	< 1.5	< 1.3	< 2.1
Methyl tert butyl ether	ug/l	70	NS	< 0.31	< 0.31	< 0.31	< 0.2	< 0.14	< 0.16	< 0.23	< 0.23	< 0.23	< 0.23	< 0.18	< 0.31	< 0.31	< 0.14	< 0.23	< 0.23	< 0.2	< 0.31
Methylcyclohexane	ug/l	NS	NS	< 0.18	< 0.18	< 0.18	< 0.5	< 0.11	< 0.11	< 0.35	< 0.35	< 0.35	< 0.35	< 0.18	< 0.18	< 0.18	< 0.11	< 0.35	< 0.35	< 0.16	< 0.18
Methylene chloride	ug/l	3	5	< 0.27	< 0.27	< 0.27	< 0.21	< 0.16	< 0.16	< 0.3	< 0.3	< 0.3	< 0.3	< 0.2	< 0.27	< 0.27	< 0.16	< 0.3	< 0.3	< 0.2	< 0.27
o-Xylene	ug/l	NS	NS	< 0.31	< 0.31	< 0.31	< 0.2	< 0.45	< 0.45	< 0.25	< 0.25	0.37 J	NA	NA	< 0.31	< 0.31	< 0.45	< 0.25	NA	NA	35.6
Styrene	ug/l	100	100	< 0.16	< 0.16	< 0.16	< 0.2	< 0.11	< 0.17	< 0.58	< 0.58	< 0.58	< 0.58	< 0.23	< 0.16	< 0.16	< 0.11	< 0.58	< 0.58	< 0.48	< 0.16
Tertiary Butyl Alcohol	ug/l	100	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	ug/l	1	5	< 0.28	< 0.28	< 0.28	< 0.28	< 0.29	< 0.29	< 0.27	< 0.27	< 0.27	< 0.27	< 0.32	< 0.28	< 0.28	< 0.29	< 0.27	< 0.27	< 0.24	< 0.28
Toluene	ug/l	600	1000	< 0.2	< 0.2	< 0.2	< 0.21	< 0.15	< 0.15	< 0.3	< 0.3	< 0.3	< 0.3	< 0.15	< 0.2	< 0.2	< 0.15	< 0.3	< 0.3	< 0.27	2.3
Trans-1,2-dichloroethene	ug/l	100	100	< 0.42	< 0.42	< 0.42	< 0.32	< 0.16	< 0.16	< 0.25	< 0.25	< 0.25	< 0.25	< 0.31	< 0.42	< 0.42	< 0.16	< 0.25	< 0.25	< 0.3	< 0.42
trans-1,3-Dichloropropene	ug/l	NS	NS	< 0.2	< 0.2	< 0.2	< 0.17	< 0.11	< 0.15	< 0.21	< 0.21	< 0.21	< 0.21	< 0.19	< 0.2	< 0.2	< 0.11	< 0.21	< 0.21	< 0.22	< 0.2
Trichloroethene	ug/l	1	5	< 0.29	< 0.29	< 0.29	< 0.26	< 0.18	< 0.18	< 0.24	< 0.24	< 0.24	< 0.24	< 0.21	< 0.29	< 0.29	< 0.18	< 0.24	< 0.24	< 0.22	< 0.29
Trichlorofluoromethane	ug/l	2000	NS	< 0.25	< 0.25	< 0.25	< 0.26	< 0.25	< 0.25	< 0.54	< 0.54	< 0.54	< 0.54	< 0.35	< 0.25	< 0.25	< 0.25	< 0.54	< 0.54	< 0.23	< 0.25
Vinyl Chloride	ug/l	1	2	< 0.29	< 0.29	< 0.29	< 0.22	< 0.21	< 0.21	< 0.44	< 0.44	< 0.44	< 0.44	< 0.27	< 0.29	< 0.29	< 0.21	< 0.44	< 0.44	< 0.22	< 0.29
Xylene, -m,p	ug/l	NS	NS	< 0.42	< 0.42	< 0.42	< 0.35	< 0.39	< 0.39	< 0.25	< 0.25	0.53 J	NA	NA	< 0.42	< 0.42	< 0.39	< 0.25	NA	NA	23.2
Xylenes	ug/l	1,000	10000	< 0.31	< 0.31	< 0.31	< 0.2	< 0.39	< 0.39	< 0.25	< 0.25	0.9 J	< 0.25	< 0.17	< 0.31	< 0.31	< 0.39	< 0.25	< 0.25	< 0.28	58.8
Total TIC, Volatile	ug/l	NS	NS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	126.2 J

Location ID		GWQS[1]	EPA	OB-21	OB-21	OB-21	OB-21	OB-21	OB-21	OB-21	OB-21	OB-21	OB-21	OB-21	OB-22	OB-22	OB-22	OB-22	OB-22	OB-22	OB-23
Sample ID			MCLs	MW-21	REP100506	OB-21(040907)	OB-21(071015)	OB-21(080429)	OB-21(080912)	OB-21(070709)	OB-21(070709) Dup	OB-21(102709)	OB-21(060110)	OB-21(051811)	OB-22	OB-22(040407)	OB-22(080501)	OB-22(070809)	OB-22(052810)	OB-22(051911)	OB-23
Sample Date	Units			10/5/2006	10/5/2006	4/9/2007	10/15/2007	4/29/2008	9/12/2008	7/7/2009	7/7/2009	10/27/2009	6/1/2010	5/18/2011	11/30/2006	4/4/2007	5/1/2008	7/8/2009	5/28/2010	5/19/2011	11/28/2006
SVOC																					
1,1'-Biphenyl	ug/l	400	NS	< 0.36	< 0.35	< 0.36	< 0.36	< 0.28	< 0.58	< 0.42	< 0.42	< 0.44	< 0.51	< 0.42	< 0.38	< 0.36	< 0.25 J	< 0.47	< 0.42	< 0.42	< 0.37
1,2,4-Trichlorobenzene	ug/l	9	70	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	ug/l	600	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	ug/l	600	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	ug/l	75	75	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/l	700	NS	< 2.1	< 2.1	< 2.1	< 2.1	< 1.4	< 2.1	< 1.3	< 1.3	< 1.4	< 1.6	< 1.3	< 2.2	< 2.1	< 1.2 J	< 1.5	< 1.3	< 1.3	< 2.2
2,4,6-Trichlorophenol	ug/l	20	NS	< 1.4	< 1.4	< 1.4	< 1.4	< 1.3	< 1.7	< 1.2	< 1.2	< 1.3	< 1.5	< 1.2	< 1.5	< 1.4	< 1.1 J	< 1.4	< 1.2	< 1.2	< 1.4
2,4-Dichlorophenol	ug/l	20	NS	< 1.7	< 1.7	< 1.7	< 1.7	< 1.8	< 2	< 1.2	< 1.2	< 1.3	< 1.5	< 1.2	< 1.8	< 1.7	< 1.6 J	< 1.4	< 1.2	< 1.2	< 1.8
2,4-Dimethylphenol	ug/l	100	NS	< 1.8	< 1.8	< 1.8	< 1.8	< 2.1	< 2.1	< 1.7	< 1.7	< 1.7	< 2	< 1.7	< 1.9	< 1.8	< 1.9 J	< 1.9	< 1.7	< 1.7	< 1.8
2,4-Dinitrophenol	ug/l	40	NS	< 0.97	< 0.96	< 0.98	< 0.99	< 1.4	< 4.4	< 0.74	< 0.74	< 0.77 J	< 0.89	< 0.74	< 1	< 0.99	< 1.2 J	< 0.83	< 0.74	< 0.74	< 1
2,4-Dinitrotoluene	ug/l	NS	NS	< 0.93	< 0.92	< 0.95	< 0.96	< 0.68	< 0.48	< 0.22	< 0.22	< 0.23 J	< 0.27	< 0.22	< 1	< 0.96	< 0.61 J	< 0.25	< 0.22	< 0.22	< 0.97
2,6-Dinitrotoluene	ug/l	NS	NS	< 0.61	< 0.6	< 0.61	< 0.62	< 0.63	< 0.63	< 0.33	< 0.33	< 0.34	< 0.39	< 0.33	< 0.65	< 0.62	< 0.56 J	< 0.37	< 0.33	< 0.33	< 0.63
2-Chloronaphthalene	ug/l	600	NS	< 1.1	< 1.1	< 1.1	< 1.1	< 0.25	< 0.51	< 0.42	< 0.42	< 0.43	< 0.5	< 0.42	< 1.1	< 1.1	< 0.22 J	< 0.47	< 0.42	< 0.42	< 1.1
2-Chlorophenol	ug/l	40	NS	< 1	< 1	< 1	< 1.1	< 1.1	< 1.5	< 1.1	< 1.1	< 1.1	< 1.3	< 1.1	< 1.1	< 1.1	< 0.98 J	< 1.2	< 1.1	< 1.1	< 1.1
2-Methylnaphthalene	ug/l	NS	NS	< 0.44	< 0.44	< 0.45	< 0.45	< 0.96	< 0.46	< 0.66	< 0.66	< 0.69	< 0.79	< 0.66	< 0.47	< 0.45	< 0.86 J	< 0.74	< 0.66	< 0.66	< 0.46
2-Methylphenol	ug/l	NS	NS	< 1.5	< 1.5	< 1.5	< 1.5	< 1.3	< 1.4	< 1.1	< 1.1	< 1.2	< 1.3	< 1.1	< 1.6	< 1.5	< 1.2 J	< 1.3	< 1.1	< 1.1	< 1.5
2-Nitroaniline	ug/l	NS	NS	< 0.72	< 0.71	< 0.73	< 0.74	< 0.62	< 0.47	< 0.24	< 0.24	< 0.24	< 0.28	< 0.24	< 0.77	< 0.74	< 0.56 J	< 0.26	< 0.24	< 0.24	< 0.74
2-Nitrophenol	ug/l	NS	NS	< 2	< 1.9	< 2	< 2	< 1.9	< 2	< 1.2	< 1.2	< 1.3	< 1.5	< 1.2	< 2.1	< 2	< 1.7 J	< 1.4	< 1.2	< 1.2	< 2
3&4-Methylphenol	ug/l	NS	NS	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.5	< 1	< 1	< 1.1	< 1.3	< 1	< 1.5	< 1.4	< 1.2 J	< 1.2	< 1	< 1	< 1.4
3,3'-Dichlorobenzidine	ug/l	30	NS	< 1.3	< 1.3	< 1.3	< 1.4	< 1.2	< 4.8	< 0.3	< 0.3	< 0.31	< 0.36	< 0.3	< 1.4	< 1.4 J	< 1.1 J	< 0.33	< 0.3	< 0.3	< 1.4
3-Nitroaniline	ug/l	NS	NS	< 1.4	< 1.4	< 1.4	< 1.4	< 0.41	< 0.47	< 0.29	< 0.29	< 0.3	< 0.35	< 0.29	< 1.5	< 1.4	< 0.36 J	< 0.32	< 0.29	< 0.29	< 1.4
4,6-Dinitro-2-methylphenol	ug/l	NS	NS	< 0.78	< 0.78	< 0.79	< 0.8	< 2.8	< 1.2	< 0.51	< 0.51	< 0.53	< 0.62	< 0.51	< 0.84	< 0.8	< 2.5 J	< 0.58	< 0.51	< 0.51	< 0.81
4-Bromophenyl phenyl ether	ug/l	NS	NS	< 0.33	< 0.32	< 0.33	< 0.33	< 0.47	< 0.43	< 0.35	< 0.35	< 0.36	< 0.42	< 0.35	< 0.35	< 0.33	< 0.42 J	< 0.39	< 0.35	< 0.35	< 0.34
4-Chloro-3-Methylphenol	ug/l	NS	NS	< 1.3	< 1.3	< 1.3	< 1.3	< 1.5	< 2.4	< 1.1	< 1.1	< 1.1	< 1.3	< 1.1	< 1.4	< 1.3	< 1.4 J	< 1.2	< 1.1	< 1.1	< 1.3
4-Chloroaniline	ug/l	30	NS	< 0.43	< 0.43	< 0.44	< 0.44	< 0.44	< 0.35	< 0.25	< 0.25	< 0.26	< 0.3	< 0.25	< 0.46	< 0.44	< 0.39 J	< 0.28	< 0.25	< 0.25	< 0.45
4-Chlorophenyl phenyl ether	ug/l	NS	NS	< 0.47	< 0.46	< 0.47	< 0.48	< 0.36	< 0.48	< 0.35	< 0.35	< 0.37	< 0.43	< 0.35	< 0.5	< 0.48	< 0.33 J	< 0.4	< 0.35	< 0.35	< 0.48
4-Nitroaniline	ug/l	NS	NS	< 0.78	< 0.78	< 0.79	< 0.8	< 0.74	< 0.48	< 0.18	< 0.18	< 0.19	< 0.21	< 0.18	< 0.84	< 0.8	< 0.66 J	< 0.2	< 0.18	< 0.18	< 0.81
4-Nitrophenol	ug/l	NS	NS	< 0.92	< 0.91	< 0.93	< 0.94	< 2	< 2.4	< 0.83	< 0.83	< 0.86	< 1	< 0.83	< 0.98	< 0.94	< 1.8 J	< 0.93	< 0.83	< 0.83	< 0.95
Acenaphthene	ug/l	400	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	ug/l	700	NS	< 0.41	< 0.4	< 0.41	< 0.42	< 0.45	< 0.49	< 0.4	< 0.4	< 0.42	< 0.48	< 0.4	< 0.43	< 0.42	< 0.41 J	< 0.45	< 0.4	< 0.4	< 0.42
Anthracene	ug/l	2000	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	ug/l	3	3	< 0.18	< 0.18	< 0.18	< 0.18	< 0.35	< 0.65	< 0.39	< 0.39	< 0.41 J	< 0.47	< 0.39	< 0.19	< 0.18	< 0.32 J	< 0.44	< 0.39	< 0.39	< 0.18
Benzaldehyde	ug/l	NS	NS	< 0.29	< 0.28	< 0.29	< 0.29	< 0.95	< 1.7	< 0.4	< 0.4	< 0.42	< 0.49	< 0.4	< 0.31	R	< 0.86 J	< 0.45	< 0.4	< 0.4	< 0.3
Benzo(a)anthracene	ug/l	0.1 [0.2]	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/l	0.1 [0.2]	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/l	0.2 [10]	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/l	0.5	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzyl butyl phthalate	ug/l	100	NS	< 0.64	< 0.64	< 0.65	< 0.66	< 0.8	< 0.44	< 0.25	< 0.25	< 0.26	< 0.3	< 0.25	< 0.69	< 0.66	< 0.72 J	< 0.28	< 0.25	< 0.25	< 0.67
bis(2-Chloroethoxy)methane	ug/l	NS	NS	< 0.71	< 0.7	< 0.72	< 0.73	< 0.4	< 0.54	< 0.25	< 0.25	< 0.26	< 0.3	< 0.25	< 0.76	< 0.73	< 0.36 J	< 0.28	< 0.25	< 0.25	< 0.73
bis(2-Chloroethyl)ether	ug/l	7	NS	< 0.58	< 0.57	< 0.58	< 0.59	< 0.84	< 0.52	< 0.31	< 0.31	< 0.32	< 0.37	< 0.31	< 0.62	< 0.59	< 0.76 J	< 0.35	< 0.31	< 0.31	< 0.6
bis(2-Chloroisopropyl)ether	ug/l	300	NS	< 0.8	< 0.79	< 0.81	< 0.82	< 0.72	< 0.57	< 0.39	< 0.39	< 0.41	< 0.47	< 0.39	< 0.86	< 0.82	< 0.65 J	< 0.44	< 0.39	< 0.39	< 0.83
bis(2-Ethylhexyl)phthalate	ug/l	3	6	< 0.72	< 0.71	< 0.73	< 0.73	< 1.1 J	< 0.79	< 0.33	< 0.33	< 0.34	< 0.39	< 0.33	< 0.77	< 0.73	< 0.99 J	< 0.37	< 0.33	1.4 J	< 0.74
Caprolactam	ug/l	NS	NS	< 0.34	< 0.34	< 0.35	< 0.35	< 0.62	< 0.66	< 0.2	< 0.2	< 0.2	< 0.23	< 0.2	< 0.37	< 0.35	< 0.55 J	< 0.22	< 0.2	< 0.2	< 0.35
Carbazole	ug/l	NS	NS	< 0.4	< 0.39	< 0.4	< 0.4	< 0.5	< 0.47	< 0.17	< 0.17	< 0.17	< 0.2	< 0.17	< 0.42	< 0.4	< 0.45 J	< 0.19	< 0.17	< 0.17	0.62 J
Chrysene	ug/l	5	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	ug/l	0.3 [0.5]	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/l	NS	NS	< 0.37	< 0.37	< 0.38	< 0.38	< 0.29	< 0.51	< 0.3	< 0.3	< 0.32	< 0.37	< 0.3	< 0.4	< 0.38	< 0.26 J	< 0.34	< 0.3	< 0.3	0.47 J
Diethyl phthalate	ug/l	6000	NS	< 0.42	< 0.42	< 0.43	< 0.43	< 0.43	< 0.38	< 0.17	< 0.17	< 0.17	< 0.2	< 0.17	< 0.45	< 0.43	< 0.39 J	< 0.19	< 0.17	< 0.17	< 0.44
Dimethyl phthalate	ug/l	NS	NS	< 0.36	< 0.35	< 0.36	< 0.36	< 0.42	< 0.38	< 0.23	< 0.23	< 0.23	< 0.27	< 0.23	< 0.38	< 0.36	< 0.38 J	< 0.25	< 0.23	< 0.23	< 0.37
di-n-butyl phthalate	ug/l	700	NS	< 0.64	< 0.64	< 0.65	< 0.66	< 0.5	< 0.53	< 0.19	< 0.19	< 0.2	< 0.23	< 0.19	< 0.69	< 0.66	< 0.45 J	< 0.21	< 0.19	< 0.19	< 0.67
di-n-octylphthalate	ug/l	100	NS	< 0.62	< 0.61	< 0.63 J	< 0.63	< 0.6	< 0.52	< 0.4	< 0.4	< 0.41	< 0.48	< 0.4	< 0.66	< 0.63	< 0.54 J	< 0.44	< 0.4	< 0.4	< 0.64
Fluoranthene	ug/l	300	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	ug/l	300	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	ug/l	0.02 [10]	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/l	1	NS	< 0.19	< 0.19	< 0.19	< 0.19	< 0.16	< 0.39	< 0.37	< 0.37	< 0.39	< 0.15	< 0.13	< 0.2	< 0.19 J	< 0.14 J	< 0.42	< 0.13	< 0.13	< 0.2
Hexachlorocyclopentadiene	ug/l	40	50	< 0.44	< 0.44	< 0.45	< 0.45	< 0.13	< 4.8	< 0.67	< 0.67	< 0.7	< 0.29	< 0.24	< 0.47	< 0.45	< 0.12 J	< 0.76	< 0.24	< 0.24	< 0.46
Hexachloroethane	ug/l	7	NS	< 0.31	< 0.3	< 0.31	< 0.31	< 0.2	< 0.32	< 0.26	< 0.26	< 0.27	< 0.25	< 0.21	< 0.33	< 0.31 J	< 0.18 J	< 0.3	< 0.21	< 0.21	< 0.32
Indeno(1,2,3-cd)pyrene	ug/l	0.2 [10]	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophrone	ug/l	40	NS	< 0.64	< 0.63	< 0.65	< 0.65	< 0.61	< 0.73	< 0.25	< 0.25	< 0.26	< 0.3	< 0.25	< 0.68	< 0.65	< 0.55 J	< 0.28	< 0.25	< 0.25	< 0.66
Naphthalene	ug/l	300	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	ug/l	6	NS	< 0.46	< 0.45	< 0.46	< 0.47	< 0.88	< 0.69	< 0.25	< 0.25	< 0.26	< 0.3	< 0.25	< 0.49	< 0.47	< 0.79 J	< 0.28	< 0.25	< 0.25	< 0.47
N-Nitroso-di-n-Propylamine	ug/l	10	NS	< 0.51	< 0.5	< 0.51	< 0.52	< 0.48	< 0.41	< 0.44	< 0.44	< 0.46	< 0.53	< 0.44	< 0.54	< 0.52	< 0.43 J	< 0.49	< 0.44	< 0.44	< 0.53
N-Nitrosodiphenylamine	ug/l	10	NS	< 0.56	< 0.55	< 0.57	< 0.57	< 0.52	< 0.64	< 0.22	< 0.22	< 0.22	< 0.26	< 0.22	< 0.6	< 0.57	< 0.47 J	< 0.24	< 0.22	< 0.22	1.3 J
Pentachlorophenol	ug/l	0.3 [1]	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	ug/l	2000	NS	< 0.54	< 0.53	< 0.55	< 0.55	< 0.85	< 1.4	< 0.58	< 0.58	< 0.6	< 0.7	< 0.58	< 0.58	< 0.55	< 0.77 J	< 0.65	< 0.58	< 0.58	< 0.56
Pyrene	ug/l	200	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total TIC, Semi-Volatile	ug/l	NS	NS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	283.9 J

Location ID		GWQS[1]	EPA	OB-21	OB-21	OB-21	OB-21	OB-21	OB-21	OB-21	OB-21	OB-21	OB-21	OB-21	OB-22	OB-22	OB-22	OB-22	OB-22	OB-22	OB-23
Sample ID			MCLs	MW-21	REP100506	OB-21(040907)	OB-21(071015)	OB-21(080429)	OB-21(080912)	OB-21(070709)	OB-21(070709) Dup	OB-21(102709)	OB-21(060110)	OB-21(051811)	OB-22	OB-22(040407)	OB-22(080501)	OB-22(070809)	OB-22(052810)	OB-22(051911)	OB-23
Sample Date	Units			10/5/2006	10/5/2006	4/9/2007	10/15/2007	4/29/2008	9/12/2008	7/7/2009	7/7/2009	10/27/2009	6/1/2010	5/18/2011	11/30/2006	4/4/2007	5/1/2008	7/8/2009	5/28/2010	5/19/2011	11/28/2006
SVOC BY SIM																					
Acenaphthene	ug/l	400	NS	< 0.019	< 0.018	< 0.019	< 0.019	< 0.02	< 0.017	< 0.016	< 0.016	< 0.03	< 0.035	< 0.014	< 0.02	< 0.019	< 0.018	< 0.018	< 0.032	< 0.014	1
Acenaphthylene	ug/l	NS	NS	< 0.01	< 0.01	< 0.01	< 0.011	< 0.0088	< 0.0074	< 0.007	< 0.007	< 0.041	< 0.047	< 0.016	< 0.011	< 0.011	< 0.0079	< 0.0079	< 0.044	< 0.016	< 0.011
Anthracene	ug/l	2000	NS	< 0.023	< 0.022	< 0.023	< 0.023	< 0.026	< 0.022	< 0.021	< 0.021	< 0.027	< 0.031	< 0.01	< 0.024	< 0.023	< 0.024	< 0.024	< 0.028	< 0.01	< 0.023
Benzo(a)anthracene	ug/l	0.1 [0.2]	NS	< 0.0074	< 0.0073	< 0.0075	< 0.0076	< 0.042	< 0.035	< 0.034	< 0.034	< 0.025	< 0.029	< 0.015	< 0.0079	< 0.0076	< 0.038	< 0.038	< 0.026	< 0.015	< 0.0076
Benzo(a)pyrene	ug/l	0.1 [0.2]	0.2	< 0.018	< 0.018	< 0.019	< 0.019	< 0.044	< 0.037	< 0.036	< 0.036	< 0.032	< 0.037	< 0.0049	< 0.02	< 0.019	< 0.04	< 0.04	< 0.034	< 0.0049	< 0.019
Benzo(b)fluoranthene	ug/l	0.2 [10]	NS	< 0.039	< 0.039	< 0.04	< 0.04	< 0.021	< 0.018	< 0.017	< 0.017	< 0.037	< 0.043	< 0.016	< 0.042	< 0.04	< 0.019	< 0.019	< 0.04	< 0.016	< 0.041
Benzo(g,h,i)perylene	ug/l	NS	NS	< 0.019	< 0.019	< 0.02	< 0.02	< 0.015	< 0.012	< 0.012	< 0.012	< 0.03	< 0.035	< 0.01	< 0.021	< 0.02	< 0.013	< 0.013	< 0.032	< 0.01	< 0.02
Benzo(k)fluoranthene	ug/l	0.5	NS	< 0.017	< 0.017	< 0.017	< 0.017	< 0.024	< 0.02	< 0.019	< 0.019	< 0.029	< 0.034	< 0.013	< 0.018	< 0.017	< 0.021	< 0.021	< 0.031	< 0.013	< 0.018
Chrysene	ug/l	5	NS	< 0.018	< 0.018	< 0.018	< 0.019	< 0.022	< 0.019	< 0.018	< 0.018	< 0.023	< 0.027	< 0.023	< 0.019	< 0.019	< 0.02	< 0.02	< 0.024	< 0.023	< 0.019
Dibenzo(a,h)anthracene	ug/l	0.3 [0.5]	NS	< 0.018	< 0.018	< 0.018	< 0.018	< 0.025	< 0.021	< 0.02	< 0.02	< 0.023	< 0.027	< 0.023	< 0.019	< 0.018	< 0.023	< 0.023	< 0.025	< 0.023	< 0.018
Fluoranthene	ug/l	300	NS	< 0.0098	< 0.0097	< 0.0099	< 0.01	< 0.012	< 0.01	< 0.0096	< 0.0096	< 0.025	< 0.029	< 0.0096	< 0.01	< 0.01	< 0.011	< 0.011	< 0.027	< 0.0096	< 0.01
Fluorene	ug/l	300	NS	< 0.022	< 0.022	< 0.022	< 0.022	< 0.025	< 0.021	< 0.02	< 0.02	< 0.028	< 0.032	< 0.015	< 0.023	< 0.022	< 0.022	< 0.022	< 0.03	< 0.015	0.627
Hexachlorobenzene	ug/l	0.02 [10]	1	< 0.066	< 0.065	< 0.022	< 0.022	< 0.012	< 0.01	< 0.0099	< 0.0099	< 0.01	< 0.012	< 0.008	< 0.071	< 0.022	< 0.011	< 0.011	< 0.011	< 0.008	< 0.068
Indeno(1,2,3-cd)pyrene	ug/l	0.2 [10]	NS	< 0.012	< 0.012	< 0.012	< 0.012	< 0.018	< 0.015	< 0.014	< 0.014	< 0.03	< 0.035	< 0.011	< 0.013	< 0.012	< 0.016	< 0.016	< 0.032	< 0.011	< 0.012
Naphthalene	ug/l	300	NS	< 0.028	< 0.028	< 0.028	< 0.029	< 0.017	< 0.015	< 0.014	< 0.014	< 0.019	< 0.022	< 0.016	< 0.03	< 0.029	< 0.016	< 0.016	< 0.021	< 0.016	3.54
Pentachlorophenol	ug/l	0.3 [1]	1	< 0.43	< 0.43	R	< 0.33	< 0.28	< 0.23	< 0.22	< 0.22	< 0.23	< 0.082	< 0.29	R	< 0.33	< 0.25	< 0.25	< 0.076	< 0.29	< 0.44
Phenanthrene	ug/l	NS	NS	< 0.023	< 0.023	< 0.023	< 0.023	< 0.021	< 0.018	< 0.017	< 0.017	< 0.038	< 0.043	< 0.016	< 0.025	< 0.023	< 0.019	< 0.019	< 0.04	< 0.016	0.45
Pyrene	ug/l	200	NS	< 0.015	< 0.015	< 0.015	< 0.016	< 0.015	< 0.013	< 0.012	< 0.012	< 0.023	< 0.027	< 0.0081	< 0.016	< 0.016	< 0.014	< 0.014	< 0.025	< 0.0081	< 0.016
PCBs																					
PCB 1016	ug/l	0.5	0.5	< 0.11	< 0.1	< 0.1	< 0.1	< 0.094	< 0.094	< 0.19	< 0.19	< 0.3	< 0.34	< 0.13	< 0.1	< 0.1	< 0.1	< 0.22	< 0.33	< 0.13	< 0.11
PCB 1221	ug/l	0.5	0.5	< 0.53	< 0.51	< 0.51	< 0.52	< 0.47	< 0.47	< 0.31	< 0.31	< 0.41	< 0.47	< 0.27	< 0.52	< 0.51	< 0.52	< 0.36	< 0.45	< 0.28	< 0.53
PCB 1232	ug/l	0.5	0.5	< 0.44	< 0.42	< 0.42	< 0.43	< 0.39	< 0.39	< 0.21	< 0.21	< 0.31	< 0.35	< 0.39	< 0.43	< 0.42	< 0.43	< 0.24	< 0.34	< 0.39	< 0.44
PCB 1242	ug/l	0.5	0.5	< 0.19	< 0.18	< 0.18	< 0.18	< 0.16	< 0.16	< 0.089	< 0.089	< 0.27	< 0.31	< 0.086	< 0.18	< 0.18	< 0.18	< 0.1	< 0.29	< 0.088	< 0.18
PCB 1248	ug/l	0.5	0.5	< 0.17	< 0.17	< 0.17	< 0.17	< 0.15	< 0.15	< 0.25	< 0.25	< 0.28	< 0.32	< 0.15	< 0.17	< 0.17	< 0.17	< 0.3	< 0.3	< 0.15	< 0.17
PCB 1254	ug/l	0.5	0.5	< 0.12	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11	< 0.11	< 0.11	< 0.18	< 0.2	< 0.14	< 0.12	< 0.12	< 0.12	< 0.13	< 0.2	< 0.14	< 0.12
PCB 1260	ug/l	0.5	0.5	< 0.13	< 0.13	< 0.13	< 0.13	< 0.12	< 0.12	< 0.14	< 0.14	< 0.14	< 0.16	< 0.21	< 0.13	< 0.13	< 0.13	< 0.17	< 0.15	< 0.21	< 0.13
Total PCBs	ug/l	0.5	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pesticides/Herbicides																					
4,4-DDD	ug/l	0.1	NS	< 0.0027	< 0.0026	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0027	NA	NA	NA	NA	NA	< 0.0027
4,4-DDE	ug/l	0.1	NS	< 0.0019	< 0.0018	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0019	NA	NA	NA	NA	NA	< 0.0019
4,4-DDT	ug/l	0.1	NS	< 0.0056	< 0.0053	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0056	NA	NA	NA	NA	NA	< 0.0055
Aldrin	ug/l	0.04	NS	< 0.0038	< 0.0036	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0038	NA	NA	NA	NA	NA	< 0.0038
alpha-BHC	ug/l	0.02	NS	< 0.003	< 0.0028	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.003	NA	NA	NA	NA	NA	< 0.0029
alpha-Chlordane	ug/l	NS	NS	< 0.0049	< 0.0047	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0049	NA	NA	NA	NA	NA	< 0.0049
beta-BHC	ug/l	0.04	NS	< 0.007	< 0.0067	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.007	NA	NA	NA	NA	NA	< 0.0069
delta-BHC	ug/l	NS	NS	< 0.0035	< 0.0034	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0035	NA	NA	NA	NA	NA	< 0.0035
Dieldrin	ug/l	0.03	NS	< 0.0019	< 0.0019	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0019	NA	NA	NA	NA	NA	< 0.0019
Endosulfan I (alpha)	ug/l	40	NS	< 0.0024	< 0.0023	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0024	NA	NA	NA	NA	NA	< 0.0024
Endosulfan II (beta)	ug/l	40	NS	< 0.0037	< 0.0035	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0037	NA	NA	NA	NA	NA	< 0.0036
Endosulfan sulfate	ug/l	40	NS	< 0.0052	< 0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0052	NA	NA	NA	NA	NA	< 0.0052
Endrin	ug/l	2	2	< 0.0034	< 0.0033	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0034	NA	NA	NA	NA	NA	< 0.0034
Endrin Aldehyde	ug/l	NS	NS	< 0.0073	< 0.007	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0073	NA	NA	NA	NA	NA	< 0.0072
Endrin ketone	ug/l	NS	NS	< 0.004	< 0.0038	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.004	NA	NA	NA	NA	NA	< 0.0039
gamma-Chlordane	ug/l	NS	NS	< 0.002	< 0.0019	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.002	NA	NA	NA	NA	NA	< 0.0019
Heptachlor	ug/l	0.05	0.4	< 0.0029	< 0.0028	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0029	NA	NA	NA	NA	NA	< 0.0029
Heptachlor epoxide	ug/l	0.2	0.2	< 0.0017	< 0.0016	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0017	NA	NA	NA	NA	NA	< 0.0017
Lindane	ug/l	0.03	0.2	< 0.002	< 0.0019	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.002	NA	NA	NA	NA	NA	< 0.0019
Methoxychlor	ug/l	40	40	< 0.0077	< 0.0073	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0077	NA	NA	NA	NA	NA	< 0.0076
Toxaphene	ug/l	2	3	< 0.11	< 0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.11	NA	NA	NA	NA	NA	< 0.11

Location ID		GWQS[1]	EPA	OB-21	OB-21	OB-21	OB-21	OB-21	OB-21	OB-21	OB-21 Dup	OB-21	OB-21	OB-21	OB-22	OB-22	OB-22	OB-22	OB-22	OB-22	OB-23
Sample ID			MCLs	MW-21	REP100506	OB-21(040907)	OB-21(071015)	OB-21(080429)	OB-21(080912)	OB-21(070709)	OB-21(070709)	OB-21(102709)	OB-21(060110)	OB-21(051811)	OB-22	OB-22(040407)	OB-22(080501)	OB-22(070809)	OB-22(052810)	OB-22(051911)	OB-23
Sample Date	Units			10/5/2006	10/5/2006	4/9/2007	10/15/2007	4/29/2008	9/12/2008	7/7/2009	7/7/2009	10/27/2009	6/1/2010	5/18/2011	11/30/2006	4/4/2007	5/1/2008	7/8/2009	5/28/2010	5/19/2011	11/28/2006
Metals - Total																					
Aluminum	ug/l	200	NS	**1510**	**1840**	**38500**	**36300**	**1820**	**2760**	**1180**	**1240**	**336 J**	**1000**	**2990 J**	**21600**	**13200**	**1560**	**2280**	**577**	**528**	< 23
Antimony	ug/l	6	6	< 4.4	< 4.4	< 5	< 3	< 1.8	< 2.1	< 4	< 4	< 2.9	< 2.2	< 1.3	< 5	< 5	< 1.8	< 4	< 2.2	3.9 J	< 5
Arsenic	ug/l	3 [8]	10	< 1.5	< 1.5	**10.4**	**9 B**	< 1.7	< 1.7	< 2.4	< 2.4	< 2.4	< 1.4	< 0.92	**9.5**	**5.2**	< 1.7	< 2.4	< 1.4	< 0.92	1.8 B
Barium	ug/l	6000	2000	23.7 B	24.3 B	178 B	209 B	13.6 B	< 22.9 J	< 200	< 200	7.2 B	16.7 J	18.9 B	123 B	71.8 B	17.3 B	22.5 B	17.9 B	17 B	497
Beryllium	ug/l	1	4	< 0.5	< 0.5	**1.6**	**1.7 B**	< 0.15	< 0.15	< 0.4	< 0.4	< 0.4	< 0.24	< 0.24	0.92 B	0.74 B	< 0.15	< 0.4	< 0.24	< 0.24	< 0.4
Cadmium	ug/l	4	5	< 0.6	< 0.6	2.2 B	< 0.8	< 0.28	< 0.28	1.3 B	1.3 B	< 0.4	< 0.35	< 0.17	< 1.3	< 1.3	< 0.28	0.6 B	< 0.35	< 0.17	< 1.3
Calcium	ug/l	NS	NS	15400	15200	13700	22100	8840	9350 J	8650	8440	12300	11100	9020	44800 J	34500	36200	31900	32900	40700	125000
Chromium	ug/l	70	100	3 B	2.7 B	49.4	46	2.8 B	< 3.8	< 10	< 10	< 0.9	< 10	3.7 J	34.3	18.9	2.3 B	< 10	1.7 B	< 10	< 0.8
Cobalt	ug/l	NS	NS	< 1.7	< 1.7	31.1 B	32 B	1.2 B	1.9 BJ	0.5 B	0.5 B	< 1.6	2 B	2.1 J	17.4 B	8.8 B	0.6 B	1 B	< 0.65	< 0.3	< 1.8
Copper	ug/l	1,300	1300	4.9 B	6.9 B	132	274	28.6	15.3	14.6	14.5	< 1.6 J	31.3	13.3	96.7	35.3	< 2.5	18.2 J	< 2.5	< 0.85	< 2.7
Iron	ug/l	300	NS	**2090**	**2410**	**68100**	**54600**	**2520**	**3150 J**	**1550 J**	**1790 J**	**380**	**1710**	**4040**	**35200**	**19900**	**1600**	**2960**	**709**	**696**	**24600**
Lead	ug/l	5	15	< 2.6	< 2.6	**29.2**	**27**	2.1 B	< 1.4	< 1.7	< 1.7	< 1.7	2.5 B	2.8 B	**19.5**	**9.1**	2.3 B	< 1.7	< 1.9	< 0.94	< 2.8 J
Magnesium	ug/l	NS	NS	3510 B	3550 B	16900	17100	3380 B	4490 B	4080 B	4050 B	4160 B	4560 B	4410 B	19700 J	13600	7860	6230	7520	6250	14700
Manganese	ug/l	50	NS	**93.8**	**97.8**	**2840 J**	**2540**	**113**	**241**	**85.9**	**84.2**	18.1 J	**278**	**184**	**2060**	**805**	39.4	**64.2**	10 B	15.4	**1450**
Mercury	ug/l	2	2	< 0.08	< 0.08	0.26 B	< 0.3	< 0.15	< 0.049	< 0.049	< 0.049	< 0.082	< 0.082	< 0.088	< 0.037	< 0.037	< 0.15	< 0.049	< 0.082	< 0.088	< 0.037
Nickel	ug/l	100	NS	4.2 B	1.6 B	68.5 J	80.7 B	4.2 B	< 5.9	< 10	< 10	1.4 J	6.1 B	6.1 B	39.6 B	20.4 B	2.3 B	< 10	1.6 B	< 10	< 2.8
Potassium	ug/l	NS	NS	1760 B	1850 B	7900	8370 B	1200 B	1380 B	1210 B	1210 B	1060 B	1050 B	1590 B	5500 J	3480 B	1470 B	1360 B	958 J	3540 B	12300
Selenium	ug/l	40	50	< 3	< 3	< 6.2	< 2.4	< 1.6	< 1.9	< 3.7	< 3.7	< 3.7	2.5 B	< 1.5	< 6.2	< 6.2	< 1.6	< 10	2.5 B	< 10	< 6.2
Silver	ug/l	40	NS	< 1.9	< 1.9	< 1	< 2.8	< 1	< 1	< 1	< 1	< 1	< 0.53	< 0.72	< 1	< 1	< 1	< 1	< 0.53	< 0.72	< 1
Sodium	ug/l	50,000	NS	4180 BJ	4150 BJ	3820 BJ	4820 B	2700 B	< 3150 J	3250 B	3180 B	3620 B	3430 J	3270 B	12100	8390 BJ	14300	13500	17800	15300	**121000**
Thallium	ug/l	2 [10]	2	0.39 BJ	< 0.09	< 0.09	< 4.5	< 1.3	< 1.3	< 1.5	< 1.5	< 1.5	< 1.8	< 0.17	0.6 B	< 0.09	< 1.3	< 1.5	< 1.8	< 0.17	0.093 B
Vanadium	ug/l	NS	NS	3.6 B	3.2 B	63	54.3 B	3.5 B	4.5 B	1.9 BJ	2 BJ	< 0.9	2.1 J	4.7 B	36.1 B	21.5 B	2.4 B	3.3 BJ	0.8 B	< 50	< 1.8
Zinc	ug/l	2000	NS	< 3.3	< 3.3	167	205	12.1 B	< 16.5 J	< 20	10 BJ	4.3 B	16.5 J	13.5 J	105 J	56.9	< 4 B	24.1 J	< 20	4.2 J	38.7
Metals - Dissolved																					
Aluminum	ug/l	200	NS	< 110	< 110	< 23	159 B	< 24	< 28.3	< 26	< 26	< 26 J	34.8 J	73.4 B	< 23	< 23	< 24	53.8 B	< 200	< 200	23.2 B
Antimony	ug/l	6	6	**7.1**	< 4.4	< 5	< 0.9	< 1.8	< 1.8	< 4	< 4	< 2.9	< 2.2	< 1.3	< 5	< 5	< 1.8	< 4	< 2.2	3.8 J	< 5
Arsenic	ug/l	3 [8]	10	< 1.5	< 1.5	< 1.5	< 1.1	< 1.7	< 1.7	< 2.4	< 2.4	< 2.4	< 1.4	< 0.92	< 1.5	< 1.5	< 1.7	< 2.4	< 1.4	< 0.92	< 1.5
Barium	ug/l	6000	2000	12.6 B	19.8 B	3 B	9.9 B	3.8 B	< 3.4 J	< 200	< 200	5.2 B	2.5 J	2.7 B	10.5 B	4.7 B	8.7 B	10.5 B	12.9 B	13.7 B	507
Beryllium	ug/l	1	4	< 0.5	< 0.5	< 0.4	< 0.15	< 0.15	< 0.15	< 0.4	< 0.4	< 0.4	< 0.24	< 0.24	< 0.4	< 0.4	< 0.15	< 0.4	< 0.24	< 0.24	< 0.4
Cadmium	ug/l	4	5	< 0.6	< 0.6	< 1.3	< 0.24	< 0.28	< 0.28	1.1 B	1.2 B	< 0.4	< 0.35	< 0.17	< 1.3	< 1.3	< 0.28	< 0.4	< 0.35	< 0.17	< 1.3
Calcium	ug/l	NS	NS	14700	14600	9680	16100	9280	8830 J	9270	9090	12100	9260	9710	40000 J	32700	36000	33600	32500	39900	125000
Chromium	ug/l	70	100	< 1.6	< 1.6	< 0.8	1 B	< 0.53	< 0.53	< 0.9	< 0.9	< 0.9	< 10	< 0.9	2.6 B	< 0.8	< 0.53	< 10	1.1 B	< 0.9	2 B
Cobalt	ug/l	NS	NS	< 1.7	< 1.7	< 1.8	1 B	< 0.51	< 0.51	< 0.4	< 0.4	< 1.6	< 0.65	< 0.3	2.9 B	< 1.8	< 0.51	< 0.4	< 0.65	< 0.3	2.4 B
Copper	ug/l	1,300	1300	< 2.3	< 2.3	< 2.7	4.7 B	3.1 B	< 2.5	< 1.6	< 1.6	< 1.6 J	< 2.5	< 0.85	< 2.7	< 2.7	< 2.5	< 2	< 2.5	< 0.85	< 2.7
Iron	ug/l	300	NS	< 67	< 67	< 25	164 J	28.9 B	< 34.3 J	< 42	< 42	15.2 B	46.2 B	< 100	157	< 25	15 B	< 100	< 100	< 100	**24300**
Lead	ug/l	5	15	< 2.6	< 2.6	< 2.8	< 0.94	< 1.4	< 1.4	< 1.7	< 1.7	< 1.7	< 1.9	< 0.94	< 2.8	< 2.8	< 1.4	< 1.7	< 1.9	< 1.1	3 J
Magnesium	ug/l	NS	NS	2900 B	2990 B	3730 B	5910	3080 B	3810 B	4030 B	4060 B	4020 B	3800 B	4010 B	12900 J	10600	6870	6180	7700	6020	14900
Manganese	ug/l	50	NS	3.2 B	4.5 B	2.3 BJ	24.3	2.7 B	< 2.2	< 15	< 15	1.7 J	< 15	< 15	**1040**	**484**	2.4 B	6 BJ	1.6 J	2.1 J	**1470**
Mercury	ug/l	2	2	< 0.08	< 0.08	0.094 B	< 0.15	< 0.15	< 0.049	< 0.049	< 0.049	< 0.082	< 0.082	< 0.088	< 0.037	< 0.037	< 0.15	< 0.049	< 0.082	< 0.088	< 0.037
Nickel	ug/l	100	NS	< 1.6	< 1.6	< 2.8	2.8 B	< 1.2	< 1.2	< 10	< 0.6	1 J	< 0.51	0.7 J	7 B	2.8 B	< 1.2	< 10	1 B	< 10	3.8 B
Potassium	ug/l	NS	NS	1280 B	1230 B	752 B	1190 B	730 B	778 B	886 B	878 B	930 B	870 B	865 B	1770 BJ	937 B	955 B	765 B	774 B	3250 B	13000
Selenium	ug/l	40	50	< 3	< 3	< 6.2	< 0.73	< 1.6	< 1.6	< 3.7	< 3.7	< 3.7	2.6 B	< 1.5	< 6.2	< 6.2	< 1.6	< 10	1.9 B	< 1.5	< 6.2
Silver	ug/l	40	NS	< 1.9	< 1.9	< 1	< 0.83	< 1	< 1	< 1	< 1	< 1	< 0.53	< 0.72	< 1	< 1	< 1	< 1	< 0.53	< 0.72	< 1
Sodium	ug/l	50,000	NS	< 310	< 310	3780 BJ	3740 B	2750 B	< 3250 J	3350 B	3410 B	3700 B	3240 J	3530 B	11500	8480 BJ	14000	14200	17200	15200	**117000**
Thallium	ug/l	2 [10]	2	0.41 BJ	< 0.09	< 0.09	< 1.4	< 1.3	< 1.3	< 1.5	< 1.5	< 1.5	< 1.8	< 0.17	0.48 B	0.11 B	< 1.3	< 1.5	< 1.8	< 0.17	< 0.09
Vanadium	ug/l	NS	NS	< 1.9	< 1.9	< 1.8	0.6 B	0.5 B	< 0.43	< 0.9	< 0.9	< 0.9	< 0.56	< 0.43	< 1.8	< 1.8	< 0.43	< 0.9	< 0.56	< 0.43	< 1.8
Zinc	ug/l	2000	NS	< 3.3	< 3.3	< 3.4	< 2.7	< 4	< 5.4	14.9 BJ	9.8 BJ	6.9 B	< 20	10.3 J	4.5 B	< 3.4	< 4	< 20	6.8 J	5.6 J	37.4
Other																					
Alkalinity, Bicarbonate	ug/l	NS	NS	45200	44100	36000	50900	31100	38300	NA	NA	NA	NA	NA	NA	95600	50500	NA	NA	NA	598000
Alkalinity, Carbonate	ug/l	NS	NS	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	NA	NA	NA	NA	NA	NA	< 5000	< 5000	NA	NA	NA	< 5000
Alkalinity, total (as CaCO3)	ug/l	NS	NS	45200	44100	36100	50900	31100	38300	37300	38400	42500	37100	36700	NA	95600	50500	69300	54000	111000	598000
BOD, 5 Day	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromide	ug/l	NS	NS	< 150	< 150	NA	NA	NA	NA	NA	NA	NA	NA	NA	160	NA	NA	NA	NA	NA	290
Chloride	ug/l	250000	NS	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	NA	15200	54000	41700	56200	22800	31000
COD	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide	ug/l	100	200	< 10	< 10	< 10	< 10 J	< 10	< 10	NA	NA	NA	NA	NA	< 10	< 10	< 10	NA	NA	NA	< 10
Nitrate	ug/l	10000	10000	< 110	< 110	< 110	< 110	< 110	< 110	NA	NA	NA	NA	NA	< 110	190	< 110	NA	NA	NA	400
Nitrogen, Nitrate + Nitrite	ug/l	10000	NS	< 100	< 100	< 100	< 100	< 100	< 100	NA	NA	NA	NA	NA	< 100	190	< 100	NA	NA	NA	440
Nitrogen, Nitrite	ug/l	1000	1000	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA	< 10	< 10	< 10	NA	NA	NA	45
Phosphorus, Total	ug/l	NS	NS	< 50	< 50	930	1800	< 50	160	NA	NA	NA	NA	NA	230	730	< 50	NA	NA	NA	73
Sulfate	ug/l	250000	NS	11100	11200	10500	11800	< 10000	11600	11300	11500	11700	10200	< 10000	NA	37800	21900	18300	22200	17500	10500
Total Dissolved Solids	ug/l	500000	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total organic carbon	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See footnotes on last page

Location ID		GWQS[1]	EPA	OB-23	OB-23	OB-23	OB-23	OB-23	OB-24	OB-24	OB-24	OB-24	OB-24	OB-24	OB-24	OB-24	OB-24	OB-24	OB-25	OB-25
Sample ID			MCLs	OB-23(041107)	OB-23(080502)	OB-23(070809)	OB-23(052810)	OB-23(051911)	OB-24	OB-24(041107)	OB-24(071012)	DUP-02(080430)	(OB-24)	OB-24(080430)	OB-24(080911)	OB-24(070809)	OB-24(102609)	OB-24(052810)	OB-24(051911)	OB-25	REP-061130
Sample Date	Units			4/11/2007	5/2/2008	7/8/2009	5/28/2010	5/19/2011	11/28/2006	4/11/2007	10/12/2007	4/30/2008		4/30/2008	9/11/2008	7/8/2009	10/26/2009	5/28/2010	5/19/2011	11/30/2006	11/30/2006
VOC																					
1,1,1,2-Tetrachloroethane	ug/l	1	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/l	30	200	< 0.28	< 0.24	< 0.26	< 0.26	< 0.2	< 0.28	< 0.28	< 0.3	< 0.24		< 0.24	< 0.24	< 0.26	< 0.26	< 0.26	< 0.2	< 0.28	< 0.28
1,1,2,2-Tetrachloroethane	ug/l	1	NS	< 0.28	< 0.13	< 0.24	< 0.24	< 0.12	< 0.28	< 0.28	< 0.8	< 0.13		< 0.13	< 0.13	< 0.24	< 0.24	< 0.24	< 0.12	< 0.28	< 0.28
1,1,2-Trichloroethane	ug/l	3	5	< 0.32	< 0.17	< 0.23	< 0.23	< 0.13	< 0.32	< 0.32	< 0.49	< 0.17		< 0.17	< 0.17	< 0.23	< 0.23	< 0.23	< 0.13	< 0.32	< 0.32
1,1-Dichloroethane	ug/l	50	NS	< 0.23	< 0.16	< 0.29	< 0.29	< 0.16	< 0.23	< 0.23	< 0.2	< 0.16		< 0.16	< 0.24	< 0.29	< 0.29	< 0.29	< 0.16	< 0.23	< 0.23
1,1-Dichloroethene	ug/l	1	7	< 0.33	< 0.29	< 0.4	< 0.4	< 0.24	< 0.33	< 0.33	< 0.28	< 0.29		< 0.29	< 0.29	< 0.4	< 0.4	< 0.4	< 0.24	< 0.33	< 0.33
1,2,4-Trichlorobenzene	ug/l	9	70	< 0.16	< 1.3	< 0.56	< 0.56	< 0.16	< 0.16	< 0.16	< 0.41	< 1.3		< 1.3	< 1.3	< 0.56	< 0.56	< 0.56	< 0.16	< 0.16	< 0.16
1,2-Dibromo-3-Chloropropane (DBCP)	ug/l	0.02 [1]	0.2	< 1.1	< 2.4	< 1.1	< 1.1	< 1.2	< 1.1	< 1.1	< 0.8	< 2.4		< 2.4	< 1.3	< 1.1	< 1.1	< 1.1	< 1.2	< 1.1	< 1.1
1,2-Dibromoethane	ug/l	0.03 [0.5]	0.05	< 0.52	< 0.17	< 0.39	< 0.39	< 0.39	< 0.52	< 0.52	< 0.45	< 0.17		< 0.17	< 0.18	< 0.39	< 0.39	< 0.39	< 0.39	< 0.52	< 0.52
1,2-Dichlorobenzene	ug/l	600	600	< 0.2	< 0.18	< 0.26	< 0.26	< 0.15	< 0.2	< 0.2	< 0.2	< 0.18		< 0.18	< 0.18	< 0.26	< 0.26	< 0.26	< 0.15	< 0.2	< 0.2
1,2-Dichloroethane	ug/l	2	5	< 0.29	< 0.35	< 0.33	< 0.33	< 0.31	< 0.29	< 0.29	< 0.29	< 0.35		< 0.35	< 0.35	< 0.33	< 0.33	< 0.33	< 0.31	< 0.29	< 0.29
1,2-Dichloropropane	ug/l	1	5	< 0.2	< 0.18	< 0.27	< 0.27	< 0.23	< 0.2	< 0.2	< 0.24	< 0.18		< 0.18	< 0.18	< 0.27	< 0.27	< 0.27	< 0.23	< 0.2	< 0.2
1,3-Dichlorobenzene	ug/l	600	NS	< 0.32	< 0.26	< 0.25	< 0.25	< 0.19	< 0.32	< 0.32	< 0.21	< 0.26		< 0.26	< 0.26	< 0.25	< 0.25	< 0.25	< 0.19	< 0.32	< 0.32
1,4-Dichlorobenzene	ug/l	75	75	< 0.24	< 0.32	< 0.28	< 0.28	< 0.22	< 0.24	< 0.24	< 0.17	< 0.32		< 0.32	< 0.22	< 0.28	< 0.28	< 0.28	< 0.22	< 0.24	< 0.24
2-Butanone (MEK)	ug/l	300	NS	< 2.6	< 2.3	< 1.6	< 1.6	< 1.7	< 2.6	< 2.6	< 2.7	< 2.3		< 2.3	< 2.3	< 1.6	< 1.6	< 1.6	< 1.7	< 2.6	< 2.6
2-Hexanone	ug/l	NS	NS	< 1.3	< 1.7	< 1.4	< 1.4	< 1.9	< 1.3	< 1.3	< 0.94	< 1.7		< 1.7	< 1.7	< 1.4	< 1.4	< 1.4	< 1.9	< 1.3	< 1.3
4-methyl-2-pentanone (MIBK)	ug/l	NS	NS	< 1.1	< 1.9	< 0.86	< 0.86	< 0.74	< 1.1	< 1.1	< 1.4	< 1.9		< 1.9	< 1.3	< 0.86	< 0.86	< 0.86	< 0.74	< 1.1	< 1.1
Acetone	ug/l	6000	NS	< 2.4	< 2.1	< 2.9	< 2.9	< 4.4	< 2.4	< 2.4	< 2.9	< 2.1		< 2.1	< 2.1	< 2.9	< 2.9	< 2.9	< 4.4	< 2.4	< 2.4
Benzene	ug/l	1	5	< 0.21	< 0.26	< 0.23	< 0.23	< 0.26	< 0.21	< 0.21	< 0.19	< 0.26		< 0.26	< 0.26	< 0.23	< 0.23	< 0.23	< 0.26	< 0.21	< 0.21
Bromodichloromethane	ug/l	1	80	< 0.17	< 0.14	< 0.22	< 0.22	< 0.18	< 0.17	< 0.17	< 0.15	< 0.14		< 0.14	< 0.14	< 0.22	< 0.22	< 0.22	< 0.18	< 0.17	< 0.17
Bromoform	ug/l	4	80	< 0.54	< 0.18	< 0.23	< 0.23	< 0.42	< 0.54	< 0.54	< 0.34	< 0.18		< 0.18	< 0.18	< 0.23	< 0.23	< 0.23	< 0.42	< 0.54	< 0.54
Bromomethane	ug/l	10	NS	< 0.22	< 0.32	< 0.3	< 0.3	< 0.24	< 0.22	< 0.22	< 0.38	< 0.32		< 0.32	< 0.32	< 0.3	< 0.3	< 0.3	< 0.24	< 0.22	< 0.22
Carbon disulfide	ug/l	700	NS	< 0.21	< 0.15	< 0.74	< 0.74	< 0.13	< 0.21	< 0.21	< 0.14	< 0.15		< 0.15	< 0.16	< 0.74	< 0.74	< 0.74	< 0.13	< 0.21	< 0.21
Carbon tetrachloride	ug/l	1	5	< 0.29	< 0.18	< 0.26	< 0.26	< 0.35	< 0.29	< 0.29	< 0.19	< 0.18		< 0.18	< 0.18	< 0.26	< 0.26	< 0.26	< 0.35	< 0.29	< 0.29
Chlorobenzene	ug/l	50	100	< 0.22	< 0.14	< 0.39	< 0.39	< 0.15	< 0.22	< 0.22	< 0.19	< 0.14		< 0.14	< 0.19	< 0.39	< 0.39	< 0.39	< 0.15	< 0.22	< 0.22
Chloroethane	ug/l	NS	NS	< 0.56	< 0.22	< 0.37	< 0.37	< 0.25	< 0.56	< 0.56	< 0.67	< 0.22		< 0.22	< 0.22	< 0.37	< 0.37	< 0.37	< 0.25	< 0.56	< 0.56
Chloroform	ug/l	70	80	< 0.22	< 0.16	< 0.23	< 0.23	< 0.14	< 0.22	< 0.22	< 0.25	< 0.16		< 0.16	< 0.16	< 0.23	< 0.23	< 0.23	< 0.14	< 0.22	< 0.22
Chloromethane	ug/l	NS	NS	< 0.35	< 0.29	< 0.29	< 0.29	< 0.34	< 0.35	< 0.35	< 0.3	< 0.29		< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.34	< 0.35	< 0.35
cis-1,2-Dichloroethene	ug/l	70	70	< 0.18	< 0.19	< 0.22	< 0.22	< 0.24	< 0.18	< 0.18	< 0.27	< 0.19		< 0.19	< 0.25	< 0.22	< 0.22	< 0.22	< 0.24	< 0.18	< 0.18
cis-1,3-Dichloropropene	ug/l	NS	NS	< 0.15	< 0.15	< 0.25	< 0.25	< 0.16	< 0.15	< 0.15	< 0.13	< 0.15		< 0.15	< 0.18	< 0.25	< 0.25	< 0.25	< 0.16	< 0.15	< 0.15
Cyclohexane	ug/l	NS	NS	< 0.5	< 0.85	< 1.9	< 1.9	< 0.43	< 0.5	< 0.5	< 0.85	< 0.85		< 0.85	< 0.85	< 1.9	< 1.9	< 1.9	< 0.43	< 0.5	< 0.5
Dibromochloromethane	ug/l	1	80	< 0.19	< 0.12	< 0.22	< 0.22	< 0.16	< 0.19	< 0.19	< 0.28	< 0.12		< 0.12	< 0.16	< 0.22	< 0.22	< 0.22	< 0.16	< 0.19	< 0.19
Dichlorodifluoromethane	ug/l	1,000	NS	< 0.75	< 0.88	< 0.92	< 0.92	< 0.39	< 0.75	< 0.75	< 1	< 0.88		< 0.88	< 0.88	< 0.92	< 0.92	< 0.92	< 0.39	< 0.75	< 0.75
Ethylbenzene	ug/l	700	700	0.38 J	< 0.27	< 0.27	< 0.27	< 0.31	< 0.2	< 0.2	< 0.21	< 0.27		< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.31	< 0.2	< 0.2
Freon 113	ug/l	NS	NS	< 0.69	< 0.8	< 0.38	< 0.38	< 0.66	< 0.69	< 0.69	< 1.2	< 0.8		< 0.8	< 0.8	< 0.38	< 0.38	< 0.38	< 0.66	< 0.69	< 0.69
Isopropylbenzene	ug/l	700	NS	< 0.2	< 0.15	< 0.57	< 0.57	< 0.31	< 0.2	< 0.2	< 0.54	< 0.15		< 0.15	< 0.19	< 0.57	< 0.57	< 0.57	< 0.31	< 0.2	< 0.2
Methyl acetate	ug/l	7000	NS	< 2.1	< 2.5	< 1.5	< 1.5	< 1.3	< 2.1	< 2.1	< 1.6	< 2.5		< 2.5	< 1.7	< 1.5	< 1.5	< 1.5	< 1.3	< 2.1	< 2.1
Methyl tert butyl ether	ug/l	70	NS	< 0.31	< 0.14	0.65 J	< 0.23	< 0.2	< 0.31	0.64 J	0.97 J	< 0.14		0.27 J	< 0.16	< 0.23	0.3 J	< 0.23	< 0.2	< 0.31	< 0.31
Methylcyclohexane	ug/l	NS	NS	< 0.18	< 0.11	< 0.35	< 0.35	< 0.16	< 0.18	< 0.18	< 0.5	< 0.11		< 0.11	< 0.11	< 0.35	< 0.35	< 0.35	< 0.16	< 0.18	< 0.18
Methylene chloride	ug/l	3	5	< 0.27	< 0.16	< 0.3	< 0.3	< 0.2	< 0.27	< 0.27	< 0.21	< 0.16		< 0.16	< 0.16	< 0.3	< 0.3	< 0.3	< 0.2	< 0.27	< 0.27
o-Xylene	ug/l	NS	NS	3.2	< 0.45	< 0.25	NA	NA	< 0.31	< 0.31	< 0.2	< 0.45		< 0.45	< 0.45	< 0.25	< 0.25	NA	NA	< 0.31	< 0.31
Styrene	ug/l	100	100	< 0.16	< 0.11	< 0.58	< 0.58	< 0.48	< 0.16	< 0.16	< 0.2	< 0.11		< 0.11	< 0.17	< 0.58	< 0.58	< 0.58	< 0.48	< 0.16	< 0.16
Tertiary Butyl Alcohol	ug/l	100	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	ug/l	1	5	< 0.28	< 0.29	< 0.27	< 0.27	< 0.24	< 0.28	< 0.28	< 0.28 J	< 0.29		< 0.29	< 0.29	< 0.27	< 0.27	< 0.27	< 0.24	< 0.28	< 0.28
Toluene	ug/l	600	1000	< 0.2	< 0.15	< 0.3	< 0.3	< 0.27	< 0.2	< 0.2	< 0.21	< 0.15		< 0.15	< 0.15	< 0.3	< 0.3	< 0.3	< 0.27	< 0.2	< 0.2
Trans-1,2-dichloroethene	ug/l	100	100	< 0.42	< 0.16	< 0.25	< 0.25	< 0.3	< 0.42	< 0.42	< 0.32	< 0.16		< 0.16	< 0.16	< 0.25	< 0.25	< 0.25	< 0.3	< 0.42	< 0.42
trans-1,3-Dichloropropene	ug/l	NS	NS	< 0.2	< 0.11	< 0.21	< 0.21	< 0.22	< 0.2	< 0.2	< 0.17	< 0.11		< 0.11	< 0.15	< 0.21	< 0.21	< 0.21	< 0.22	< 0.2	< 0.2
Trichloroethene	ug/l	1	5	< 0.29	< 0.18	< 0.24	< 0.24	< 0.22	< 0.29	< 0.29	< 0.26	< 0.18		< 0.18	< 0.18	< 0.24	< 0.24	< 0.24	< 0.22	< 0.29	< 0.29
Trichlorofluoromethane	ug/l	2000	NS	< 0.25	< 0.25	< 0.54	< 0.54	< 0.23	< 0.25	< 0.25	< 0.26	< 0.25		< 0.25	< 0.25	< 0.54	< 0.54	< 0.54	< 0.23	< 0.25	< 0.25
Vinyl Chloride	ug/l	1	2	< 0.29	< 0.21	< 0.44	< 0.44	< 0.22	< 0.29	< 0.29	< 0.22	< 0.21		< 0.21	< 0.21	< 0.44	< 0.44	< 0.44	< 0.22	< 0.29	< 0.29
Xylene, -m,p	ug/l	NS	NS	1	< 0.39	< 0.25	NA	NA	< 0.42	< 0.42	< 0.35	< 0.39		< 0.39	< 0.39	< 0.25	< 0.25	NA	NA	< 0.42	< 0.42
Xylenes	ug/l	1,000	10000	4.3	< 0.39	< 0.25	< 0.25	< 0.28	< 0.31	< 0.31	< 0.2	< 0.39		< 0.39	< 0.39	< 0.25	< 0.25	< 0.25	< 0.28	< 0.31	< 0.31
Total TIC, Volatile	ug/l	NS	NS	18.9 J	0	5.3 J	0	16.9 J	0	0	0	0		0	0	0	0	0	0	0	0

Location ID		GWQS[1]	EPA	OB-23	OB-23	OB-23	OB-23	OB-23	OB-24	OB-24	OB-24	OB-24	OB-24	OB-24	OB-24	OB-24	OB-24	OB-24	OB-25	OB-25
Sample ID			MCLs	OB-23(041107)	OB-23(080502)	OB-23(070809)	OB-23(052810)	OB-23(051911)	OB-24	OB-24(041107)	OB-24(071012)	DUP-02(080430) (OB-24)	OB-24(080430)	OB-24(080911)	OB-24(070809)	OB-24(102609)	OB-24(052810)	OB-24(051911)	OB-25	REP-061130
Sample Date	Units			4/11/2007	5/2/2008	7/8/2009	5/28/2010	5/19/2011	11/28/2006	4/11/2007	10/12/2007	4/30/2008	4/30/2008	9/11/2008	7/8/2009	10/26/2009	5/28/2010	5/19/2011	11/30/2006	11/30/2006
SVOC																				
1,1'-Biphenyl	ug/l	400	NS	< 0.45	< 0.24 J	< 0.42	< 0.47	< 0.42	< 0.33	< 0.37	< 0.33	< 0.23	< 0.22	< 0.58	< 0.47	< 0.47	< 0.45	< 0.42	< 0.38	< 0.38
1,2,4-Trichlorobenzene	ug/l	9	70	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	ug/l	600	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	ug/l	600	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	ug/l	75	75	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/l	700	NS	< 2.7	< 1.2 J	< 1.3	< 1.5	< 1.3	< 1.9	< 2.2	< 1.9	< 1.2	< 1.1	< 2.1	< 1.5	< 1.5	< 1.4	< 1.3	< 2.3	< 2.2
2,4,6-Trichlorophenol	ug/l	20	NS	< 1.8	< 1.1 J	< 1.2	< 1.3	< 1.2	< 1.3	< 1.4	< 1.3	< 1.1	< 1	< 1.7	< 1.4	< 1.4	< 1.3	< 1.2	< 1.5	< 1.4
2,4-Dichlorophenol	ug/l	20	NS	< 2.2	< 1.5 J	< 1.2	< 1.3	< 1.2	< 1.6	< 1.8	< 1.6	< 1.5	< 1.4	< 2	< 1.4	< 1.4	< 1.3	< 1.2	< 1.8	< 1.8
2,4-Dimethylphenol	ug/l	100	NS	< 2.3	< 1.8 J	< 1.7	< 1.8	< 1.7	< 1.6	< 1.8	< 1.6	< 1.7	< 1.7	< 2.1	< 1.8	< 1.9	< 1.8	< 1.7	< 1.9	< 1.9
2,4-Dinitrophenol	ug/l	40	NS	< 1.2	< 1.2 J	< 0.74	< 0.81	< 0.74	< 0.89	< 1	< 0.89	< 1.2	< 1.1	< 4.4	< 0.82	< 0.83	< 0.79	< 0.74	< 1	< 1
2,4-Dinitrotoluene	ug/l	NS	NS	< 1.2	< 0.59 J	< 0.22	< 0.24	< 0.22	< 0.86	< 0.97	< 0.86	< 0.57	< 0.54	< 0.48	< 0.24	< 0.25	< 0.24	< 0.22	< 1	< 0.99
2,6-Dinitrotoluene	ug/l	NS	NS	< 0.78	< 0.54 J	< 0.33	< 0.36	< 0.33	< 0.56	< 0.63	< 0.56	< 0.53	< 0.5	< 0.63	< 0.36	< 0.37	< 0.35	< 0.33	< 0.66	< 0.64
2-Chloronaphthalene	ug/l	600	NS	< 1.4	< 0.22 J	< 0.42	< 0.46	< 0.42	< 0.98	< 1.1	< 0.98	< 0.21	< 0.2	< 0.51	< 0.46	< 0.47	< 0.45	< 0.42	< 1.2	< 1.1
2-Chlorophenol	ug/l	40	NS	< 1.3	< 0.95 J	< 1.1	< 1.2	< 1.1	< 0.95	< 1.1	< 0.95	< 0.92	< 0.87	< 1.5	< 1.2	< 1.2	< 1.2	< 1.1	< 1.1	< 1.1
2-Methylnaphthalene	ug/l	NS	NS	< 0.57	< 0.83 J	< 0.66	< 0.73	< 0.66	< 0.41	< 0.46	< 0.41	< 0.8	< 0.76	< 0.46	< 0.73	< 0.74	< 0.71	< 0.66	< 0.48	< 0.47
2-Methylphenol	ug/l	NS	NS	< 1.9	< 1.1 J	< 1.1	< 1.2	< 1.1	< 1.4	< 1.5	< 1.4	< 1.1	< 1	< 1.4	< 1.2	< 1.3	< 1.2	< 1.1	< 1.6	< 1.6
2-Nitroaniline	ug/l	NS	NS	< 0.92	< 0.54 J	< 0.24	< 0.26	< 0.24	< 0.66	< 0.74	< 0.66	< 0.52	< 0.5	< 0.47	< 0.26	< 0.26	< 0.25	< 0.24	< 0.78	< 0.76
2-Nitrophenol	ug/l	NS	NS	< 2.5	< 1.6 J	< 1.2	< 1.4	< 1.2	< 1.8	< 2	< 1.8	< 1.6	< 1.5	< 2	< 1.4	< 1.4	< 1.3	< 1.2	< 2.1	< 2.1
3&4-Methylphenol	ug/l	NS	NS	< 1.8	< 1.2 J	< 1	< 1.1	< 1	< 1.3	< 1.4	< 1.3	< 1.2	< 1.1	< 1.5	< 1.2	< 1.2	< 1.1	< 1	< 1.5	< 1.5
3,3'-Dichlorobenzidine	ug/l	30	NS	< 1.7	< 1.1 J	< 0.3	< 0.33	< 0.3	< 1.2	< 1.4	< 1.2	< 1	< 0.97	< 4.8	< 0.33	< 0.33	< 0.32	< 0.3	< 1.4	< 1.4
3-Nitroaniline	ug/l	NS	NS	< 1.8	< 0.35 J	< 0.29	< 0.32	< 0.29	< 1.3	< 1.4	< 1.3	< 0.34	< 0.32	< 0.47	< 0.32	< 0.32	< 0.31	< 0.29	< 1.5	< 1.4
4,6-Dinitro-2-methylphenol	ug/l	NS	NS	< 1	< 2.4 J	< 0.51	< 0.57	< 0.51	< 0.72	< 0.81	< 0.72	< 2.3	< 2.2	< 1.2	< 0.57	< 0.58	< 0.55	< 0.51	< 0.85	< 0.83
4-Bromophenyl phenyl ether	ug/l	NS	NS	< 0.42	< 0.41 J	< 0.35	< 0.39	< 0.35	< 0.3	< 0.34	< 0.3	< 0.39	< 0.37	< 0.43	< 0.39	< 0.39	< 0.38	< 0.35	< 0.35	< 0.34
4-Chloro-3-Methylphenol	ug/l	NS	NS	< 1.6	< 1.3 J	< 1.1	< 1.2	< 1.1	< 1.2	< 1.3	< 1.2	< 1.3	< 1.2	< 2.4	< 1.2	< 1.2	< 1.1	< 1.1	< 1.4	< 1.4
4-Chloroaniline	ug/l	30	NS	< 0.55	< 0.38 J	< 0.25	< 0.28	< 0.25	< 0.4	< 0.45	< 0.4	< 0.37	< 0.35	< 0.35	< 0.28	< 0.28	< 0.27	< 0.25	< 0.47	< 0.46
4-Chlorophenyl phenyl ether	ug/l	NS	NS	< 0.6	< 0.32 J	< 0.35	< 0.39	< 0.35	< 0.43	< 0.48	< 0.43	< 0.31	< 0.29	< 0.48	< 0.39	< 0.4	< 0.38	< 0.35	< 0.51	< 0.5
4-Nitroaniline	ug/l	NS	NS	< 1	< 0.64 J	< 0.18	< 0.2	< 0.18	< 0.72	< 0.81	< 0.72	< 0.62	< 0.59	< 0.48	< 0.2	< 0.2	< 0.19	< 0.18	< 0.85	< 0.83
4-Nitrophenol	ug/l	NS	NS	< 1.2	< 1.7 J	< 0.83	< 0.91	< 0.83	< 0.84	< 0.95	< 0.84	< 1.7	< 1.6	< 2.4	< 0.92	< 0.93	< 0.89	< 0.83	< 0.99	< 0.97
Acenaphthene	ug/l	400	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	ug/l	700	NS	< 0.52	< 0.39 J	< 0.4	< 0.44	< 0.4	< 0.37	< 0.42	< 0.37	< 0.38	< 0.36	< 0.49	< 0.44	< 0.45	< 0.43	< 0.4	< 0.44	< 0.43
Anthracene	ug/l	2000	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	ug/l	3	3	< 0.23	< 0.31 J	< 0.39	< 0.43	< 0.39	< 0.16	< 0.18	< 0.16	< 0.3	< 0.28	< 0.65	< 0.43	< 0.44	< 0.42	< 0.39	< 0.19	< 0.19
Benzaldehyde	ug/l	NS	NS	< 0.37	< 0.83 J	< 0.4	< 0.45	< 0.4	< 0.27	< 0.3	< 0.27	< 0.8	< 0.76	< 1.7	< 0.45	< 0.45	< 0.43	< 0.4	< 0.31	< 0.3
Benzo(a)anthracene	ug/l	0.1 [0.2]	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/l	0.1 [0.2]	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/l	0.2 [10]	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/l	0.5	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzyl butyl phthalate	ug/l	100	NS	< 0.82	< 0.69 J	< 0.25	< 0.28	< 0.25	< 0.59	< 0.67	< 0.59	< 0.67	< 0.64	< 0.44	< 0.28	< 0.28	< 0.27	< 0.25	< 0.7	< 0.68
bis(2-Chloroethoxy)methane	ug/l	NS	NS	< 0.91	< 0.35 J	< 0.25	< 0.27	< 0.25	< 0.65	< 0.73	< 0.65	< 0.33	< 0.32	< 0.54	< 0.28	< 0.28	< 0.27	< 0.25	< 0.77	< 0.75
bis(2-Chloroethyl)ether	ug/l	7	NS	< 0.74	< 0.73 J	< 0.31	< 0.34	< 0.31	< 0.53	< 0.6	< 0.53	< 0.71	< 0.67	< 0.52	< 0.34	< 0.35	< 0.33	< 0.31	< 0.62	< 0.61
bis(2-Chloroisopropyl)ether	ug/l	300	NS	< 1	< 0.63 J	< 0.39	< 0.43	< 0.39	< 0.74	< 0.83	< 0.74	< 0.61	< 0.58	< 0.57	< 0.43	< 0.44	< 0.42	< 0.39	< 0.87	< 0.85
bis(2-Ethylhexyl)phthalate	ug/l	3	6	**6.6**	< 0.95 J	< 2	< 0.36	< 0.33	< 0.66	< 0.74	< 0.66	< 0.92	< 0.88	< 0.79	< 0.36	< 0.37	< 0.35	< 0.33	< 0.78	< 0.76
Caprolactam	ug/l	NS	NS	< 0.44	< 0.53 J	< 0.2	< 0.22	< 0.2	< 0.32	< 0.35	< 0.32	< 0.52	< 0.49	< 0.66	< 0.22	< 0.22	< 0.21	< 0.2	< 0.37	< 0.36
Carbazole	ug/l	NS	NS	< 0.51	0.59 J	< 0.17	< 0.18	< 0.17	< 0.36	< 0.41	< 0.36	< 0.42	< 0.4	< 0.47	< 0.18	< 0.19	< 0.18	< 0.17	< 0.43	< 0.42
Chrysene	ug/l	5	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	ug/l	0.3 [0.5]	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/l	NS	NS	0.9 J	< 0.25 J	0.69 J	< 0.34	0.86 J	< 0.34	< 0.39	< 0.34	< 0.24	< 0.23	< 0.51	< 0.34	< 0.34	< 0.33	< 0.3	< 0.4	< 0.4
Diethyl phthalate	ug/l	6000	NS	< 0.54	< 0.37 J	< 0.17	< 0.18	< 0.17	< 0.39	< 0.44	< 0.39	< 0.36	< 0.34	< 0.38	< 0.18	< 0.19	< 0.18	< 0.17	< 0.46	< 0.45
Dimethyl phthalate	ug/l	NS	NS	< 0.46	< 0.37 J	< 0.23	< 0.25	< 0.23	< 0.33	< 0.37	< 0.33	< 0.35	< 0.34	< 0.38	< 0.25	< 0.25	< 0.24	< 0.23	< 0.39	< 0.38
di-n-butyl phthalate	ug/l	700	NS	< 0.82	< 0.43 J	< 0.19	< 0.21	< 0.19	< 0.59	< 0.67	< 0.59	< 0.42	< 0.4	< 0.53	< 0.21	< 0.21	< 0.21	< 0.19	< 0.7	< 0.68
di-n-octylphthalate	ug/l	100	NS	< 0.79	< 0.52 J	< 0.4	< 0.44	< 0.4	< 0.57	< 0.64	< 0.57	< 0.5	< 0.48	< 0.52	< 0.44	< 0.44	< 0.42	< 0.4	< 0.67	< 0.65
Fluoranthene	ug/l	300	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	ug/l	300	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	ug/l	0.02 [10]	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/l	1	NS	< 0.24	< 0.14 J	< 0.37	< 0.14	< 0.13	< 0.18	< 0.2	< 0.18	< 0.13	< 0.13	< 0.39	< 0.41	< 0.42 J	< 0.14	< 0.13	< 0.21	< 0.2
Hexachlorocyclopentadiene	ug/l	40	50	< 0.57	< 0.11 J	< 0.67	< 0.27	< 0.24	< 0.41	< 0.46	< 0.41	< 0.11	< 0.1	< 4.8	< 0.75	< 0.76	< 0.26	< 0.24	< 0.48	< 0.47
Hexachloroethane	ug/l	7	NS	< 0.39	< 0.18 J	< 0.26	< 0.23	< 0.21	< 0.28	< 0.32	< 0.28	< 0.17	< 0.16	< 0.32	< 0.29	< 0.3	< 0.22	< 0.21	< 0.33	< 0.33
Indeno(1,2,3-cd)pyrene	ug/l	0.2 [10]	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophrone	ug/l	40	NS	< 0.82	< 0.53 J	< 0.25	< 0.28	< 0.25	< 0.59	< 0.66	< 0.59	< 0.51	< 0.49	< 0.73	< 0.28	< 0.28	< 0.27	< 0.25	< 0.69	< 0.68
Naphthalene	ug/l	300	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	ug/l	6	NS	< 0.58	< 0.77 J	< 0.25	< 0.28	< 0.25	< 0.42	< 0.47	< 0.42	< 0.74	< 0.71	< 0.69	< 0.28	< 0.28	< 0.27	< 0.25	< 0.49	< 0.48
N-Nitroso-di-n-Propylamine	ug/l	10	NS	< 0.65	< 0.42 J	< 0.44	< 0.48	< 0.44	< 0.47	< 0.53	< 0.47	< 0.4	< 0.38	< 0.41	< 0.49	< 0.49	< 0.47	< 0.44	< 0.55	< 0.54
N-Nitrosodiphenylamine	ug/l	10	NS	< 0.72	< 0.45 J	1.6 J	1.1 J	< 0.22	< 0.52	< 0.58	< 0.52	< 0.44	< 0.41	< 0.64	< 0.24	< 0.24	< 0.23	< 0.22	< 0.61	< 0.59
Pentachlorophenol	ug/l	0.3 [1]	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	ug/l	2000	NS	< 0.69	< 0.74 J	< 0.58	< 0.64	< 0.58	< 0.5	< 0.56	< 0.5	< 0.72	< 0.68	< 1.4	< 0.64	< 0.65	< 0.62	< 0.58	< 0.58	< 0.57
Pyrene	ug/l	200	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total TIC, Semi-Volatile	ug/l	NS	NS	130.7 J	99.9 J	254.4 J	169.2 J	201.1 J	0	0	0	0	0	0	0	NA	0	0	0	0

Location ID		GWQS[1]	EPA	OB-23	OB-23	OB-23	OB-23	OB-23	OB-24	OB-24	OB-24	OB-24	OB-24	OB-24	OB-24	OB-24	OB-24	OB-24	OB-25	OB-25
Sample ID			MCLs	OB-23(041107)	OB-23(080502)	OB-23(070809)	OB-23(052810)	OB-23(051911)	OB-24	OB-24(041107)	OB-24(071012)	DUP-02(080430) (OB-24)	OB-24(080430)	OB-24(080911)	OB-24(070809)	OB-24(102609)	OB-24(052810)	OB-24(051911)	OB-25	REP-061130
Sample Date	Units			4/11/2007	5/2/2008	7/8/2009	5/28/2010	5/19/2011	11/28/2006	4/11/2007	10/12/2007	4/30/2008	4/30/2008	9/11/2008	7/8/2009	10/26/2009	5/28/2010	5/19/2011	11/30/2006	11/30/2006
SVOC BY SIM																				
Acenaphthene	ug/l	400	NS	1.24	0.414	1.03	0.828	1.83	< 0.017	< 0.019	< 0.017	< 0.017	< 0.016	< 0.017	< 0.018	< 0.033	< 0.031	< 0.014	< 0.02	< 0.02
Acenaphthylene	ug/l	NS	NS	< 0.013	< 0.0076	< 0.007	< 0.043	< 0.016	< 0.0095	< 0.011	< 0.0095	< 0.0074	< 0.007	< 0.0074	< 0.0078	< 0.044	< 0.042	< 0.016	< 0.011	< 0.011
Anthracene	ug/l	2000	NS	< 0.029	< 0.023	< 0.021	< 0.028	< 0.01	< 0.021	< 0.023	< 0.021	< 0.022	< 0.021	< 0.022	< 0.023	< 0.029	< 0.028	< 0.01	< 0.025	< 0.024
Benzo(a)anthracene	ug/l	0.1 [0.2]	NS	< 0.0094	< 0.037	< 0.034	< 0.026	< 0.015	< 0.0068	< 0.0076	< 0.0068	< 0.035	< 0.034	< 0.035	< 0.037	< 0.027	< 0.025	< 0.015	< 0.008	< 0.0078
Benzo(a)pyrene	ug/l	0.1 [0.2]	0.2	< 0.023	< 0.039	< 0.036	< 0.034	< 0.0049	< 0.017	< 0.019	< 0.017	< 0.037	< 0.036	< 0.037	< 0.039	< 0.035	< 0.033	< 0.0049	< 0.02	< 0.019
Benzo(b)fluoranthene	ug/l	0.2 [10]	NS	< 0.05	< 0.018	< 0.017	< 0.04	< 0.016	< 0.036	< 0.041	< 0.036	< 0.018	< 0.017	< 0.018	< 0.019	< 0.04	< 0.038	< 0.016	< 0.043	< 0.042
Benzo(g,h,i)perylene	ug/l	NS	NS	< 0.025	< 0.013	< 0.012	< 0.032	< 0.01	< 0.018	< 0.02	< 0.018	< 0.012	< 0.012	< 0.012	< 0.013	< 0.032	< 0.031	< 0.01	< 0.021	< 0.02
Benzo(k)fluoranthene	ug/l	0.5	NS	< 0.022	< 0.02	< 0.019	< 0.031	< 0.013	< 0.016	< 0.018	< 0.016	< 0.02	< 0.019	< 0.02	< 0.021	< 0.032	< 0.03	< 0.013	< 0.018	< 0.018
Chrysene	ug/l	5	NS	< 0.023	< 0.019	< 0.018	< 0.024	< 0.023	< 0.017	< 0.019	< 0.017	< 0.019	< 0.018	< 0.019	< 0.02	< 0.025	< 0.024	< 0.023	< 0.02	< 0.019
Dibenzo(a,h)anthracene	ug/l	0.3 [0.5]	NS	< 0.023	< 0.022	< 0.02	< 0.025	< 0.023	< 0.016	< 0.018	< 0.016	< 0.021	< 0.02	< 0.021	< 0.022	< 0.025	< 0.024	< 0.023	< 0.019	< 0.019
Fluoranthene	ug/l	300	NS	< 0.013	< 0.01	< 0.0096	< 0.027	< 0.0096	< 0.009	< 0.01	< 0.009	< 0.01	< 0.0096	< 0.01	< 0.011	< 0.027	< 0.026	< 0.0096	< 0.011	< 0.01
Fluorene	ug/l	300	NS	0.573	0.347	0.538	0.497	0.865	< 0.02	< 0.023	< 0.02	< 0.021	< 0.02	< 0.021	< 0.022	< 0.03	< 0.029	< 0.015	< 0.024	< 0.023
Hexachlorobenzene	ug/l	0.02 [10]	1	< 0.028	< 0.011	< 0.0099	< 0.011	< 0.008	< 0.061	< 0.022	< 0.02	< 0.01 J	< 0.0099 J	< 0.01	< 0.011	< 0.011	< 0.011	< 0.008	< 0.072	< 0.07
Indeno(1,2,3-cd)pyrene	ug/l	0.2 [10]	NS	< 0.015	< 0.016	< 0.014	< 0.032	< 0.011	< 0.011	< 0.012	< 0.011	< 0.015	< 0.014	< 0.015	< 0.016	< 0.033	< 0.031	< 0.011	< 0.013	< 0.013
Naphthalene	ug/l	300	NS	0.549	< 0.015	< 0.014	< 0.02	0.207	< 0.026	< 0.029	< 0.026	< 0.015	< 0.014	< 0.015	< 0.015	< 0.021	< 0.02	< 0.016	< 0.03	< 0.03
Pentachlorophenol	ug/l	0.3 [1]	1	< 0.42	< 0.24	< 0.22	< 0.075	< 0.29	< 0.4	< 0.34	< 0.3	< 0.23 J	< 0.22 J	< 0.23	< 0.25	< 0.25	< 0.073	< 0.29	< 0.47	< 0.46
Phenanthrene	ug/l	NS	NS	0.397	< 0.018	0.24	< 0.04	0.268	< 0.021	< 0.024	< 0.021	< 0.018	< 0.017	< 0.018	< 0.019	< 0.041	< 0.039	< 0.016	< 0.025	< 0.024
Pyrene	ug/l	200	NS	< 0.019	< 0.013	< 0.012	< 0.024	< 0.0081	< 0.014	< 0.016	< 0.014	< 0.013	< 0.012	< 0.013	< 0.013	< 0.025	< 0.024	< 0.0081	< 0.016	< 0.016
PCBs																				
PCB 1016	ug/l	0.5	0.5	< 0.094	< 0.1	< 0.21	< 0.33	< 0.14	< 0.11	< 0.12	< 0.094	< 0.1	< 0.096	< 0.096	< 0.2	< 0.3	< 0.34	< 0.13	< 0.11	< 0.11
PCB 1221	ug/l	0.5	0.5	< 0.47	< 0.5	< 0.34	< 0.45	< 0.29	< 0.53	< 0.59	< 0.47	< 0.5	< 0.48	< 0.48	< 0.32	< 0.41	< 0.46	< 0.28	< 0.54	< 0.54
PCB 1232	ug/l	0.5	0.5	< 0.39	< 0.41	< 0.23	< 0.34	< 0.41	< 0.44	< 0.49	< 0.39	< 0.41	< 0.4	< 0.4	< 0.22	< 0.31	< 0.35	< 0.4	< 0.45	< 0.45
PCB 1242	ug/l	0.5	0.5	< 0.16	< 0.17	< 0.099	< 0.3	< 0.091	< 0.18	< 0.21	< 0.16	< 0.17	< 0.17	< 0.17	< 0.094	< 0.27	< 0.3	< 0.09	< 0.19	< 0.19
PCB 1248	ug/l	0.5	0.5	< 0.15	< 0.16	< 0.28	< 0.31	< 0.15	< 0.17	< 0.19	< 0.15	< 0.16	< 0.16	< 0.16	< 0.27	< 0.28	< 0.31	< 0.15	< 0.18	< 0.18
PCB 1254	ug/l	0.5	0.5	< 0.11	< 0.12	< 0.12	< 0.2	< 0.15	< 0.12	< 0.14	< 0.11	< 0.12	< 0.11	< 0.11	< 0.12	< 0.18	< 0.2	< 0.15	< 0.13	< 0.13
PCB 1260	ug/l	0.5	0.5	< 0.12	< 0.12	< 0.16	< 0.15	< 0.22	< 0.13	< 0.15	< 0.12	< 0.12	< 0.12	< 0.12	< 0.15	< 0.14	< 0.16	< 0.22	< 0.13	< 0.13
Total PCBs	ug/l	0.5	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pesticides/Herbicides																				
4,4-DDD	ug/l	0.1	NS	NA	NA	NA	NA	NA	< 0.0027	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.003	< 0.0028
4,4-DDE	ug/l	0.1	NS	NA	NA	NA	NA	NA	< 0.0019	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0021	< 0.0019
4,4-DDT	ug/l	0.1	NS	NA	NA	NA	NA	NA	< 0.0055	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0062	< 0.0057
Aldrin	ug/l	0.04	NS	NA	NA	NA	NA	NA	< 0.0038	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0042	< 0.0039
alpha-BHC	ug/l	0.02	NS	NA	NA	NA	NA	NA	< 0.0029	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0033	< 0.003
alpha-Chlordane	ug/l	NS	NS	NA	NA	NA	NA	NA	< 0.0049	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0054	< 0.0051
beta-BHC	ug/l	0.04	NS	NA	NA	NA	NA	NA	< 0.0069	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0077	< 0.0072
delta-BHC	ug/l	NS	NS	NA	NA	NA	NA	NA	< 0.0035	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0039	< 0.0036
Dieldrin	ug/l	0.03	NS	NA	NA	NA	NA	NA	< 0.0019	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0021	< 0.002
Endosulfan I (alpha)	ug/l	40	NS	NA	NA	NA	NA	NA	< 0.0024	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0026	< 0.0025
Endosulfan II (beta)	ug/l	40	NS	NA	NA	NA	NA	NA	< 0.0036	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0041	< 0.0038
Endosulfan sulfate	ug/l	40	NS	NA	NA	NA	NA	NA	< 0.0052	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0058	< 0.0054
Endrin	ug/l	2	2	NA	NA	NA	NA	NA	< 0.0034	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0038	< 0.0035
Endrin Aldehyde	ug/l	NS	NS	NA	NA	NA	NA	NA	< 0.0072	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0081	< 0.0075
Endrin ketone	ug/l	NS	NS	NA	NA	NA	NA	NA	< 0.0039	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0044	< 0.0041
gamma-Chlordane	ug/l	NS	NS	NA	NA	NA	NA	NA	< 0.0019	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0022	< 0.002
Heptachlor	ug/l	0.05	0.4	NA	NA	NA	NA	NA	< 0.0029	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0032	< 0.003
Heptachlor epoxide	ug/l	0.2	0.2	NA	NA	NA	NA	NA	< 0.0017	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0018	< 0.0017
Lindane	ug/l	0.03	0.2	NA	NA	NA	NA	NA	< 0.0019	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0022	< 0.002
Methoxychlor	ug/l	40	40	NA	NA	NA	NA	NA	< 0.0076	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0085	< 0.0079
Toxaphene	ug/l	2	3	NA	NA	NA	NA	NA	< 0.11	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.12	< 0.11

Location ID		GWQS[1]	EPA	OB-23	OB-23	OB-23	OB-23	OB-23	OB-24	OB-24	OB-24	OB-24	OB-24	OB-24	OB-24	OB-24	OB-24	OB-25	OB-25
Sample ID			MCLs	OB-23(041107)	OB-23(080502)	OB-23(070809)	OB-23(052810)	OB-23(051911)	OB-24	OB-24(041107)	OB-24(071012)	DUP-02(080430) (OB-24)	OB-24(080430)	OB-24(080911)	OB-24(070809)	OB-24(102609)	OB-24(052810)	OB-24(051911)	OB-25	REP-061130
Sample Date	Units			4/11/2007	5/2/2008	7/8/2009	5/28/2010	5/19/2011	11/28/2006	4/11/2007	10/12/2007	4/30/2008	4/30/2008	9/11/2008	7/8/2009	10/26/2009	5/28/2010	5/19/2011	11/30/2006	11/30/2006
Metals - Total																				
Aluminum	ug/l	200	NS	**268**	< 24	177 B	127 B	69 J	39.7 B	< 23	< 26	< 24	< 24	**686**	**1020**	**250**	18.8 B	**513**	**27400 J**	**60500 J**
Antimony	ug/l	6	6	< 5	< 1.8 B	< 4	< 2.2	2.9 J	< 5	< 5	< 5.7	< 1.8	< 1.8	< 2.5	< 4	< 2.9	< 2.2	< 1.3	< 5	< 5
Arsenic	ug/l	3 [8]	10	< 1.5	< 1.7	< 2.4	2.2 B	< 0.92	< 1.5	< 1.5	1.9 B	< 1.7	1.7 B	2.5 BJ	< 2.4	< 2.4	< 1.4	< 0.92	**9.1 J**	**23.1 J**
Barium	ug/l	6000	2000	668	499	436	630	494	37.5 B	34.5 B	37.9 B	35 B	33.7 B	52.5 BJ	44.7 B	38.9 B	37.5 B	46.1 B	147 BJ	298 J
Beryllium	ug/l	1	4	< 0.4	< 0.15	< 0.4	< 1	< 0.24	< 0.4	< 0.4	< 0.15	< 0.15	< 0.15	< 0.15	< 0.4	< 0.4	< 1	< 0.24	**1.2 J**	**2.5 J**
Cadmium	ug/l	4	5	1.5 B	< 0.28	0.5 B	0.4 B	< 0.17	< 1.3	< 1.3	< 0.24	< 0.28	< 0.28	< 0.28	0.9 B	< 0.4	< 0.35	< 0.17	< 1.3	< 1.3
Calcium	ug/l	NS	NS	148000	127000	117000	137000	136000	91700	97200	104000	87900 J	84800 J	91400 J	97600	96800	93900	97000	32300 J	36400 J
Chromium	ug/l	70	100	< 0.8	1.3 B	< 10	2.7 B	< 10	1.2 B	< 0.8	< 0.53	1.1 B	2.5 B	< 1.8	< 10	< 0.9	1.4 B	< 0.9	48.2 J	**85.2 J**
Cobalt	ug/l	NS	NS	1.8 B	2.9 B	1.2 B	2.5 B	< 50	< 1.8	< 1.8	2.1 B	< 0.51	< 0.51	< 0.51	0.5 B	< 1.6	< 0.65	< 50	21 B	49 B
Copper	ug/l	1,300	1300	24.7 B	4.3 B	< 10	4.9 J	2.4 B	< 2.7	< 2.7	< 3.3	< 2.5	< 2.5	3.7 B	< 10	< 1.6	< 2.5	< 0.85	123 J	196 J
Iron	ug/l	300	NS	**14100**	**7760**	**42300**	**47300**	**47500**	124	129	< 6.3	223 J	287 J	**1520 J**	**2130**	**493**	77.5 B	**1110**	**45800 J**	**107000 J**
Lead	ug/l	5	15	**24.1**	2.5 B	**7.5**	2.2 B	**5.5 J**	2.8 B	< 2.8	1.2 BJ	1.6 B	1.5 B	< 1.4	< 1.7	< 1.7	< 1.9	4.2 J	**31.5 J**	**59.3 J**
Magnesium	ug/l	NS	NS	17100	16600	12400	14800	15600	23400	25700	26100	21700 J	21000 J	20700	24200	23400	23500	25000	16900 J	26900 J
Manganese	ug/l	50	NS	**1650**	**1130**	**1400**	**1550**	**2360**	**487**	**343**	**352**	**272 J**	**262 J**	**742**	**789**	**341**	**310**	**1450**	**3290 J**	**5450 J**
Mercury	ug/l	2	2	0.06 B	< 0.15	< 0.049	< 0.082	< 0.088	< 0.037	< 0.037	< 0.15	< 0.15	< 0.15	< 0.049	< 0.049	< 0.082	< 0.082	0.095 B	0.044 B	0.15 B
Nickel	ug/l	100	NS	6.3 B	5.3 B	< 10	4.8 B	4.8 J	< 2.8	< 2.8	< 0.73	< 1.2	1.5 B	< 1.5	< 10	0.8 B	1 B	< 10	50.5 J	**108 J**
Potassium	ug/l	NS	NS	15900	14300	10000	12200	10700	2370 B	2410 B	2450 B	2270 B	2200 B	3740 B	2340 B	2300 B	2150 J	2220 B	6280 J	8940 J
Selenium	ug/l	40	50	< 6.2	< 1.6	< 10	3.6 B	< 1.5	< 6.2	< 6.2	< 0.73	< 1.6	< 1.6	< 1.6	< 3.7	< 3.7	2.8 B	< 1.5	< 6.2	< 6.2
Silver	ug/l	40	NS	< 1	< 1	< 1	2.1 B	1.1 B	< 1	< 1	< 0.83	< 1	< 1	< 1	< 1	< 1	< 0.53	< 0.72	< 1	< 1
Sodium	ug/l	50,000	NS	**170000**	**368000**	**86900**	**94400**	**63500**	13700	14200	14800	13700	13200	12200	14700	14900	15300	15400	25800	25800
Thallium	ug/l	2 [10]	2	< 0.09	< 1.3	< 1.5	< 1.8	< 0.17	0.11 B	< 0.09	1.8 B	< 1.3	< 1.3	< 1.3	< 1.5	< 1.5	< 1.8	< 0.17	0.41 B	0.69 B
Vanadium	ug/l	NS	NS	< 1.8	< 0.43	< 0.9	< 0.56	< 0.43	< 1.8	< 1.8	1.2 B	1.2 B	1 B	3.3 B	3.9 BJ	1.6 B	0.7 B	2.5 J	46.5 BJ	102 J
Zinc	ug/l	2000	NS	155	63.7	47.9	17 J	63.9	< 3.4	< 3.4	< 2.7 J	< 4	< 4	< 6.5	< 2.9	9.6 B	< 1.4	2.9 J	530 J	465 J
Metals - Dissolved																				
Aluminum	ug/l	200	NS	< 23	< 24	103 B	< 7.8	< 200	< 23	< 23	< 26	< 24	< 24	< 24	93.9 B	133 B	< 7.8	< 200	< 23	< 23
Antimony	ug/l	6	6	< 5	< 1.8 B	< 4	< 2.2	2.1 J	< 5	< 5	< 5.7	< 1.8	< 1.8	< 2.1	< 4	< 2.9	< 2.2	< 1.3	< 5	< 5
Arsenic	ug/l	3 [8]	10	< 1.5	< 1.7	< 2.4	< 1.4	< 0.92	< 1.5	< 1.5	< 1.1	1.7 B	< 1.7	< 1.7	< 2.4	< 2.4	< 1.4	< 0.92	< 1.5	< 1.5
Barium	ug/l	6000	2000	381	414	332	468	378	37.4 B	34.7 B	37.5 B	32.7 B	33.8 B	47.2 BJ	38.2 B	36 B	36.2 B	39.1 B	10.8 B	10.4 B
Beryllium	ug/l	1	4	< 0.4	< 0.15	< 0.4	< 1	< 0.24	< 0.4	< 0.4	< 0.15	< 0.15	< 0.15	< 0.15	< 0.4	< 0.4	< 1	< 0.24	< 0.4	< 0.4
Cadmium	ug/l	4	5	< 1.3	< 0.28	0.6 B	< 0.35	< 0.17	< 1.3	< 1.3	< 0.24	< 0.28	< 0.28	< 0.28	0.8 B	< 0.4	< 0.35	< 0.17	< 1.3	< 1.3
Calcium	ug/l	NS	NS	144000	124000	113000	132000	132000	92200	96100	102000	82700 J	85400 J	89400 J	99300	98300	93800	97700	30000 J	31000 J
Chromium	ug/l	70	100	1.3 B	0.8 B	< 10	1.6 B	< 0.9	< 0.8	< 0.8	< 0.53	1.2 B	1 B	< 0.53	< 0.9	< 0.9	1.1 B	< 0.9	1.2 B	1.1 B
Cobalt	ug/l	NS	NS	2.2 B	2.9 B	0.5 B	1.5 B	< 50	< 1.8	< 1.8	2.3 B	< 0.51	< 0.51	< 0.51	< 0.4	< 1.6	< 0.65	< 0.3	< 1.8	< 1.8
Copper	ug/l	1,300	1300	< 2.7	3.5 B	< 2	< 2.5	< 0.85	< 2.7	< 2.7	< 3.3	< 2.5	< 2.5	< 2.5	< 2	< 1.6	< 2.5	< 0.85	< 2.7	< 2.7
Iron	ug/l	300	NS	**329**	**401**	**19000**	**22600**	**22200**	124	< 25	< 6.3	< 7.4 J	89.3 BJ	< 17.9 J	< 100	< 12	< 18	< 100	81.5 BJ	113 J
Lead	ug/l	5	15	< 2.8	< 1.4	< 1.7	< 1.9	< 3	< 2.8	< 2.8	1.5 BJ	< 1.4	< 1.4	< 1.4	< 1.7	< 1.7	< 1.9	< 3	< 2.8	< 2.8
Magnesium	ug/l	NS	NS	17000	16300	12100	14500	15200	23300	25500	25500	20400 J	21100 J	20000	24100	24000	23800	25000	10100 J	10400 J
Manganese	ug/l	50	NS	**1530**	**1120**	**1330**	**1500**	**2250**	**487**	**335**	**333**	**238 J**	**242 J**	**538**	**93**	**147**	**93.5**	46	**1530**	**1650**
Mercury	ug/l	2	2	< 0.037	< 0.15	< 0.049	< 0.082	< 0.088	< 0.037	< 0.037	< 0.15	< 0.15	< 0.15	< 0.049	< 0.049	< 0.082	< 0.082	< 0.088	< 0.037	< 0.037
Nickel	ug/l	100	NS	6.8 B	4.8 B	< 10	3.4 B	3.7 J	< 2.8	< 2.8	< 0.73	< 1.2	< 1.2	< 1.2	< 0.6	< 0.6	0.9 B	< 10	< 2.8	3.2 B
Potassium	ug/l	NS	NS	14300	14000	9630 B	11900	10500	2270 B	2420 B	2400 B	2180 B	2190 B	3610 B	2140 B	2280 B	2130 B	2200 B	2220 BJ	2110 BJ
Selenium	ug/l	40	50	< 6.2	< 1.6	< 3.7	< 1.9	< 1.5	< 6.2	< 6.2	< 0.73	1.7 B	< 1.6	< 2.1	< 3.7	< 3.7	3 B	< 1.5	< 6.2	< 6.2
Silver	ug/l	40	NS	< 1	< 1	< 1	1.3 B	< 0.72	< 1	< 1	< 0.83	< 1	< 1	< 1	< 1	< 1	< 0.53	< 0.72	< 1	< 1
Sodium	ug/l	50,000	NS	**153000 J**	**343000**	**82300**	**94500**	**61500**	13400	14300	14600	13000	13400	11900	14900	15300	15100	15500	27000	26800
Thallium	ug/l	2 [10]	2	< 0.09	< 1.3	< 1.5	< 1.8	< 0.17	< 0.09	< 0.09	< 1.4	< 1.3	< 1.3	< 1.3	< 1.5	< 1.5	< 1.8	< 0.17	0.24 B	0.2 B
Vanadium	ug/l	NS	NS	< 1.8	< 0.43	< 0.9	< 0.56	< 0.43	< 1.8	< 1.8	0.9 B	0.7 B	1 B	0.5 BJ	< 0.9	< 0.9	< 50	< 50	< 1.8	< 1.8
Zinc	ug/l	2000	NS	77.6	52.9	< 20	10.2 J	14.3 B	< 3.4	< 3.4	< 2.7 J	< 4	< 4	< 4	< 20	9.2 B	< 1.4	5.1 J	6.9 B	6.2 B
Other																				
Alkalinity, Bicarbonate	ug/l	NS	NS	724000	977000	NA	NA	NA	234000	232000	265000	222000	226000	269000	NA	NA	NA	NA	NA	NA
Alkalinity, Carbonate	ug/l	NS	NS	< 5000	< 5000	NA	NA	NA	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	NA	NA	NA	NA	NA	NA
Alkalinity, total (as CaCO3)	ug/l	NS	NS	725000	979000	418000	527000	408000	234000	233000	265000	222000	226000	269000	228000	216000	213000	215000	NA	NA
BOD, 5 Day	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromide	ug/l	NS	NS	NA	NA	NA	NA	NA	380	NA	NA	NA	NA	NA	NA	NA	NA	NA	230 J	< 150 J
Chloride	ug/l	250000	NS	46000	72600	89900	81500	81300	77900	86200	75000	76800	77200	55700	88000	86900	85400	88100	NA	NA
COD	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide	ug/l	100	200	20	< 10	NA	NA	NA	< 10	< 10	< 10	< 10 J	< 10 J	< 10	NA	NA	NA	NA	< 10	< 10
Nitrate	ug/l	10000	10000	1300	< 110	NA	NA	NA	450	990	700	680	790	500 J	NA	NA	NA	NA	< 110	< 110
Nitrogen, Nitrate + Nitrite	ug/l	10000	NS	1500	< 100	NA	NA	NA	450	990	700	680	790	500	NA	NA	NA	NA	< 100	< 100
Nitrogen, Nitrite	ug/l	1000	1000	160	13	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10 J	NA	NA	NA	NA	< 10	< 10
Phosphorus, Total	ug/l	NS	NS	2000	98	NA	NA	NA	< 50	< 50	< 50	< 50	< 50	110	NA	NA	NA	NA	530 J	970 J
Sulfate	ug/l	250000	NS	14400	35000	< 10000	< 10000	10300	32500	32100	27800	26600	26800	19900	32900	32700	31900	30000	NA	NA
Total Dissolved Solids	ug/l	500000	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total organic carbon	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See footnotes on last page

Location ID		GWQS[1]	EPA	OB-25	OB-25	OB-25	OB-25	OB-25	OB-25	OB-25	OB-25	OB-26	OB-26
Sample ID			MCLs	OB-25(041207)	OB-25(071012)	OB-25(080429)	OB-25(080918)	OB-25(070609)	OB-25(102609)	OB-25(060110)	OB-25 (052011)	OB-26(080509)	OB-26(080916)
Sample Date	Units			4/12/2007	10/12/2007	4/29/2008	9/18/2008	7/6/2009	10/26/2009	6/1/2010	5/20/2011	5/9/2008	9/16/2008
VOC													
1,1,1,2-Tetrachloroethane	ug/l	1	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	ug/l	30	200	< 0.28	< 0.3	< 0.24	< 0.24	< 0.26	< 0.26	< 0.26	< 0.2	< 0.24	< 0.24
1,1,2,2-Tetrachloroethane	ug/l	1	NS	< 0.28	< 0.8	< 0.13	< 0.13	< 0.24	< 0.24	< 0.24	< 0.12	< 0.13	< 0.13
1,1,2-Trichloroethane	ug/l	3	5	< 0.32	< 0.49	< 0.17	< 0.17	< 0.23	< 0.23	< 0.23	< 0.13	< 0.17	< 0.17
1,1-Dichloroethane	ug/l	50	NS	< 0.23	< 0.2	< 0.16	< 0.24	< 0.29	< 0.29	< 0.29	< 0.16	< 0.16	< 0.24
1,1-Dichloroethene	ug/l	1	7	< 0.33	< 0.28	< 0.29	< 0.29	< 0.4	< 0.4	< 0.4	< 0.24	< 0.29	< 0.29
1,2,4-Trichlorobenzene	ug/l	9	70	< 0.16	< 0.41	< 1.3	< 1.3	< 0.56	< 0.56	< 0.56	< 0.16	< 1.3	< 1.3
1,2-Dibromo-3-Chloropropane (DBCP)	ug/l	0.02 [1]	0.2	< 1.1	< 0.8	< 2.4	< 1.3	< 1.1	< 1.1	< 1.1	< 1.2	< 2.4	< 1.3
1,2-Dibromoethane	ug/l	0.03 [0.5]	0.05	< 0.52	< 0.45	< 0.17	< 0.18	< 0.39	< 0.39	< 0.39	< 0.39	< 0.17	< 0.18
1,2-Dichlorobenzene	ug/l	600	600	< 0.2	< 0.2	< 0.18	< 0.18	< 0.26	< 0.26	< 0.26	< 0.15	< 0.18	< 0.18
1,2-Dichloroethane	ug/l	2	5	< 0.29	< 0.29	< 0.35	< 0.35	< 0.33	< 0.33	< 0.33	< 0.31	< 0.35	< 0.35
1,2-Dichloropropane	ug/l	1	5	< 0.2	< 0.24	< 0.18	< 0.18	< 0.27	< 0.27	< 0.27	< 0.23	< 0.18	< 0.18
1,3-Dichlorobenzene	ug/l	600	NS	< 0.32	< 0.21	< 0.26	< 0.26	< 0.25	< 0.25	< 0.25	< 0.19	< 0.26	< 0.26
1,4-Dichlorobenzene	ug/l	75	75	< 0.24	< 0.17	< 0.32	< 0.22	< 0.28	< 0.28	< 0.28	< 0.22	< 0.32	< 0.22
2-Butanone (MEK)	ug/l	300	NS	< 2.6	< 2.7	< 2.3	< 2.3	< 1.6	< 1.6	< 1.6	< 1.7	< 2.3	< 2.3
2-Hexanone	ug/l	NS	NS	< 1.3	< 0.94	< 1.7	< 1.7	< 1.4	< 1.4	< 1.4	< 1.9	< 1.7	< 1.7
4-methyl-2-pentanone (MIBK)	ug/l	NS	NS	< 1.1	< 1.4	< 1.9	< 1.3	< 0.86	< 0.86	< 0.86	< 0.74	< 1.9	< 1.3
Acetone	ug/l	6000	NS	< 2.4	< 2.9	< 2.1	< 2.1	< 2.9	< 2.9	< 2.9	< 4.4	< 2.1	< 2.1
Benzene	ug/l	1	5	< 0.21	< 0.19	< 0.26	< 0.26	< 0.23	< 0.23	< 0.23	< 0.26	< 0.26	< 0.26
Bromodichloromethane	ug/l	1	80	< 0.17	< 0.15	< 0.14	< 0.14	< 0.22	< 0.22	< 0.22	< 0.18	< 0.14	< 0.14
Bromoform	ug/l	4	80	< 0.54	< 0.34	< 0.18	< 0.18	< 0.23	< 0.23	< 0.23	< 0.42	< 0.18	< 0.18
Bromomethane	ug/l	10	NS	< 0.22	< 0.38	< 0.32	< 0.32	< 0.3	< 0.3	< 0.3	< 0.24	< 0.32	< 0.32
Carbon disulfide	ug/l	700	NS	< 0.21	< 0.14	< 0.15	< 0.16	< 0.74	< 0.74	< 0.74	< 0.13	< 0.15	< 0.16
Carbon tetrachloride	ug/l	1	5	< 0.29	< 0.19	< 0.18	< 0.18	< 0.26	< 0.26	< 0.26	< 0.35	< 0.18	< 0.18
Chlorobenzene	ug/l	50	100	< 0.22	< 0.19	< 0.14	< 0.19	< 0.39	< 0.39	< 0.39	< 0.15	< 0.14	< 0.19
Chloroethane	ug/l	NS	NS	< 0.56	< 0.67	< 0.22	< 0.22	< 0.37	< 0.37	< 0.37	< 0.25	< 0.22	< 0.22
Chloroform	ug/l	70	80	< 0.22	< 0.25	< 0.16	< 0.16	< 0.23	< 0.23	< 0.23	< 0.14	< 0.16	< 0.16
Chloromethane	ug/l	NS	NS	< 0.35	< 0.3	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.34	< 0.29	< 0.29
cis-1,2-Dichloroethene	ug/l	70	70	< 0.18	< 0.27	< 0.19	< 0.25	< 0.22	< 0.22	< 0.22	< 0.24	< 0.19	< 0.25
cis-1,3-Dichloropropene	ug/l	NS	NS	< 0.15	< 0.13	< 0.15	< 0.18	< 0.25	< 0.25	< 0.25	< 0.16	< 0.15	< 0.18
Cyclohexane	ug/l	NS	NS	< 0.5	< 0.85	< 0.85	< 0.85	< 1.9	< 1.9	< 1.9	< 0.43	< 0.85	< 0.85
Dibromochloromethane	ug/l	1	80	< 0.19	< 0.28	< 0.12	< 0.16	< 0.22	< 0.22	< 0.22	< 0.16	< 0.12	< 0.16
Dichlorodifluoromethane	ug/l	1,000	NS	< 0.75	< 1	< 0.88	< 0.88	< 0.92	< 0.92	< 0.92	< 0.39	< 0.88	< 0.88
Ethylbenzene	ug/l	700	700	< 0.2	< 0.21	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.31	< 0.27	< 0.27
Freon 113	ug/l	NS	NS	< 0.69	< 1.2	< 0.8	< 0.8	< 0.38	< 0.38	< 0.38	< 0.66	< 0.8	< 0.8
Isopropylbenzene	ug/l	700	NS	< 0.2	< 0.54	< 0.15	< 0.19	< 0.57	< 0.57	< 0.57	< 0.31	< 0.15	< 0.19
Methyl acetate	ug/l	7000	NS	< 2.1	< 1.6	< 2.5	< 1.7	< 1.5	< 1.5	< 1.5	< 1.3	< 2.5	< 1.7
Methyl tert butyl ether	ug/l	70	NS	< 0.31	< 0.2	0.25 J	< 0.16	**171**	< 0.23	< 0.23	< 0.2	< 0.14	< 0.16
Methylcyclohexane	ug/l	NS	NS	< 0.18	< 0.5	< 0.11	< 0.11	< 0.35	< 0.35	< 0.35	< 0.16	< 0.11	< 0.11
Methylene chloride	ug/l	3	5	< 0.27	< 0.21	< 0.16	< 0.16	< 0.3	< 0.3	< 0.3	< 0.2	< 0.16	< 0.16
o-Xylene	ug/l	NS	NS	< 0.31	< 0.2	< 0.45	< 0.45	< 0.25	< 0.25	NA	NA	< 0.45	< 0.45
Styrene	ug/l	100	100	< 0.16	< 0.2	< 0.11	< 0.17	< 0.58	< 0.58	< 0.58	< 0.48	< 0.11	< 0.17
Tertiary Butyl Alcohol	ug/l	100	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	ug/l	1	5	< 0.28	< 0.28 J	< 0.29	< 0.29	< 0.27	< 0.27	< 0.27	< 0.24	< 0.29	< 0.29
Toluene	ug/l	600	1000	< 0.2	< 0.21	< 0.15	< 0.15	< 0.3	0.72 J	< 0.3	< 0.27	< 0.15	< 0.15
Trans-1,2-dichloroethene	ug/l	100	100	< 0.42	< 0.32	< 0.16	< 0.16	< 0.25	< 0.25	< 0.25	< 0.3	< 0.16	< 0.16
trans-1,3-Dichloropropene	ug/l	NS	NS	< 0.2	< 0.17	< 0.11	< 0.15	< 0.21	< 0.21	< 0.21	< 0.22	< 0.11	< 0.15
Trichloroethene	ug/l	1	5	< 0.29	< 0.26	< 0.18	< 0.18	< 0.24	< 0.24	< 0.24	< 0.22	< 0.18	< 0.18
Trichlorofluoromethane	ug/l	2000	NS	< 0.25	< 0.26	< 0.25	< 0.25	< 0.54	< 0.54	< 0.54	< 0.23	< 0.25	< 0.25
Vinyl Chloride	ug/l	1	2	< 0.29	< 0.22	< 0.21	< 0.21	< 0.44	< 0.44	< 0.44	< 0.22	< 0.21	< 0.21
Xylene, -m,p	ug/l	NS	NS	< 0.42	< 0.35	< 0.39	< 0.39	< 0.25	< 0.25	NA	NA	< 0.39	< 0.39
Xylenes	ug/l	1,000	10000	< 0.31	< 0.2	< 0.39	< 0.39	< 0.25	< 0.25	< 0.25	< 0.28	< 0.39	< 0.39
Total TIC, Volatile	ug/l	NS	NS	0	0	0	0	0	0	0	0	0	0

Location ID		GWQS[1]	EPA	OB-25	OB-25	OB-25	OB-25	OB-25	OB-25	OB-25	OB-25	OB-26	OB-26
Sample ID			MCLs	OB-25(041207)	OB-25(071012)	OB-25(080429)	OB-25(080918)	OB-25(070609)	OB-25(102609)	OB-25(060110)	OB-25 (052011)	OB-26(080509)	OB-26(080916)
Sample Date	Units			4/12/2007	10/12/2007	4/29/2008	9/18/2008	7/6/2009	10/26/2009	6/1/2010	5/20/2011	5/9/2008	9/16/2008
SVOC													
1,1'-Biphenyl	ug/l	400	NS	< 0.33	< 0.36	< 0.23	< 0.58	< 0.47	< 0.47	< 0.49	< 0.47	< 0.23	< 0.55
1,2,4-Trichlorobenzene	ug/l	9	70	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	ug/l	600	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	ug/l	600	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	ug/l	75	75	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/l	700	NS	< 1.9	< 2.1	< 1.2	< 2.1	< 1.5	< 1.5	< 1.5	< 1.5	< 1.1	< 2
2,4,6-Trichlorophenol	ug/l	20	NS	< 1.3	< 1.4	< 1.1	< 1.7	< 1.4	< 1.4	< 1.4	< 1.4	< 1.1	< 1.6
2,4-Dichlorophenol	ug/l	20	NS	< 1.6	< 1.7	< 1.5	< 2	< 1.4	< 1.4	< 1.4	< 1.4	< 1.5	< 1.9
2,4-Dimethylphenol	ug/l	100	NS	< 1.6	< 1.8	< 1.7	< 2.1	< 1.8	< 1.9	< 1.9	< 1.8	< 1.7	< 2
2,4-Dinitrophenol	ug/l	40	NS	< 0.89	< 0.99	< 1.2	< 4.4	< 0.82	< 0.83	< 0.86	< 0.82	< 1.1	< 4.2
2,4-Dinitrotoluene	ug/l	NS	NS	< 0.86	< 0.96	< 0.57	< 0.48	< 0.24	< 0.25 J	< 0.26	< 0.24	< 0.57	< 0.45
2,6-Dinitrotoluene	ug/l	NS	NS	< 0.56	< 0.62	< 0.53	< 0.63	< 0.36	< 0.37	< 0.38	< 0.36	< 0.52	< 0.6
2-Chloronaphthalene	ug/l	600	NS	< 0.98	< 1.1	< 0.21	< 0.51	< 0.46	< 0.47	< 0.48	< 0.46	< 0.21	< 0.48
2-Chlorophenol	ug/l	40	NS	< 0.95	< 1.1	< 0.92	< 1.5	< 1.2	< 1.2	< 1.2	< 1.2	< 0.91	< 1.5
2-Methylnaphthalene	ug/l	NS	NS	< 0.41	< 0.45	< 0.8	< 0.46	< 0.73	< 0.74	< 0.77	< 0.73	< 0.8	< 0.43
2-Methylphenol	ug/l	NS	NS	< 1.4	< 1.5	< 1.1	< 1.4	< 1.2	< 1.3	< 1.3	< 1.2	< 1.1	< 1.4
2-Nitroaniline	ug/l	NS	NS	< 0.66	< 0.74	< 0.52	< 0.47	< 0.26	< 0.26	< 0.27	< 0.26	< 0.52	< 0.45
2-Nitrophenol	ug/l	NS	NS	< 1.8	< 2	< 1.6	< 2	< 1.4	< 1.4	< 1.4	< 1.4	< 1.6	< 1.9
3&4-Methylphenol	ug/l	NS	NS	< 1.3	< 1.4	< 1.2	< 1.5	< 1.2	< 1.2	< 1.2	< 1.2	< 1.1 J	< 1.5
3,3'-Dichlorobenzidine	ug/l	30	NS	< 1.2	< 1.4	< 1	< 4.8	< 0.33	< 0.33	< 0.34	< 0.33	< 1	< 4.6
3-Nitroaniline	ug/l	NS	NS	< 1.3	< 1.4	< 0.34	< 0.47	< 0.32	< 0.32	< 0.33	< 0.32	< 0.34	< 0.45
4,6-Dinitro-2-methylphenol	ug/l	NS	NS	< 0.72	< 0.8	< 2.3	< 1.2	< 0.57	< 0.58	< 0.6	< 0.57	< 2.3	< 1.2
4-Bromophenyl phenyl ether	ug/l	NS	NS	< 0.3	< 0.33	< 0.39	< 0.43	< 0.39	< 0.39	< 0.41	< 0.39	< 0.39	< 0.41
4-Chloro-3-Methylphenol	ug/l	NS	NS	< 1.2	< 1.3	< 1.3	< 2.4	< 1.2	< 1.2	< 1.2	< 1.2	< 1.3	< 2.3
4-Chloroaniline	ug/l	30	NS	< 0.4	< 0.44	< 0.37	< 0.35	< 0.28	< 0.28	< 0.29	< 0.28	< 0.36	< 0.33
4-Chlorophenyl phenyl ether	ug/l	NS	NS	< 0.43	< 0.48	< 0.31	< 0.48	< 0.39	< 0.4	< 0.41	< 0.39	< 0.3	< 0.45
4-Nitroaniline	ug/l	NS	NS	< 0.72	< 0.8	< 0.62	< 0.48	< 0.2	< 0.2	< 0.21	< 0.2	< 0.61	< 0.45
4-Nitrophenol	ug/l	NS	NS	< 0.84	< 0.94	< 1.7	< 2.4	< 0.92	< 0.93	< 0.96	< 0.92	< 1.6	< 2.3
Acenaphthene	ug/l	400	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	ug/l	700	NS	< 0.37	< 0.42	< 0.38	< 0.49	< 0.44	< 0.45	< 0.46	< 0.44	< 0.38	< 0.47
Anthracene	ug/l	2000	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	ug/l	3	3	< 0.16	< 0.18	< 0.3	< 0.65	< 0.43	< 0.44	< 0.45	< 0.43	< 0.29	< 0.62
Benzaldehyde	ug/l	NS	NS	< 0.27	< 0.29	< 0.8	< 1.7	< 0.45	< 0.45	< 0.47	< 0.45	R	< 1.6
Benzo(a)anthracene	ug/l	0.1 [0.2]	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/l	0.2 [10]	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/l	0.2 [10]	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/l	0.5	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzyl butyl phthalate	ug/l	100	NS	< 0.59	< 0.66	< 0.67	< 0.44	< 0.28	< 0.28	< 0.29	< 0.28	< 0.66	< 0.42
bis(2-Chloroethoxy)methane	ug/l	NS	NS	< 0.65	< 0.73	< 0.33	< 0.54	< 0.28	< 0.28	< 0.29	< 0.28	< 0.33	< 0.52
bis(2-Chloroethyl)ether	ug/l	7	NS	< 0.53	< 0.59	< 0.71	< 0.52	< 0.34	< 0.35	< 0.36	< 0.34	< 0.7	< 0.49
bis(2-Chloroisopropyl)ether	ug/l	300	NS	< 0.74	< 0.82	< 0.61	< 0.57	< 0.43	< 0.44	< 0.45	< 0.43	< 0.6	< 0.54
bis(2-Ethylhexyl)phthalate	ug/l	3	6	**3.7**	< 0.73	< 0.92 J	< 0.79	< 0.36	< 0.37	< 0.38	< 0.36	< 0.91	< 0.75
Caprolactam	ug/l	NS	NS	< 0.32	< 0.35	< 0.52	< 0.66	< 0.22	< 0.22	< 0.23	< 0.22	< 0.51	< 0.63
Carbazole	ug/l	NS	NS	< 0.36	< 0.4	< 0.42	< 0.47	< 0.18	< 0.19	< 0.19	< 0.18	< 0.41	< 0.45
Chrysene	ug/l	5	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	ug/l	0.3 [0.5]	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/l	NS	NS	< 0.34	< 0.38	< 0.24	< 0.51	< 0.34	< 0.34	< 0.35	< 0.34	< 0.24	< 0.49
Diethyl phthalate	ug/l	6000	NS	< 0.39	< 0.43	< 0.36	< 0.38	< 0.18	< 0.19	< 0.19	< 0.18	< 0.36	< 0.36
Dimethyl phthalate	ug/l	NS	NS	< 0.33	< 0.36	< 0.35	< 0.38	< 0.25	< 0.25	< 0.26	< 0.25	< 0.35	< 0.36
di-n-butyl phthalate	ug/l	700	NS	< 0.59	< 0.66	< 0.42	< 0.53	< 0.21	< 0.21	< 0.22	< 0.21	< 0.42	< 0.5
di-n-octylphthalate	ug/l	100	NS	< 0.57	< 0.63	< 0.5	< 0.52	< 0.44	< 0.44	< 0.46	< 0.44	< 0.5	< 0.5
Fluoranthene	ug/l	300	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	ug/l	300	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	ug/l	0.02 [10]	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	ug/l	1	NS	< 0.18	< 0.19	< 0.13	< 0.39	< 0.41	< 0.42 J	< 0.15	< 0.14	< 0.13	< 0.38
Hexachlorocyclopentadiene	ug/l	40	50	< 0.41	< 0.45	< 0.11	< 4.8	< 0.75	< 0.76	< 0.28	< 0.27	< 0.11	< 4.5
Hexachloroethane	ug/l	7	NS	< 0.28	< 0.31	< 0.17	< 0.32	< 0.29	< 0.3	< 0.24	< 0.23	< 0.17	< 0.3
Indeno(1,2,3-cd)pyrene	ug/l	0.2 [10]	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophrone	ug/l	40	NS	< 0.59	< 0.65	< 0.51	< 0.73	< 0.28	< 0.28	< 0.29	< 0.28	< 0.51	< 0.69
Naphthalene	ug/l	300	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	ug/l	6	NS	< 0.42	< 0.47	< 0.74	< 0.69	< 0.28	< 0.28	< 0.29	< 0.28	< 0.73	< 0.66
N-Nitroso-di-n-Propylamine	ug/l	10	NS	< 0.47	< 0.52	< 0.4	< 0.41	< 0.49	< 0.49	< 0.51	< 0.49	< 0.4	< 0.39
N-Nitrosodiphenylamine	ug/l	10	NS	< 0.52	< 0.57	< 0.44	< 0.64	< 0.24	< 0.24	< 0.25	< 0.24	< 0.43	< 0.61
Pentachlorophenol	ug/l	0.3 [1]	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	ug/l	2000	NS	< 0.5	< 0.55	< 0.72	< 1.4	< 0.64	< 0.65	< 0.67	< 0.64	< 0.71	< 1.4
Pyrene	ug/l	200	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total TIC, Semi-Volatile	ug/l	NS	NS	0	11 J	0	0	0	82.8 J	0	0	0	0

Location ID		GWQS[1]	EPA	OB-25	OB-25	OB-25	OB-25	OB-25	OB-25	OB-25	OB-25	OB-26	OB-26
Sample ID			MCLs	OB-25(041207)	OB-25(071012)	OB-25(080429)	OB-25(080918)	OB-25(070609)	OB-25(102609)	OB-25(060110)	OB-25 (052011)	OB-26(080509)	OB-26(080916)
Sample Date	Units			4/12/2007	10/12/2007	4/29/2008	9/18/2008	7/6/2009	10/26/2009	6/1/2010	5/20/2011	5/9/2008	9/16/2008
SVOC BY SIM													
Acenaphthene	ug/l	400	NS	< 0.017	< 0.019	< 0.017	< 0.017	< 0.018	< 0.033	< 0.034	< 0.015	< 0.017	< 0.016
Acenaphthylene	ug/l	NS	NS	< 0.0095	< 0.011	< 0.0074	< 0.0074	< 0.0078	< 0.044	< 0.046	< 0.018	< 0.0073	< 0.007
Anthracene	ug/l	2000	NS	< 0.021	< 0.023	< 0.022	< 0.022	< 0.023	< 0.029	< 0.03	< 0.011	< 0.022	< 0.021
Benzo(a)anthracene	ug/l	0.1 [0.2]	NS	< 0.0068	< 0.0076	< 0.035	< 0.035	< 0.037	< 0.027	< 0.028	< 0.017	< 0.035	< 0.034
Benzo(a)pyrene	ug/l	0.1 [0.2]	0.2	< 0.017	< 0.019	< 0.037	< 0.037	< 0.039	< 0.035	< 0.036	< 0.0054	< 0.037	< 0.036
Benzo(b)fluoranthene	ug/l	0.2 [10]	NS	< 0.036	< 0.04	< 0.018	< 0.018	< 0.019	< 0.04	< 0.042	< 0.018	< 0.018	< 0.017
Benzo(g,h,i)perylene	ug/l	NS	NS	< 0.018	< 0.02	< 0.012	< 0.012	< 0.013	< 0.032	< 0.033	< 0.011	< 0.012	< 0.012
Benzo(k)fluoranthene	ug/l	0.5	NS	< 0.016	< 0.017	< 0.02	< 0.02	< 0.021	< 0.032	< 0.033	< 0.014	< 0.02	< 0.019
Chrysene	ug/l	5	NS	< 0.017	< 0.019	< 0.019	< 0.019	< 0.02	< 0.025	< 0.026	< 0.026	< 0.018	< 0.018
Dibenzo(a,h)anthracene	ug/l	0.3 [0.5]	NS	< 0.016	< 0.018	< 0.021	< 0.021	< 0.022	< 0.025	< 0.026	< 0.025	< 0.021	< 0.02
Fluoranthene	ug/l	300	NS	< 0.009	< 0.01	< 0.01	< 0.01	< 0.011	< 0.027	< 0.028	< 0.011	< 0.01	< 0.0096
Fluorene	ug/l	300	NS	< 0.02	< 0.022	< 0.021	< 0.021	< 0.022	< 0.03	< 0.031	< 0.017	< 0.02	< 0.02
Hexachlorobenzene	ug/l	0.02 [10]	1	< 0.02	< 0.022	< 0.01	< 0.01	< 0.011	< 0.011	< 0.012	< 0.0089	< 0.01	< 0.0099
Indeno(1,2,3-cd)pyrene	ug/l	0.2 [10]	NS	< 0.011	< 0.012	< 0.015	< 0.015	< 0.016	< 0.033	< 0.034	< 0.012	< 0.015	< 0.014
Naphthalene	ug/l	300	NS	< 0.026	< 0.029	< 0.015	< 0.015	< 0.015	< 0.021	< 0.022	< 0.018	< 0.014	< 0.014
Pentachlorophenol	ug/l	0.3 [1]	1	< 0.3	< 0.33	< 0.23	< 0.23	< 0.25	< 0.25	< 0.079	< 0.32	< 0.23	< 0.22 J
Phenanthrene	ug/l	NS	NS	< 0.021	< 0.023	< 0.018	< 0.018	< 0.019	< 0.041	< 0.042	< 0.017	< 0.018	< 0.017
Pyrene	ug/l	200	NS	< 0.014	< 0.016	< 0.013	< 0.013	< 0.013	< 0.025	< 0.026	< 0.009	< 0.013	< 0.012
PCBs													
PCB 1016	ug/l	0.5	0.5	< 0.1	< 0.11	< 0.1	< 0.1	< 0.25	< 0.35	< 0.34	< 0.13	< 0.094	< 0.099
PCB 1221	ug/l	0.5	0.5	< 0.52	< 0.53	< 0.51	< 0.51	< 0.4	< 0.48	< 0.47	< 0.29	< 0.47	< 0.49
PCB 1232	ug/l	0.5	0.5	< 0.43	< 0.44	< 0.42	< 0.42	< 0.27	< 0.36	< 0.35	< 0.41	< 0.39	< 0.41
PCB 1242	ug/l	0.5	0.5	< 0.18	< 0.18	< 0.18	< 0.18	< 0.12	< 0.32	< 0.31	< 0.091	< 0.16	< 0.17
PCB 1248	ug/l	0.5	0.5	< 0.17	< 0.17	< 0.16	< 0.16	< 0.33	< 0.33	< 0.32	< 0.15	< 0.15	< 0.16
PCB 1254	ug/l	0.5	0.5	< 0.12	< 0.12	< 0.12	< 0.12	< 0.15	< 0.21	< 0.2	< 0.15	< 0.11	< 0.11
PCB 1260	ug/l	0.5	0.5	< 0.13	< 0.13	< 0.13	< 0.13	< 0.19	< 0.16	< 0.16	< 0.22	< 0.12	< 0.12
Total PCBs	ug/l	0.5	0.5	0	0	0	0	0	0	0	0	0	0
Pesticides/Herbicides													
4,4-DDD	ug/l	0.1	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,4-DDE	ug/l	0.1	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,4-DDT	ug/l	0.1	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aldrin	ug/l	0.04	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
alpha-BHC	ug/l	0.02	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
alpha-Chlordane	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
beta-BHC	ug/l	0.04	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
delta-BHC	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dieldrin	ug/l	0.03	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan I (alpha)	ug/l	40	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan II (beta)	ug/l	40	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan sulfate	ug/l	40	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endrin	ug/l	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endrin Aldehyde	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endrin ketone	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
gamma-Chlordane	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor	ug/l	0.05	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor epoxide	ug/l	0.2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lindane	ug/l	0.03	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	ug/l	40	40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toxaphene	ug/l	2	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 15: Summary of Historical Ground Water Analytical Results, 2004-2011
Ringwood Mines/Landfill Site, Ringwood, New Jersey

Location ID		GWQS[1]	EPA	OB-25	OB-25	OB-25	OB-25	OB-25	OB-25	OB-25	OB-25	OB-26	OB-26
Sample ID			MCLs	OB-25(041207)	OB-25(071012)	OB-25(080429)	OB-25(080918)	OB-25(070609)	OB-25(102609)	OB-25(060110)	OB-25 (052011)	OB-26(080509)	OB-26(080916)
Sample Date	Units			4/12/2007	10/12/2007	4/29/2008	9/18/2008	7/6/2009	10/26/2009	6/1/2010	5/20/2011	5/9/2008	9/16/2008
Metals - Total													
Aluminum	ug/l	200	NS	**21200**	**1440**	**8080**	**43100**	**17700**	**3440**	**5520**	**1770**	**914**	**504**
Antimony	ug/l	6	6	< 5	< 5.7	< 1.8	3.1 B	< 4	< 2.9	< 2.2	< 1.3	< 1.8	< 1.8
Arsenic	ug/l	3 [8]	10	**7.1**	1.1 B	2.1 B	**19.8**	**8.4 J**	< 2.4	1.7 B	< 0.92	< 1.7 B	2.7 B
Barium	ug/l	6000	2000	1260	21.2 B	60.6 B	232	108 B	35.3 B	113 J	29.9 B	17 B	32.1 B
Beryllium	ug/l	1	4	**3.7**	< 0.15	0.4 B	**1.4**	**3.3 J**	< 0.4	< 1	< 0.24	< 0.15	< 0.15
Cadmium	ug/l	4	5	**29.8**	< 0.24	< 0.28	2.1 BJ	< 0.4	< 0.4	< 3	< 0.17	< 0.28	< 0.28
Calcium	ug/l	NS	NS	149000	23300	50400	48700	45200	36600	50700	36800	6190	12400
Chromium	ug/l	70	100	8.2 B	< 0.53	9.4 B	51.1	24.1	4.6 B	7.5 B	1.6 B	< 1.3 B	< 0.53
Cobalt	ug/l	NS	NS	53.3	1.6 B	5.2 B	34.6 B	12.5 B	3 B	10.9 B	0.7 B	< 0.51	< 0.51
Copper	ug/l	1,300	1300	1070	26.9	43.4	124	57.4	95.9	95	11.5	7.1 B	3 B
Iron	ug/l	300	NS	**2280**	**942**	**11000**	**69500**	**28300**	**5180**	**7880**	**2410**	**894**	**511**
Lead	ug/l	5	15	**594**	3.1	**13.8**	**45.7**	**19.9**	4.3	**53.6**	4.2	1.7 B	< 1.4
Magnesium	ug/l	NS	NS	18900	4430 B	11300	20900	13300	7640	12100	7700	2070 B	3750 B
Manganese	ug/l	50	NS	**8270**	23.6	**321**	**2110**	**735**	**137**	**1080**	**65.5**	**124**	20.7
Mercury	ug/l	2	2	**2.1**	< 0.15	< 0.15	0.15 B	0.071 B	< 0.082	< 0.082	< 0.088	< 0.15	< 0.049
Nickel	ug/l	100	NS	48.2	3.8 B	12.8 B	72.2	29	6.5 B	14.3	3.9 B	1.8 B	< 1.2
Potassium	ug/l	NS	NS	14100	6370 BJ	8200 B	11000	8490 B	6790 B	6920 B	5730 B	856 B	1490 B
Selenium	ug/l	40	50	< 6.2	< 0.73	< 1.6	4.5 B	< 3.7	< 3.7	3.3 B	< 1.5	< 1.6	< 1.6
Silver	ug/l	40	NS	< 1	< 0.83	< 1	< 1	4.9 B	< 1	< 0.53	< 0.72	< 1	< 1
Sodium	ug/l	50,000	NS	29800	25100 J	43300	37400 J	42800	37500	45600 J	41100	2100 B	3820 B
Thallium	ug/l	2 [10]	2	< 0.09	< 1.4	< 1.3	< 1.3	< 1.5	< 1.5	< 1.8	< 0.17	< 1.3	< 1.3
Vanadium	ug/l	NS	NS	25.1 B	1.7 B	13 B	77.8	30.2 B	6.4 B	14 B	2.6 B	1.8 B	1.4 B
Zinc	ug/l	2000	NS	862	< 2.7	61.4	262	112	24.8	123	19.6 B	< 12 B	13.3 B
Metals - Dissolved													
Aluminum	ug/l	200	NS	25.3 B	**207**	< 24	32.3 B	< 26	104 B	104 B	34.1 B	32.3 B	< 24
Antimony	ug/l	6	6	< 5	< 5.7	< 1.8	< 1.8	< 4	< 2.9	< 2.2	1.5 B	< 1.8	< 1.8
Arsenic	ug/l	3 [8]	10	< 1.5	< 1.1	< 1.7	< 1.7	< 2.4	< 2.4	< 1.4	< 0.92	< 1.7 B	< 1.7
Barium	ug/l	6000	2000	9.9 B	17.3 B	25.6 B	17.9 B	20.1 B	17.7 B	24.4 J	22.5 B	12.3 B	30.5 B
Beryllium	ug/l	1	4	< 0.4	< 0.15	< 0.15	< 0.15	< 1	< 0.4	< 0.24	< 0.24	< 0.15	< 0.15
Cadmium	ug/l	4	5	< 1.3	< 0.24	< 0.28	0.4 B	< 0.4	< 0.4	< 0.35	< 0.17	< 0.28	< 0.28
Calcium	ug/l	NS	NS	32300	25100	53700	45800	47400	38200	49400	40400	5970	12600
Chromium	ug/l	70	100	< 0.8	< 0.53	1.2 B	< 0.53	< 10	< 0.9	< 0.59	< 0.9	< 0.53	0.8 B
Cobalt	ug/l	NS	NS	< 1.8	1.3 B	< 0.51	< 0.51	< 50	< 1.6	< 0.65	< 0.3	< 0.51	< 0.51
Copper	ug/l	1,300	1300	< 2.7	11.6 B	5.1 B	5 B	4.5 BJ	6.1 B	5 B	5.3 B	< 2.5	2.3 B
Iron	ug/l	300	NS	43.4 B	< 6.3	51.3 B	8.1 B	< 100	55 B	121	45.4 B	< 36.9 B	18.3 B
Lead	ug/l	5	15	< 2.8	1.5 B	< 1.4	< 1.4	< 1.7	2 B	< 1.9	< 0.94	1.5 B	< 1.4
Magnesium	ug/l	NS	NS	8200	4550 B	9940	9760	10000	7090	9870	7960	1860 B	3650 B
Manganese	ug/l	50	NS	**247**	9.1 B	3.8 B	**79.4**	28.5	2.8 B	4.9 J	2.6 B	**97.2**	12.4 B
Mercury	ug/l	2	2	< 0.037	< 0.15	< 0.15	< 0.049	< 0.049	< 0.082	< 0.082	< 0.088	< 0.15	< 0.049
Nickel	ug/l	100	NS	3.5 B	2.3 B	2.5 B	2 B	< 10	1.7 B	1.3 B	1 B	< 1.2	< 1.2
Potassium	ug/l	NS	NS	2980 B	7050 BJ	8080 B	4130 B	6220 BJ	6530 B	6820 B	5980 B	723 B	1410 B
Selenium	ug/l	40	50	< 6.2	< 0.73	< 1.6	2.7 BJ	< 3.7	< 3.7	2.7 B	< 1.5	2.2 B	2.4 B
Silver	ug/l	40	NS	< 1	< 0.83	< 1	< 1	< 1	< 1	< 0.53	< 0.72	< 1	< 1
Sodium	ug/l	50,000	NS	32300 J	28000 J	46500	40700 J	48200	40000	**51000 J**	45400	2090 B	3890 B
Thallium	ug/l	2 [10]	2	< 0.09	< 1.4	< 1.3	< 1.3	< 1.5	< 1.5	< 1.8	< 0.17	< 1.3	< 1.3
Vanadium	ug/l	NS	NS	< 1.8	0.6 B	< 0.43	< 0.43	< 0.9	< 0.9	< 0.56	< 0.43	< 0.43	0.5 B
Zinc	ug/l	2000	NS	7.8 B	< 2.7	10.1 B	< 4	8.3 BJ	39.1	< 20	19.6 B	< 8.8 B	13.2 B
Other													
Alkalinity, Bicarbonate	ug/l	NS	NS	117000	96400	134000	139000	NA	NA	NA	NA	12800	22700
Alkalinity, Carbonate	ug/l	NS	NS	< 5000	< 5000	< 5000	< 5000	NA	NA	NA	NA	< 5000	< 5000
Alkalinity, total (as CaCO3)	ug/l	NS	NS	117000	96500	136000	139000	151000	108000	129000	124000	12800	22700
BOD, 5 Day	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromide	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	ug/l	250000	NS	50700	18000	94200	58800	74100	61900	101000	68800	< 2000	4400
COD	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide	ug/l	100	200	< 10	< 10	< 10	< 10 J	NA	NA	NA	NA	< 10	< 10
Nitrate	ug/l	10000	10000	880	780	250	750	NA	NA	NA	NA	270	3300
Nitrogen, Nitrate + Nitrite	ug/l	10000	NS	880	780	250	750	NA	NA	NA	NA	270	3300
Nitrogen, Nitrite	ug/l	1000	1000	< 10	< 10	< 10	< 10	NA	NA	NA	NA	< 10	< 10
Phosphorus, Total	ug/l	NS	NS	21400	69	66	89	NA	NA	NA	NA	< 50	< 50
Sulfate	ug/l	250000	NS	45400	30000	25200	28700	23500	24700	19000	13000	11000	15900
Total Dissolved Solids	ug/l	500000	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total organic carbon	ug/l	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See footnotes on last page

R2-0005419

<	Not detected.
NA	Not analyzed.
NS	No standard.
B	Organic: analyte found in associated method blank.
B	Inorganic: estimated result is between the detection limit and quantification limit.
D	Diluted result.
J	Estimated result.
LT	Result is less than Requested MDC, greater than sample specific MDC.
R	Rejected result.
[1]	Ground Water Quality Standards (GWQS), Class IIA, as specified in New Jersey Administrative Code (N.J.A.C). 7:9-6, current 2005 and interim criteria, select 2004 criteria are presented in [ ].
Bold	Value is above the Ground Water Quality Standard
Shade	Value is above the USEPA Maximum Contaminant Level (MCL).

Table 16: Cannon Mine Downhole Video 2010, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

DVD#1 22-Apr-10 Looking up Van Dunk Lane toward the Cannon Mine Pit

FEET	DESCRIPTION
15	You can see the orientation to the wall in the back of the video. Looking up the road towards Cannon Pit
	Video now stays at this depth for approx 5-7 min and moves slightly. This occurs every 20 feet as the drillers add the next 20' section of steel pipe.
34	Wood cribbing
35	Camera is hitting an obstruction. Suspended matter in the water suggests there is no flow in the shaft. Everything either floats in suspension are sinks slowly.
44	Good look at cribbing or shelf. At 45' it appears to possibly be a shaft, but if viewed in a dark room, the wall in the back is evident.
57	20-foot rod added
58-83	Not much to see. Rod added at 78'
84-85	Wall can be seen with piping
94	Wall
100	360 degree view
	Rod added
112	Walls and piping seen during 360 degree spin
114-115	Possible shaft
116	Possible shaft seen much clearer. No flow seen.
	Rod added
117	360 view of steel beams and piping
130	Beams and piping. Possibly wood beam.
133	Wood beams creating a shelf/space. 360 degree view
136	Wooden ladder can be seen. Possible shaft area?
	Cables can now be seen down to 142'
142	Good look at wooden ladder
150	Good 360 view
163	View demonstrates camera is looking up Cannon Mine Road
	Camera paused. Zero flow in the mine. Very still
174	Ladder and possible man holes into side wall
184	Object seems to be blocking the ladder. Ladder looks like it might be on a landing.
186	Landing is present. Debris. No signs of sludge.
188	Camera hits obstruction / landing
	Camera support is now bent on angle.
	*** You can tell which way is down by the way the solids in the camera view travel down.
	Significant metal and debris at 188-190'.

DVD#2 23-Apr-10

190	Tape starts with camera stuck on the same obstruction/landing.
	Camera support is now bent to an angle. When still, by watching the falling debris, you can orient which way the camera is positioned.
	Stuck at 190'. Various views can be seen including what appears to be a cable control box near the base of the wood ladder.
195	A lot of cables in all directions
	Camera view is again shifting

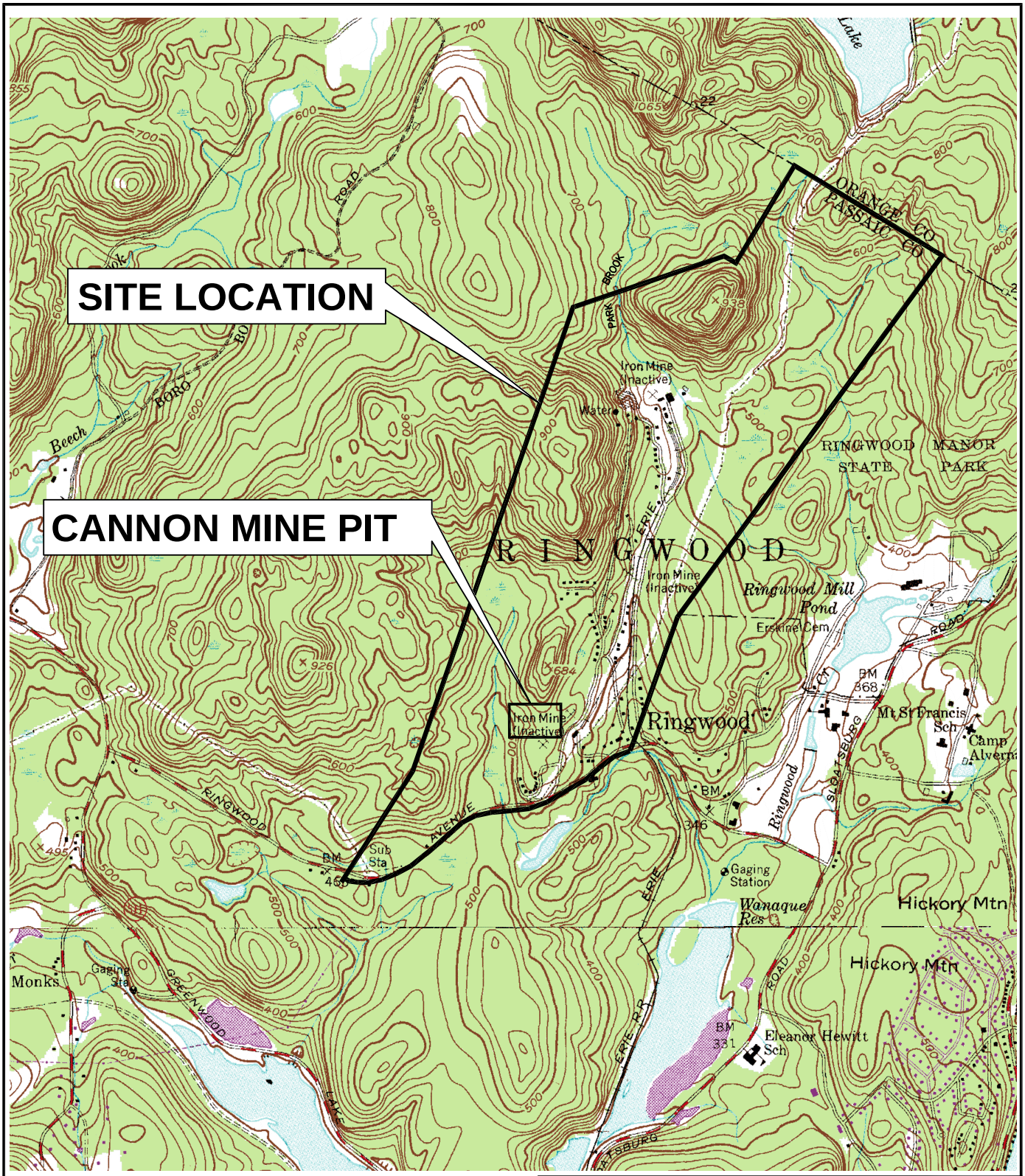
220-226'	Large support beams (concrete?) Delay at 226'. There is zero flow. Very still
235	Camera on obstruction
255	Shelf
262	360 degree view. Pipes and cables and wood panels
289	Seems very dark, but if you look closely you can see the back wall and piping. Demonstrates how clear the water is in the mine until we start moving the camera
293	and hitting things.
294	Dark and clear
300	Dark and clear. Rows of cables can be seen.
318	Camera goes back up a little to investigate a potential sidewall opening. Nothing appears to be there.

DVD#3 23-Apr-10

	360 degree view. Support beams, cable and piping everywhere.
328	Obstruction
339	360 degree view. Very busy with things in all directions.
351	Camera is against object. It has become difficult to rotate camera with depth.
363	View clears briefly. Lots of cables can be seen Camera is striking objects in all directions. Movement is limited.
368	Same
373	Debris falls straight down suggesting zero flow in mine.
374 - 376	Many cables in view
378	Camera striking objects You can see a mass of cables (5-7) all together and then they spread out directly out of view. They may be entering a concrete block counter weight for the hoist. 360 degree view No flow seen.
379	Cannot lower camera further

ARCADIS

Figures



0 2000' 4000'

GRAPHIC SCALE

REFERENCE: WANAQUE, NJ, GREENWOOD LAKE, NY–NJ, USGS QUADRANGLE, 7.5 MINUTE SERIES, 1954.

CANNON MINE PIT AREA INVESTIGATION
RINGWOOD MINE/LANDFILL SITE
REMEDIATION PROJECT,
RINGWOOD, NEW JERSEY

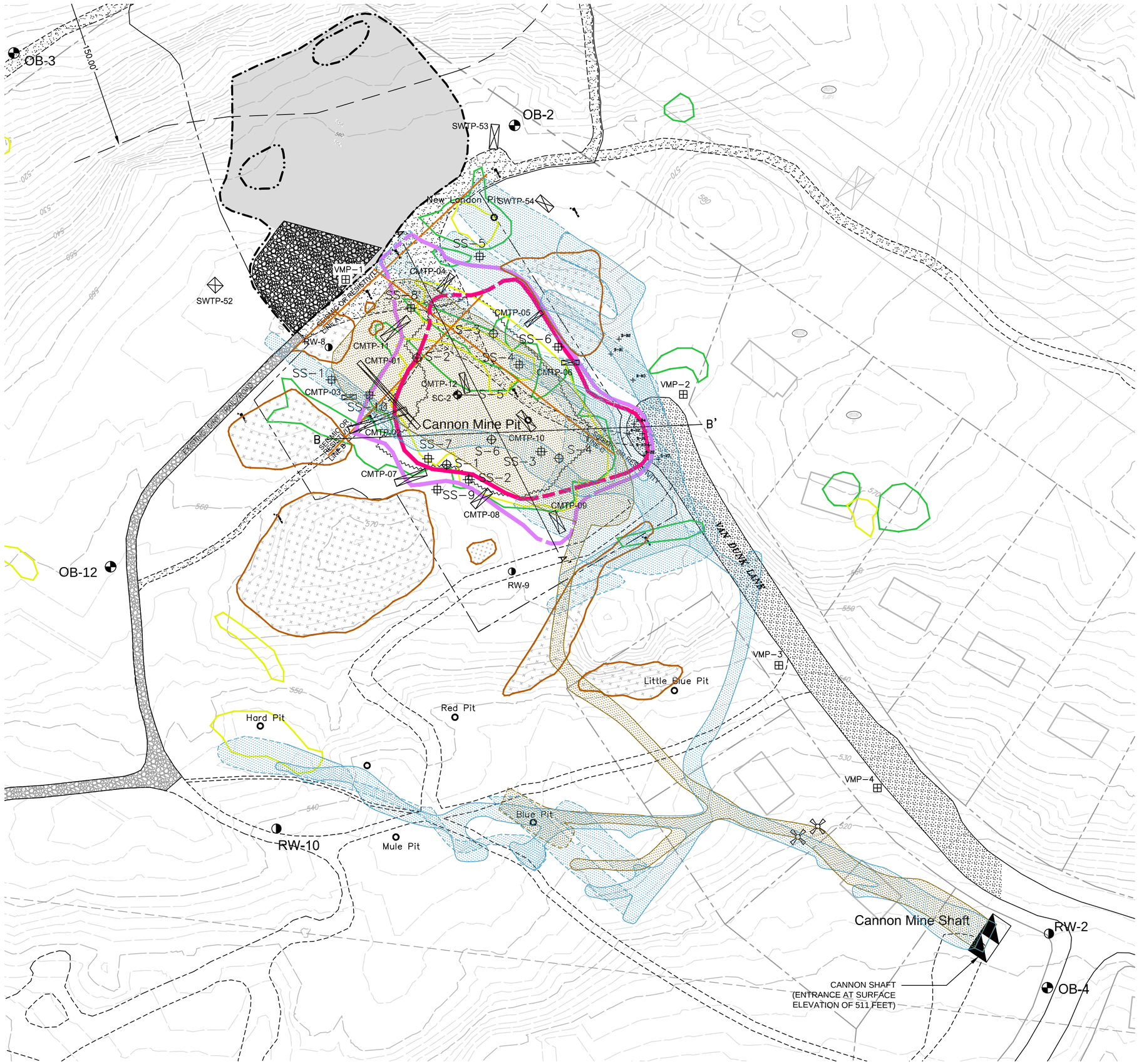
CANNON MINE PIT AREA SITE LOCATION MAP

ARCADIS

FIGURE 1

R2-0005424

CITY:MAHWAH DIV/GROUP:ENVIROMENTAL DB:J.GONZALEZ LD:J.SEIER PIC:M.MOHIUDDIN PM:E.ZIMMERMAN TM:T.CONNORS LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\Fairlawn\ACTIVE\100604\0035\00221\2012-04\FIG 1- Site Location_CMP.dwg LAYOUT: 1 SAVED: 4/9/2012 10:31 AM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ARCADIS.CTB PLOTTED: 4/9/2012 10:32 AM BY: GONZALEZ, JAMES
XREFS: IMAGES: PROJECTNAME: ----



LEGEND:

VMP-1	VIBRATION MONITORING LOCATION
530	EXISTING CONTOUR
	PROPERTY BOUNDARY
	ESTIMATED EXTENT OF HISTORIC FILL
	STABILIZED CONSTRUCTION LOAD-OUT AREA
	CONCENTRATED PAINT SLUDGE REMOVAL AREA
	PAVED ROAD
	EXISTING DIRT TRAIL/ROAD
	VISIBLE PITS IN 1940 AERIAL PHOTO
	VISIBLE PITS IN 1961 AERIAL PHOTO
	LOCATION OF SMALL SINK HOLES
	ROCK OUTCROP
OB-1	EXISTING OVERBURDEN MONITORING WELL
RW-8	EXISTING BEDROCK MONITORING
S-1	VERTICAL SONIC BORING LOCATION
SS-1	SURFACE SOIL SAMPLE LOCATION
CMTP-03	TEST PIT LOCATION
	5' INTERPOLATED DEPTH TO BEDROCK OR BLAST RUBBLE (DASHED WHERE INFERRED)
	14' INTERPOLATED DEPTH TO BEDROCK OR BLAST RUBBLE (DASHED WHERE INFERRED)
A A'	CROSS-SECTION TRANSECT LINE
	LEVEL 1, 307 FT MSL (205 TO 273 FT BGS)
	LEVEL 2, 207 FT MSL (305 – 373 FT BGS)
	LEVEL 2 STOPE

NOTES:

1. SUBSURFACE MINE STRUCTURE LOCATIONS ARE APPROXIMATE.
2. ONLY THE TWO MOST SHALLOW MINE LEVELS (LEVELS 1 AND 2) HAVE BEEN SHOWN SINCE THEY INTER-CONNECT WITH THE CANNON MINE PIT AND OTHER PITS IN THIS AREA, AND ARE THE MOST LIKELY TO BE OF CONCERN.

0 60
SCALE IN FEET

CANNON MINE PIT AREA INVESTIGATION
RINGWOOD, NEW JERSEY
RINGWOOD MINE/LANDFILL SITE REMEDIATION PROJECT

INVESTIGATION LOCATIONS

ARCADIS

FIGURE
2

R2-0005425

LEGEND:

VMP-1	VIBRATION MONITORING LOCATION
530	EXISTING CONTOUR
	PROPERTY BOUNDARY
	ESTIMATED EXTENT OF HISTORIC FILL
	STABILIZED CONSTRUCTION LOAD-OUT AREA
	CONCENTRATED PAINT SLUDGE REMOVAL AREA
	PAVED ROAD
	EXISTING DIRT TRAIL/ROAD
	VISIBLE PITS IN 1940 AERIAL PHOTO
	VISIBLE PITS IN 1961 AERIAL PHOTO
	LOCATION OF SMALL SINK HOLES
	ROCK OUTCROP
OB-1	EXISTING OVERBURDEN MONITORING WELL
RW-8	EXISTING BEDROCK MONITORING
S-1	VERTICAL SONIC BORING LOCATION
SS-1	SURFACE SOIL SAMPLE LOCATION
CMTP-03	TEST PIT LOCATION
	5' INTERPOLATED DEPTH TO BEDROCK OR BLAST RUBBLE (DASHED WHERE INFERRED)
	14' INTERPOLATED DEPTH TO BEDROCK OR BLAST RUBBLE (DASHED WHERE INFERRED)
A A'	CROSS-SECTION TRANSECT LINE
	LEVEL 1, 307 FT MSL (205 TO 273 FT BGS)
	LEVEL 2, 207 FT MSL (305 – 373 FT BGS)
	LEVEL 2 STOPE

NOTES:

1. SUBSURFACE MINE STRUCTURE LOCATIONS ARE APPROXIMATE.
2. ONLY THE TWO MOST SHALLOW MINE LEVELS (LEVELS 1 AND 2) HAVE BEEN SHOWN SINCE THEY INTER-CONNECT WITH THE CANNON MINE PIT AND OTHER PITS IN THIS AREA, AND ARE THE MOST LIKELY TO BE OF CONCERN.

0 60
SCALE IN FEET

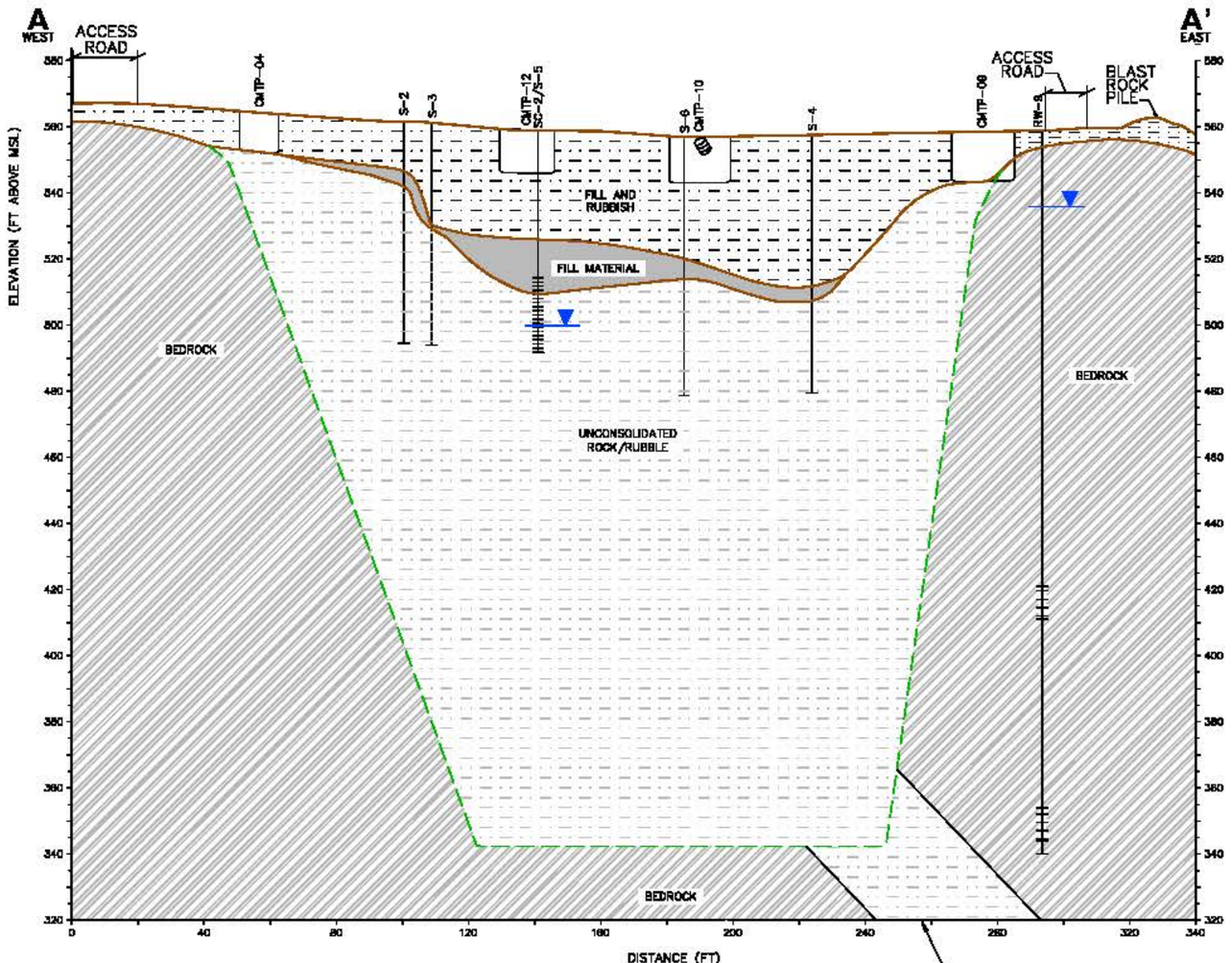
CANNON MINE PIT AREA INVESTIGATION
RINGWOOD, NEW JERSEY
RINGWOOD MINE/LANDFILL SITE REMEDIATION PROJECT

GEOPHYSICAL INVESTIGATION LOCATIONS

ARCADIS

FIGURE
2A

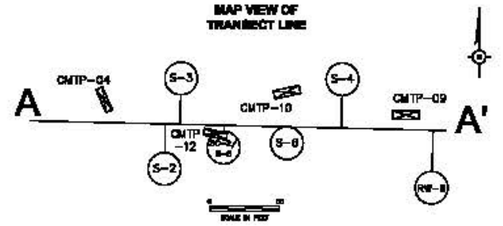
R2-0005426



CROSS-SECTION A-A'

HORIZONTAL SCALE

VERTICAL SCALE



WELL IDs AND DEPTHS	
ID	DEPTH (IN FT BGS)
S-1	37'-0"
S-2	27'-0"
S-3	67'-0"
S-4	77'-0"
S-5	67'-0"
S-6	77'-0"
SC-2	(47' - 67')
RW-8	214'
RW-9	215'
RW-10	195'

LEGEND:

FT BGS – FEET BELOW GROUND SURFACE

MSL – MEAN SEA LEVEL

FT AMSL – FEET ABOVE MEAN SEA LEVEL

PROJECTED

EXISTING GROUND SURFACE

494.7 SURFACE OF BEDROCK (DASHED WHERE INFERRED)

GROUNDWATER LEVELS FROM JULY 25, 2008

BEDROCK

FILL AND RUBBISH

FILL MATERIAL: SAND, GRAVEL AND FINES

MINE BLAST ROCK

DRUM REMNANT

DRUM REMNANT

NOTE:

1. RUBBISH INCLUDES CARPET, FOAM, RUBBER, GLASS, WOOD, METAL, FILM, CARTONS, CAR PARTS

SC-2 MONITORING WELL

WELL SCREEN

BOTTOM OF BORING

CANNON MINE PIT AREA INVESTIGATION
RINGWOOD MINE/LANDFILL SITE
REMEDIATION PROJECT,
RINGWOOD, NEW JERSEY

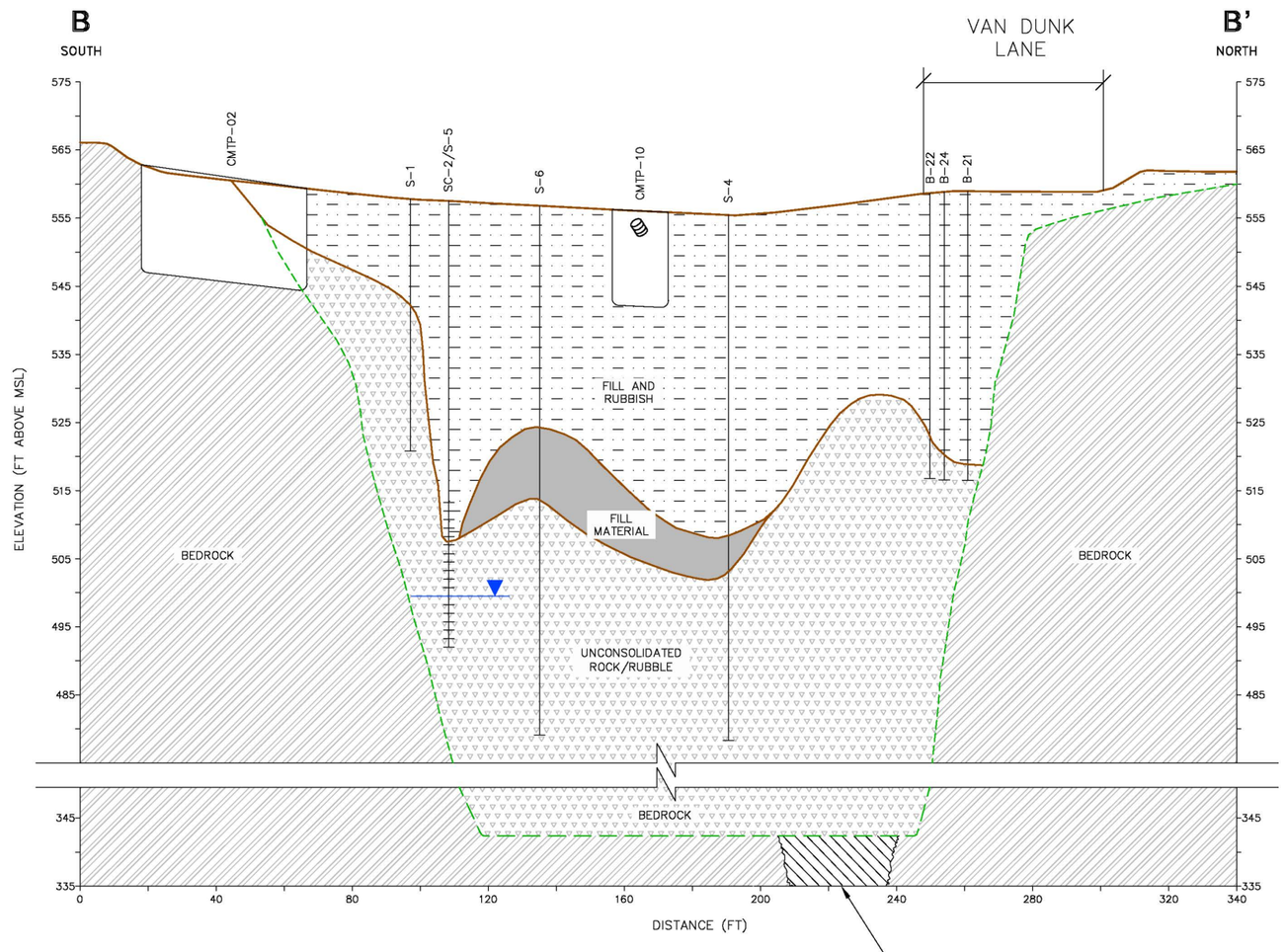
CROSS SECTION A-A'

ARCADIS

FIGURE 3

CITY:(MAHWAH, DIV/GROUP:ENVIRONMENTAL DB:JGONZALEZ LD:/IGER PC:(MAHWAH,PKE:BMEHAN TM:DG6 LYR:ON=*;OFF=*REF* G:\ENVDOCS\Mahwah\ACTIVE\B0000600\00001\A-A'\figures\fig3 MASTER CROSS SECTION A-A'_R1.dwg LAYOUT:3 SAVED: 10/19/2012 2:58 PM BY: GONZALEZ, JAMES
XREFS: IMAGES: PROJECTNAME:

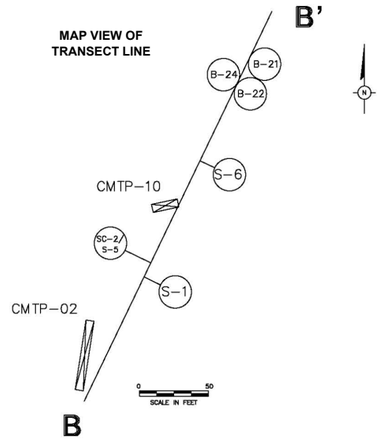
R2-0005427



CROSS SECTION B-B'

0 20' 40'
HORIZONTAL SCALE

0 10' 20'
VERTICAL SCALE



WELL IDs AND DEPTHS	
ID	DEPTH (FT BGS)
S-1	37'-0"
S-2	27'-0"
S-3	67'-0"
S-4	77'-0"
S-5	67'-0"
S-6	77'-0"
SC-2	(47' - 67')
RW-8	214
RW-9	216
RW-10	195

LEGEND:

FT BGS – FEET BELOW GROUND SURFACE

MSL – MEAN SEA LEVEL

FT AMSL – FEET ABOVE MEAN SEA LEVEL

PROJECTED

EXISTING GROUND SURFACE

494.7 SURFACE OF BEDROCK (DASHED WHERE INFERRED)

BEDROCK

FILL AND RUBBISH

FILL MATERIAL: SAND, GRAVEL AND FINES

MINE BLAST ROCK

DRUM REMNANT

GROUNDWATER LEVELS FROM JULY 25, 2008

NOTE:

1. RUBBISH INCLUDES CARPET, FOAM, RUBBER, GLASS, WOOD, METAL, FILM, CARTONS, CAR PARTS

WELL SCREEN

BOTTOM OF BORING

CANNON MINE PIT AREA INVESTIGATION
RINGWOOD MINE/LANDFILL SITE
REMEDIATION PROJECT,
RINGWOOD, NEW JERSEY

CROSS-SECTIONAL VIEW OF THE CMP, CROSS SECTION B-B'

ARCADIS

FIGURE 4

CITY:MAHWAH DIV/GROUP:ENVIRONMENTAL DB:J.GONZALEZ LD:J.SEIER PIC:M.MOHIUDDIN PM:E.ZIMMERMAN TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\Fallsmw\ACTIVE\30000\40000\40000210312-04\FIG 4 XSect B-B'_R1.dwg LAYOUT: 4 SAVED: 12/20/2012 9:39 AM ACADVER: 18.1S (LMS TECH) PAGESETUP:
XREFS: IMAGES: PROJECTNAME: ----

CMI-S5

Date	12/7/2007	12/7/2007	12/7/2007	12/7/2007	12/10/2007
Start Depth (fbgs)	5	14	26.5	35	45.5
End Depth (fbgs)	5.5	14.5	27	35.5	46
VOCs					
1,2-Dichlorobenzene	ND	0.0016 J	ND	ND	ND
1,4-Dichlorobenzene	0.0227	0.0032 J	ND	ND	ND
2-Butanone (MEK)	0.0103 J	ND	ND	ND	ND
Acetone	0.0345	0.0285	ND	0.0367	0.0105
Benzene	ND	0.00093	ND	ND	ND
Carbon disulfide	0.0014 J	ND	ND	ND	ND
Chlorobenzene	0.0260	0.0067	ND	ND	ND
Ethylbenzene	0.0020	0.0024	ND	ND	ND
Isopropylbenzene	0.0030 J	0.0029 J	ND	ND	ND
o-Xylene	0.0012	0.0025	ND	ND	ND
Toluene	ND	0.0028	ND	ND	ND
Xylene, -m,p	0.0030	0.0087	ND	ND	ND
Xylenes	0.0043	0.0112	ND	ND	ND
SVOCs					
1,1'-Biphenyl	0.0283 J	ND	ND	ND	ND
2-Methylnaphthalene	0.134	ND	ND	ND	ND
Benzo(a)anthracene	ND	ND	0.111 J	ND	ND
bis(2-Ethylhexyl)phthalate	0.216	0.0490 J	0.693	ND	ND
Chrysene	ND	ND	0.139 J	ND	ND
Naphthalene	0.0903	0.135	ND	ND	ND
Phenanthrene	0.0370 J	ND	0.106 J	ND	ND
Pyrene	ND	ND	0.112 J	ND	ND
PCBs					
PCB 1242	0.0931	ND	ND	ND	ND
Total PCBs	0.0931	ND	ND	ND	ND
Metals - Total					
Aluminum	8010	15600	14600	21000	12100 J
Antimony	1.5 BJ	ND	6.2 J	ND	6.9 J
Arsenic	2.9	6.7	5.8	6.9	12.3
Barium	31.7	42.4	225	70.2	374
Beryllium	0.28 B	0.50 B	0.44 B	0.77	0.41 B
Cadmium	0.11 B	ND	10.1	28.3	6.9
Calcium	2300	1080	5790	2210	12400 J
Chromium	27.7	23.8	72.2	27.0	32.8
Cobalt	6.1 BJ	9.5 J	24.2 J	8.6 J	8.9
Copper	39.9	32.1	93.5	24.3	246
Iron	26300 J	24600 J	60200 J	48200 J	72900
Lead	39.4	16.9	**474**	39.3	**622**
Magnesium	4470	4040	6140	3930	3450
Manganese	182	541	643	468	605 J
Mercury	ND	0.036	0.35	ND	0.024 B
Nickel	23.9	18.0	33.3	21.4	34.3
Potassium	784 B	1090 B	1400	2100	1890
Selenium	ND	ND	2.2 B	ND	2.7 J
Silver	0.44 B	ND	ND	ND	ND
Sodium	174 B	217 B	659 B	296 B	2060
Thallium	ND	ND	ND	ND	3.4 B
Vanadium	28.5 J	40.8 J	49.7 J	44.5 J	**81.3**
Zinc	79.6	109	17100	132	1090 J

CMI-S2

Date	12/12/2007	12/12/2007	12/12/2007
Start Depth (fbgs)	2.5	14.5	17.5
End Depth (fbgs)	3	15	18
VOCs			
1,3-Dichlorobenzene	0.0014 J	ND	ND
Acetone	0.0184	ND	ND
Chlorobenzene	ND	0.0047 J	ND
Chloroform	ND	ND	0.00064 J
cis-1,2-Dichloroethene	ND	ND	0.00061 J
Isopropylbenzene	ND	0.0024 J	ND
Tetrachloroethene	ND	0.0018 J	ND
SVOCs			
1,1'-Biphenyl	ND	0.236 J	ND
Anthracene	ND	0.407 J	ND
Benzo(a)anthracene	ND	**1.16**	ND
Benzo(a)pyrene	ND	**0.631 J**	ND
Benzo(b)fluoranthene	ND	**1.20**	ND
Benzo(k)fluoranthene	ND	0.162 J	ND
bis(2-Ethylhexyl)phthalate	0.841	**177 J**	0.0418 J
Chrysene	ND	3.54	ND
Dibenzofuran	ND	0.415 J	ND
di-n-butyl phthalate	ND	16.0	ND
Fluoranthene	ND	1.51	ND
Fluorene	ND	0.191 J	ND
Naphthalene	ND	0.156 J	ND
Phenanthrene	ND	3.09	ND
Pyrene	ND	2.63	ND
PCBs			
PCB 1248	0.129	**0.490 J**	ND
PCB 1254	ND	**0.654**	ND
Total PCBs	0.129	**1.144**	ND
Metals - Total			
Aluminum	16900	3190	12800
Antimony	1.1 BJ	13.1 J	ND
Arsenic	2.2	5.6	16.2
Barium	53.1	205	60.3 BJ
Beryllium	0.51 B	0.10 B	0.41 B
Cadmium	2.2	15.9	7.8
Calcium	1320	10900	15100
Chromium	23.4	31.0	18.5
Cobalt	7.9	6.5 B	10.1 B
Copper	30.0	74.7	136 J
Iron	18500	68100	62400
Lead	14.0	**951**	90.3 J
Magnesium	3030 J	1200 J	5670 J
Manganese	137	783	373
Mercury	0.064	5.9	0.042
Nickel	17.6	22.1	30.3
Potassium	910 BJ	520 BJ	1100 BJ
Sodium	ND	1710 B	ND
Thallium	ND	ND	1.2 B
Vanadium	44.4	12.3	**90.3**
Zinc	127	1670	1530 J

CMI-S3

Date	12/11/2007	12/11/2007	12/11/2007	12/11/2007	12/11/2007
Start Depth (fbgs)	6	16	21.5	31.5	45.5
End Depth (fbgs)	6.5	16.5	22	32	46
VOCs					
1,2-Dichlorobenzene	ND	0.0026 J	0.00091 J	ND	ND
1,4-Dichlorobenzene	0.0033 J	ND	0.0087	ND	ND
2-Butanone (MEK)	0.0066 J	0.0075 J	0.0093	ND	ND
Acetone	0.0332	0.0371	0.0369	ND	ND
Benzene	ND	0.00075 J	0.0015	ND	ND
Carbon disulfide	ND	ND	0.0023 J	ND	ND
Chlorobenzene	0.0176	0.0116	0.0473	ND	ND
Ethylbenzene	0.00048 J	0.0013	0.0012	ND	ND
Isopropylbenzene	0.0031 J	0.0016 J	0.0037 J	ND	ND
Methylene chloride	ND	ND	ND	ND	0.0012 J
o-Xylene	ND	0.0019	0.00044 J	ND	ND
Xylene, -m,p	0.0055	0.0069	0.0039	ND	ND
Xylenes	0.0055	0.0088	0.0044	ND	ND
SVOCs					
2-Methylnaphthalene	ND	ND	0.0599 J	ND	ND
bis(2-Ethylhexyl)phthalate	0.0566 J	ND	0.151	ND	0.0724 J
Naphthalene	0.0116 J	ND	0.112	ND	ND
Metals - Total					
Aluminum	11300	13100	12900	6410	21000
Antimony	0.75 BJ	ND	ND	**39.7 J**	2.0 BJ
Arsenic	1.7 B	2.5	2.7	**19.6**	ND
Barium	40.5 J	59.1 J	40.6 J	365 J	152 J
Beryllium	0.54 R	0.56 R	0.54 R	0.45 R	0.33 R
Cadmium	0.71	0.73	1.2	2.0	1.7
Calcium	2090	1870	1600	14800	14300
Chromium	18.7	19.2	19.4	18.8	81.2
Cobalt	8.6	7.8	8.7	6.1	28.3
Copper	39.9 J	30.5 J	27.5 J	111 J	16.8 J
Iron	21200 J	22100 J	23700 J	37800 J	40300 J
Lead	1.6 B	8.0	10.6	**1880**	27.9
Magnesium	3670 J	3650 J	4080 J	4180 J	24100 J
Manganese	302 J	327 J	364 J	362 J	821 J
Mercury	ND	0.023 B	0.044	ND	0.028 B
Nickel	14.1	14.5	15.9	42.0	71.7
Potassium	1320	1200	1210	1100 B	8000
Selenium	ND	2.1 BJ	1.8 BJ	3.6 J	3.6 J
Silver	ND	ND	ND	1.4	ND
Sodium	534 B	568 B	632 B	1450	2020
Vanadium	38.4	40.1	39.0	57.5	**98.3**
Zinc	27.3	48.5	281	624	360

CMI-S4

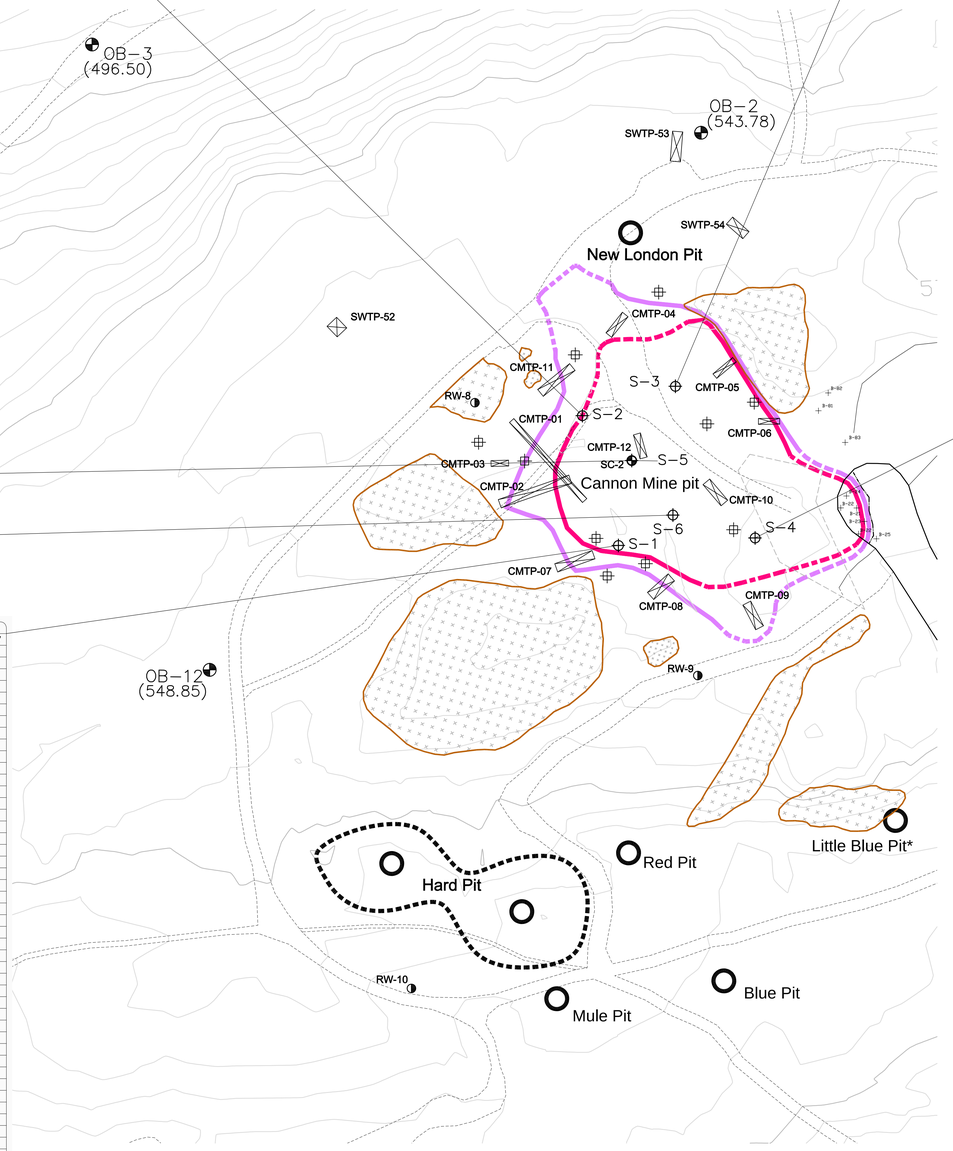
Date	12/6/2007	12/6/2007	12/6/2007	12/6/2007	12/6/2007	12/6/2007
Start Depth (fbgs)	5	14	20	35	43.5	51
End Depth (fbgs)	5.5	14.5	20.5	35.5	44	51.5
VOCs						
1,2-Dichlorobenzene	ND	0.0228	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	0.0068 J	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	0.234	0.0033 J	0.0057 J	ND	ND
2-Butanone (MEK)	0.0130	0.0120 J	0.0108	0.271 J	ND	ND
Acetone	0.0696	0.128	0.0551	0.203 J	0.0304	ND
Benzene	0.00097	0.192 J	0.0064	0.169 JD	0.0017	ND
Carbon disulfide	ND	ND	ND	0.0011 J	ND	ND
Chlorobenzene	ND	62.9 D	0.0229	ND	ND	ND
Cyclohexane	ND	0.0067 J	0.0012 J	0.220 J	0.0470	ND
Ethylbenzene	ND	333 D	0.0036	13.1 JD	0.0055	ND
Isopropylbenzene	ND	0.327	0.0019 J	1.19 JD	0.0026 J	ND
Methyl tert butyl ether	ND	0.0035	ND	0.0018 J	ND	ND
Methylcyclohexane	ND	0.0043 J	ND	3.73 JD	0.0062 J	ND
Methylene chloride	ND	ND	ND	ND	0.0042 J	ND
o-Xylene	ND	0.0069	0.0012	25.6 JD	0.0119	ND
Toluene	0.0010	0.0028	ND	5.09 JD	0.0050	ND
Xylene, -m,p	ND	ND	0.0038	54.4 JD	0.0336	ND
Xylenes	ND	0.0069	0.0050	80.0 JD	0.0455	ND
SVOCs						
1,1'-Biphenyl	ND	2.21	ND	ND	ND	ND
2-Methylnaphthalene	ND	0.893	ND	ND	ND	ND
Acenaphthene	ND	0.0546 J	ND	0.854	ND	ND
Anthracene	ND	ND	ND	0.666 J	ND	ND
Benzo(a)anthracene	ND	ND	ND	0.294 J	0.0218 J	ND
bis(2-Ethylhexyl)phthalate	ND	3.01	ND	**367 D**	0.800	ND
Chrysene	ND	ND	ND	0.232 J	0.0203 J	ND
Dibenzofuran	ND	ND	ND	0.540 J	ND	ND
Diethyl phthalate	ND	6.17 D	ND	ND	ND	ND
di-n-butyl phthalate	ND	8.03 D	ND	ND	ND	ND
di-n-octylphthalate	ND	0.150	ND	0.473 J	0.337	ND
Fluoranthene	ND	ND	ND	0.569 J	0.0421 J	ND
Fluorene	ND	0.0997 J	ND	3.47	ND	ND
Naphthalene	ND	**10.9 D**	ND	0.549 J	ND	ND
N-Nitrosodiphenylamine	ND	0.142 J	ND	ND	ND	ND
Phenanthrene	ND	0.229	ND	12.6	0.0630 J	ND
Pyrene	ND	ND	ND	0.842	0.0315 J	ND
Pesticide/Herbicides						
4,4-DDE	0.0017	ND	ND	ND	ND	ND
Aldrin	ND	ND	ND	**0.0465**	ND	ND
alpha-Chlordane	0.0075 J	ND	ND	ND	ND	ND
gamma-Chlordane	0.0064	ND	ND	ND	ND	ND
PCBs						
PCB 1254	ND	ND	ND	**4.01**	ND	ND
Total PCBs	ND	ND	ND	**4.01**	ND	ND
Metals - Total						
Aluminum	10700	34300	17800	12000	7770	3710
Antimony	ND	ND	ND	10.8 J	29.0 J	19.8 J
Arsenic	2.0 B	3.2	3.3	10.3	**27.0**	9.8
Barium	65.9	123	50.8	819	403	566
Beryllium	0.39 B	0.37 B	0.54 B	0.70	0.38 B	0.15 B
Cadmium	ND	60.6	0.12 B	10.5	6.3	0.46 B
Calcium	3470	41300	1940	14000	154000	4880
Chromium	23.3	40.0	30.9	233	74.6	16.3
Cobalt	7.1 J	7.1 BJ	10.4 J	21.7 J	12.4 J	4.5 BJ
Copper	20.7	12.6	32.5	189	921	194
Iron	22000 J	17900 J	25800 J	47000 J	61400 J	20600 J
Lead	8.9	128	17.9	**1010**	**1360**	**428**
Magnesium	4560	11600	4110	6190	40300	1140
Manganese	268	159	330	605	1110	170
Mercury	0.042	0.082	3.8	0.41	0.038 B	ND
Nickel	15.1	10.8	21.2	31.9	70.3	40.5
Potassium	1270	1000 B	1160 B	2050	1240 B	229 B
Selenium	ND	16.4	ND	ND	ND	ND
Sodium	362 B	1410 B	179 B	610 B	1590	631 B
Thallium	ND	ND	1.0 B	ND	ND	ND
Vanadium	42.4 J	31.5 J	41.5 J	49.6 J	18.8 J	40.8 J
Zinc	42.5	95.6	48.7	12900	10300	666

CMI-S6

Date	12/10/2007	12/10/2007	12/10/2007	12/10/2007	12/11/2007	12/11/2007
Start Depth (fbgs)	5.5	20.5	36.5	41.5	49.5	61.5
End Depth (fbgs)	6	21	37	42	50	62
VOCs						
1,4-Dichlorobenzene	ND	0.0049	ND	ND	ND	ND
Acetone	0.0163	0.0266	ND	ND	ND	0.0116
Benzene	ND	0.0011	ND	ND	ND	ND
Carbon disulfide	ND	ND	ND	ND	ND	0.0025 J
Chlorobenzene	0.0043 J	0.0713	0.0023 J	ND	ND	ND
Chloroform	ND	ND	ND	0.00097 J	ND	ND
Cyclohexane	ND	ND	0.0031 J	ND	ND	ND
Ethylbenzene	ND	0.00082 J	0.0024	ND	ND	ND
Isopropylbenzene	ND	0.0022 J	0.0017 J	ND	ND	ND
Methylcyclohexane	ND	ND	0.0051 J	ND	ND	ND
Methylene chloride	ND	ND	ND	0.0017 J	ND	ND
o-Xylene	ND	0.00053 J	0.0012	ND	ND	ND
Xylene, -m,p	ND	0.0043	0.0133	ND	ND	ND
Xylenes	ND	0.0048	0.0146	ND	ND	ND
SVOCs						
Acenaphthene	ND	ND	0.0165 J	ND	ND	ND
Anthracene	0.0462 J	ND	ND	ND	ND	ND
Benzo(a)anthracene	0.0609 J	ND	0.0233 J	ND	ND	ND
Benzo(a)pyrene	0.0476 J	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	0.0534 J	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.0381 J	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	0.0508 J	ND	ND	ND	ND	ND
Benzyl butyl phthalate	0.0478 J	0.0545 J	ND	ND	ND	ND
bis(2-Ethylhexyl)phthalate	0.221	1.08	1.51	ND	0.142	ND
Carbazole	0.0639 J	ND	ND	ND	ND	ND
Chrysene	0.0627 J	ND	0.0230 J	ND	ND	ND
Dibenzo(a,h)anthracene	0.0309 J	ND	ND	ND	ND	ND
Dibenzofuran	ND	ND	0.0137 J	ND	ND	ND
di-n-butyl phthalate	0.0861	ND	ND	ND	ND	ND
Fluoranthene	0.0650 J	0.0133 J	0.0551 J	ND	ND	ND
Fluorene	ND	ND	0.0236 J	ND	ND	ND
Naphthalene	0.0353 J	0.0130 J	0.0148 J	ND	ND	ND
Phenanthrene	0.0461 J	ND	0.0869	ND	ND	ND
Pyrene	0.0731 J	0.0196 J	0.0571 J	ND	ND	ND
Pesticide/Herbicides						
4,4-DDD	0.0031	ND	ND	ND	ND	ND
4,4-DDE	0.0046	ND	ND	ND	ND	ND
alpha-Chlordane	ND	0.0039	ND	ND	ND	ND
Dieldrin	ND	0.0040 J	ND	ND	ND	ND
gamma-Chlordane	ND	0.0029 JN	ND	ND	ND	ND
Metals - Total						
Aluminum	17000 J	9590 J	18200 J	5310 J	9610	10800
Antimony	ND	ND	**185 J**	30.5 J	6.5 J	1.0 BJ
Arsenic	2.4 J	1.4 BJ	**56.7**	16.8	8.0	1.9 B
Barium	46.7	33.0	276	1240	204 J	67.4 J
Beryllium	0.68	0.36 B	0.66	0.38 B	0.36 R	0.12 R
Cadmium	ND	ND	8.0	10.1	5.7	1.2
Calcium	1370 J	1500 J	4070 J	17500 J	4800	7070
Chromium	23.0	21.7	59.2	275	32.7	33.5
Cobalt	8.1	9.0	17.5	18.4	14.9	19.0
Copper	33.4	29.0	49.8	273	240 J	13.4 J
Iron	24800	19900	35000	147000	60800 J	34100 J
Lead	6.9	5.4	**9030**	**5660 R**	391	5.6
Magnesium	3240	3080	5540	5560	9130 J	15800 J
Manganese	227 J	482 J	464 J	878 J	485 J	427 J
Mercury	0.079	ND	ND	ND	ND	ND
Nickel	16.0	14.5	23.5	68.9	44.0	28.5
Potassium	949 B	1160 B	2700	755 B	2870	4850
Selenium	ND	ND	1.8 B	ND	5.3	2.8 J
Silver	ND	ND	0.43 B	3.6	1.1	ND
Sodium	222 BJ	ND	927 B	738 B	1740	1390
Thallium	ND	ND	ND	ND	ND	0.81 BJ
Vanadium	57.1	42.6	53.5	38.0	38.3	**81.4**
Zinc	46.5 J	25.9 J	3880 J	8700 J	1470	85.9

CMI-S1

Date	12/13/2007	12/13/2007	12/13/2007	12/13/2007
Start Depth (fbgs)	3.5	8.5	21.5	31
End Depth (fbgs)	4	9	22	31.5
VOCs				
Acetone	ND	0.0294	ND	0.0215
Ethylbenzene	ND	ND	0.00055 J	ND
SVOCs				
2-Methylnaphthalene	ND	0.0374 J	ND	ND
Benzo(a)anthracene	ND	0.0322 J	ND	0.0185 J
Benzo(b)fluoranthene	ND	0.0477 J	ND	0.0155 J
Benzo(g,h,i)perylene	ND	0.0458 J	ND	0.0145 J
bis(2-Ethylhexyl)phthalate	2.99 J	1.60	ND	ND
Chrysene	ND	0.0736 J	ND	0.0204 J
Fluoranthene	ND	0.0984	ND	0.0197 J
Phenanthrene	ND	0.0851	ND	ND
Pyrene	ND	0.114	ND	0.0228 J
Pesticide/Herbicides				
4,4-DDD	0.0047 J	ND	ND	0.0027
4,4-DDE	0.0062	0.0029 J	ND	0.0023
4,4-DDT	ND	ND	ND	0.0036 J
Dieldrin	ND	0.0023	ND	ND
PCBs				
PCB 1248	0.0651	ND	ND	ND
PCB 1260	0.133 J	0.121	ND	ND
Total PCBs	0.1981	0.121	ND	ND
Metals - Total				
Aluminum	14300	14600 J	13700	18800
Antimony	1.9 BJ	22.1 J	1.6 BJ	ND
Arsenic	3.0 J	13.5	ND	12.8
Barium	52.6	4080 J	76.8	54.4 B
Beryllium	0.27 B	0.48 B	0.16 B	0.50 B
Cadmium	0.99 J	56.7 J	0.30 B	0.53 B
Calcium	8880 J	7190 J	11800	11200
Chromium	20.3	45.8 J	50.3	29.5
Cobalt	8.5	13.3 J	29.3	24.7 B
Copper	43.3 J	80.3 J	6.3	8.1 B
Iron	20800	42300 J	23900	32500
Lead	51.1 J	**1360 J**	2.0	6.6 B
Magnesium	4650 J	4110 J	19700 J	21800 J
Manganese	278 J	458 J	619	466
Mercury	0.050	0.12 J	ND	0.033
Nickel	24.9 J	35.8 J	43.6	56.1
Potassium	953 BJ	1400 J	6180 J	8450 J
Sodium	1050 BJ	1310	1240	ND
Thallium	ND	1.0 B	ND	ND
Vanadium	**80.2 J**	62.9 J	69.2	**87.5**
Zinc	159 J	2860 J	48.7	25.8



0 40 80 120
SCALE IN FEET

SAMPLE ID — SAMPLE DATE

CMI-S1

Date	Dec-07
fbgs	3.5-4.0
VOC	
Chlorobenzene	< 0.00049
Ethylbenzene	< 0.00042
Xylenes	< 0.00023

CONSTITUENT — SAMPLE INTERVAL

LEGEND

- RESIDENCE
- TRAILS
- ROADWAYS
- WATERWAYS, BROOKS
- GROUND SURFACE ELEVATION CONTOUR
- WEAK POINTS OBSERVED IN ASHPALT
- OB-1 (543.78) EXISTING OVERBURDEN MONITORING WELL WITH GROUNDWATER ELEVATION
- RW-8 EXISTING BEDROCK MONITORING
- S-1 VERTICAL SONIC BORING
- SOIL SAMPLE LOCATION
- ROCK OUTCROP
- CMTP-03 TEST PIT
- 5' INTERPOLATED DEPTH TO BEDROCK OR BLAST RUBBLE (DASHED WHERE INFERRED)
- 14' INTERPOLATED DEPTH TO BEDROCK OR BLAST RUBBLE (DASHED WHERE INFERRED)

NOTE:

ND	NOT DETECTED ABOVE LABORATORY DETECTION LIMIT
NE	NO EXCEEDANCE
NA	NOT ANALYZED
NS	NO STANDARD
<	LESS THAN
BOLD	CONTAMINANT DETECTED AT LEVELS GREATER THAN THE NJDEP RESIDENTIAL DIRECT CONTACT SOIL REMEDIATION STANDARDS.
ftbgs	FEET BELOW GROUND SURFACE
msl	MEAN SEA LEVEL
UNDERLINE	CONTAMINANT DETECTED AT LEVELS GREATER THAN THE NJDEP IMPACT TO GROUNDWATER DEFAULT SOIL SCREENING Levels

CANNON MINE PIT AREA INVESTIGATION
RINGWOOD MINE/LANDFILL SITE
REMEDIATION PROJECT,
RINGWOOD, NEW JERSEY

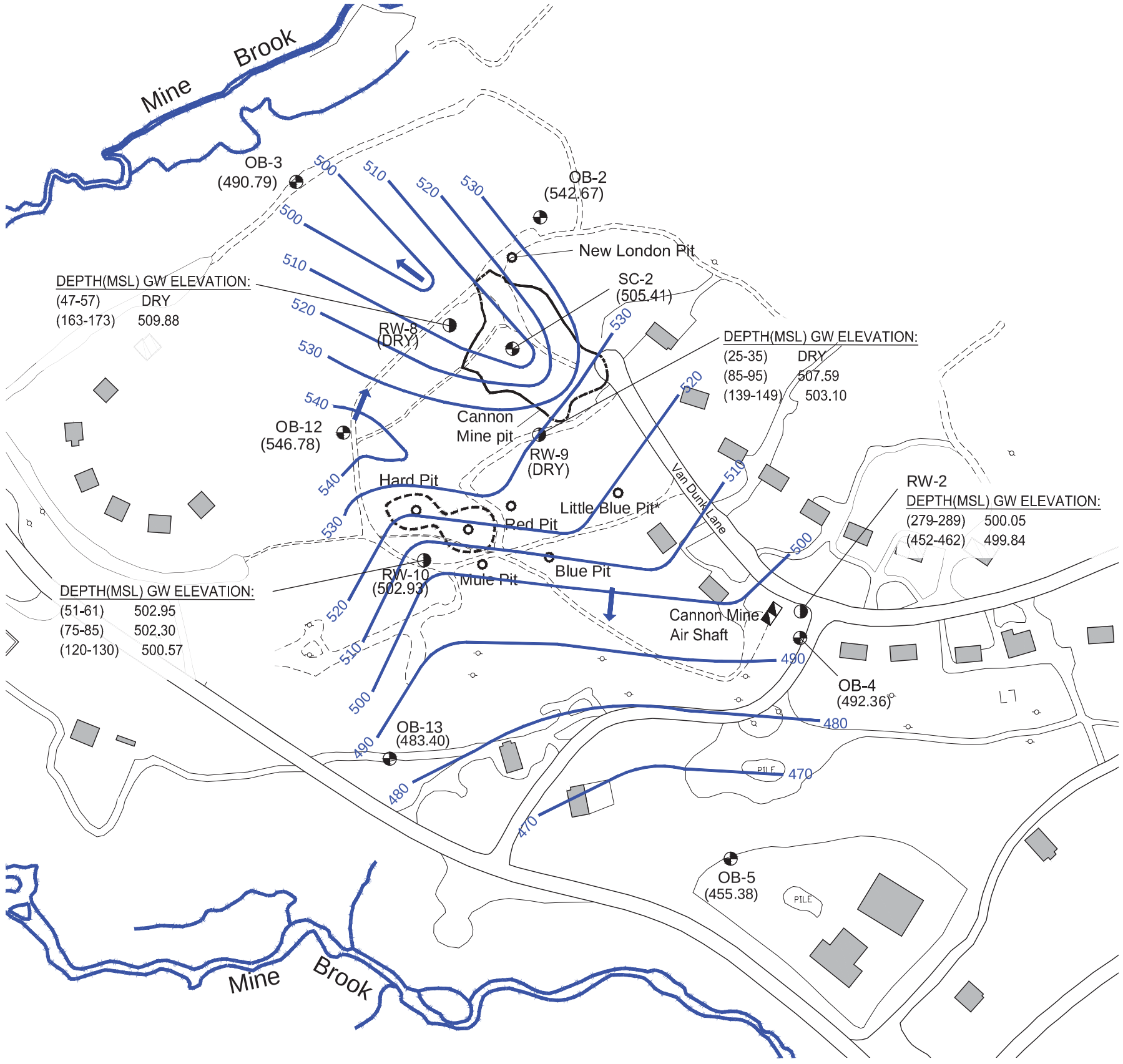
CANNON MINE AREA WITH VERTICAL SONIC BORING RESULTS AND PIT LIMITS

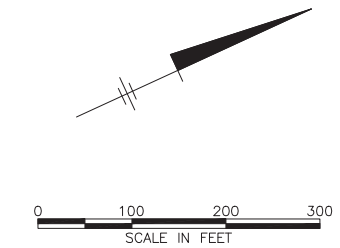
ARCADIS

FIGURE 5

R2-0005429

CITY:(Reqd) DIV/GROUP:(Reqd) DB:(Reqd) LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\Newtown\ACTIVE\2000604003\900021\FIG-05 CANNON MINE VERTICAL SONIC BORING RESULTS.dwg LAYOUT: 5 SAVED: 4/6/2012 10:42 AM ACADVER: 17.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ARCADIS.CTB PLOTTED: 4/6/2012 10:43 AM BY: WASILEWSKI, MATT
XREFS: IMAGES PROJECTNAME: ----





	Well ID	bottom screen depth (feet)	top screen depth (feet)	bottom screen depth (MSL)	top screen depth (MSL)	Monitoring Method
Monitors Cannon Mine Pit	SC-2	67	47	497.13	517.13	Low Flow
Shallow Bedrock	OB-2	42	8	520.3	554.3	Low Flow
	OB-3	24	9	472.53	487.53	Low Flow
	OB-4	61	28	449.8	482.8	Low Flow
	OB-5	63	18	395.83	440.83	Low Flow
	OB-12	40	9	518.36	549.36	Low Flow
	OB-13	60	8	440.35	492.35	Low Flow
	RW-8A(47-57)	57	47	512.55	522.55	ZIST Pump
	RW-9A(25-35)	35	25	526.82	536.82	ZIST Pump
	RW-9A(85-95)	95	85	466.73	476.73	ZIST Pump
	RW-10A(51-61)	61	51	478.43	488.43	ZIST Pump
	RW-10A(75-85)	85	75	454.45	464.45	ZIST Pump

LEGEND

- RESIDENCE
- TRAILS
- ROADWAYS
- WATERWAYS, BROOKS
- GROUND SURFACE ELEVATION CONTOUR
- RW-10 (502.76) — EXISTING BEDROCK MONITORING WELL WITH GROUNDWATER ELEVATION
- 500 — GROUNDWATER CONTOUR LINE RELATIVE TO MEAN SEA LEVEL (SHALLOW BEDROCK)
- GROUNDWATER FLOW DIRECTION OF SHALLOW BEDROCK BEDROCK INTERVAL MAY 2011 (FT. MSL.) (10-FT CONTOUR INTERVAL)
- FT. MSL. — FEET ABOVE MEAN SEA LEVEL

Ringwood Mines/Landfill Site
Ringwood, New Jersey
Site-Wide Groundwater Remedial Investigation Report

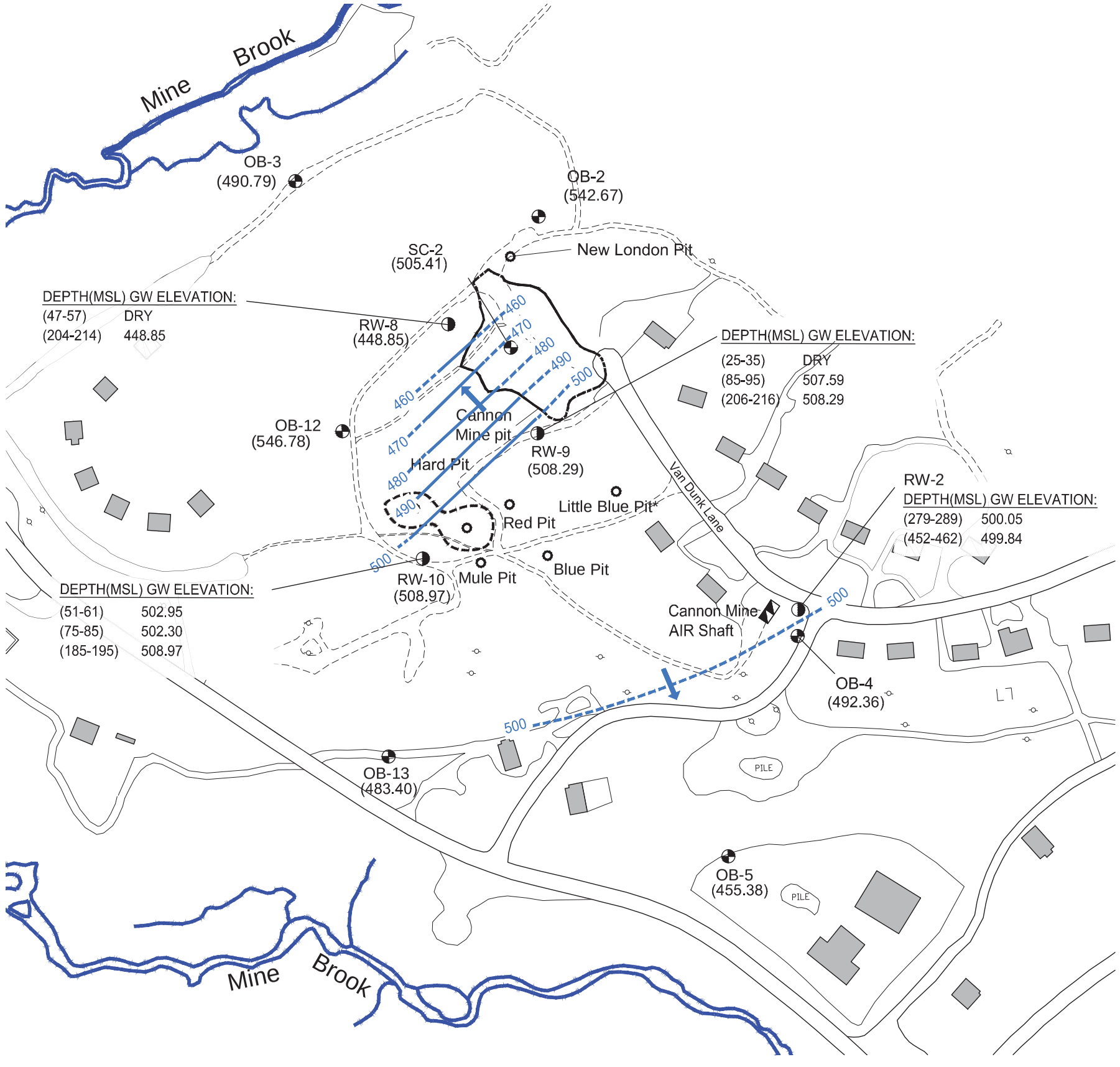
WELL LOCATIONS AND SHALLOW BEDROCK GROUNDWATER ELEVATION CONTOURS IN THE CMP - APRIL 2012

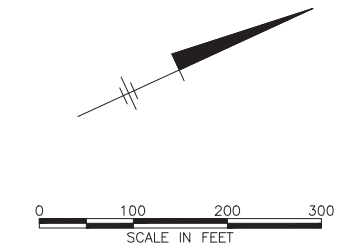
ARCADIS

FIGURE
6

R2-0005430

CITY:MAHWAH DIV/GROUP:ENVIRONMENTAL DB:J.GONZALEZ LD:J.SEIER PIC:M.MOHIUDDIN PM:E.ZIMMERMAN TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\Newtown\ACT\RETURN-TO\Fairlawn-NJ\NJ000604\0035\00034\GWC\2013-01\FIG-06 WELLS AND GW ELEVATION CONTOURS - 05-2011 - SHAL-BEDROCK.dwg
ARCADIS-MAHWAH.CTB PLOTTED: 1/8/2013 9:08 AM BY: WASILEWSKI, MATT
LAYOUT: 6 SAVED: 12/12/2012 3:28 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE:
XREFS: IMAGES: PROJECTNAME: ----





	Well ID	bottom screen depth (feet)	top screen depth (feet)	bottom screen depth (MSL)	top screen depth (MSL)	Monitoring Method
Monitors Cannon Mine Pit	SC-2	67	47	497.13	517.13	Low Flow
Deep Bedrock	RW-2(279-289)	289	279	223.23	233.23	ZIST Pump
	RW-2(452-462)	462	452	50.19	60.19	ZIST Pump
	RW-8(163-173)	173	163	397.01	407.01	ZIST Pump
	RW-8(204-214)	214	204	296.01	306.01	ZIST Pump
	RW-9(139-149)	149	139	412.81	422.81	ZIST Pump
	RW-9(206-216)	216	206	345.91	355.91	ZIST Pump
	RW-10(120-130)	130	120	410.78	420.78	ZIST Pump
	RW-10(185-195)	195	185	345.76	355.76	ZIST Pump

LEGEND

- RESIDENCE
- TRAILS
- ROADWAYS
- WATERWAYS, BROOKS
- GROUND SURFACE ELEVATION CONTOUR
- RW-10 (502.76) — EXISTING BEDROCK MONITORING WELL WITH GROUNDWATER ELEVATION
- 400 — GROUNDWATER CONTOUR LINE RELATIVE TO MEAN SEA LEVEL (DEEP)
- GROUNDWATER FLOW DIRECTION OF DEEP BEDROCK INTERVAL MAY 2011 (FT. MSL.) (10-FT CONTOUR INTERVAL)
- FT. MSL. – FEET ABOVE MEAN SEA LEVEL

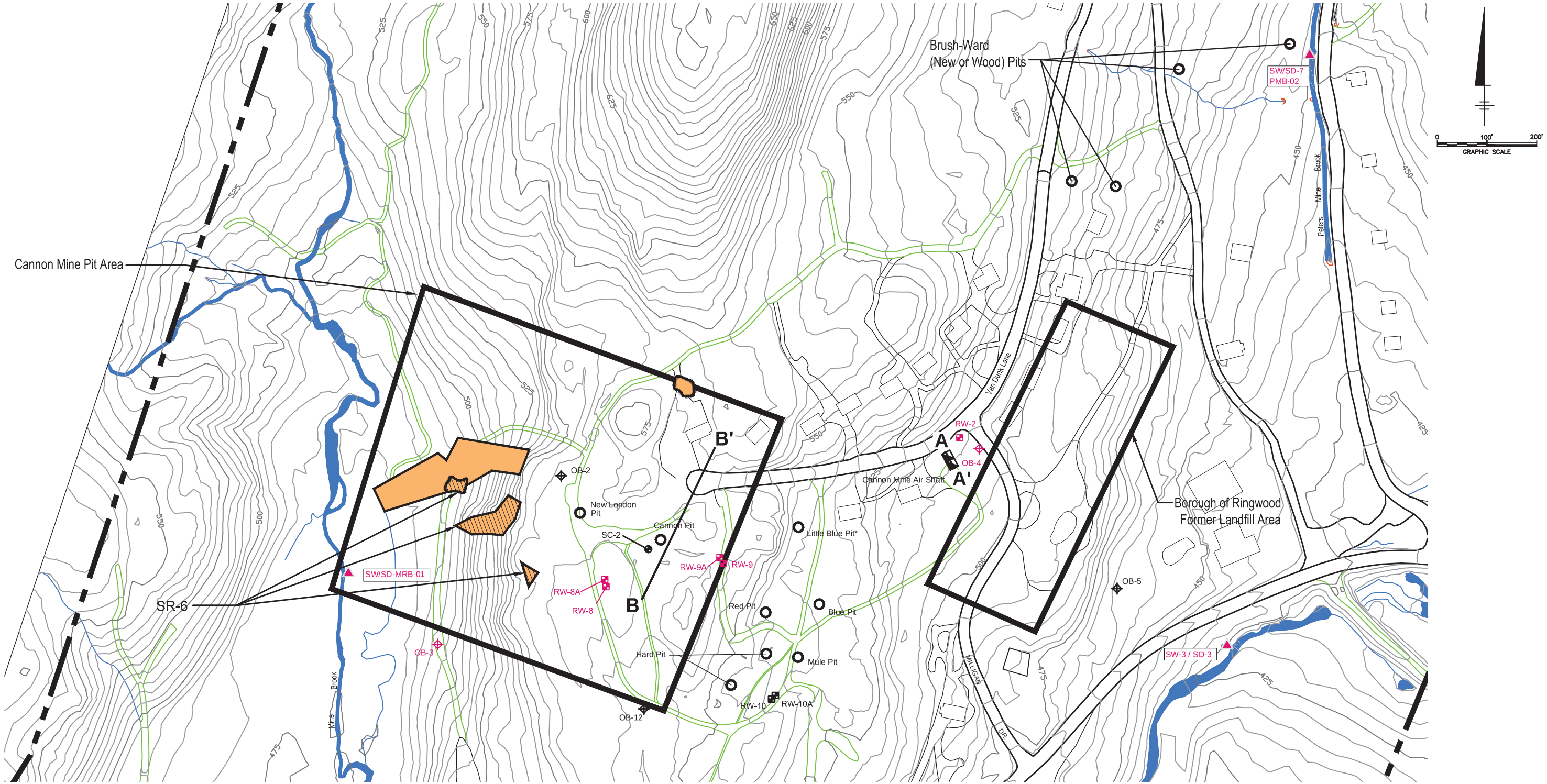
Ringwood Mines/Landfill Site
Ringwood, New Jersey
Site-Wide Groundwater Remedial Investigation Report

WELL LOCATIONS AND DEEP BEDROCK GROUNDWATER ELEVATION CONTOURS IN THE CMP - APRIL 2012

ARCADIS

FIGURE
6A

CITY:MAHWAH DIV/GROUP:ENVIRONMENTAL DB:J.GONZALEZ LD:J.SEIER PIC:M.MOHIUDDIN PM:E.ZIMMERMAN TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\Newtown\ACT\RETURN-TO\Fairlawn-NJ\NJ000604\0035\00034\GWC\2013-01\FIG-06A WELLS AND GW ELEVATION CONTOURS - 05-2011 - DEEP-BEDROCK.dwg
ARCADIS-MAHWAH.CTB PLOTTED: 1/8/2013 9:14 AM BY: WASILEWSKI, MATT
LAYOUT: 6A SAVED: 1/8/2013 9:14 AM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE:
XREFS: IMAGES: PROJECTNAME: ----
R2-0005431



LEGEND

- DEEP BEDROCK WELL LOCATION
- UNCONSOLIDATED WELL LOCATION
- DIRECTIONAL WELL LOCATION
- Cannon — ABANDONED MINE PIT
- Cannon Mine Air Shaft — ABANDONED MINE AIR SHAFT ENTRANCE
- PAINT SLUDGE REMOVAL AREA
- 2006 – 2009 PAINT SLUDGE REMOVAL AREA (SR–3 THRU SR–9)
- DIRT ROAD
- BEDROCK WELL LOCATION
- SUPPLEMENTAL RI SURFACE WATER SAMPLING LOCATION
- SUPPLEMENTAL RI GROUNDWATER SAMPLING LOCATION
- A—A' LINE OF GEOLOGIC CROSS–SECTION (SEE FIGURES 5 AND 6)
- RI REMEDIAL INVESTIGATION

NOTE:
EXISTING CONTOURS DEPICT TOPOGRAPHY PRIOR TO REMOVAL ACTIVITIES.

Ringwood Mines/Landfill Site
Ringwood, New Jersey
Site-Wide Groundwater Remedial Investigation Report

SUPPLEMENTAL GROUNDWATER RI WELL NETWORK CANNON MINE AREA

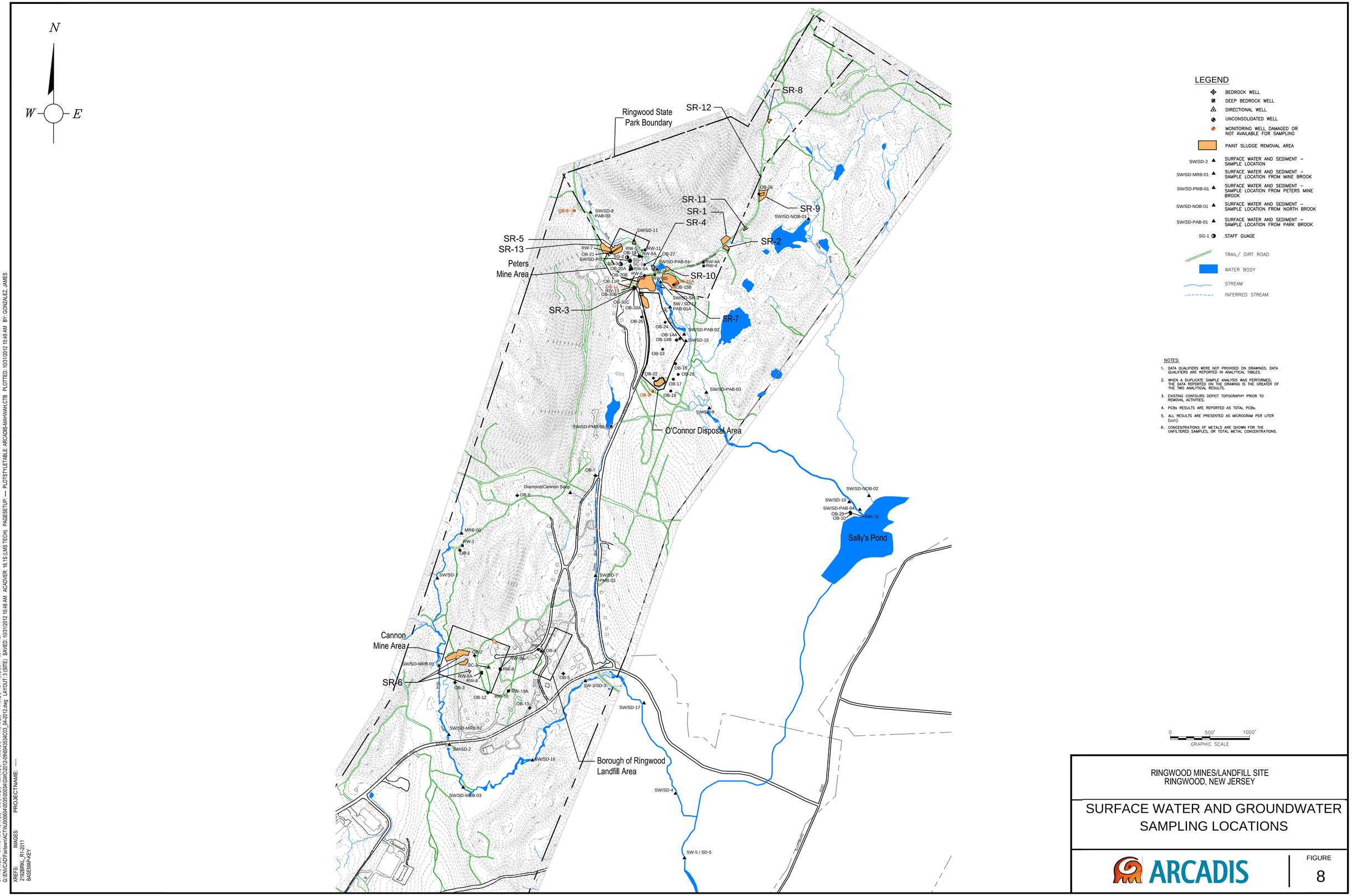
ARCADIS

FIGURE
7

R2-0005432

CITY:MAHWAH DIV/GROUP:ENVCAD DB:JG LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\Newtown\ACT\RETURN-TO\Fairlawn-NJ\NJ00060\4\0035\00034\GWC\2013-01\FIG 07.08 - SUPPLEMENTAL RI WELL NETWORK.dwg LAYOUT: 7 SAVED: 12/20/2012 7:19 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ARCADIS-RINGWOOD.CTB PLOTTED: 1/8/2013 9:16 AM BY: WASILEWSKI, MATT

XREFS: IMAGES: PROJECTNAME: ----
2182BRKL_R1-2011
XSE-CONTOURS
contours-swsd14



NOTES:

1. DATA QUALIFIERS WERE NOT PROVIDED ON DRAWINGS. DATA QUALIFIERS ARE REPORTED IN ANALYTICAL TABLES.
2. WHEN A DUPLICATE SAMPLE ANALYSIS WAS PERFORMED, THE DATA REPORTED ON THE DRAWING IS THE GREATER OF THE TWO ANALYTICAL RESULTS.
3. EXISTING CONTOURS DEPICT TOPOGRAPHY PRIOR TO REMOVAL ACTIVITIES.
4. PCBs RESULTS ARE REPORTED AS TOTAL PCBs.
5. ALL RESULTS ARE PRESENTED AS MICROGRAM PER LITER (µg/L).
6. CONCENTRATIONS OF METALS ARE SHOWN FOR THE UNFILTERED SAMPLES, OR TOTAL METAL CONCENTRATIONS.

RINGWOOD MINES/LANDFILL SITE
RINGWOOD, NEW JERSEY

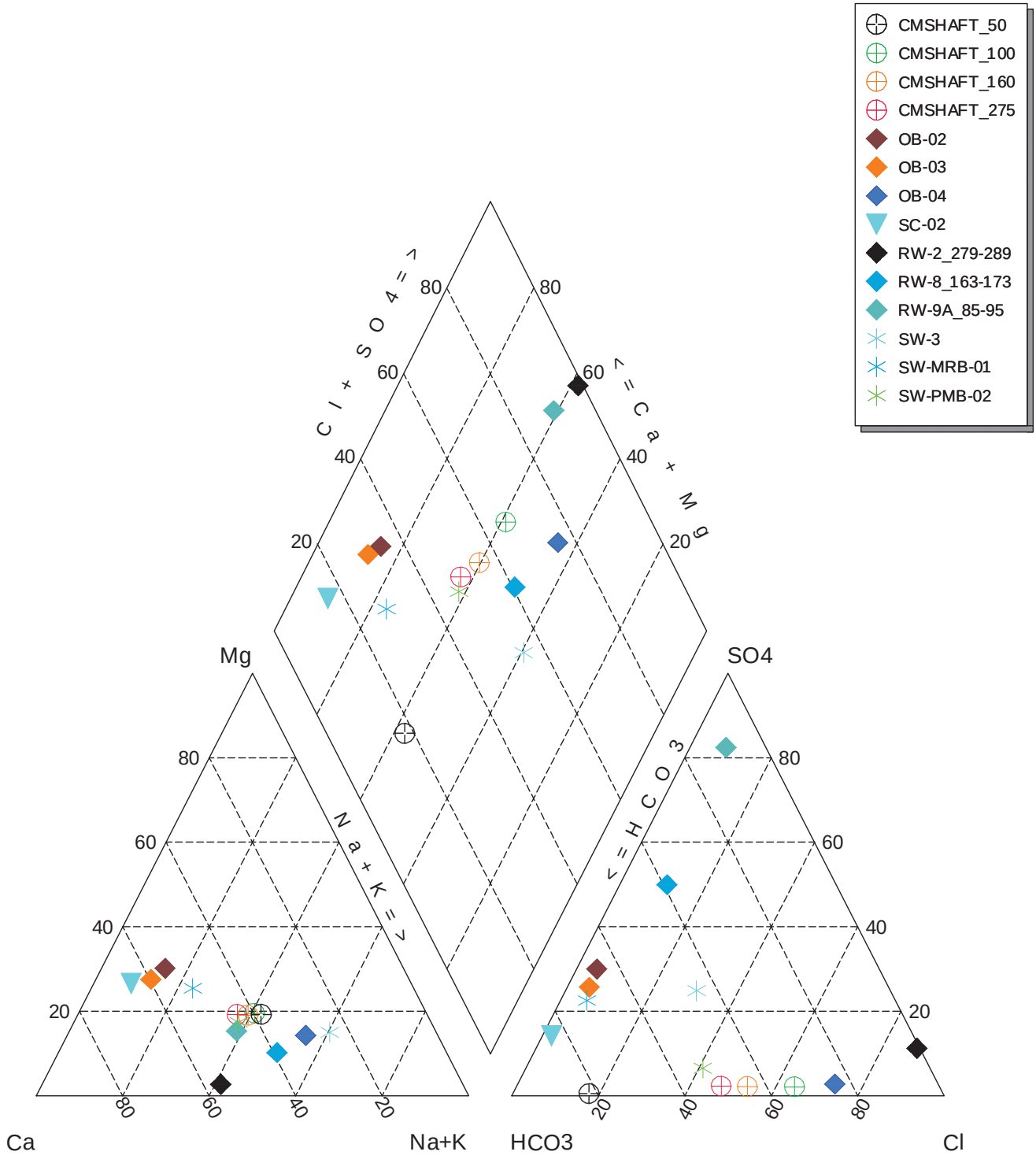
SURFACE WATER AND GROUNDWATER SAMPLING LOCATIONS

ARCADIS

FIGURE
8

CITY:(Reqd) DIV/GROUP:(Reqd) DB:(Reqd) LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\Fairlawn\ACTN\J0006040\0035\00034\GWC\2012-09\6043534C03_04-2012.dwg LAYOUT: 3 (SITE) SAVED: 10/31/2012 10:48 AM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ARCADIS-MAHWAH.CTB PLOTTED: 10/31/2012 10:49 AM BY: GONZALEZ, JAMES
XREFS: 2182BRKL_R1-2011 BASEMAP-KEY IMAGES: PROJECTNAME: ----

R2-0005433



LEGEND

CMP CANNON MINE PIT

Ringwood Mines/Landfill Site
Ringwood, New Jersey

Site-Wide Groundwater Remedial Investigation Report

CMP AREA PIPER DIAGRAM

ARCADIS

FIGURE
9

R2-0005434

CITY: Newtown, Pa DIV/GROUP: ENV DB: M. Wasilewski LD: M. Wasilewski PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\Newtown\ACT\RETURN-TO\Fairlawn-NJNJ000604\0035\t00034\GWC\2013-01\FIG 09 Piper Diagram CMP.dwg LAYOUT: 9 SAVED: 12/21/2012 3:22 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ARCADIS(SIZE A-B).CTB PLOTTED: 1/8/2013 9:17 AM BY:
WASILEWSKI, MATT
XREFS: IMAGES: PROJECTNAME: ----

CITY:\NH\WAH DIV/GROUP:ENVCAD DB:JG LD:(Opt) PIC:(Opt) PM:(Req'd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\Newtown\ACTIVE\TURN-TOP\Feldmann-NJN.0006040035\00034\GW\2013-01\FIG 10_11A - SUPPLEMENTAL RI\WELL NETWORK.dwg LAYOUT: 10 SAVED: 1/3/2013 4:02 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ARCADIS-RINGWOOD.CTB PLOTTED: 1/8/2013 9:22 AM BY: WASILEWSKI, MATT
XREFS: IMAGES:
2"IEBRIL_R1-2011
XSE-CONTOURS
contours-swsd14
PROJECTNAME: ----

RW-1 (131-141)

RW-1 (67-74)

OB-01

OB-02

SW-MRB-01

OB-03

SC-02

CM SHAFT (100)

CM SHAFT (50)

RW-2 (279-289)

CM SHAFT (160)

CM SHAFT (275)

RW-2 (452-462)

RW-9A (85-95)

SW-PMB-02

SW-03

RW-8 (163-173),5/3/2012

RW-10A (51-61)

OB-05

RW-10 (185-195)

RW-10 (120-130)

RW-10A (75-85)

OB-04

Each stiff diagram: Mg, Ca, Na, Fe (II) / Fe (Total) | HCO3 + CO3, SO4, Cl, NO3

RW-1
OB-1
SW/SD-1
OB-2
SW/SD-MRB-01
SR-6
OB-3
SC-2
RW-9A
RW-9
RW-8A
RW-8
OB-12
RW-10
RW-10A
Cannon Mine Pit Area
New London Pit
Cannon Pit
Little Blue Pit*
Red Pit
Blue Pit
Hard Pit
Mule Pit
Brush-Ward (New or Wood) Pits
SW/SD-7 PMB-02
Cannon Mine AIR Shaft
RW-2
OB-4
A
A'
B
B'
Borough of Ringwood Former Landfill Area
OB-5
SW-3 / SD-3
Mine Brook
Peters Brook
Mill Creek

0 120' 240'
GRAPHIC SCALE

LEGEND

- DEEP BEDROCK WELL LOCATION
- UNCONSOLIDATED WELL LOCATION
- DIRECTIONAL WELL LOCATION
- Cannon — ABANDONED MINE PIT
- Cannon Mine Shaft — ABANDONED MINE SHAFT ENTRANCE
- PAINT SLUDGE REMOVAL AREA
- 2006 – 2009 PAINT SLUDGE REMOVAL AREA (SR–3 THRU SR–9)
- DIRT ROAD
- BEDROCK WELL LOCATION
- SUPPLEMENTAL RI SURFACE WATER SAMPLING LOCATION
- SUPPLEMENTAL RI GROUNDWATER SAMPLING LOCATION
- A—A' LINE OF GEOLOGIC CROSS SECTION (SEE FIGURES 5 AND 6)

NOTE:
EXISTING CONTOURS DEPICT TOPOGRAPHY PRIOR TO REMOVAL ACTIVITIES.

Ringwood Mines/Landfill Site
Ringwood, New Jersey
Site-Wide Groundwater Remedial Investigation Report

CMP AREA STIFF DIAGRAMS

ARCADIS

FIGURE
10

R2-0005435

SAMPLE ID

SAMPLE DATE

CONSTITUENT

RW-9A			
Date	6/23/2010	6/1/2011	4/20/2012
Sample ID	RW-9A(85-95)	RW-9A(85-95)(060111)	RW-9A (85-95)(042012)
ftbgs	85-95	85-95	85-95
msl	(475-465)	(475-465)	(475-465)
VOCs			
Benzene	0.33 J	< 0.22	0.23 J
Metals - Total			
Aluminum	NA	NA	**323**
Arsenic	NA	NA	2.8 J
Iron	NA	NA	**670**
Lead	NA	NA	< 1.7
Manganese	NA	NA	**99.6**
Metals - Dissolved			
Aluminum	NA	NA	< 16
Arsenic	NA	NA	2.5 J
Iron	NA	NA	< 24
Lead	NA	NA	< 1.7
Manganese	NA	NA	**90.6**

RESULTS ARE PRESENTED IN MICROGRAM PER LITER (µg/L).

ND NOT DETECTED.

NA NOT ANALYZED.

NS NO STANDARD.

< LESS THAN

SVOC SEMI-VOLATILE ORGANIC COMPOUND.

VOC VOLATILE ORGANIC COMPOUND.

PCBs POLYCHLORINATED BIPHENYLS.

BOLD VALUE IS ABOVE THE GROUNDWATER QUALITY STANDARD (GWQS)

ftbgs FEET BELOW GRADE SURFACE

msl MEAN SEA LEVEL

USEPA US ENVIRONMENTAL PROTECTION AGENCY

^ ANOMALOUS RESULTS DUE TO CROSS-CONTAMINATION CAUSED BY PACKER TESTING MATERIALS

* DETECTION LIMIT IS ABOVE THE STANDARD.

SHADED VALUES ARE ABOVE THE USEPA MAXIMUM CONTAINMENT LEVEL

TRAIL/ DIRT ROAD

WATER BODY

STREAM

INFERRED STREAM

LEGEND

BEDROCK WELL

DEEP BEDROCK WELL

DIRECTIONAL WELL

UNCONSOLIDATED WELL

MONITORING WELL DAMAGED OR NOT AVAILABLE FOR SAMPLING

PAINT SLUDGE REMOVAL AREA

SW/SD-2 SURFACE WATER AND SEDIMENT – SAMPLE LOCATION

SW/SD-MRB-01 SURFACE WATER AND SEDIMENT – SAMPLE LOCATION FROM MINE BROOK

SW/SD-PMB-01 SURFACE WATER AND SEDIMENT – SAMPLE LOCATION FROM PETERS MINE BROOK

SW/SD-NOB-01 SURFACE WATER AND SEDIMENT – SAMPLE LOCATION FROM NORTH BROOK

SW/SD-PAB-01 SURFACE WATER AND SEDIMENT – SAMPLE LOCATION FROM PARK BROOK

SG-1 STAFF GAUGE

NOTES:

1. WHEN A DUPLICATE SAMPLE ANALYSIS WAS PERFORMED, THE DATA REPORTED ON THE DRAWING IS THE GREATER OF THE TWO ANALYTICAL RESULTS.
2. EXISTING CONTOURS DEPICT TOPOGRAPHY PRIOR TO REMOVAL ACTIVITIES.
3. PCBs RESULTS ARE REPORTED AS TOTAL PCBs.
4. ALL RESULTS ARE PRESENTED AS MICROGRAM PER LITER (µg/L).
5. CONCENTRATIONS OF METALS ARE SHOWN FOR THE UNFILTERED SAMPLES, OR TOTAL METAL CONCENTRATIONS.

OB-12												
Date	11/1/2004	12/30/2004	9/28/2006	4/3/2007	10/8/2007	4/28/2008	9/9/2008	6/30/2009	10/20/2009	5/25/2010	5/17/2011	4/19/2012
Sample ID	OB-12 (1101/04)	OB-12 (123004)	OB-12	OB-12(040307)	OB-12(071008)	OB-12(080428)	OB-12(080909)	OB-12(063009)	OB-12(102009)	OB-12(052510)	OB-12(051711)	OB-12 (041912)
ftbgs	9-40	9-40	9-40	9-40	9-40	9-40	9-40	9-40	9-40	9-40	9-40	9-40
msl	(549-518)	(549-518)	(549-518)	(549-518)	(549-518)	(549-518)	(549-518)	(549-518)	(549-518)	(549-518)	(549-518)	(549-518)
VOCs												
Benzene	< 1.0	< 0.31	< 0.21	< 0.21	< 0.19	< 0.26	< 0.26	< 0.23	< 0.23	< 0.23	< 0.26	< 0.22
Metals - Total												
Arsenic	< 5.0	< 5.0	< 1.5	< 1.5	< 1.1	< 1.7	< 1.7	< 2.4	< 2.4	< 1.4	< 0.92	< 0.97
Lead	< 3.0	< 3.0	< 2.6	< 2.8	< 0.94	< 1.4	< 1.4	< 1.7	< 1.7	< 1.9	< 0.94	< 1.7
Metals - Dissolved												
Arsenic	< 5.0	< 5.0	< 1.5	< 1.5	< 1.1	< 1.7	< 1.7	< 2.4	< 2.4	< 1.4	< 0.92	< 0.97
Lead	< 3.0	< 3.0	< 2.6	< 2.8	< 0.94	< 1.4	< 1.4	< 1.7	< 1.7	< 1.9	< 0.94	< 1.7

[illegible]

0 500' 1000'
GRAPHIC SCALE

RINGWOOD MINES/LANDFILL SITE
RINGWOOD, NEW JERSEY
SITE-WIDE GROUNDWATER REMEDIAL INVESTIGATION REPORT

SITE-WIDE GROUNDWATER RESULTS NOVEMBER 2004 THROUGH MAY 2012

ARCADIS

FIGURE **11**

ARCADIS

Appendix A

Memorandum regarding closure of the CM and New London Pit by the New Jersey Mine Safety Bureau
Statement of Work

MEMO TO: File
FROM: Albert J. Getz, Chief Mine Safety Engineer
SUBJECT: Safeguarding of Abandoned Mine Holes, Ringwood, Passaic County
DATE: September 21, 1965

An inspection of the subject mines was made on September 21, 1965. Donald Grien of the Park Place Construction Company is in charge of the operation. He stated that the plans of the Company are to have only one crew at the site for the time being, and work will be done on only one large pit at a time. As other major jobs are completed, their key personnel will be brought in to start work on the other openings. This will not be accomplished before December, or the first of the year.

Up to this date ten small test pits and openings in the New London-Cannon Mine area have been filled in with overburden and rock. The first blast was made today in the New London Pit. The blast was made at 11:15 A.M. and consisted of ten holes loaded with 450 pounds of Toval and 40% Gel. dynamite. In order to obtain large material there were no delay periods used. The blast appeared to be very successful, and the small stope at the bottom of the pit is well blocked with massive rock. Mr. Grien was requested to remove several large trees which were laying on the bank and bottom of the pit. The next blast is scheduled for the week of October 3rd. He will keep this office advised of any revisions in the blasting schedule.

Raimos, Inc. of Stanhope are removing the junk cars from a number of mine holes, but there was no work being done by them during the visit to the site today.

Albert J. Getz
Chief Mine Safety Engineer

AJG:em

R2-0005438

FROM: Albert J. Goetz, Chief Mine Safety Engineer

SUBJECT: Inspection of Abandoned Mines, Ringwood Mines, Ringwood, Passaic County.

DATE: October 6, 1965

Mr. Don Orien, Park Place Construction Company called on October 5, 1965 to advise that a blast would be made on October 6th adjacent to, and above the shaft located at the bottom of the Cannon Pit.

Since my last visit to the site a blast had been made at the southwest side of the Cannon Pit, and a relatively large stope was uncovered, which extended upward from the floor of the floor of the pit. Drilling was being accomplished at the rear and sides of this stope, and will not be completed before October 8th or 11th. The blast this morning was detonated at 10:55 and consisted of 13 - 3½ inch holes drilled to a depth of approximately 40 feet. A total of 800 pounds of explosives was used with instantaneous delays. Approximately 2200 yards of rock were dislodged and disappeared under the water in the pit. The exact location of the shaft was determined as a result of a blast, since for more than five minutes afterwards the water was "boiling" in one small section of the pit. An inspection was made at the Cannon Shaft after the blast. The water level is within 5 feet of the collar of the shaft, and the mass of rock falling into the pit shaft caused the water at the Cannon Shaft to rise over the collar of the shaft, causing minor flooding. Two small pits, one on either side of the road to the northeast from the Hard Vein, have been filled in since the last visit to the site.

Albert J. Goetz
Chief Mine Safety Engineer

cc: Mr. Sullivan

R2-0005439

Subject: Inspection of Abandoned Mines, Ringwood Mines, Passaic County

Date: December 13, 1965

Visits were made to the subject mines on October 13, 18, 28 and November 16, 1965 to ascertain the progress of closing the pits and shafts. The New London Pit has been completely filled to the level of the surrounding ground. Three blasts were witnessed at the Cannon Pit, the first blast sealed off the large stope at the southwest side of the pit. The second and third blasts were made at the northeast end of the pit to seal off the shaft. The rock from the second blast went down the shaft, causing the water in the Cannon Shaft to rise over the collar of the shaft. The third blast was successful in sealing the shaft. No more work will be done at the Cannon Pit in the near future.

The St. George Pit (known locally as Pipe Line Hill Mine) has been filled in to the level of the surrounding ground. Since there is a question as to the amount of debris removed before the filling in was started, and no positive information has been obtained on the presence of a shaft at the bottom of the pit, it will be necessary to fence in this pit.

The Blue Vein Pit and the pit just to the northeast and on the opposite side of Cannon Road have been filled in. The shaft in the Blue Vein Pit was not located before the "filling in" operation started. Consequently this pit will have to be fenced in. Don Grien of the Park Place Construction Company stated that he was certain the shaft had been blocked because of the large mass of rock which was blasted into the pit.

The Miller Mine, adjacent to one of the travelled roads has been filled in to ground level on one side, and the banks sloped on the side away from the road. The southwest end of the pit is shallow and at the northeast end it is approximately 60 feet deep. Chief Roy Van Tassel was concerned about filling in the pit since he said there was a shaft at the deep end. During my visit to the site on October 28th I spoke to Mr. John W. Morgan, age 73, who resides at the Ringwood Mines and has worked at the mines in various jobs all his life. He showed Don Grien and myself the approximate location of a shaft on the main road leading to the Peters Mine, which had been capped with steel and concrete a number of years ago. He stated that there was a tunnel, but no shaft, extending from the bottom of the Miller Pit on the northeast end toward the road, and that a short tunnel had also been driven from the shaft in the main road toward the Miller Pit tunnel but they never connected.

Albert J. Betz
Chief Mine Safety Engineer

R2-0005440

ARCADIS

Appendix B

Surface Soil Sampling Logs

SURFACE SOIL SAMPLE LOG

SAMPLE NO.: **CMI-SS-01**

TOTAL DEPTH: **0.6** **feet bgs**

PROJECT INFORMATION

CLIENT: **Ford Motor Company**
PROJECT NO: **NJ000604.0021**
SITE LOCATION: **Ringwood, NJ**
GEOLOGIST: **Christin Cifelli**
DATE STARTED: **10-23-07**
DATE COMPLETED: **10-23-07**

SAMPLING INFORMATION

SAMPLE GROUP: **Christin Cifelli**
Jeff Seier

SAMPLE METHOD: **Hand Digging**
by Vincenzo Romagnuolo

STATE PLANE COORDINATES (ft):

X = **553969.3** Y = **837474.1**

DEPTH (feet)	Lithology Symbol	Sample Name (per 0.5 ft)	PID 10.6 eV (ppm)	STRATIGRAPHIC UNITS	SOIL DESCRIPTION
0		CMI-SS01	0.0	ORGANIC	(0.0 - 0.1) ORGANIC: Organics (Grass, roots, and moss on surface); and Debris (plastic bottle, plastic bags, aluminum cans, glass bottles, rubber sole shoes); Medium brown, low magnetic response, some Fines, poorly sorted;
				GRANULES	(0.1 - 0.5) GRANULES: Granules; with Sand, Fine, angular to subangular; some Organics (horizontal roots with rootlets); Moist, brown, poorly sorted, fine supported matrix, medium magnetic response
		CMI-SS-01 (VOCs)	0.0	GRANULES	(0.5 - 0.6) GRANULES: Granules; with Sand, Medium to Fine, rounded to subangular; some Organics (horizontal roots with rootlets); Moist, brown, poorly sorted, fine supported matrix, high magnetic response

Notes: bgs: below ground surface MSL: Mean Sea Level PID: Phot-ionization Detector

R2-0005442

SURFACE SOIL SAMPLE LOG

SAMPLE NO.: **CMI-SS-02**

TOTAL DEPTH: **1.5** **feet bgs**

PROJECT INFORMATION

CLIENT: **Ford Motor Company**
PROJECT NO: **NJ000604.0021**
SITE LOCATION: **Ringwood, NJ**
GEOLOGIST: **Christin Cifelli**
DATE STARTED: **10-23-07**
DATE COMPLETED: **10-23-07**

SAMPLING INFORMATION

SAMPLE GROUP: **Christin Cifelli**
Jeff Seier

SAMPLE METHOD: **Hand Digging**
by Vincenzo Romagnuolo

STATE PLANE COORDINATES (ft):

X = **554096.0** Y = **837535.8**

DEPTH (feet)	Lithology Symbol	Sample Name (per 0.5 ft)	PID 10.6 eV (ppm)	STRATIGRAPHIC UNITS	SOIL DESCRIPTION
0		CMI-SS-02	0.0	ORGANIC	(0.0 - 0.1) ORGANIC: Organics (detritus); Debris (hose, styrofoam, plastic bottles); Granules, subangular to subrounded; with Sand, Fine; with Fines; Fine supported matrix, moist, brown, medium magnetic response, poorly sorted.
				DEBRIS/ RUBBISH	(0.1 - 0.8) DEBRIS/ RUBBISH: Sand, Fine; some Fines; trace Granules; some Organics (horizontal roots and rootlets); trace Debris (metal filings, and plastic poly; Poorly sorted, moist, medium magnetic response, brown.
			0.0		
1		CMI-SS-02 (VOCs)	0.0	DEBRIS/ RUBBISH	(0.8 - 1.5) DEBRIS/ RUBBISH: Granules, of weathered parent material, subrounded; and Sand, Fine; some Fines; trace Granules; some Oranics (horizontal roots and rootlets); trace Debris (metal filings, and plastic poly; Poorly sorted, moist, medium magnetic response, brown.

Notes: bgs: below ground surface MSL: Mean Sea Level PID: Phot-ionization Detector

SURFACE SOIL SAMPLE LOG

SAMPLE NO.: **CMI-SS-03**

TOTAL DEPTH: **1.5** **feet bgs**

PROJECT INFORMATION

CLIENT: **Ford Motor Company**
PROJECT NO: **NJ000604.0021**
SITE LOCATION: **Ringwood, NJ**
GEOLOGIST: **Christin Cifelli**
DATE STARTED: **10-23-07**
DATE COMPLETED: **10-23-07**

SAMPLING INFORMATION

SAMPLE GROUP: **Christin Cifelli**
Jeff Seier

SAMPLE METHOD: **Hand Digging**
by Vincenzo Romagnuolo

STATE PLANE COORDINATES (ft):

X = **554103.8** Y = **837599.9**

DEPTH (feet)	Lithology Symbol	Sample Name (per 0.5 ft)	PID 10.6 eV (ppm)	STRATIGRAPHIC UNITS	SOIL DESCRIPTION
0		CMI-SS-03	0.0	ORGANIC	(0.0 - 0.2) ORGANIC: Organics (grass and vegetation); Debris (tires, wrappers, stove); Granules, subrounded; with Fines; Moist, brown, fine supported matrix.
				GRANULES	(0.2 - 0.6) GRANULES: Granules, subangular to rounded; with Fines; some Organics (roots with rootlets); Fine supported matrix, brown, moist, low magnetic response.
			0.0	GRANULES	(0.6 - 1.5) GRANULES: Granules, subangular to rounded; with Fines; Fine supported matrix, brown, moist, medium magnetic response.
1		CMI-SS-03 (VOCs)	0.0		

Notes: bgs: below ground surface MSL: Mean Sea Level PID: Phot-ionization Detector

Date: 3/27/2008
Page: 1 of 1

SURFACE SOIL SAMPLE LOG

SAMPLE NO.: **CMI-SS-04**

TOTAL DEPTH: **1.5** **feet bgs**

PROJECT INFORMATION

CLIENT: **Ford Motor Company**
PROJECT NO: **NJ000604.0021**
SITE LOCATION: **Ringwood, NJ**
GEOLOGIST: **Christin Cifelli**
DATE STARTED: **10-23-07**
DATE COMPLETED: **10-23-07**

SAMPLING INFORMATION

SAMPLE GROUP: **Christin Cifelli**
Jeff Seier

SAMPLE METHOD: **Hand Digging**
by Vincenzo Romagnuolo

STATE PLANE COORDINATES (ft):

X = **554031.4** Y = **837617.7**

DEPTH (feet)	Lithology Symbol	Sample Name (per 0.5 ft)	PID 10.6 eV (ppm)	STRATIGRAPHIC UNITS	SOIL DESCRIPTION
0		CMI-SS-04	0.0	ORGANIC	(0.0 - 0.1) ORGANIC: Organics (leaf litter, grass); Dark brown, moist, low magnetic response
				ORGANIC	(0.1 - 0.8) ORGANIC: Organics (horizontal roots, rootlets); with Sand, Fine to Very Fine; trace Granules, subrounded; Poorly sorted, brown, moist, low to medium magnetic response.
			0.0		
1		CMI-SS-04 (VOCs)	0.0	GRANULES	(0.8 - 1.5) GRANULES: Granules, subangular to rounded; with Sand, Fine; with Fines; Brown, moist, medium magnetic response.

Notes: bgs: below ground surface MSL: Mean Sea Level PID: Phot-ionization Detector

SURFACE SOIL SAMPLE LOG

SAMPLE NO.: **CMI-SS-05**

TOTAL DEPTH: **1.5** **feet bgs**

PROJECT INFORMATION

CLIENT: **Ford Motor Company**
PROJECT NO: **NJ000604.0021**
SITE LOCATION: **Ringwood, NJ**
GEOLOGIST: **Christin Cifelli**
DATE STARTED: **10-23-07**
DATE COMPLETED: **10-23-07**

SAMPLING INFORMATION

SAMPLE GROUP: **Christin Cifelli**
Jeff Seier

SAMPLE METHOD: **Hand Digging**
by Vincenzo Romagnuolo

STATE PLANE COORDINATES (ft):

X = **553936.5** Y = **837630.9**

DEPTH (feet)	Lithology Symbol	Sample Name (per 0.5 ft)	PID 10.6 eV (ppm)	STRATIGRAPHIC UNITS	SOIL DESCRIPTION
0		CMI-SS-05	0.0	ORGANIC	(0.0 - 0.1) ORGANIC: Organics (leaf litter, grass); and Debris (plastic bags, glass bottles, glass jar, fabric)
				DEBRIS/ RUBBISH	(0.1 - 0.4) DEBRIS/ RUBBISH: Debris (plastic bags, glass bottles, glass jar, fabric); and Granules, subrounded to subangular; with Sand, Fine to Medium; Organics (horizontal roots and rootlets); Gray/tan and light brown, moist, low magnetic response, poorly sorted.
			0.0	DEBRIS/ RUBBISH	(0.4 - 1.5) DEBRIS/ RUBBISH: Granules, angular to subrounded; and Debris (glass bottles, plastic containers, metal strips, pleastic bags) Brown, moist, low magnetic response; poorly sorted
1		CMI-SS-05 (VOCs)	0.0		

Notes: bgs: below ground surface MSL: Mean Sea Level PID: Phot-ionization Detector

Date: 3/27/2008
Page: 1 of 1

SURFACE SOIL SAMPLE LOG

SAMPLE NO.: **CMI-SS-06**

TOTAL DEPTH: **1.5** **feet bgs**

PROJECT INFORMATION

CLIENT: **Ford Motor Company**
PROJECT NO: **NJ000604.0021**
SITE LOCATION: **Ringwood, NJ**
GEOLOGIST: **Christin Cifelli**
DATE STARTED: **10-23-07**
DATE COMPLETED: **10-23-07**

SAMPLING INFORMATION

SAMPLE GROUP: **Christin Cifelli**
Jeff Seier

SAMPLE METHOD: **Hand Digging**
by Vincenzo Romagnuolo

STATE PLANE COORDINATES (ft):

X = **554033.5** Y = **837653.3**

DEPTH (feet)	Lithology Symbol	Sample Name (per 0.5 ft)	PID 10.6 eV (ppm)	STRATIGRAPHIC UNITS	SOIL DESCRIPTION
0		CMI-SS-06	0.0	ORGANIC	(0.0 - 0.1) ORGANIC: Organics (leaf litter, sticks); and Debris (glass bottles); some Granules, subrounded; with Sand, Medium to Fine; Low magnetic response, poorly sorted.
				GRANULES	(0.1 - 1.0) GRANULES: Granules, subrounded; with Sand, Medium to Fine; some Organics (horizontal roots/rootlets); Medium magnetic response, brown, moist, poorly sorted.
			0.0		
1		CMI-SS-06 (VOCs)	0.0	GRANULES	(1.0 - 1.5) GRANULES: Granules, subangular to rounded; with Sand, Fine to Medium; with Fines; Brown, moist, low magnetic response, poorly sorted

Notes: bgs: below ground surface MSL: Mean Sea Level PID: Phot-ionization Detector

R2-0005447

SURFACE SOIL SAMPLE LOG

SAMPLE NO.: **CMI-SS-07**

TOTAL DEPTH: **2** **feet bgs**

PROJECT INFORMATION

CLIENT: **Ford Motor Company**
PROJECT NO: **NJ000604.0021**
SITE LOCATION: **Ringwood, NJ**
GEOLOGIST: **Christin Cifelli**
DATE STARTED: **10-23-07**
DATE COMPLETED: **10-23-07**

SAMPLING INFORMATION

SAMPLE GROUP: **Christin Cifelli**
Jeff Seier

SAMPLE METHOD: **Hand Digging**
by Vincenzo Romagnuolo

STATE PLANE COORDINATES (ft):

X = **554064.9** Y = **837514.2**

DEPTH (feet)	Lithology Symbol	Sample Name (per 0.5 ft)	PID 10.6 eV (ppm)	STRATIGRAPHIC UNITS	SOIL DESCRIPTION
0		CMI-SS-07	0.0	ORGANIC	(0.0 - 0.1) ORGANIC: Organics (leaf litter, moss, thorny vegetation); and Debris (plastic cones with thread, tires, glass, bottles, plastic bags); Granules; with Sand, Fine to Medium; Poorly sorted, moist, brown, low magnetic response.
				DEBRIS/ RUBBISH	(0.1 - 0.5) DEBRIS/ RUBBISH: Granules, subangular to angular; with Sand, Fine to Medium; Brown, moist, medium magnetic response, poorly sorted
			0.0	DEBRIS/ RUBBISH	(0.5 - 2.0) DEBRIS/ RUBBISH: Granules, angular to subangular; with Sand, Fine to Medium; Brown, moist, medium magnetic response; poorly sorted
1			0.0		
		CMI-SS-07 (VOCs)	0.0		
2					

Notes: bgs: below ground surface MSL: Mean Sea Level PID: Phot-ionization Detector

Date: 3/27/2008
Page: 1 of 1

SURFACE SOIL SAMPLE LOG

SAMPLE NO.: **CMI-SS-08**

TOTAL DEPTH: **1.5** **feet bgs**

PROJECT INFORMATION

CLIENT: **Ford Motor Company**
PROJECT NO: **NJ000604.0021**
SITE LOCATION: **Ringwood, NJ**
GEOLOGIST: **Christin Cifelli**
DATE STARTED: **10-23-07**
DATE COMPLETED: **10-23-07**

SAMPLING INFORMATION

SAMPLE GROUP: **Christin Cifelli**
Jeff Seier

SAMPLE METHOD: **Hand Digging**
by Vincenzo Romagnuolo

STATE PLANE COORDINATES (ft):

X = **553947.5** Y = **837560.5**

DEPTH (feet)	Lithology Symbol	Sample Name (per 0.5 ft)	PID 10.6 eV (ppm)	STRATIGRAPHIC UNITS	SOIL DESCRIPTION
0		CMI-SS-08	0.0	ORGANIC	(0.0 - 0.1) ORGANIC: Organics (vegetation, moss); Sand, Fine to Very Fine; Debris (plastic shards, plastic bags, glass bottles); Medium magnetic response, brown, moist
				DEBRIS/ RUBBISH	(0.1 - 0.6) DEBRIS/ RUBBISH: Sand, Fine to Medium; and Debris (plastic shards, plastic bags, glass bottles); High magnetic response, brown, moist.
			0.0	DEBRIS/ RUBBISH	(0.6 - 1.5) DEBRIS/ RUBBISH: Sand, Fine to Medium; and Debris (plastic shards, plastic bags, glass bottles); trace Granules, subangular; High magnetic response, brown, moist.
1		CMI-SS-08 (VOCs)	0.0		

Notes: bgs: below ground surface MSL: Mean Sea Level PID: Phot-ionization Detector

Date: 3/27/2008

SURFACE SOIL SAMPLE LOG

SAMPLE NO.: **CMI-SS-09**

TOTAL DEPTH: **1.5** **feet bgs**

PROJECT INFORMATION

CLIENT: **Ford Motor Company**
PROJECT NO: **NJ000604.0021**
SITE LOCATION: **Ringwood, NJ**
GEOLOGIST: **Christin Cifelli**
DATE STARTED: **10-23-07**
DATE COMPLETED: **10-23-07**

SAMPLING INFORMATION

SAMPLE GROUP: **Christin Cifelli**
Jeff Seier

SAMPLE METHOD: **Hand Digging**
by Vincenzo Romagnuolo

STATE PLANE COORDINATES (ft):

X = **554091.1** Y = **837508.8**

DEPTH (feet)	Lithology Symbol	Sample Name (per 0.5 ft)	PID 10.6 eV (ppm)	STRATIGRAPHIC UNITS	SOIL DESCRIPTION
0		CMI-SS-09	0.0	ORGANIC	(0.0 - 0.1) ORGANIC: Debris (shoes, cans, bottles, plastics); and Organics (viney vegetation and detritus)
				DEBRIS/ RUBBISH	(0.1 - 0.8) DEBRIS/ RUBBISH: Sand, Fine to Medium; trace Granules, subrounded; some Fines; some Organics (horizontal roots and rootlets); and Debris (cans and plastic bags); Fine supported matrix, well sorted, medium magnetic response, brown, moist.
			0.0		
1		CMI-SS-09 (VOCs)	0.0	DEBRIS/ RUBBISH	(0.8 - 1.5) DEBRIS/ RUBBISH: Granules (weathered parent rock), angular to subangular; and Sand, Fine to Medium; trace Granules, subrounded; some Fines; some Organics (horizontal roots and rootlets); Debris (cans and plastic bags); Fine supported matrix, poorly sorted, medium magnetic response, brown, moist.

Notes: bgs: below ground surface MSL: Mean Sea Level PID: Phot-ionization Detector

SURFACE SOIL SAMPLE LOG

SAMPLE NO.: **CMI-SS-10**

TOTAL DEPTH: **2** **feet bgs**

PROJECT INFORMATION

CLIENT: **Ford Motor Company**
PROJECT NO: **NJ000604.0021**
SITE LOCATION: **Ringwood, NJ**
GEOLOGIST: **Christin Cifelli**
DATE STARTED: **10-23-07**
DATE COMPLETED: **10-23-07**

SAMPLING INFORMATION

SAMPLE GROUP: **Christin Cifelli**
Jeff Seier

SAMPLE METHOD: **Hand Digging**
by Vincenzo Romagnuolo

STATE PLANE COORDINATES (ft):

X = **553995.4** Y = **837495.9**

DEPTH (feet)	Lithology Symbol	Sample Name (per 0.5 ft)	PID 10.6 eV (ppm)	STRATIGRAPHIC UNITS	SOIL DESCRIPTION
0		CMI-SS-10	0.0	ORGANIC	(0.0 - 0.1) ORGANIC: Organics (leaf litter, leaves, sticks); and Debris (comb, plastic bags, glass); Granules; and Gravel; Sand, Coarse; Low magnetic response, partially sorted
				DEBRIS/ RUBBISH	(0.1 - 0.8) DEBRIS/ RUBBISH: Sand, Medium to Fine; some Granules, some Gravel; some Sand, Fine to Coarse; with Organics (horizontal roots and rootlets); trace Debris (white metal, metal strips, plastic poly); Medium magnetic response, poorly sorted (10YR 5/2). Greyish Brown.
			0.0		
1				DEBRIS/ RUBBISH	(0.8 - 2.0) DEBRIS/ RUBBISH: Sand, Coarse; with Sand, Fine to Medium; some Gravel; Moist, (10YR 5/4 and 10YR 3/2) Yellowish Brown and Very Dark Greyish Brown
			0.0		
		CMI-SS-10 (VOCs)	0.0		
2					

Notes: bgs: below ground surface MSL: Mean Sea Level PID: Phot-ionization Detector

Date: 3/27/2008
Page: 1 of 1

ARCADIS

Appendix C

Test Pit Logs and Photographs

TEST PIT LOG

TRENCH NO.: **CMI-TP01**

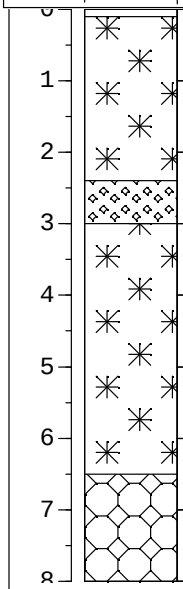
TOTAL DEPTH: **8.0** **feet bgs**

PROJECT INFORMATION

CLIENT:	**Ford Motor Company**
PROJECT NO:	**NJ000604.0021**
SITE LOCATION:	**Ringwood, NJ**
GEOLOGIST:	**Christin Cifelli**
DATE STARTED:	**11-1-07**
DATE COMPLETED:	**11-2-07**

SAMPLING INFORMATION

CONTRACTOR:	**Compass Environmental**
OPERATOR:	**Jeff Schalkoff**
METHOD:	**DEERE 270C**
LENGTH AND WIDTH:	**74 x 7 feet**



DEPTH (feet)	Lithology Symbol	PID 10.6 eV (ppm)	STRATIGRAPHIC UNITS	SOIL DESCRIPTION
0		0.0	ORGANIC	(0.0 - 0.1) ORGANIC: Organics with granules; fines as the matrix; moist - dark brown 10YR 3/3; poorly sorted; slightly magnetic.
1		79.0	DEBRIS/ RUBBISH	(0.1 - 2.4) DEBRIS/ RUBBISH: Debris consists of plastic bags, newspaper, bottles, cans, household refuse, tires and semi solid grease-like substance. Soil consists of very coarse sand, granules and coarse sand; fine sand and fines as the matrix; moist - brown 10YR 4/3; poorly sorted; moderately magnetic.
2		293.0	GRANULES	(2.4 - 3.0) GRANULES: Granules and coarse sand; fine sand with fines as the matrix; moist - light yellowish brown 10YR 6/4; moderately magnetic; semi solid grease-like substance with odor.
3		77.0	DEBRIS/ RUBBISH	(3.0 - 6.5) DEBRIS/ RUBBISH: Debris consists of drum remnants, thread spools, semi solid grease-like substance and yellow light colored material. Rock refusal at 6.5 feet.
4		0.0		
5		0.0		
6		0.0		
7		0.0	ROCK RUBBLE	(6.5 - 8.0) ROCK RUBBLE
8				

Notes: bgs: below ground surface MSL: Mean Sea Level PID: Phot-ionization Detector

Date: 10/6/2008
Page: 1 of 1

TEST PIT LOG

PIT NUMBER: **CMI-TP02**

TOTAL DEPTH: **10.0 feet bgs**

PROJECT INFORMATION

CLIENT:	**Ford Motor Company**
PROJECT NO:	**NJ000604.0021**
SITE LOCATION:	**Ringwood, NJ**
GEOLOGIST:	**Christin Cifelli**
DATE STARTED:	**11/1/07**
DATE COMPLETED:	**11/2/07**

SAMPLING INFORMATION

CONTRACTOR:	**Compass Environmental**
OPERATOR:	**Jeff Schalkoff**
METHOD:	**Excavator 270C**
LENGTH AND WIDTH:	**51 x 6 feet**

DEPTH (feet)	Lithology Symbol	PID 10.6 eV (ppm)	STRATIGRAPHIC UNITS	SOIL DESCRIPTION
0		0.0	ORGANIC	(0.0 - 2.0) ORGANIC: Organics; cobbles to very coarse gravel, granules (25%) and coarse sand (20%) with medium (10%) to fine sands (5%) and fines (2%) as the matrix; moist - dark brown 10YR 3/3 / dry - yellowish brown 10YR 5/4; poorly sorted; subrounded to rounded; horizontal root system; debris consists of plastic bags, bottles, thread spools, carpet and metal pieces.
1		0.0		
2		37.0	DEBRIS/ RUBBISH	(2.0 - 4.0) DEBRIS/ RUBBISH: Debris consists of plastic bags, bottles, thread spools, semi-solid tar-like material, carpet, metal peices, drum and drum remnants.
3		121.0		
4		0.0	GRAVEL AND SAND	(4.0 - 8.0) GRAVEL AND SAND: Very coarse gravel and granules (20%) with coarse sand (10%), medium sand (10%), fine sand (5%) and fines (10%) as the matrix; moist - dark yellowish brown 10YR 3/4 / dry - yellowish brown 10YR 5/4; some white and reddish colors; poorly sorted; horizontal root structures; moderately magnetic. Debris consists of plastic bags, bottles, thread spools, carpet, metal pieces and semi solid grease-like substance with odor.
5		0.0		
6		0.0		
7		0.0		
8		0.0	ROCK RUBBLE	(8.0 - 10.0) ROCK RUBBLE: ROCK RUBBLE
9		0.0		
10				

Notes: bgs: below ground surface MSL: Mean Sea Level PID: Phot-ionization Detector

R2-0005454

TEST PIT LOG

TRENCH NO.: **CMI-TP03**

TOTAL DEPTH: **2** **feet bgs**

PROJECT INFORMATION

CLIENT:	**Ford Motor Company**
PROJECT NO:	**NJ000604.0021**
SITE LOCATION:	**Ringwood, NJ**
GEOLOGIST:	**Christin Cifelli**
DATE STARTED:	**11/1/07**
DATE COMPLETED:	**11/2/07**

SAMPLING INFORMATION

CONTRACTOR:	**Compass Environmental**
OPERATOR:	**Jeff Schalkoff**
METHOD:	**DEERE 270C**
LENGTH AND WIDTH:	**12 x 4 feet**

DEPTH (feet)	Lithology Symbol	PID 10.6 eV (ppm)	STRATIGRAPHIC UNITS	SOIL DESCRIPTION
0				
1		0.0	DEBRIS/ RUBBISH	(0.0 - 1.0) DEBRIS/ RUBBISH: Debris consists of plastic bottles, bags and glass bottles. Soil consists of organics, granules and coarse sand with fines as the matrix; moist - dark brown 10YR 3/3; poorly sorted; horizontal roots; moderately magnetic.
2		0.0	GRAVEL AND SAND	(1.0 - 2.0) GRAVEL AND SAND: Very coarse gravel, granules and coarse sand with fine sand and fines as the matrix; drill blast hole with plastic sleeve for detenation wires; moist - brown 10YR 4/3; poorly sorted; moderately magnetic. Rock refusal at 2 feet.

Notes: bgs: below ground surface MSL: Mean Sea Level PID: Phot-ionization Detector

TEST PIT LOG

TRENCH NO.: **CMI-TP04**

TOTAL DEPTH: **13.5 feet bgs**

PROJECT INFORMATION

CLIENT:	**Ford Motor Company**
PROJECT NO:	**NJ000604.0021**
SITE LOCATION:	**Ringwood, NJ**
GEOLOGIST:	**Christin Cifelli**
DATE STARTED:	**11/1/07**
DATE COMPLETED:	**11/1/07**

SAMPLING INFORMATION

CONTRACTOR:	**Compass Environmental**
OPERATOR:	**Jeff Schalkoff**
METHOD:	**DEERE 270C**
LENGTH AND WIDTH:	**18 x 6 feet**

DEPTH (feet)	Lithology Symbol	PID 10.6 eV (ppm)	STRATIGRAPHIC UNITS	SOIL DESCRIPTION
0		0.0	ORGANIC	(0.0 - 0.1) ORGANIC: Organics; coarse sand with fines as the matrix; moist - dark brown 10YR 3/3; poorly sorted; slightly magnetic.
1		0.0	COBBLES	(0.1 - 2.0) COBBLES: Cobbles, very coarse gravel and granules with medium sand as the matrix; moist - brown 10YR 4/3; poorly sorted; moderately magnetic; debris consists of plastic bags, glass bottles, plastic bottles, metal strips, thread spools, fabrics and a phone book.
2		0.0	DEBRIS/ RUBBISH	(2.0 - 6.5) DEBRIS/ RUBBISH: Debris consists of plastic bags, six-pack rings, mufflers, glass bottles, plastic bottles, metal strips, thread spools and fabrics. Soil consists of very coarse gravel and granules mixed in with debris; poorly sorted.
3		0.0		
4		0.0		
5		0.0		
6		0.0		
7		0.0	MINE TAILINGS/ FILL SOIL	(6.5 - 13.0) MINE TAILINGS/ FILL SOIL: Mine tailings and debris from above; finer material from 6.5 - 7.5'; wet material at base; very coarse sand as the matrix; moist - dark grey 10YR 4/1; poorly sorted; highly magnetic.
8		1.5		
9		0.0		
10		0.0		
11		0.0		
12		0.0		
13		0.0	FILL SOIL	(13.0 - 13.5) FILL SOIL: Orange Rocky Fill. Rock refusal at 13.5 feet.

Notes: bgs: below ground surface MSL: Mean Sea Level PID: Phot-ionization Detector

Date: 10/6/2008
Page: 1 of 1

TEST PIT LOG

TRENCH NO.: **CMI-TP05**

TOTAL DEPTH: **12.5 feet bgs**

PROJECT INFORMATION

CLIENT:	**Ford Motor Company**
PROJECT NO:	**NJ000604.0021**
SITE LOCATION:	**Ringwood, NJ**
GEOLOGIST:	**Christin Cifelli**
DATE STARTED:	**11-1-07**
DATE COMPLETED:	**11-1-07**

SAMPLING INFORMATION

CONTRACTOR:	**Compass Environmental**
OPERATOR:	**Jeff Schalkoff**
METHOD:	**DEERE 270C**
LENGTH AND WIDTH:	**17 x 6 feet**

DEPTH (feet)	Lithology Symbol	PID 10.6 eV (ppm)	STRATIGRAPHIC UNITS	SOIL DESCRIPTION
0		0.0	DEBRIS/ RUBBISH	(0.0 - 0.1) DEBRIS/ RUBBISH: Debris on the surface consists of tires and metal scraps. Soil consists of organics, granules with coarse sand and fines as the matrix; moist - dark brown 10YR 3/3; poorly sorted; horizontal roots; slightly magnetic.
1		0.0	GRANULES	(0.1 - 1.0) GRANULES: Granules with medium to fine sand as the matrix; moist - brown 10YR 4/3; poorly sorted; horizontal roots; slightly magnetic; debris consists of plastic bags, plastic bottles, glass bottles, aluminum cans, carpet fragments, wood scraps, metal scraps and tires.
2		0.0	DEBRIS/ RUBBISH	(1.0 - 8.5) DEBRIS/ RUBBISH: Debris consists of plastic bags, plastic bottles, glass bottles, metal strips, styrofoam, shoes, newspaper, aluminum cans, carpet fragments, wood scraps, tires and a phonebook.
3		0.0		
4		0.0		
5		0.0		
6		0.0		
7		0.0		
8		0.0		
9		0.0	MINE TAILINGS/ RUBBISH	(8.5 - 12.5) MINE TAILINGS/ RUBBISH: Mine tailings mixed with debris from overlying layer; moist - dark grey 10YR 4/1; poorly sorted; highly magnetic.
10		0.0		
11		0.0		
12		0.0		

Notes: bgs: below ground surface MSL: Mean Sea Level PID: Phot-ionization Detector

Date: 10/6/2008

TEST PIT LOG

TRENCH NO.: **CMI-TP06**

TOTAL DEPTH: **13** **feet bgs**

PROJECT INFORMATION

CLIENT:	**Ford Motor Company**
PROJECT NO:	**NJ000604.0021**
SITE LOCATION:	**Ringwood, NJ**
GEOLOGIST:	**Christin Cifelli**
DATE STARTED:	**11/1/07**
DATE COMPLETED:	**11/1/07**

SAMPLING INFORMATION

CONTRACTOR:	**Compass Environmental**
OPERATOR:	**Jeff Schalkoff**
METHOD:	**DEERE 270C**
LENGTH AND WIDTH:	**14.5 x 4.5 feet**

DEPTH (feet)	Lithology Symbol	PID 10.6 eV (ppm)	STRATIGRAPHIC UNITS	SOIL DESCRIPTION
0				
1		0.0	DEBRIS/ RUBBISH	(0.0 - 0.1) DEBRIS/ RUBBISH: Debris on the surface consists of plastic toys, tires and metal scraps. Soil consists of organics; fine sand with fines as the matrix; moist - dark brown 10YR 3/3; poorly sorted; horizontal roots; moderately magnetic.
2		0.0	GRAVEL AND SAND	(0.1 - 4.0) GRAVEL AND SAND: Trace cobbles and boulders; granules and fine sand with fines as the matrix; moist - brown 10YR 4/3; poorly sorted; horizontal roots; moderately magnetic.
3		0.0		
4		0.0		
5		0.0	DEBRIS/ RUBBISH	(4.0 - 12.5) DEBRIS/ RUBBISH: Coarse to medium sand; moist - brown 10YR 4/3; poorly sorted; moderately magnetic; debris consists of plastic bags, tires, glass bottles, cloth, lumber, toys and 1971 newspaper.
6		0.0		
7		0.0		
8		0.0		
9		0.0		
10		0.0		
11		0.0		
12		0.0		
13		0.0	GRAVEL AND SAND	(12.5 - 13.0) GRAVEL AND SAND: Granules and coarse sand with fine sand as the matrix; mixed with debris; moist - grey 10YR 5/1; poorly sorted; slightly magnetic; debris consists of plastic bags, tires, glass bottles, cloth, lumber and plastic toys.

Notes: bgs: below ground surface MSL: Mean Sea Level PID: Phot-ionization Detector

TEST PIT LOG

TRENCH NO.: **CMI-TP07**

TOTAL DEPTH: **9** **feet bgs**

PROJECT INFORMATION

CLIENT:	**Ford Motor Company**
PROJECT NO:	**NJ000604.0021**
SITE LOCATION:	**Ringwood, NJ**
GEOLOGIST:	**Christin Cifelli**
DATE STARTED:	**11/1/07**
DATE COMPLETED:	**11/2/07**

SAMPLING INFORMATION

CONTRACTOR:	**Compass Environmental**
OPERATOR:	**Jeff Schalkoff**
METHOD:	**DEERE 270C**
LENGTH AND WIDTH:	**27 x 6 feet**

DEPTH (feet)	Lithology Symbol	PID 10.6 eV (ppm)	STRATIGRAPHIC UNITS	SOIL DESCRIPTION
0		0.0	ORGANIC	(0.0 - 0.1) ORGANIC: Organics with granules; fine sands and fines as the matrix; moist - dark brown 10YR 3/3; horizontal root system; moderately magnetic; debris consists of pieces of plastic bags.
1		0.0	GRAVEL	(0.1 - 3.0) GRAVEL: Cobbles, very coarse gravel, gravel (50%) to granules; with coarse(15%), medium (15%) to fine sand (5%) and fines (< 5%) as the matrix; moist - dark yellowish brown 10YR 3/6 / dry - yellowish brown 10YR 5/4 ; poorly sorted; angular to subrounded; moderate magnetism; debris consists of pieces of plastic bags.
2		0.0		
3		0.0	DEBRIS/ RUBBISH	(3.0 - 9.0) DEBRIS/ RUBBISH: Debris consists of plastic bags, plastic bottles, glass bottles, metal scraps and plastics. Soil consists of gravel (35%); coarse sand (30%); medium sand (15%); with fine sand (18%) and fines (<2%) as the matrix; moist - brown 10YR 4/3 / dry - brownish yellow 10YR 6/6; well sorted; slightly magnetic. Rock refusal at 9 feet - angular boulders.
4		0.0		
5		0.0		
6		0.0		
7		0.0		
8		0.0		
9				

Notes: bgs: below ground surface MSL: Mean Sea Level PID: Phot-ionization Detector

Date: 10/6/2008

TEST PIT LOG

TRENCH NO.: **CMI-TP08**

TOTAL DEPTH: **14** **feet bgs**

PROJECT INFORMATION

CLIENT:	**Ford Motor Company**
PROJECT NO:	**NJ000604.0021**
SITE LOCATION:	**Ringwood, NJ**
GEOLOGIST:	**Christin Cifelli**
DATE STARTED:	**11/2/07**
DATE COMPLETED:	**11/2/07**

SAMPLING INFORMATION

CONTRACTOR:	**Compass Environmental**
OPERATOR:	**Jeff Schalkoff**
METHOD:	**DEERE 270C**
LENGTH AND WIDTH:	**19 x 6.5 feet**

DEPTH (feet)	Lithology Symbol	PID 10.6 eV (ppm)	STRATIGRAPHIC UNITS	SOIL DESCRIPTION
0 - 1		0.0	ORGANIC	(0.0 - 0.1) ORGANIC: Organics; granules and coarse sand with fines as the matrix; moist - dark brown 10YR 3/3; poorly sorted; slightly magnetic.
1 - 2		0.0	GRAVEL	(0.1 - 2.0) GRAVEL: Cobbles; very coarse gravel; medium to fine gravel with medium to fine sand and fines as the matrix; moist - brown 10YR 4/3; poorly sorted; angular cobbles, subrounded v. c. gravel; horizontal root systems; moderately magnetic; debris consists of plastic bags, glass bottles, newspaper, bricks and aluminum cans.
2 - 3		0.0	DEBRIS/ RUBBISH	(2.0 - 13.0) DEBRIS/ RUBBISH: Debris consists of plastic bags, glass bottles, plastic bottles, deteriorated drum, tires, thread spools, bricks, aluminum cans and plastic jugs.
3 - 4		0.0		
4 - 5		0.0		
5 - 6		0.0		
6 - 7		0.0		
7 - 8		0.0		
8 - 9		0.0		
9 - 10		0.0		
10 - 11		0.0		
11 - 12		0.0		
12 - 13		0.0		
13 - 14		0.0	COBBLES	(13.0 - 14.0) COBBLES: Cobbles and medium gravel with fines as the matrix; moist - grey 10YR 5/1; poorly sorted; slightly magnetic ; debris consists of rusted drum remnant.

Notes: bgs: below ground surface MSL: Mean Sea Level PID: Phot-ionization Detector

Date: 10/6/2008
Page: 1 of 1

TEST PIT LOG

TRENCH NO.: **CMI-TP08**

TOTAL DEPTH: **14** **feet bgs**

PROJECT INFORMATION

CLIENT:	**Ford Motor Company**
PROJECT NO:	**NJ000604.0021**
SITE LOCATION:	**Ringwood, NJ**
GEOLOGIST:	**Christin Cifelli**
DATE STARTED:	**11/2/07**
DATE COMPLETED:	**11/2/07**

SAMPLING INFORMATION

CONTRACTOR:	**Compass Environmental**
OPERATOR:	**Jeff Schalkoff**
METHOD:	**DEERE 270C**
LENGTH AND WIDTH:	**19 x 6.5 feet**

DEPTH (feet)	Lithology Symbol	PID 10.6 eV (ppm)	STRATIGRAPHIC UNITS	SOIL DESCRIPTION
0		0.0	ORGANIC	(0.0 - 0.1) ORGANIC: Organics; granules and coarse sand with fines as the matrix; moist - dark brown 10YR 3/3; poorly sorted; slightly magnetic.
1		0.0	GRAVEL	(0.1 - 2.0) GRAVEL: Cobbles; very coarse gravel; medium to fine gravel with medium to fine sand and fines as the matrix; moist - brown 10YR 4/3; poorly sorted; angular cobbles, subrounded v. c. gravel; horizontal root systems; moderately magnetic; debris consists of plastic bags, glass bottles, newspaper, bricks and aluminum cans.
2		0.0	DEBRIS/ RUBBISH	(2.0 - 13.0) DEBRIS/ RUBBISH: Debris consists of plastic bags, glass bottles, plastic bottles, deteriorated drum, tires, thread spools, bricks, aluminum cans and plastic jugs.
3		0.0		
4		0.0		
5		0.0		
6		0.0		
7		0.0		
8		0.0		
9		0.0		
10		0.0		
11		0.0		
12		0.0		
13		0.0	COBBLES	(13.0 - 14.0) COBBLES: Cobbles and medium gravel with fines as the matrix; moist - grey 10YR 5/1; poorly sorted; slightly magnetic ; debris consists of rusted drum remnant.
14				

Notes: bgs: below ground surface MSL: Mean Sea Level PID: Phot-ionization Detector

Date: 10/6/2008
Page: 1 of 1

TEST PIT LOG

TRENCH NO.: **CMI-TP09**

TOTAL DEPTH: **15** **feet bgs**

PROJECT INFORMATION

CLIENT:	**Ford Motor Company**
PROJECT NO:	**NJ000604.0021**
SITE LOCATION:	**Ringwood, NJ**
GEOLOGIST:	**Christin Cifelli**
DATE STARTED:	**11/2/07**
DATE COMPLETED:	**11/2/07**

SAMPLING INFORMATION

CONTRACTOR:	**Compass Environmental**
OPERATOR:	**Jeff Schalkoff**
METHOD:	**DEERE 270C**
LENGTH AND WIDTH:	**30.5 x 6 feet**

DEPTH (feet)	Lithology Symbol	PID 10.6 eV (ppm)	STRATIGRAPHIC UNITS	SOIL DESCRIPTION
0		0.0	ORGANIC	(0.0 - 3.5) ORGANIC: Organics; medium gravel with fine sand and fines as the matrix; moist - dark brown 10YR 3/3; poorly sorted; subrounded; horizontal roots; slightly magnetic.
1		0.0		
2		0.0		
3		0.0		
4		0.0	DEBRIS/ RUBBISH	(3.5 - 6.0) DEBRIS/ RUBBISH: Debris consists of plastic bags, thread spools, glass bottles, cans, tires and newspapers.
5		0.0		
6		0.0	GRAVEL AND SAND	(6.0 - 7.0) GRAVEL AND SAND: Very coarse gravel with medium to fine sand as the matrix; moist - brown 10YR 4/3; moderately magnetic; debris consists of drum remnant, metal cans, plastic, bricks, spools of thread, plastic bottles, plastic bags and tires.
7		0.0	DEBRIS/ RUBBISH	(7.0 - 15.0) DEBRIS/ RUBBISH: Debris consists of plastic bags, thread spools, glass bottles, cans, tires, newspapers and household paint cans. Soil consists of cobbles, very coarse to fine gravel, granules with very coarse to fine sand as the matrix; trace fines; moist - grey 10YR 5/1; moderately magnetic.
8		0.0		
9		50.0		
10		100.0		
11		140.0		
12		0.0		
13		0.0		
14		0.0		
15				

Notes: bgs: below ground surface MSL: Mean Sea Level PID: Phot-ionization Detector

R2-0005462

TEST PIT LOG

TRENCH NO.: **CMI-TP10**

TOTAL DEPTH: **14** **feet bgs**

PROJECT INFORMATION

CLIENT:	**Ford Motor Company**
PROJECT NO:	**NJ000604.0021**
SITE LOCATION:	**Ringwood, NJ**
GEOLOGIST:	**Christin Cifelli**
DATE STARTED:	**11/2/07**
DATE COMPLETED:	**11/2/07**

SAMPLING INFORMATION

CONTRACTOR:	**Compass Environmental**
OPERATOR:	**Jeff Schalkoff**
METHOD:	**Excavator 270C**
LENGTH AND WIDTH:	**19 x 6 feet**

DEPTH (feet)	Lithology Symbol	PID 10.6 eV (ppm)	STRATIGRAPHIC UNITS	SOIL DESCRIPTION
0		0.0	ORGANIC	(0.0 - 0.5) ORGANIC: Organic; fine sand and fines as the matrix; moist - dark brown 10YR 3/3; horizontal roots; slightly magnetic.
1		0.0	GRAVEL AND SAND	(0.5 - 5.0) GRAVEL AND SAND: Boulders, cobbles; very coarse gravel and granules with coarse sand; medium to fine sand and fines as the matrix; moist - brown 10YR 4/3; poorly sorted; subrounded and angular; moderately magnetic; debris consists of drum remnant.
2		0.0		
3		0.0		
4		0.0		
5		0.0	DEBRIS/ RUBBISH	(5.0 - 11.0) DEBRIS/ RUBBISH: Debris consists of plastic bags, glass bottles, lumber, newspaper, plastic cups, tires and plastic bottles. Soil consists of coarse sand and granules with fine to medium sand and fines as the matrix; moist - brown 10YR 4/3.
6		10.0		
7		0.0		
8		0.0		
9		0.0		
10		0.0		
11		0.0	DEBRIS/ RUBBISH	(11.0 - 14.0) DEBRIS/ RUBBISH: Debris consists of cloth, plastic bags, glass bottles, plastic cups, and plastic bottles. Soil consists of boulders, cobbles, very coarse to fine gravel mixed with medium to fine sand and fines as a matrix ; moist - grey 10YR 5/1; poorly sorted; moderately magnetic.
12		0.0		
13		0.0		
14				

Notes: bgs: below ground surface MSL: Mean Sea Level PID: Phot-ionization Detector

Date: 10/6/2008

TEST PIT LOG

TRENCH NO.: **CMI-TP11**

TOTAL DEPTH: **12** **feet bgs**

PROJECT INFORMATION

CLIENT:	**Ford Motor Company**
PROJECT NO:	**NJ000604.0021**
SITE LOCATION:	**Ringwood, NJ**
GEOLOGIST:	**Christin Cifelli**
DATE STARTED:	**11/2/07**
DATE COMPLETED:	**11/2/07**

SAMPLING INFORMATION

CONTRACTOR:	**Compass Environmental**
OPERATOR:	**Jeff Schalkoff**
METHOD:	**Excavator 270C**
LENGTH AND WIDTH:	**28 x 6 feet**

DEPTH (feet)	Lithology Symbol	PID 10.6 eV (ppm)	STRATIGRAPHIC UNITS	SOIL DESCRIPTION
0		0.0	ORGANIC	(0.0 - 0.5) ORGANIC: Organics; fine sand with fines as the matrix; moist - dark brown 10YR 3/3; horizontal roots; slightly magnetic; debris consists of pieces of plastic bags.
1		0.0	DEBRIS/ RUBBISH	(0.5 - 5.0) DEBRIS/ RUBBISH: Debris consists of plastic bags, metal debris, glass bottles, carpeting and lumber. Soil consists of boulders, cobbles; very coarse gravel and granules with coarse to fine sand and fines as the matrix; moist - brown 10YR 4/3; poorly sorted; angular to subrounded; slight to moderately magnetic.
2		0.0		
3		0.0		
4		0.0		
5		0.0	GRAVEL AND SAND	(5.0 - 10.0) GRAVEL AND SAND: Medium gravel and very coarse sand with fine to very fine sand as the matrix; mine tailings mixed in; moderately magnetic. Debris consists of lumber.
6		0.0		
7		0.0		
8		0.0		
9		0.0		
10		0.0	MINE TAILINGS/ FILL SOIL	(10.0 - 12.0) MINE TAILINGS/ FILL SOIL: Medium gravel and very coarse sand with fine to very fine sand and fines as the matrix; moist - grey 10YR 5/1; poorly sorted; mixed with mine tailings; highly magnetic. Rock refusal at 12 feet.
11		0.0		
12				

Notes: bgs: below ground surface MSL: Mean Sea Level PID: Phot-ionization Detector

Date: 10/6/2008

TEST PIT LOG

TRENCH NO.: **CMI-TP12**

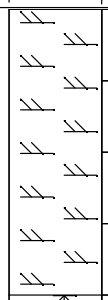
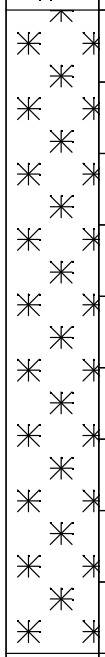
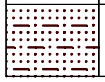
TOTAL DEPTH: **14** **feet bgs**

PROJECT INFORMATION

CLIENT:	**Ford Motor Company**
PROJECT NO:	**NJ000604.0021**
SITE LOCATION:	**Ringwood, NJ**
GEOLOGIST:	**Christin Cifelli**
DATE STARTED:	**11/5/07**
DATE COMPLETED:	**11/5/07**

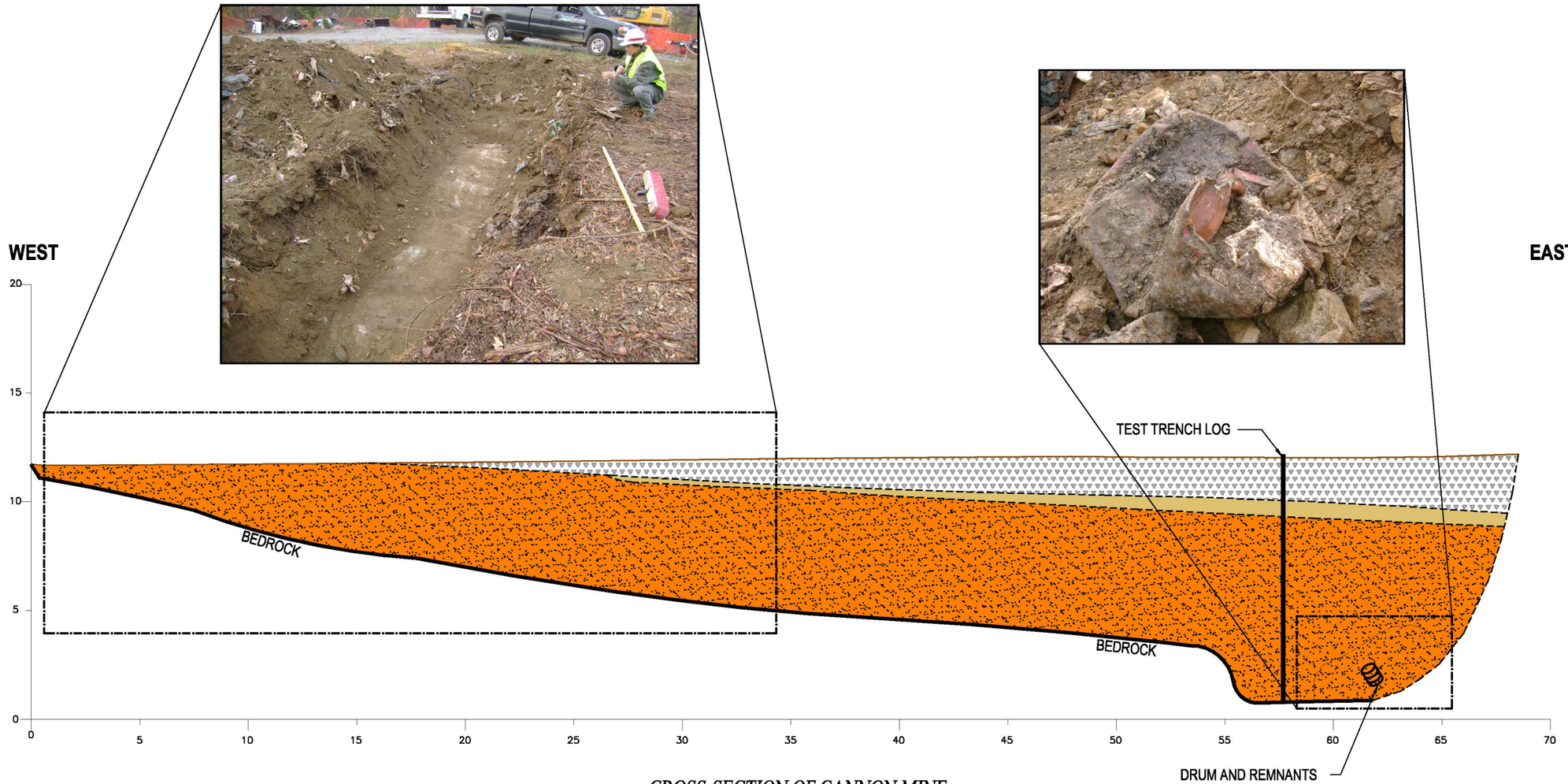
SAMPLING INFORMATION

CONTRACTOR:	**Compass Environmental**
OPERATOR:	**Jeff Schalkoff**
METHOD:	**DEERE 270C**
LENGTH AND WIDTH:	**17 x 5 feet**

DEPTH (feet)	Lithology Symbol	PID 10.6 eV (ppm)	STRATIGRAPHIC UNITS	SOIL DESCRIPTION
0 – 4		0.0 0.0 0.0 0.0	ORGANIC	(0.0 - 4.0) ORGANIC: Some organics; very coarse gravel to medium gravel (25%); granules with coarse (40%), medium (20%) to fine sand (10%) and fines (<1%) as the matrix; moist- dark yellowish brown 10YR 3/4 / dry - brown 10YR 4/3; poorly sorted; subrounded to subangular; horizontal roots; slightly magnetic.
4 – 13		0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	DEBRIS/ RUBBISH	(4.0 - 13.0) DEBRIS/ RUBBISH: Debris consists of plastic bags, lumber and metal wires. Soil consists of cobbles, very coarse to coarse gravel (10%); granules with coarse sand (35%), medium sand (30%), fine sand (15%) and fines (<5%) as a matrix; few lenses of grey sandy silt/clay, saturated/mottles; moist - grey 10YR 5/1 / dry - grey 10YR6/1; organic odor.
13 – 14		0.0	SAND AND SILT	(13.0 - 14.0) SAND AND SILT: Grey sandy silt/clay mottles, saturated.

Notes: bgs: below ground surface MSL: Mean Sea Level PID: Phot-ionization Detector

Date: 10/6/2008



CROSS-SECTION OF CANNON MINE
AREA CMTP-1

LEGEND:

- GROUND SURFACE
- REFUSAL (ROCK)
- SANDS AND GRAVELS WITH MINE TAILINGS
- SILT (ORGANIC) WITH DEBRIS/RUBBISH
- FILL (COVER) WITH DEBRIS/RUBBISH

NOTE:

DEBRIS: TIRES, PLASTIC, RUBBER, GLASS, WOOD, METAL

Date\Time : Mon, 06 Oct 2008 - 4:38pm
Path\Name : G:\Drafting\RINGWOOD\RAR-RI-SI\Cross Sections 2007\CAD\cannon mine inv\X-SECTIONS.dwg - Layout Tab : CMI FIGURE 1

Acad Version : R17.1s (LMS Tech)
User Name : jrgonzalez

© 2005 ARCADIS G&M, INC.

0 5
VERTICAL SCALE IN FEET
0 5
HORIZONTAL SCALE IN FEET

REV.ISSUED DATE DESCRIPTION

KEYPLAN

ARCADIS

1 International Boulevard
Mahwah, New Jersey 07495-0025
Tel: 201-684-1410 Fax: 201-684-1420
www.arcadis-us.com

PROJECT TITLE

RINGWOOD MINE/CANNON MINE INVESTIGATION

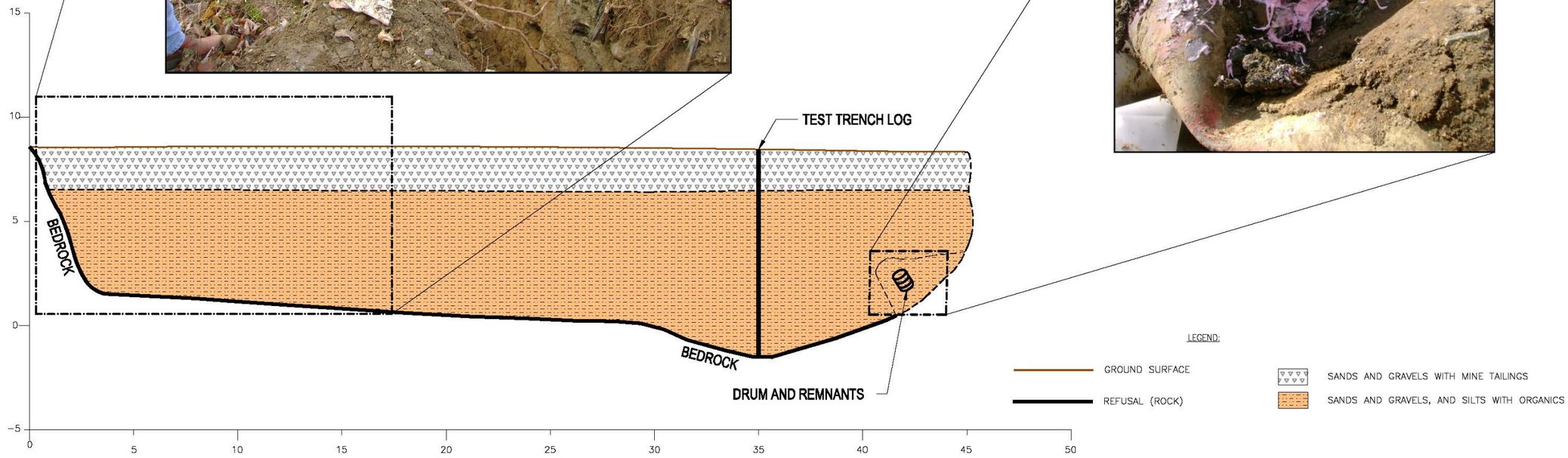
RINGWOOD, NEW JERSEY

PROJECT MANAGER	DEPARTMENT MANAGER	LEAD DESIGN PROF.	CHECKED
E. CARMAN	C. MOTTA	J. SEIER	J. SEIER
SHEET TITLE		TASK/PHASE NUMBER	DRAWN BY
CANNON MINE AREA CONCEPTUAL CROSS SECTION		00001	J. GONZALEZ
		PROJECT NUMBER	DRAWING NUMBER
		NJ000604.0021	1

R2-0005466

SOUTH

NORTH



CROSS-SECTION OF CANNON MINE AREA CMTP-02

NOTE:

DEBRIS: TIRES, PLASTIC, RUBBER, GLASS, WOOD, METAL

Data\Time : Mon, 05 Oct 2009 - 4:35pm
Path\Name : E:\Working\RINGWOOD\VAR-16-51\Cross Sections 2007\CAD\cannon mine inv\X-SECTIONS.dwg - Layout Tab : CMI FIGURE 2
Acad Version : R17.1s (LMS Tech)
User Name : jgonzalez

© 2005 ARCADIS G&M, INC.

0 5
VERTICAL SCALE IN FEET
0 5
HORIZONTAL SCALE IN FEET

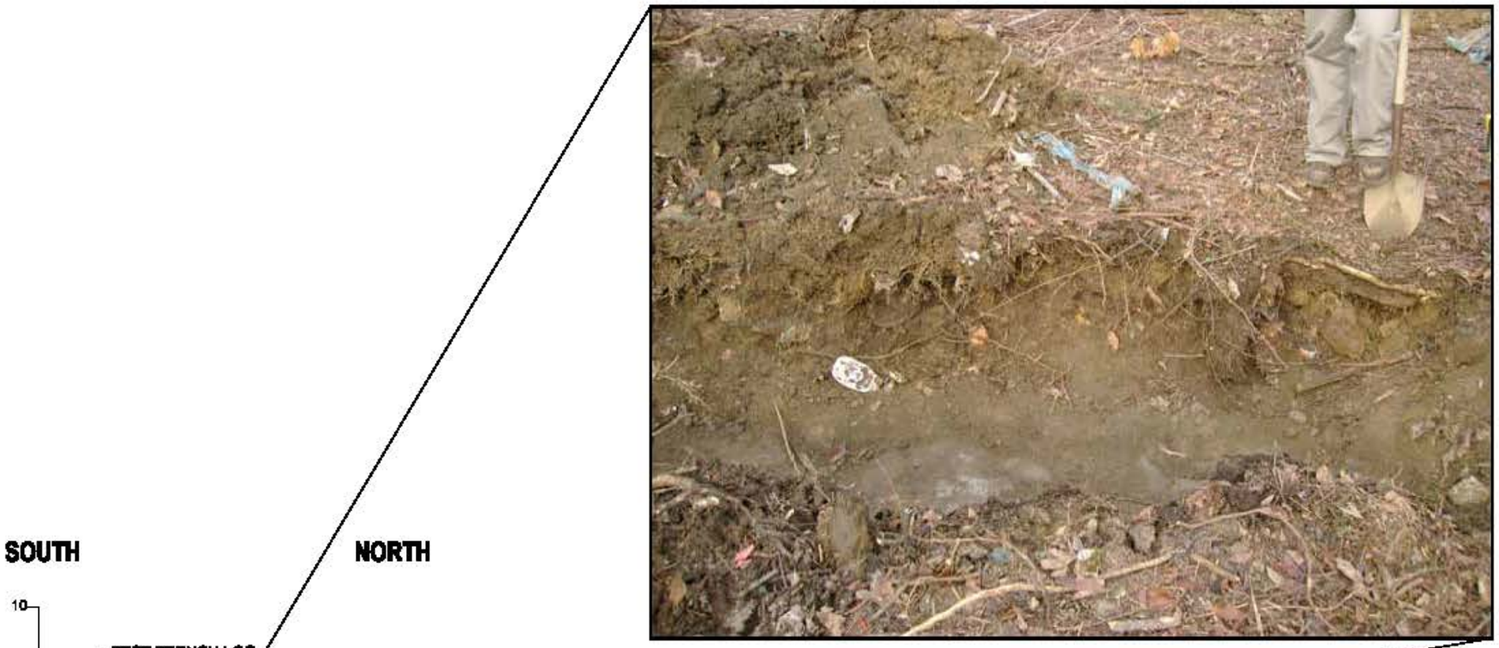
REV.ISSUED DATE DESCRIPTION

KEYPLAN

ARCADIS
1 International Boulevard
Mahwah, New Jersey 07495-0025
Tel: 201-684-1410 Fax: 201-684-1420
www.arcadis-us.com

PROJECT TITLE
RINGWOOD MINE/CANNON MINE INVESTIGATION
RINGWOOD, NEW JERSEY

PROJECT MANAGER	DEPARTMENT MANAGER	LEAD DESIGN PROF.	CHECKED
E. CARMAN	C. MOTTA	J. SEIER	J. SEIER
SHEET TITLE		TASK/PHASE NUMBER	DRAWN BY
CANNON MINE AREA CONCEPTUAL CROSS SECTION		00001	J. GONZALEZ
		PROJECT NUMBER	DRAWING NUMBER
		NJ000604.0021	2



SOUTH NORTH

TEST TRENCH LOG

BEDROCK

10
5
0
0 5 10 15 20

CROSS-SECTION OF CANNON MINE
AREA CMTP-03

LEGEND:

GROUND SURFACE
REFUSAL (ROCK)
SANDS AND GRAVELS WITH MINE TAILINGS
SANDS AND GRAVELS, AND SILTS WITH ORGANICS

NOTE:

DEBRIS: TIRES, PLASTIC, RUBBER, GLASS, WOOD, METAL

© 2005 ARCADIS G&M, INC.

0 5
VERTICAL SCALE IN FEET
0 5
HORIZONTAL SCALE IN FEET

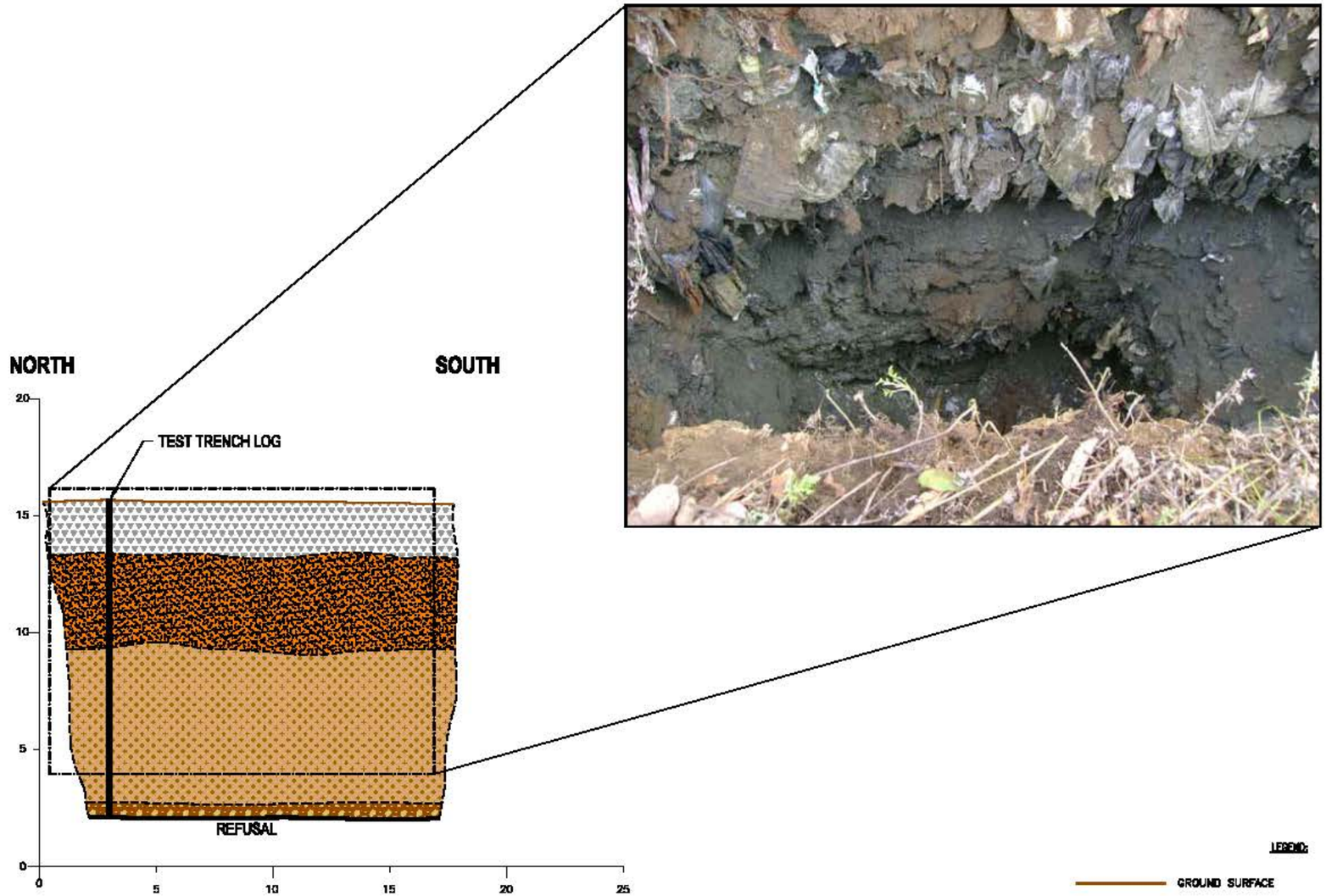
REV. ISSUED DATE DESCRIPTION

KEYPLAN

ARCADIS

PROJECT TITLE
RINGWOOD MINE/CANNON MINE INVESTIGATION
RINGWOOD, NEW JERSEY

PROJECT MANAGER	DEPARTMENT MANAGER	LEAD DESIGN PROF.	CHECKED
E. CARMAN	C. MOTTA	J. SEIER	J. SEIER
SHEET TITLE		TASK/PHASE NUMBER	DRAWN BY
CANNON MINE AREA CONCEPTUAL CROSS SECTION		00001	J. GONZALEZ
		PROJECT NUMBER	DRAWING NUMBER
		NJ000604.0021	3



CROSS-SECTION OF CANNON MINE AREA CMTP-04

LEGEND:

- GROUND SURFACE
- REFUSAL (ROCK)
- SANDS AND GRAVELS WITH MINE TAILINGS
- FILL SOIL MIX WITH MINE TAILING (DEBRIS/RUBBISH)
- FILL (COVER) WITH DEBRIS/RUBBISH
- ORANGE ROCKY FILL

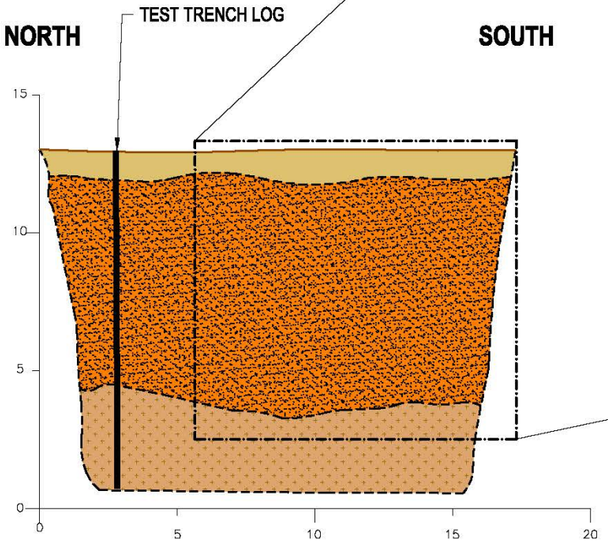
NOTE:

DEBRIS: TIRES, PLASTIC, RUBBER, GLASS, WOOD, METAL

0 5 VERTICAL SCALE IN FEET 0 5 HORIZONTAL SCALE IN FEET	REVISSUED DATE DESCRIPTION	KEYPLAN	ARCADIS 1 International Boulevard Mahwah, New Jersey 07495-0028 Tel: 201-684-1410 Fax: 201-684-1420 www.arcadis-us.com	PROJECT TITLE RINGWOOD MINE/CANNON MINE INVESTIGATION RINGWOOD, NEW JERSEY	PROJECT MANAGER E. CARMAN DEPARTMENT MANAGER C. MOTTA SHEET TITLE CANNON MINE AREA CONCEPTUAL CROSS SECTION	LEAD DESIGN PROF. J. SEIER TASK/PHASE NUMBER 00001 PROJECT NUMBER NJ000604.0021	CHECKED J. SEIER DRAWN BY J. GONZALEZ DRAWING NUMBER 4

© 2005 ARCADIS G&M, INC.

R2-0005469



CROSS-SECTION OF CANNON MINE
AREA CMTP-05

LEGEND:

GROUND SURFACE

FILL SOIL MIX WITH MINE TAILING (DEBRIS/RUBBISH)

FILL (COVER) WITH DEBRIS/RUBBISH

SANDS AND GRAVELS (COVER)

NOTE:

DEBRIS: TIRES, PLASTIC,
RUBBER, GLASS, WOOD, METAL

Date\Time : Wed, 13 Feb 2008 - 1:34pm
Path\Name : G:\Drafting\RINGWOOD\RAR-RI-SI\Cross Sections 2007\CAD\cannon mine inv\X-SECTIONS.dwg - Layout Tab : CMI FIGURE 5

Acad Version : R16.2s (LMS Tech)
User Name : jrgonzalez

© 2005 ARCADIS G&M, INC.

0 5
VERTICAL SCALE IN FEET

0 5
HORIZONTAL SCALE IN FEET

REV.ISSUED DATE DESCRIPTION

KEYPLAN

ARCADIS

1 International Boulevard
Mahwah, New Jersey 07495-0025
Tel: 201-684-1410 Fax: 201-684-1420
www.arcadis-us.com

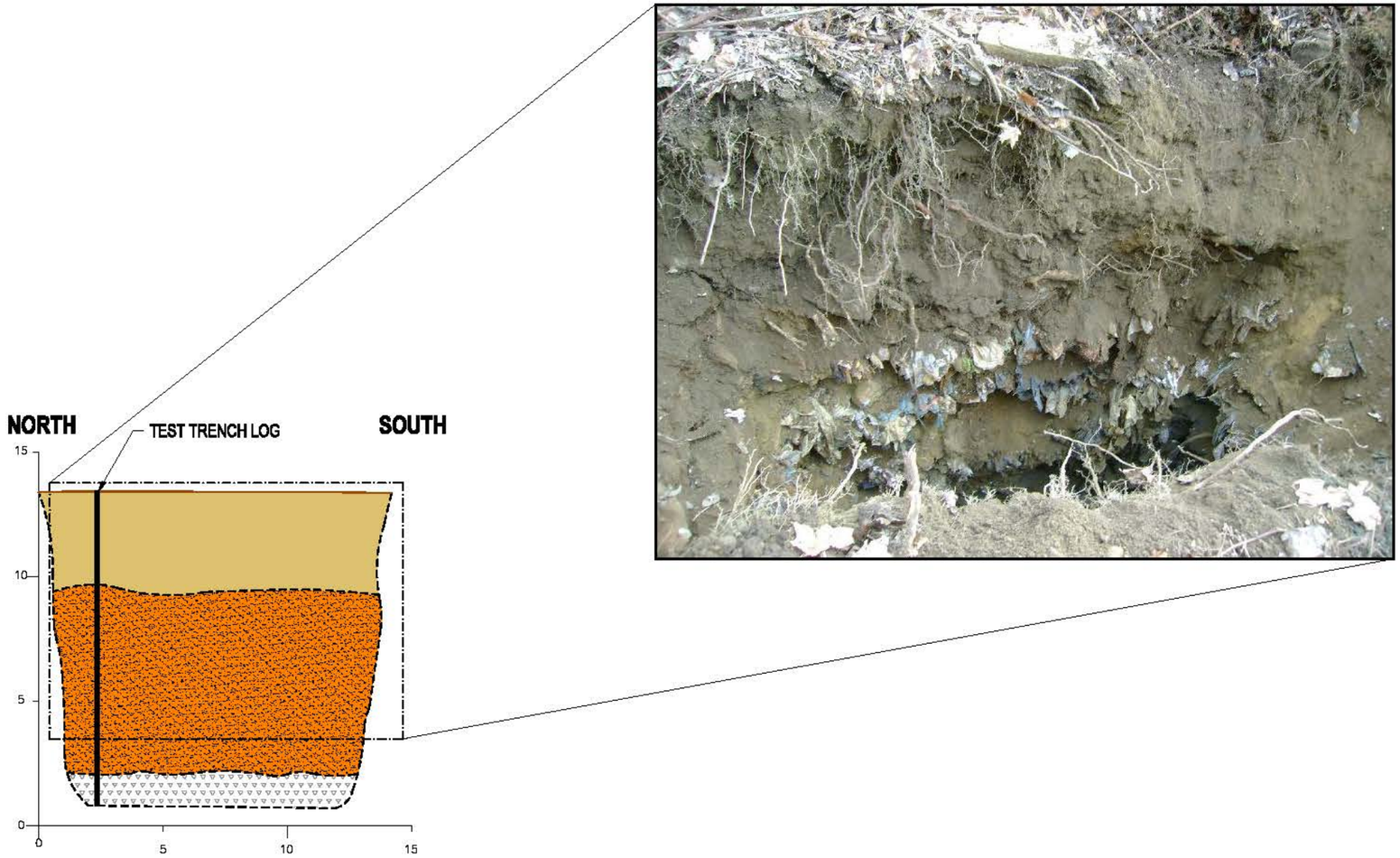
PROJECT TITLE

RINGWOOD MINE/CANNON MINE INVESTIGATION

RINGWOOD, NEW JERSEY

PROJECT MANAGER	DEPARTMENT MANAGER	LEAD DESIGN PROF.	CHECKED
E. CARMAN	C. MOTTA	J. SEIER	J. SEIER
SHEET TITLE		TASK/PHASE NUMBER	DRAWN BY
CANNON MINE AREA CONCEPTUAL CROSS SECTION		00001	J. GONZALEZ
		PROJECT NUMBER	DRAWING NUMBER
		NJ000604.0021	5

R2-0005470



CROSS-SECTION OF CANNON MINE AREA CMTP-06

LEGEND:

GROUND SURFACE

SANDS AND GRAVELS WITH MINE TAILINGS

SANDS AND GRAVELS (COVER)

FILL (COVER) WITH DEBRIS/RUBBISH

NOTE:

DEBRIS: TIRES, PLASTIC, RUBBER, GLASS, WOOD, METAL

Date\Time : Wed, 13 Feb 2008 - 1:34pm
Path\Name : G:\Drafting\RINGWOOD\RAR-RI-SI\Cross Sections 2007\CAD\cannon mine Inv\X-SECTIONS.dwg - Layout Tab : CMI FIGURE 6

Acad Version : R18.2a (LMS Tech)
User Name : jrgonzalez

© 2005 ARCADIS G&M, INC.

0 5 VERTICAL SCALE IN FEET

0 5 HORIZONTAL SCALE IN FEET

REV.ISSUED DATE DESCRIPTION

KEYPLAN

ARCADIS

1 International Boulevard
Mahwah, New Jersey 07495-0025
Tel: 201-684-1410 Fax: 201-684-1420
www.arcadis-us.com

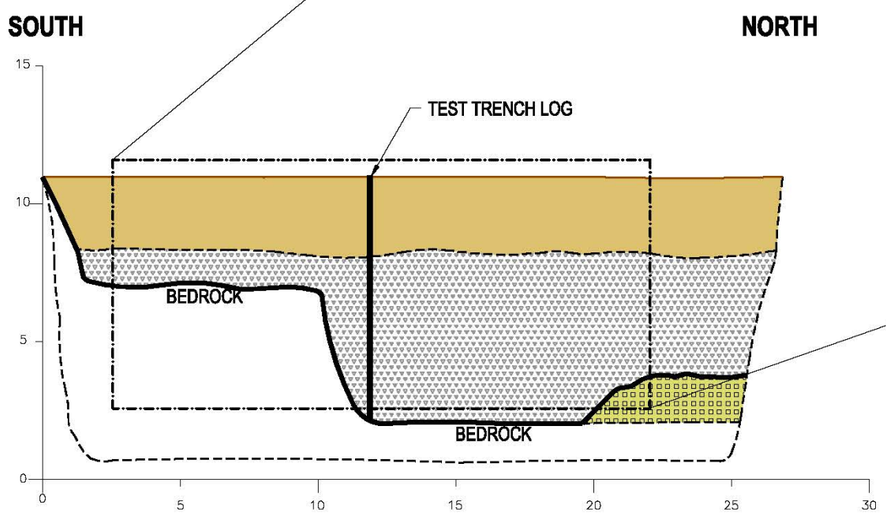
PROJECT TITLE

RINGWOOD MINE/CANNON MINE INVESTIGATION

RINGWOOD, NEW JERSEY

PROJECT MANAGER	DEPARTMENT MANAGER	LEAD DESIGN PROF.	CHECKED
E. CARMAN	C. MOTTA	J. SEIER	J. SEIER
SHEET TITLE		TASK/PHASE NUMBER	DRAWN BY
CANNON MINE AREA CONCEPTUAL CROSS SECTION		00001	J. GONZALEZ
		PROJECT NUMBER	DRAWING NUMBER
		NJ000604.0021	6

R2-0005471



CROSS-SECTION OF CANNON MINE AREA CMTP-07

LEGEND:

- GROUND SURFACE
- REFUSAL (ROCK)
- SANDS AND GRAVELS WITH MINE TAILINGS
- SANDS AND GRAVELS (COVER)
- ANGULAR BOULDERS

NOTE:

DEBRIS: TIRES, PLASTIC, RUBBER, GLASS, WOOD, METAL

Data\Time : Wed, 13 Feb 2008 - 1:34pm
Path\Name : G:\Drafting\RINGWOOD\RAR-RI-SI\Cross Sections 2007\CAD\cannon mine inv\X-SECTIONS.dwg - Layout Tab : CMI FIGURE 7

Acad Version : R16.2s (LMS Tech)
User Name : jgonzalez

© 2005 ARCADIS G&M, INC.

0 5 VERTICAL SCALE IN FEET

0 5 HORIZONTAL SCALE IN FEET

REV.ISSUED DATE DESCRIPTION

KEYPLAN

ARCADIS

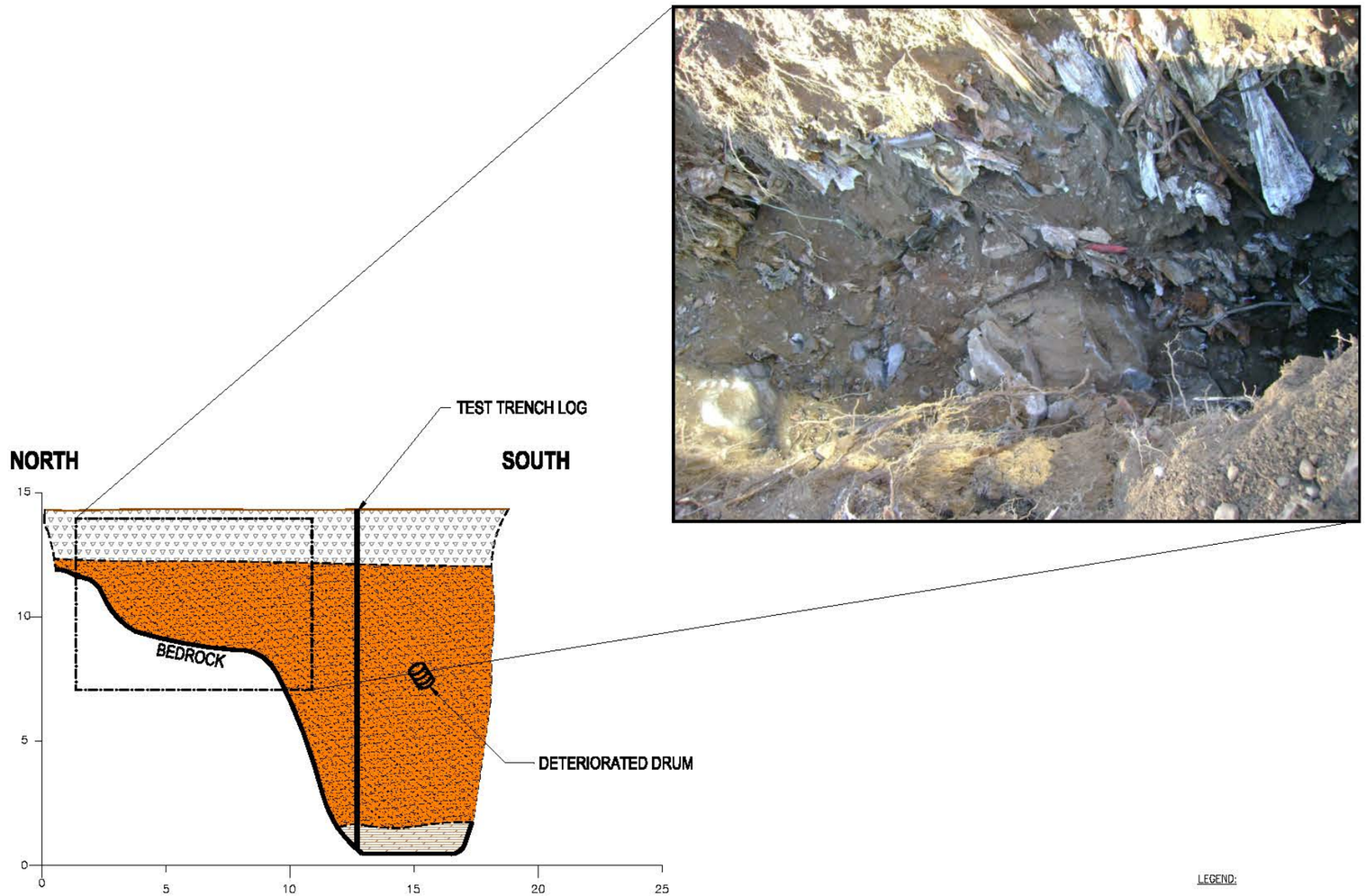
1 International Boulevard
Mahwah, New Jersey 07495-0025
Tel: 201-684-1410 Fax: 201-684-1420
www.arcadis-us.com

PROJECT TITLE

RINGWOOD MINE/CANNON MINE INVESTIGATION

RINGWOOD, NEW JERSEY

PROJECT MANAGER	DEPARTMENT MANAGER	LEAD DESIGN PROF.	CHECKED
E. CARMAN	C. MOTTA	J. SEIER	J. SEIER
SHEET TITLE		TASK/PHASE NUMBER	DRAWN BY
CANNON MINE AREA CONCEPTUAL CROSS SECTION		00001	J. GONZALEZ
		PROJECT NUMBER	DRAWING NUMBER
		NJ000604.0021	7



CROSS-SECTION OF CANNON MINE AREA CMTP-08

LEGEND:

- GROUND SURFACE
- REFUSAL (ROCK)
- SANDS AND GRAVELS WITH MINE TAILINGS
- SANDS AND GRAVELS
- FILL (COVER) WITH DEBRIS/RUBBISH

NOTE:

DEBRIS: TIRES, PLASTIC, RUBBER, GLASS, WOOD, METAL

Date\Time : Wed, 25 Nov 2009 - 11:37am
Path\Name : G:\Drafting\RINGWOOD\RAR-RI-SI\Cross Sections 2007\CAD\cannon mine inv\X-SECTIONS.dwg - Layout Tab : CMI FIGURE 8

Acad Version : R17.1s (LMS Tech)
User Name : jrgonzalez

© 2005 ARCADIS G&M, INC.

0 5 VERTICAL SCALE IN FEET

0 5 HORIZONTAL SCALE IN FEET

REV.ISSUED DATE DESCRIPTION

KEYPLAN

ARCADIS

1 International Boulevard
Mahwah, New Jersey 07495-0025
Tel: 201-684-1410 Fax: 201-684-1420
www.arcadis-us.com

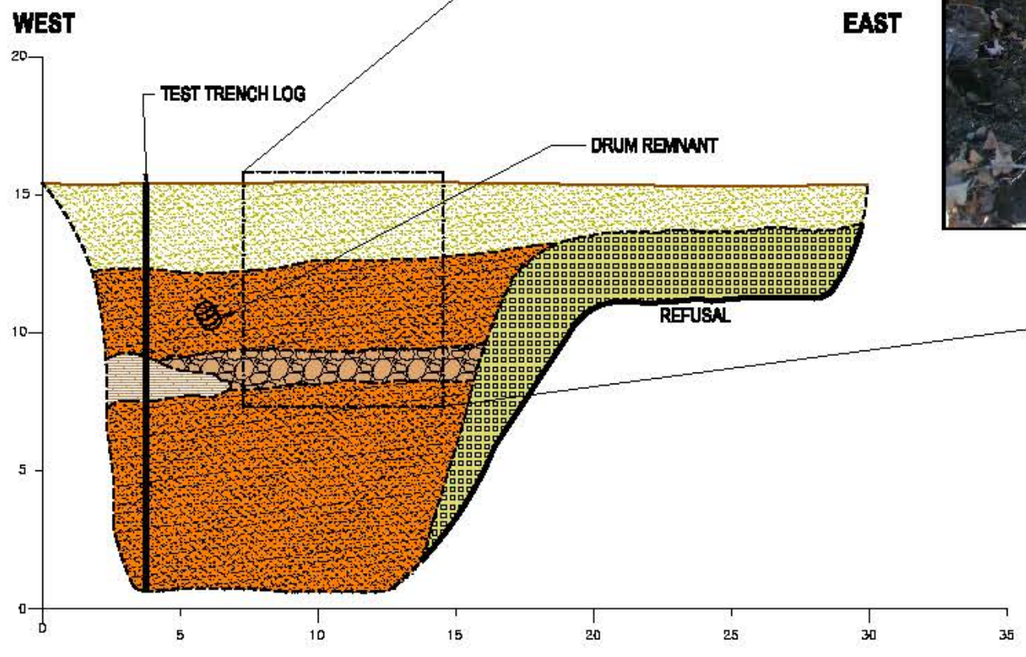
PROJECT TITLE

RINGWOOD MINE/CANNON MINE INVESTIGATION

RINGWOOD, NEW JERSEY

PROJECT MANAGER	DEPARTMENT MANAGER	LEAD DESIGN PROF.	CHECKED
E. CARMAN	C. MOTTA	J. SEIER	J. SEIER
SHEET TITLE		TASK/PHASE NUMBER	DRAWN BY
CANNON MINE AREA CONCEPTUAL CROSS SECTION		00001	J. GONZALEZ
		PROJECT NUMBER	DRAWING NUMBER
		NJ000604.0021	8

R2-0005473



CROSS-SECTION OF CANNON MINE AREA CMTP-09

LEGEND:

- GROUND SURFACE
- REFUSAL (ROCK)
- SILT (ORGANIC) WITH DEBRIS/RUBBISH
- SANDS AND GRAVELS WITH MINE TAILINGS
- SANDS AND GRAVELS (COVER)
- FILL (COVER) WITH DEBRIS/RUBBISH
- ANGULAR BOULDERS
- BOULDERS (COVER)

NOTE:

DEBRIS: TIRES, PLASTIC, RUBBER, GLASS, WOOD, METAL

©2005 ARCADIS G&M, INC.

0 5
VERTICAL SCALE IN FEET

0 5
HORIZONTAL SCALE IN FEET

REV/ISSUED DATE/DESCRIPTION

KEYPLAN

ARCADIS
1 International Boulevard
Mahwah, New Jersey 07495-0035
Tel: 201-684-1410 Fax: 201-684-1420
www.arcadis-us.com

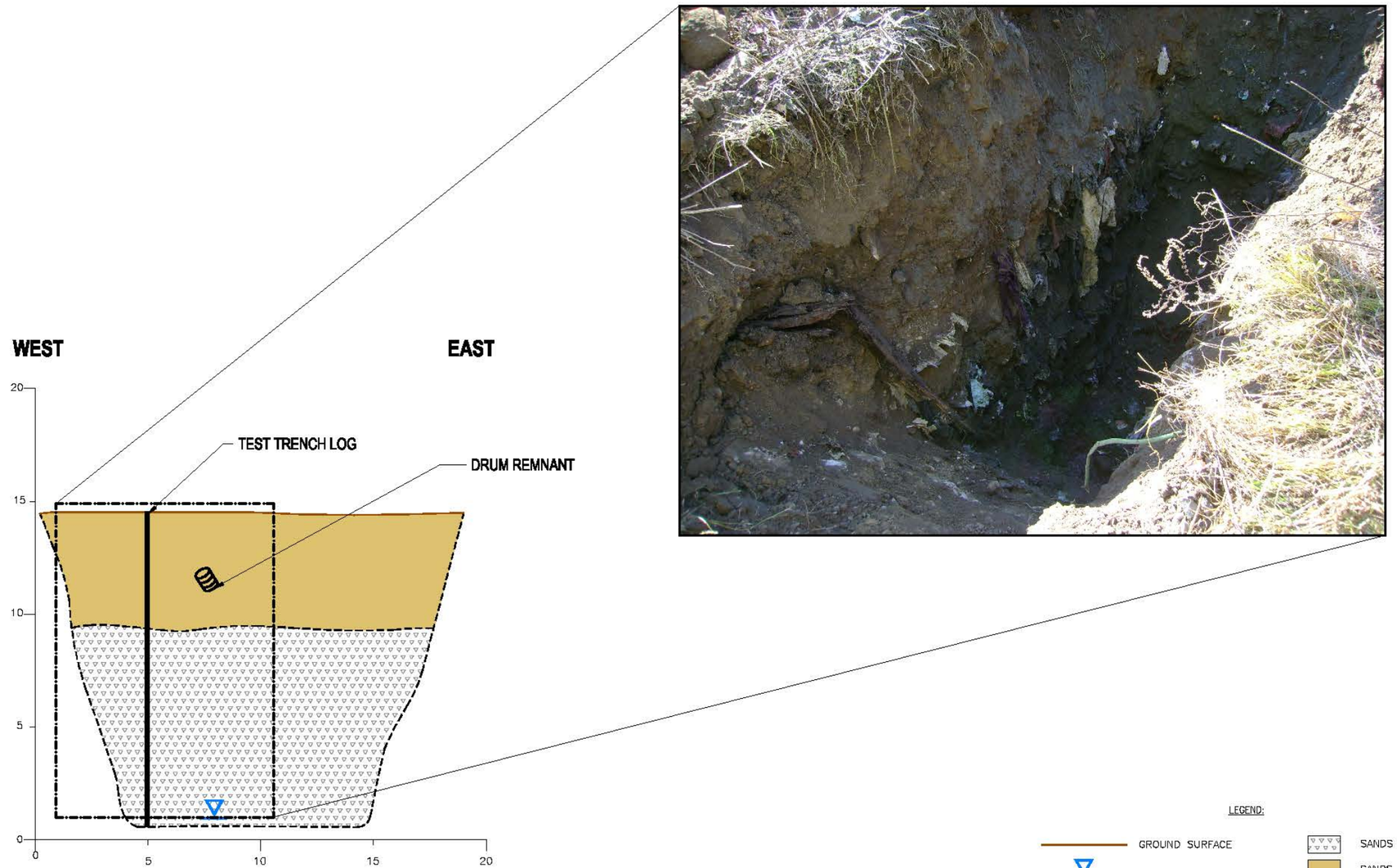
PROJECT TITLE

RINGWOOD MINE/CANNON MINE INVESTIGATION

RINGWOOD, NEW JERSEY

PROJECT MANAGER	DEPARTMENT MANAGER	LEAD DESIGN PROF.	CHECKED
E. CARNAN	C. MOTTA	J. SEIER	J. SEIER
SHEET TITLE		TASK/PHASE NUMBER	DRAWN BY
CANNON MINE AREA CONCEPTUAL CROSS SECTION		00001	J. GONZALEZ
		PROJECT NUMBER	DRAWING NUMBER
		NJD000604.0021	9

Data/Time : Wed, 25 Nov 2009 - 11:38am
Path/Name : C:\Working\WORKDOT\MAR-09-01\Cross Sections 2007\CAD\cannon mine Inv\X-SECTIONS.dwg - Layout Tab : CM FIGURE 9
Xref Name : ; Xpointer:
Image Name : R7.1s (LMS Tech)



CROSS-SECTION OF CANNON MINE AREA CMTP-10

LEGEND:

GROUND SURFACE

WATER ENCOUNTERED

SANDS AND GRAVELS WITH MINE TAILINGS

SANDS AND GRAVELS (COVER)

NOTE:

DEBRIS: TIRES, PLASTIC, RUBBER, GLASS, WOOD, METAL

Date\Time : Wed, 25 Nov 2009 - 11:39am
Path\Name : G:\Drafting\RINGWOOD\RAR-RI-SI\Cross Sections 2007\CAD\cannon mine inv\X-SECTIONS.dwg - Layout Tab : CMI FIGURE 10

Acad Version : R17.1s (LMS Tech)
User Name : jgonzalez

© 2005 ARCADIS G&M, INC.

0 5
VERTICAL SCALE IN FEET

0 5
HORIZONTAL SCALE IN FEET

REV.ISSUED DATE DESCRIPTION

KEYPLAN

ARCADIS

1 International Boulevard
Mahwah, New Jersey 07495-0025
Tel: 201-684-1410 Fax: 201-684-1420
www.arcadis-us.com

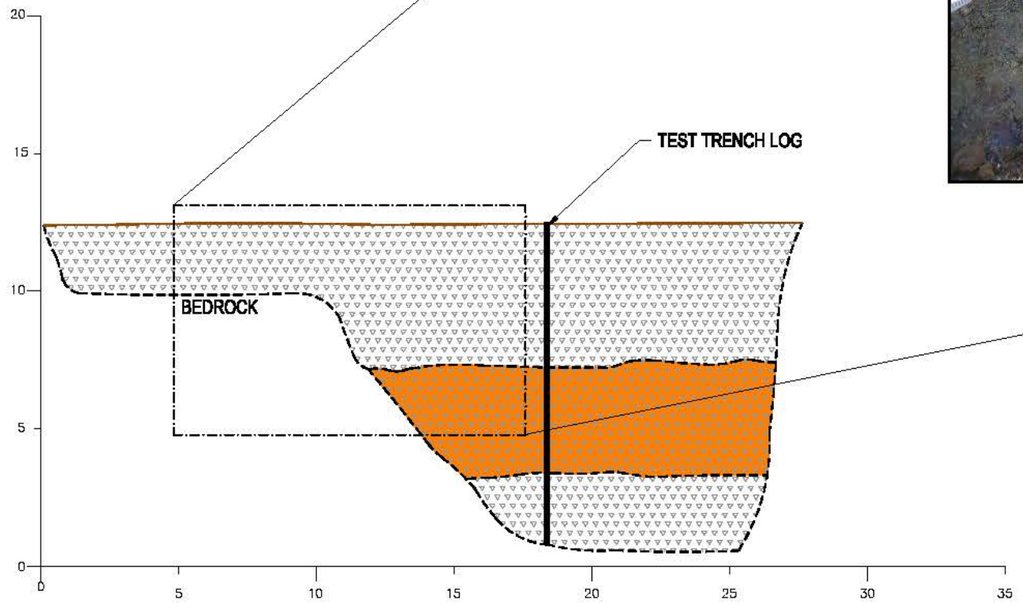
PROJECT TITLE

RINGWOOD MINE/CANNON MINE INVESTIGATION

RINGWOOD, NEW JERSEY

PROJECT MANAGER	DEPARTMENT MANAGER	LEAD DESIGN PROF.	CHECKED
E. CARMAN	C. MOTTA	J. SEIER	J. SEIER
SHEET TITLE		TASK/PHASE NUMBER	DRAWN BY
CANNON MINE AREA CONCEPTUAL CROSS SECTION		00001	J. GONZALEZ
		PROJECT NUMBER	DRAWING NUMBER
		NJ000604.0021	10

R2-0005475



CROSS-SECTION OF CANNON MINE
AREA CMTP-11

LEGEND:

GROUND SURFACE

REFUSAL (ROCK)

SANDS AND GRAVELS WITH MINE TAILINGS

SANDS AND GRAVELS WITH DEBRIS/RUBBISH

NOTE:

DEBRIS: TIRES, PLASTIC, RUBBER, GLASS, WOOD, METAL

Date\Time : Wed, 13 Feb 2008 - 1:34pm
Path\Name : C:\Inetpub\WWWROOT\RAR-RI-SI\Cross Sections 2007\CAD\cannon mine fnr\X-SECTIONS.dwg - Layout Tab : DW FIGURE 11

Acad Version : R15.0s (LMS Tech)
User Name : jgonzalez

©2005 ARCADIS G&M, INC.

VERTICAL SCALE IN FEET
0 5

HORIZONTAL SCALE IN FEET
0 5

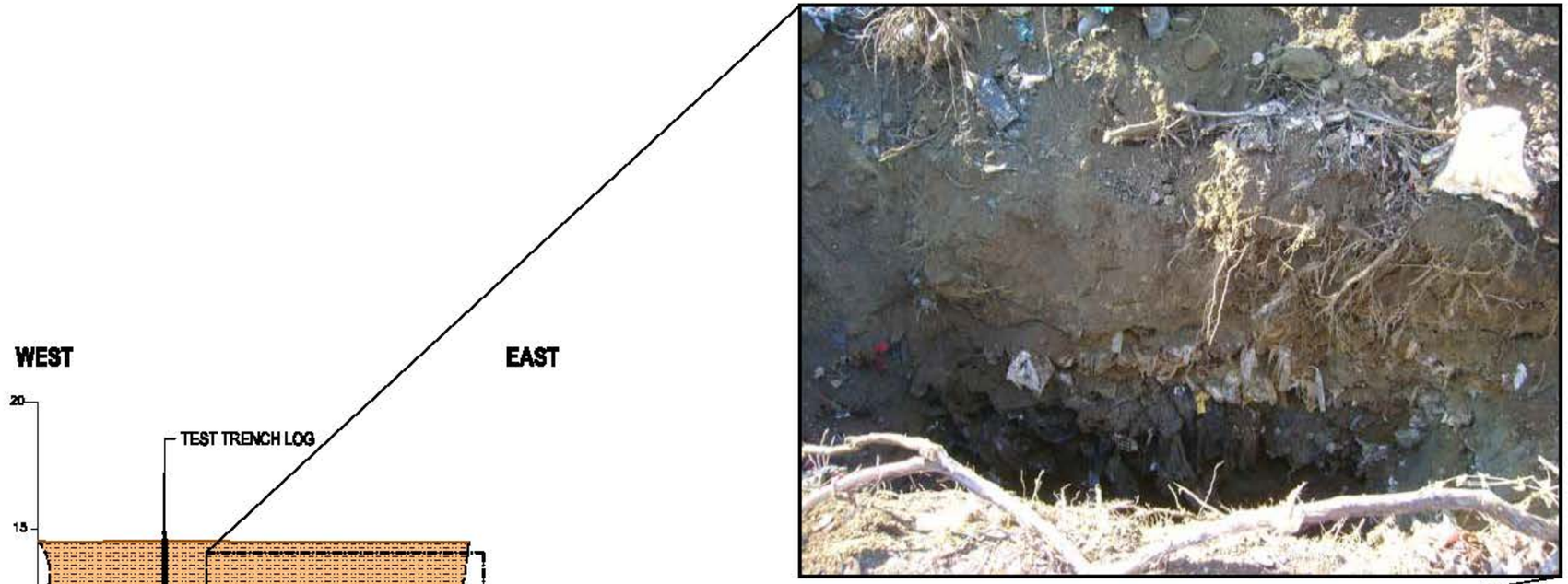
REV. ISSUED DATE DESCRIPTION

KEYPLAN

ARCADIS
1 International Boulevard
Mahwah, New Jersey 07495-0025
Tel: 201-684-1410 Fax: 201-684-1420
www.arcadis-us.com

PROJECT TITLE
RINGWOOD MINE/CANNON MINE INVESTIGATION
RINGWOOD, NEW JERSEY

PROJECT MANAGER	DEPARTMENT MANAGER	LEAD DESIGN PROF.	CHECKED
E. CARMAN	C. MOTTA	J. SEIER	J. SEIER
SHEET TITLE		TASK/PHASE NUMBER	DRAWN BY
CANNON MINE AREA CONCEPTUAL CROSS SECTION		00001	J. GONZALEZ
		PROJECT NUMBER	DRAWING NUMBER
		NJ000604.0021	11



CROSS-SECTION OF CANNON MINE
AREA CMTP-12

LEGEND:

GROUND SURFACE

SILT (ORGANIC) WITH DEBRIS/RUBBISH

SANDS AND GRAVELS WITH MINE TAILINGS

SANDS AND GRAVELS, AND SILTS WITH ORGANICS

NOTE:

DEBRIS: TIRES, PLASTIC, RUBBER, GLASS, WOOD, METAL.

0 5
VERTICAL SCALE IN FEET
0 5
HORIZONTAL SCALE IN FEET

REV/ISSUED DATE DESCRIPTION

KEYPLAN

ARCADIS

PROJECT TITLE
RINGWOOD MINE/CANNON MINE INVESTIGATION
RINGWOOD, NEW JERSEY

PROJECT MANAGER	DEPARTMENT MANAGER	LEAD DESIGN PROF.	CHECKED
E. CARMAN	C. MOTTA	J. SEIER	J. SEIER
SHEET TITLE		TASK/PHASE NUMBER	DRAWN BY
CANNON MINE AREA CONCEPTUAL CROSS SECTION		00001	J. GONZALEZ
		PROJECT NUMBER	DRAWING NUMBER
		NJ000604.0021	12

R2-0005477

ARCADIS

Appendix D

Drum Logs and Photographs

ARCADIS

Drum Inventory Log Sheet

Project Number: NJ000604.0021 **Project Name:** Ringwood

Date: 11/6/2007 **Time:** 10:55

CANNON MINE AREA - TP-01

Drum Inspected by:	Drum Identification No.:	Drum General Description
Paul Bracken & Vincenzo Romagnuolo	CMA-DM1-OP1	Partially Intact/ Mostly Crushed

Drum Exterior Description

Identification Label Present (Yes or No) (If Yes provide Information):
No identification on drum

Color:	Rust & Red	**General Information:**
Size:	55 gallon	Drum was mostly crushed, with no visible markings
Exterior PID Reading (ppm):	0.0	

Drum Interior Description

Material Color:	Light Pink to a Cream Color	**General Information:**
Quantity (%)	30%	Moist, doughy-like material with minimal elastic properties. Similar to the material in drum CMA-DM3; Interior of drum PID reading was 8.0 ppm.
Material PID Reading (ppm):	8.0	

Sample Collected By: Vincenzo Romagnuolo

Overpack Drum Information:

Placed in 85 Gallon Overpack Drum #1 "CMA-DM1-OP1"

Additional Information:

Matthew Johnson and Chris Langewisch (H2M Associates) and Ronny Hwee (USACE) were onsite to observe work, and to document the drum and its contents. H2M representatives also collected a sample from the drum. The sample was collected at 11:00am.

Photo #1
CMA-DM1

Photo #2
CMA-DM1

Photo #3
CMA-DM1

Photo #4
CMA-DM1

ARCADIS

Drum Inventory Log Sheet

Project Number: NJ000604.0021 **Project Name:** Ringwood

Date: 11/6/2007 **Time:** 11:30

CANNON MINE AREA - TP-01

Drum Inspected by:	Drum Identification No.:	Drum General Description
Paul Bracken & Vincenzo Romagnuolo	CMA-DM2-OP2	Partially Intact/ Crushed/Mangled

Drum Exterior Description

Identification Label Present (Yes or No) (If Yes provide Information):
No identification on drum

Color:	Rust & Black	**General Information:**
Size:	55 gallon	Heavily damaged and crushed drum
Exterior PID Reading (ppm):	0.0	

Drum Interior Description

Material Color:	Light Orange-ish to Light Brown	**General Information:**
Quantity (%)	5%	Minimal amount of material within the drum. Material was very moist, and had a silty texture. Interior of drum PID reading was 0.0 ppm.
Material PID Reading (ppm):	6.6	

Sample Collected By: Vincenzo Romagnuolo

Overpack Drum Information:

Placed in 85 Gallon Overpack Drum #2 "CMA-DM2-OP2"

Additional Information:

Matthew Johnson and Chris Langewisch (H2M Associates) and Ronny Hwee (USACE) were onsite to observe work, and to document the drum and its contents. H2M representatives also collected a sample from the drum. The sample was collected at 11:40am.

Photo #1
CMA-DM2

Photo #2
CMA-DM2

Photo #3
CMA-DM2

Photo #4
CMA-DM2

ARCADIS

Drum Inventory Log Sheet

Project Number: NJ000604.0021 **Project Name:** Ringwood

Date: 11/6/2007 **Time:** 11:45

CANNON MINE AREA - TP-01

Drum Inspected by:	Drum Identification No.:	Drum General Description
Paul Bracken & Vincenzo Romagnuolo	CMA-DM3-OP3	Partially Intact/ Crushed

Drum Exterior Description

Identification Label Present (Yes or No) (If Yes provide Information):
No identification on drum

Color:	Rust, Red and Black	**General Information:**
Size:	55 gallon	Crushed, no lid, bottom of the drum is intact.
Exterior PID Reading (ppm):	0.0 to 0.6	

Drum Interior Description

Material Color:	Pink	**General Information:**
Quantity (%)	25%	Similar in properties to CMA Drum #1; Dough-like material, but a little more elastic because it was not exposed to the environment as much as CMA Drum #1. Interior of drum PID reading was 16.8 ppm.
Material PID Reading (ppm):	16.8	

Sample Collected By: Vincenzo Romagnuolo

Overpack Drum Information:

Placed in 85 Gallon Overpack Drum #3 "CMA-DM3-OP3"

Additional Information:

Matthew Johnson and Chris Langewisch (H2M Associates) and Ronny Hwee (USACE) were onsite to observe work, and to document the drum and its contents. H2M representatives also collected a sample from the drum. The sample was collected at 11:55am.

Photo #1
CMA-DM3

Photo #2
CMA-DM3

Photo #3
CMA-DM3

Photo #4
CMA-DM3

ARCADIS

Drum Inventory Log Sheet

Project Number: NJ000604.0021 **Project Name:** Ringwood

Date: 11/6/2007 **Time:** 13:15

CANNON MINE AREA - TP-01

Drum Inspected by:	Drum Identification No.:	Drum General Description
Paul Bracken & Vincenzo Romagnuolo	CMA-DM4-OP4	Completely Crushed

Drum Exterior Description

Identification Label Present (Yes or No) (If Yes provide Information):
No identification on drum

Color:	Rust	**General Information:**
Size:	55 gallon	Completely crushed drum, rusted, openings on sides; Interior of the drum had a PID reading of approximately 800 ppm.
Exterior PID Reading (ppm):	0.9 to 1.8	

Drum Interior Description

Material Color:	Black	**General Information:**
Quantity (%)	20%	Black, tar-like, sticky and elastic material
Material PID Reading (ppm):	20.0	

Sample Collected By: Vincenzo Romagnuolo

Overpack Drum Information:

Placed in 85 Gallon Overpack Drum #4 "CMA-DM4-OP4"

Additional Information:

Matthew Johnson and Chris Langewisch (H2M Associates) and Ronny Hwee (USACE) were onsite to observe work, and to document the drum and its contents. H2M representatives also collected a sample from the drum. The sample was collected at 13:40pm.

Photo #1
CMA-DM4

Photo #2
CMA-DM4

Photo #3
CMA-DM4

Photo #4
CMA-DM4

ARCADIS

Drum Inventory Log Sheet

Project Number: NJ000604.0021 **Project Name:** Ringwood

Date: 11/6/2007 **Time:** 13:55

CANNON MINE AREA - TP-01

Drum Inspected by:	Drum Identification No.:	Drum General Description
Paul Bracken & Vincenzo Romagnuolo	CMA-DM5-OP5	Partially Intact/Completely Crushed

Drum Exterior Description

Identification Label Present (Yes or No) (If Yes provide Information):
No identification on drum

Color:	Rust & Black	**General Information:**
Size:	55 gallon	Completely crushed drum
Exterior PID Reading (ppm):	0.0 to 1.1	

Drum Interior Description

Material Color:	Dark Brown to Black	**General Information:**
Quantity (%)	10%	Dark Brown to Black in Color; Rubbery-like, similar to partly dried tar-like material. Interior of drum PID reading was 14.4 ppm.Material similar to the contents in Drum #8.
Material PID Reading (ppm):	14.4	

Sample Collected By: Vincenzo Romagnuolo

Overpack Drum Information:

Placed in 85 Gallon Overpack Drum #5 "CMA-DM5-OP5"

Additional Information:

Matthew Johnson and Chris Langewisch (H2M Associates) and Ronny Hwee (USACE) were onsite to observe work, and to document the drum and its contents. H2M representatives also collected a sample from the drum. The sample was collected at 14:00pm.

Photo #1
CMA-DM5

Photo #2
CMA-DM5

Photo #3
CMA-DM5

Photo #4
CMA-DM5

ARCADIS

Drum Inventory Log Sheet

Project Number: NJ000604.0021 **Project Name:** Ringwood

Date: 11/6/2007 **Time:** 14:15

CANNON MINE AREA - TP-01

Drum Inspected by:	Drum Identification No.:	Drum General Description
Paul Bracken & Vincenzo Romagnuolo	CMA-DM6-OP6	Partially Intact/Crushed

Drum Exterior Description

Identification Label Present (Yes or No) (If Yes provide Information):
No identification on drum

Color:	Rust	**General Information:**
Size:	55 gallon	Crushed drum, with the side of the drum ripped opened. No visible markings on the drum.
Exterior PID Reading (ppm):	1.8	

Drum Interior Description

Material Color:	Dark to Light Grey	**General Information:**
Quantity (%)	20%	Very hard and dry material; Difficult to break up; Interior of drum PID reading was 27.0 ppm.
Material PID Reading (ppm):	3.3	

Sample Collected By: Vincenzo Romagnuolo

Overpack Drum Information:

Placed in 85 Gallon Overpack Drum #6 "CMA-DM6-OP6"

Additional Information:

Matthew Johnson and Chris Langewisch (H2M Associates) and Ronny Hwee (USACE) were onsite to observe work, and to document the drum and its contents. H2M representatives also collected a sample from the drum. The sample was collected at 14:25pm.

Photo #1
CMA-DM6

Photo #2
CMA-DM6

Photo #3
CMA-DM6

Photo #4
CMA-DM6

ARCADIS

Drum Inventory Log Sheet

Project Number: NJ000604.0021 **Project Name:** Ringwood

Date: 11/6/2007 **Time:** 14:40

CANNON MINE AREA - TP-01

Drum Inspected by:	Drum Identification No.:	Drum General Description
Paul Bracken & Vincenzo Romagnuolo	CMA-DM7-OP7	Partially Intact/ Crushed

Drum Exterior Description

Identification Label Present (Yes or No) (If Yes provide Information):
No identification on drum

Color:	Rust	**General Information:**
Size:	55 gallon	Crushed drum, with the sides of the drum ripped opened. No visible markings on the drum
Exterior PID Reading (ppm):	0 to 1.0	

Drum Interior Description

Material Color:	Black	**General Information:**
Quantity (%)	5%	Rubbery and tar-like material; Sticky, Stringy and Gooey; Interior of drum PID reading was 1.1 ppm.
Material PID Reading (ppm):	2.2	

Sample Collected By: Vincenzo Romagnuolo

Overpack Drum Information:

Placed in 85 Gallon Overpack Drum #7 "CMA-DM7-OP7"

Additional Information:

Matthew Johnson and Chris Langewisch (H2M Associates) and Ronny Hwee (USACE) were onsite to observe work, and to document the drum and its contents. H2M representatives also collected a sample from the drum. The sample was collected at 14:50pm. Two (2) miscellaneous drum lids impacted with similiar material were also placed in the overpack drum no. 7.

Photo #1
CMA-DM7

Photo #2
CMA-DM7

Photo #3
CMA-DM7

Photo #4
CMA-DM7

ARCADIS

Drum Inventory Log Sheet

Project Number: NJ000604.0021 **Project Name:** Ringwood

Date: 11/6/2007 **Time:** 15:00

CANNON MINE AREA - TP-01

Drum Inspected by:	Drum Identification No.:	Drum General Description
Paul Bracken & Vincenzo Romagnuolo	CMA-DM8-OP8	Partially Intact/ Crushed

Drum Exterior Description

Identification Label Present (Yes or No) (If Yes provide Information):
Yes. Stencilling is present on the intact drum lid. The stencilling reads "Ford Motor" and "Mahwah" on the lid in black lettering on white background

Color:	Rust; Drum lid white	**General Information:**
Size:	55 gallon	Drum was mostly crushed, the lid was intact. A bung hole is present on the drum lid.
Exterior PID Reading (ppm):	1.2	

Drum Interior Description

Material Color:	Dark Brown to Black	**General Information:**
Quantity (%)	10-15%	Dark Brown to Black in Color; Rubbery-like, similar to partly dried tar-like material. Interior of drum PID reading was 12.8 ppm. Material similar to the contents in Drum #5.
Material PID Reading (ppm):	58.0	

Sample Collected By: Vincenzo Romagnuolo

Overpack Drum Information:

Placed in 85 Gallon Overpack Drum # "CMA-DM8-OP8"

Additional Information:

Matthew Johnson and Chris Langewisch (H2M Associates) and Ronny Hwee (USACE) were onsite to observe work, and to document the drum and its contents. H2M representatives also collected a sample from the drum. The sample was collected at 15:10pm. One (1) miscellaneous drum lid impacted with similiar material were also placed in the overpack drum no. 8.

Photo #1
CMA-DM8

Photo #2
CMA-DM8

Photo #3
CMA-DM8

Photo #4
CMA-DM8

Photo #5
CMA-DM8

Photo #6
CMA-DM8

ARCADIS

Drum Inventory Log Sheet

Project Number: NJ000604.0021 **Project Name:** Ringwood

Date: 11/6/2007 **Time:** 15:15

CANNON MINE AREA - TP-01

Drum Inspected by:	Drum Identification No.:	Drum General Description
Paul Bracken & Vincenzo Romagnuolo	CMA-DM9-OP9	Partially Intact/ Crushed

Drum Exterior Description

Identification Label Present (Yes or No) (If Yes provide Information):
No identification on drum

Color:	Rust	**General Information:**
Size:	55 gallon	Crushed drum with no visible markings.
Exterior PID Reading (ppm):	3.1	

Drum Interior Description

Material Color:	Black	**General Information:**
Quantity (%)	20%	Black material that is putty-like, with a clayey consistency. Interior of drum PID reading was 7.4 ppm. Material similar to the contents in Drum #10.
Material PID Reading (ppm):	7.4	

Sample Collected By: Vincenzo Romagnuolo

Overpack Drum Information:

Placed in 85 Gallon Overpack Drum #9 "CMA-DM9-OP9"

Additional Information:

Matthew Johnson and Chris Langewisch (H2M Associates) and Ronny Hwee (USACE) were onsite to observe work, and to document the drum and its contents. H2M representatives also collected a sample from the drum. The sample was collected at 15:30pm. Three (3) miscellaneous drum lids impacted with similiar material were also placed in the overpack drum no. 9.

Photo #1
CMA-DM9

Photo #2
CMA-DM9

Photo #3
CMA-DM9

Photo #4
CMA-DM9

ARCADIS

Drum Inventory Log Sheet

Project Number: NJ000604.0021 **Project Name:** Ringwood

Date: 11/6/2007 **Time:** 15:35

CANNON MINE AREA - TP-01

Drum Inspected by:	Drum Identification No.:	Drum General Description
Paul Bracken & Vincenzo Romagnuolo	CMA-DM10-OP10	Partially Intact/ Crushed

Drum Exterior Description

Identification Label Present (Yes or No) (If Yes provide Information):
No identification on drum

Color:	Rust and Black	**General Information:**
Size:	55 gallon	Partially crushed drum, the bottom of the drum intact; No visible markings on the drum
Exterior PID Reading (ppm):	0.0	

Drum Interior Description

Material Color:	Black	**General Information:**
Quantity (%)	20%	Black material that is putty-like, with a clayey consistency. Interior of drum PID reading was 0.0 ppm. Material similar to the contents in Drum #9.
Material PID Reading (ppm):	0.0	

Sample Collected By: Vincenzo Romagnuolo

Overpack Drum Information:

Placed in 85 Gallon Overpack Drum #10 "CMA-DM10-OP10"

Additional Information:

Matthew Johnson and Chris Langewisch (H2M Associates) and Ronny Hwee (USACE) were onsite to observe work, and to document the drum and its contents. H2M representatives also collected a sample from the drum. The sample was collected at 1540pm.

Photo #1
CMA-DM10

Photo #2
CMA-DM10

Photo #3
CMA-DM10

Photo #4
CMA-DM10

Table 1. Soil Waste Characterization Results, J76022, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Sample Name	Maximum	Residential	Impact to	CMA-DM1-WC-110607	CMA-DM2-WC-110607	CMA-DM3-WC-110607	CMA-DM4-WC-110607	CMA-DM5-WC-110607	CMA-DM6-WC-110607	CMA-DM7-WC-110607	CMA-DM8-WC-110607	CMA-DM9-WC-110607	CMA-DM10-WC-110607
Drum Identification				Drum #1	Drum #2	Drum #3	Drum #4	Drum #5	Drum #6	Drum #7	Drum #8	Drum #9	Drum #10
Sample Date	TCLP	Direct Contact	Groundwater	11/6/2007	11/6/2007	11/6/2007	11/6/2007	11/6/2007	11/6/2007	11/6/2007	11/6/2007	11/6/2007	11/6/2007
Validation Status	Concentration	Soil Criteria	Soil Criteria	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
VOC - TCLP (mg/L)													
1,1-Dichloroethene	0.7	NS	NS	< 0.0016 J	< 0.0016 J	< 0.0016 J	< 0.0016 J	< 0.0016 J	< 0.0016 J	< 0.0016 J	< 0.0016 J	< 0.0016 J	< 0.0016 J
1,2-Dichloroethane	0.5	NS	NS	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015
1,4-Dichlorobenzene	7.5	NS	NS	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012
2-Butanone (MEK)	200	NS	NS	0.0558	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Benzene	0.5	NS	NS	0.0801	< 0.0011	0.0347	< 0.0011	0.0472	0.0017 J	0.0231	0.223	0.0176	0.302
Carbon tetrachloride	0.5	NS	NS	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015
Chlorobenzene	100	NS	NS	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
Chloroform	6	NS	NS	< 0.0011	< 0.0011	< 0.0011	< 0.0011	0.0107	< 0.0011	0.0143	< 0.0011	< 0.0011	< 0.0011
Tetrachloroethene	0.7	NS	NS	0.0039 J	< 0.0014	0.0052	< 0.0014	0.0064	< 0.0014	0.0037 J	0.0017 J	< 0.0014	0.0093
Trichloroethene	0.5	NS	NS	0.0026 J	< 0.0014	0.0034 J	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014
Vinyl Chloride	0.2	NS	NS	0.0044 J	< 0.0014	0.0078 J	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014
SVOC - TCLP (mg/L)													
1,4-Dichlorobenzene	7.5	NS	NS	< 0.0018	< 0.0018	< 0.0018	< 0.0018	< 0.0018	< 0.0018	< 0.0018	< 0.0018	< 0.0018	< 0.0018
2,4,5-Trichlorophenol	400	NS	NS	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019
2,4,6-Trichlorophenol	2	NS	NS	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2,4-Dinitrotoluene	0.13	NS	NS	< 0.0086	< 0.0086	< 0.0086	< 0.0086	< 0.0086	< 0.0086	< 0.0086	< 0.0086	< 0.0086	< 0.0086
2-Methylphenol	200	NS	NS	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014
3&4-Methylphenol	200	NS	NS	< 0.013	< 0.013	< 0.013	< 0.013	0.0183 J	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Hexachlorobenzene	0.13	NS	NS	< 0.0054	< 0.0054	< 0.0054	< 0.0054	< 0.0054	< 0.0054	< 0.0054	< 0.0054	< 0.0054	< 0.0054
Hexachlorobutadiene	0.5	NS	NS	< 0.0018	< 0.0018	< 0.0018	< 0.0018	< 0.0018	< 0.0018	< 0.0018	< 0.0018	< 0.0018	< 0.0018
Hexachloroethane	3	NS	NS	< 0.0028	< 0.0028	< 0.0028	< 0.0028	< 0.0028	< 0.0028	< 0.0028	< 0.0028	< 0.0028	< 0.0028
Nitrobenzene	2	NS	NS	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042
Pentachlorophenol	100	NS	NS	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019
Pyridine	5	NS	NS	< 0.0064	< 0.0064	< 0.0064	< 0.0064	< 0.0064	< 0.0064	< 0.0064	< 0.0064	< 0.0064	< 0.0064
PCBs (mg/kg)													
PCB 1016	NS	0.49	50	< 0.044	< 0.015	< 0.042	< 0.047	< 0.0068	< 0.009	< 0.055	< 0.062	< 0.007	< 0.05
PCB 1221	NS	0.49	50	< 0.14	< 0.047	< 0.13	< 0.15	< 0.022	< 0.028	< 0.17	< 0.2	< 0.022	< 0.16
PCB 1232	NS	0.49	50	< 0.12	< 0.042	< 0.12	< 0.13	< 0.019	< 0.026	< 0.16	< 0.18	< 0.02	< 0.14
PCB 1242	NS	0.49	50	< 0.073	< 0.025	< 0.071	< 0.079	< 0.011	< 0.015	< 0.091	**0.929**	< 0.012	**0.739**
PCB 1248	NS	0.49	50	< 0.079	< 0.027	< 0.077	< 0.086	0.211 J	< 0.016	< 0.1	< 0.11	0.0615	< 0.09
PCB 1254	NS	0.49	50	< 0.11	< 0.037	< 0.11	< 0.12	0.162	< 0.022	< 0.14	< 0.15	< 0.017	< 0.12
PCB 1260	NS	0.49	50	< 0.046	< 0.016	**3.23**	< 0.05	0.186	< 0.0095	< 0.058	< 0.066	< 0.0074	0.334
Total PCBs	NS	0.49	50	0	0	**3.23**	0	**0.559**	0	0	**0.929**	0.0615	**1.073**
Pesticide/Herbicide TCLP (mg/L)													
Chlordane	NS	NS	NS	< 0.00067	< 0.00067	< 0.00067	< 0.00067	< 0.00067	< 0.00067	< 0.00067	< 0.00067	< 0.00067	< 0.00067
Endrin	0.02	NS	NS	< 0.00003	< 0.00003	< 0.00003	< 0.00003	< 0.00003	< 0.00003	< 0.00003	< 0.00003	< 0.00003	< 0.00003
Heptachlor	0.008	NS	NS	< 0.000026	< 0.000026	< 0.000026	< 0.000026	< 0.000026	< 0.000026	< 0.000026	< 0.000026	< 0.000026	< 0.000026
Heptachlor epoxide	NS	NS	NS	< 0.000015	< 0.000015	< 0.000015	< 0.000015	< 0.000015	< 0.000015	< 0.000015	< 0.000015	< 0.000015	< 0.000015
Lindane	0.4	NS	NS	< 0.000017	< 0.000017	< 0.000017	< 0.000017	< 0.000017	< 0.000017	< 0.000017	< 0.000017	< 0.000017	< 0.000017
Methoxychlor	10	NS	NS	< 0.000068	< 0.000068	< 0.000068	< 0.000068	< 0.000068	< 0.000068	< 0.000068	< 0.000068	< 0.000068	< 0.000068
Toxaphene	0.5	NS	NS	< 0.00094	< 0.00094	< 0.00094	< 0.00094	< 0.00094	< 0.00094	< 0.00094	< 0.00094	< 0.00094	< 0.00094
2,4-D	10	NS	NS	< 0.0033	< 0.0033	< 0.0033	< 0.0033	< 0.0033	< 0.0033	< 0.0033	< 0.0033	< 0.0033	< 0.0033
Silvex	1	NS	NS	< 0.00034	< 0.00034	< 0.00034	< 0.00034	< 0.00034	< 0.00034	< 0.00034	< 0.00034	< 0.00034	< 0.00034
Total Metals - TCLP (mg/L)													
Arsenic	5	NS	NS	0.005 B	0.015 B	< 0.0045	0.0063 B	0.0084 B	0.0085 B	0.0079 B	0.012 B	0.0098 B	0.013 B
Barium	100	NS	NS	0.085 B	456	0.13 B	0.33 B	1.3	0.47 B	1.7	2.2	0.48 B	1
Cadmium	1	NS	NS	< 0.0013	0.0019 B	< 0.0013	< 0.0013	< 0.0013	< 0.0013	0.0029 B	< 0.0013	< 0.0013	0.0062
Chromium	5	NS	NS	0.003 B	0.031	< 0.0008	0.0016 B	0.0022 B	0.01	0.018	< 0.0008	0.0035 B	0.056
Lead	5	NS	NS	24.5	0.11 B	5.9	0.15 B	0.052 B	0.03 B	0.26 B	0.99	0.03 B	0.04 B
Mercury	0.2	NS	NS	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015
Selenium	1	NS	NS	< 0.0062	0.025 B	< 0.0062	< 0.0062	< 0.0062	0.011 B	< 0.0062	< 0.0062	0.0066 B	< 0.0062
Silver	5	NS	NS	< 0.001	0.0012 B	< 0.001	0.0016 B	0.0015 B	< 0.001	< 0.001	< 0.001	0.0011 B	0.0014 B
Other													
Cyanide Reactivity (mg/kg)	NS	NS	NS	< 5.3	< 12	< 5.1	< 5.5	< 5.4	< 7	< 6.3	< 6.8	< 5.5	< 5.5
Sulfide Reactivity (mg/kg)	NS	NS	NS	< 110	< 230	< 100	< 110	< 110	< 140	< 130	< 140	< 110	< 110
pH	NS	NS	NS	7.21	7.9	9.97	7.29	7.68	9.81	8.42	7.62	8.58	9.68
Solids, Percent	NS	NS	NS	94.9	42.8	98	91.8	92.7	70.7	79	73.4	90.8	91.2

All results are reported in milligrams per liter (mg/L), unless otherwise indicated.

mg/kg	Milligrams per kilogram.
<	Not detected.
NA	Not analyzed.
NS	No standard.
PCB	Polychlorinated biphenyls.
VOC	Volatile organic compounds.
SVOC	Semi-volatile organic compounds.
B	Inorganic: Result is between the detection limit and quantification limit.
J	Estimated result.
TCLP	Toxicity characteristic leaching procedure.
	Value is above the Impact to Groundwater Soil Cleanup Criteria threshold value.
Bold	Value is above the Residential Direct Contact Soil Cleanup Criteria threshold value.
	Value is above the Maximum Concentration for TCLP value.

ARCADIS

Appendix E

Soil Boring Logs and Core Photographs

ARCADIS

Appendix E

Sonic Core Photo Log
Cannon Mine Pit
Ringwood Mines/Landfill Site
Ringwood, NJ

Core Photograph from boring CMI-S1 sample collection, 8.5-9.0 feet below ground surface

Core Photograph from boring CM-S2 sample collection, 14.5-15.0 feet below ground surface.

ARCADIS

Appendix E

Sonic Core Photo Log
Cannon Mine Pit
Ringwood Mines/Landfill Site
Ringwood, NJ

Core Photograph from boring CM-S3, 27-37 feet below ground surface

Core Photograph from boring CM-S4, 27-37 feet below ground surface

ARCADIS

Appendix E

Sonic Core Photo Log
Cannon Mine Pit
Ringwood Mines/Landfill Site
Ringwood, NJ

Core Photograph from boring CM-S5, 44-46 feet below ground surface

Core Photograph from boring CM-S6, 27-37 feet below ground surface

SOIL BORING LOG

BORING NO.: **CMI-S1**

TOTAL DEPTH: **37 ft bgs**

ARCADIS

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT NAME:	**Ringwood**	DRILLING CONTRACTOR:	**Boart Longyear**
PROJECT NO:	**NJ000604.0021**	DRILLER:	**Craig Marsh**
SITE LOCATION:	**Ringwood, NJ**	DRILL EQUIP.:	**Rotosonic Drill Rig (SR#126)**
GEOLOGIST:	**Brooke Mason**	SIZE/TYPE OF BIT:	**Carbide Coring Bit**
DATE STARTED:	**12-13-07**	BOREHOLE DIAMETER:	**(6"/4")**
DATE COMPLETED:	**12-13-07**	SAMPLE METHOD:	**Continuous Core**
WEATHER COND.:	**20s, Snow**	PERMIT NO.:	**Default Listing**
		ELEVATION (ft msl):	**560.84**

STATE PLANE COORDINATES (ft): X= **554076.5** Y= **837525.5**

DEPTH (feet)	Lithology Symbol	Sample Name (Sample Depth)	PID 10.6 eV (ppm)	RECOVERY (FT)	STRATIGRAPHIC UNITS	SOIL DESCRIPTION
0			0.0	7	ORGANIC	(0.0 - 0.5) ORGANIC: Organics (wood, ~2" length, and roots); trace (10%) Debris (Aluminum can, clear glass, plastic lining); moist. Dark Brown (7.5YR 3/2).
			0.0		GRAVEL	
2			0.0		DEBRIS/ RUBBISH	(0.5 - 1.0) GRAVEL: Gravel (40%), subangular to subrounded; with Cobbles (30%), subrounded to subangular; trace Granules; trace Sand, Coarse; Fine supported matrix, moist. Dark brown (7.5YR 3/2).
			0.0		FILL SOIL	
			0.0			(1.0 - 2.0) DEBRIS/ RUBBISH: Debris (white plastic, grain material mixed in plastic lining, black cloth, black plastic); Moist. Yellowish Brown (10YR 5/8) and Strong Brown (7.5YR 4/6)
4		CMI-S1(3.5-4.0)	0.0		DEBRIS/ RUBBISH	
			0.0			
			0.0		FILL SOIL	(2.0 - 3.0) FILL SOIL: Cobbles, subangular to subrounded; some Gravel (20%), subrounded to subangular; trace Fines; Clast supported matrix, moist. Yellowish Brown. (10YR 5/4)
			0.0			
6			0.0		DEBRIS/ RUBBISH	
			0.0			(3.0 - 3.5) DEBRIS/ RUBBISH: Debris (Styrafoam, and mostly a hard plastic-pink, white, blue, and green, green glass, plastic toys).
			0.0		DEBRIS/ RUBBISH	
			0.0	10		(3.5 - 4.5) FILL SOIL: Fines; trace Granules, subrounded to subangular; Compact, well-graded, fine supported matrix, moist. Dark Yellowish Brown (10YR 4/4).
8			0.0		DEBRIS/ RUBBISH	
		CMI-S1(8.5-9.0)	0.0		MINE TAILINGS/ FILL SOIL	(4.5 - 5.0) DEBRIS/ RUBBISH: Debris (solid piece of wood/foam/particle board material). Sweet odor when hot from the drill bit. Light Pink to Orange.
			0.0			
10			0.0		MINE CLOSURE BLAST ROCK	(5.0 - 7.0) DEBRIS/ RUBBISH: Debris (Wood, solid piece width of the core barrel). Very Pale Brown (10YR 8/3).
			0.0			
			0.0			(7.0 - 8.5) DEBRIS/ RUBBISH: Debris (Wood, width of the core barrel, plus a few strips of wood, metal pieces from 8-8.4'. Solid wood piece at 8.5 ft); moist. Very Dark Grayish Brown (10YR 3/2)
12			0.0			
			0.0			(8.5 - 10.0) MINE TAILINGS/ FILL SOIL: Fines; trace Sand, Fine to Medium; trace Debris (metal wire); Low plasticity, compact, hard, well-graded, high magnetic response; moist. Very Dark Grayish Brown (10YR 3/2).
			0.0			
14			0.0			(10.0 - 16.0) MINE CLOSURE BLAST ROCK: Fines, pulverized rock. Gray rock flour; high magnetic response; dry. White (10YR 8/1)
			0.0			
			0.0			
16			0.0			
			0.0		MINE CLOSURE BLAST ROCK	(16.0 - 17.0) MINE CLOSURE BLAST ROCK: Fines, pulverized rock. Dark gray rock flour, high magnetic response, moist. Dark Gray (10YR 4/1).
			0.0			(17.0 - 18.0) MINE CLOSURE BLAST ROCK: Cobbles, angular; and Gravel, angular.
18			0.0		MINE CLOSURE BLAST ROCK	(18.0 - 20.0) MINE CLOSURE BLAST ROCK: Rock core, width of core barrel (black and pink, pegmatite). Medium to low magnetic response.
			0.0			

Notes: bgs: below ground surface MSL: Mean Sea Level PID: Phot-ionization Detector

WELL CONSTRUCTION LOG

WELL NO.: **CMI-S1**

TOTAL DEPTH: **37**

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	SAMPLE ID	PID (ppm)	WELL CONSTRUCTION DETAILS
20		0.0 MINE CLOSURE BLAST ROCK			
		0.0 MINE CLOSURE BLAST ROCK			(20.0 - 22.0) MINE CLOSURE BLAST ROCK: Fines, rock flour; Medium magnetic response, light brown.
22	CMI-S1(21.5-22)	0.0 MINE CLOSURE BLAST ROCK			(22.0 - 27.0) MINE CLOSURE BLAST ROCK: Gravel, angular; and Cobbles, angular to subangular.
24		6.5			
26					
28		0.0 MINE CLOSURE BLAST ROCK			(27.0 - 37.0) MINE CLOSURE BLAST ROCK: Gravel, angular; and Cobbles, angular to subangular.
30					
32		5			
34					
36					

Notes: bgs: below ground surface MSL: Mean Sea Level PID: Phot-ionization Detector

R2-0005516

SOIL BORING LOG

BORING NO.: **CMI-S2**

TOTAL DEPTH: **27 ft bgs**

ARCADIS

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT NAME:	**Ringwood**	DRILLING CONTRACTOR:	**Boart Longyear**
PROJECT NO:	**NJ000604.0021**	DRILLER:	**Craig Marsh**
SITE LOCATION:	**Ringwood, NJ**	DRILL EQUIP.:	**Rotosonic Drill Rig (SR#126)**
GEOLOGIST:	**Brooke Mason**	SIZE/TYPE OF BIT:	**Carbide Coring Bit**
DATE STARTED:	**12-12-07**	BOREHOLE DIAMETER:	**(6"/4")**
DATE COMPLETED:	**12-12-07**	SAMPLE METHOD:	**Continuous Core**
WEATHER COND.:	**30s, Cloudy**	PERMIT NO.:	**Default Listing**
		ELEVATION (ft msl):	**563.34**
		STATE PLANE COORDINATES (ft):	X= **553986.6** Y= **837545.4**

DEPTH (feet)	Lithology Symbol	Sample Name (Sample Depth)	PID 10.6 eV (ppm)	RECOVERY (FT)	STRATIGRAPHIC UNITS	SOIL DESCRIPTION
0			0.0	7	ORGANIC	(0.0 - 0.5) ORGANIC: Organics (roots and leaves); some Debris (white ceramics, white plastic, white plastic lining); Moist. Yellowish Brown (10YR 5/4) and Brown (7.5YR 5/4)
			0.0		FINES	
			0.0			
			0.0		DEBRIS/ RUBBISH	(0.5 - 1.5) FINES: Fines; with (15%) Sand, Medium to Fine; trace (10%) Gravel, rounded to subrounded; Fine supported matrix, medium plasticity, no magnetic response, moist. Strong Brown (7.5YR 4/6) and Dark Yellowish Brown (10YR 4/6).
2			0.0			
		CMI-S2(2.5-3.0)	0.0		FILL SOIL	
			0.0			
			0.0		DEBRIS/ RUBBISH	(1.5 - 2.5) DEBRIS/ RUBBISH: Debris (Red plastic piece "Anti boil, anti leak, 1 gal"; newspapers, glass, plastic pieces, plastic piece "warning, insecticide" label, cloth, white and black plastic lining); moist. Strong Brown (7.5YR 4/6) and Brown (7.5YR 4/3)
4			0.0			
			0.0		ORGANIC	
			0.0		FILL SOIL	(2.5 - 3.5) FILL SOIL: Fines; some Sand, Medium to Fine; Compact, dense, high plasticity, moist. Dark Yellowish Brown (10YR 4/6) and Very Dark Grayish Brown (10YR 3/2)
6			0.0			
			0.0		DEBRIS/ RUBBISH	(3.5 - 4.5) DEBRIS/ RUBBISH: Debris (styrafoam bits, newspaper, cloth); moist. Dark Greenish Gray (Gley 1 4/10Y) and Very Dark (10YR 3/2)
			0.0	8	FILL SOIL	(4.5 - 5.0) ORGANIC: Organics (leaves); Black, Dark Purple, mildly decomposed, moist. Greenish Black (Gley 1 2.5/10GY)
8			0.0			
			0.0		DEBRIS/ RUBBISH	(5.0 - 6.0) FILL SOIL: Fines; some Sand, Medium to Fine; Compact, no magnetic response, moist. Dark Greenish Gray (Gley 1 4/5GY and Gley 2 4/10G)
			0.0			
10			0.0		MINE TAILINGS/ FILL SOIL	(6.0 - 6.5) DEBRIS/ RUBBISH: Debris (wood, cigarette butts, metal wire); moist. Very Dark Grayish Brown (10YR 3/2) and Dark Grayish Brown (10YR 4/2)
			0.0			
			0.0			(6.5 - 7.0) FILL SOIL: Granules; and Sand, Coarse to Very Coarse; some Gravel, Coarse, angular to subangular; Clast supported matrix, no magnetic response, moist. Dark Reddish Brown (2.5YR 3/3) and Very Dark Greenish Gray (Gley 1 3/10Y).
12			0.0			
			0.0			
			0.0		SAND	
			0.0			
14			0.0		MINE TAILINGS/ FILL SOIL	(7.0 - 10.0) DEBRIS/ RUBBISH: Debris (glass, cloth, metal, metal wire, wood-from a pallet); some Fines; Moist. Reddish Brown (5YR 5/4)
		CMI-S2(14.5-15)	0.0			
			0.0			(10.0 - 13.0) MINE TAILINGS/ FILL SOIL: Sand, Medium; Well-sorted, Gray, high magnetic response, moist. Mine tailings. Bluish Black (Gley 2 2.5/5PB)
			0.0		SAND	
16			0.0			
			0.0			(13.0 - 14.0) SAND: Sand, Medium to Fine; orange and gray/green; trace Gravel, subrounded; Well-sorted, no magnetic response; moist. Dark Gray (5YR 4/1) and Dark Yelowish Brown (10YR 3/4)
			0.0		SAND	
		CMI-S2(17.5-18)	0.0			
18			0.0		SAND	(14.0 - 15.0) MINE TAILINGS/ FILL SOIL: Sand, Fine to Medium; and Organics (very small pieces of wood, platey structure (like leaves)); Medium to high magnetic response, medium plasticity, very black, smearing black
			0.0		MINE	

Notes: bgs: below ground surface MSL: Mean Sea Level PID: Phot-ionization Detector

WELL CONSTRUCTION LOG

WELL NO.: **CMI-S2**

TOTAL DEPTH: **27**

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	SAMPLE ID	PID (ppm)	WELL CONSTRUCTION DETAILS
20 22 24 26		0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	10	TAILINGS/ FILL SOIL MINE CLOSURE BLAST ROCK MINE CLOSURE BLAST ROCK MINE CLOSURE BLAST ROCK MINE CLOSURE BLAST ROCK	material, moist. Mine Tailings/Fill Soil. Black (10YR 2/1) (15.0 - 17.0) SAND: Sand, Coarse to Very Coarse; trace Gravel, Coarse, subangular, loose; Poorly graded, high magnetic response. Mixed with saprolite 16-17', moist. Dusky Red (10R 3/4) and Yellowish Red (5 YR 5/6). (17.0 - 17.5) SAND: Sand, Fine to Medium; Well -sorted, compact, low magnetic response, dark red, low plasticity, moist. Reddish Brown (2.5YR 2.5/3) (17.5 - 18.0) SAND: Sand, Medium to Coarse; trace Gravel, Fine, subrounded to rounded; No magnetic response, moist. Dark Reddish Brown (2.5YR 2.5/3). (18.0 - 19.0) MINE TAILINGS/ FILL SOIL: Sand, Medium to Coarse; some (30%) Granules; trace (10%) Gravel, Coarse, subrounded to subangular; High magnetic response, moist. Mine Tailings/ Fill Soil. Very Dark Grayish Brown (10YR 3/2) and Dark Grayish Brown (10YR 4/2). (19.0 - 20.0) MINE CLOSURE BLAST ROCK: Fines; and (40%) Cobbles, subrounded to subangular; Rock flour; loose, gray, high magnetic response, dark when wet. Mine closure blast rock. Gray (7.5YR 5/1). 4" Carbide core bit used. (20.0 - 20.5) MINE CLOSURE BLAST ROCK: Fines; Rock flour, gray, dark when wet, high magnetic response. Mine closure blast rock. Very Dark Gray (7.5YR 3/1). 4" Carbide core bit used. (20.5 - 22.0) MINE CLOSURE BLAST ROCK: Fines; rock flour, high magnetic response, dry. Mine closure blast rock. Gray (7.5YR 5/1). 4" Carbide core bit used. (22.0 - 27.0) MINE CLOSURE BLAST ROCK: Rock, diorite. Very hard, high magnetic response, very slow drilling rate. Bands of magnetite, green, gray, pink--plagioclase. 4" Carbide core bit used.

Notes: bgs: below ground surface MSL: Mean Sea Level PID: Phot-ionization Detector

SOIL BORING LOG

BORING NO.: **CMI-S3**

TOTAL DEPTH: **67 ft bgs**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT NAME:	**Ringwood**	DRILLING CONTRACTOR:	**Boart Longyear**
PROJECT NO:	**NJ000604.0021**	DRILLER:	**Craig Marsh**
SITE LOCATION:	**Ringwood, NJ**	DRILL EQUIP.:	**Rotosonic Drill Rig (SR#126)**
GEOLOGIST:	**Brooke Mason**	SIZE/TYPE OF BIT:	**Carbide Coring Bit**
DATE STARTED:	**12-11-07**	BOREHOLE DIAMETER:	**(6"/4")**
DATE COMPLETED:	**12-12-07**	SAMPLE METHOD:	**Continuous Core**
WEATHER COND.:	**40s, Drizzle**	PERMIT NO.:	**Default Listing**
		ELEVATION (ft msl):	**562.05**

STATE PLANE COORDINATES (ft): X= **553998.7** Y= **837610.9**

DEPTH (feet)	Lithology Symbol	Sample Name (Sample Depth)	PID 10.6 eV (ppm)	RECOVERY (FT)	STRATIGRAPHIC UNITS	SOIL DESCRIPTION
0			0.0	6	SAND	(0.0 - 1.0) SAND: Sand, Medium to Coarse, rounded to subrounded; some Gravel, rounded to subrounded; trace (<10%) Organics (root material), no magnetic response.
			0.0		ORGANIC	(1.0 - 1.5) ORGANIC: Organics (wood chips); some (20%) Sand, Medium to Fine; trace Fines; Medium brown, no magnetic response.
2			0.0		FINES	(1.5 - 2.5) FINES: Fines; trace Organics (roots); trace Sand, Fine to Medium; High plasticity, Fines supported matrix, no magnetic response.
			0.0		FILL SOIL	(2.5 - 3.0) FILL SOIL: Sand, Medium to Fine; some Sand, Coarse; trace Gravel (10%), Very Coarse, subrounded to subangular; Medium brown, no magnetic response, high plasticity, moist. Light Reddish Brown (2.5YR 7/4)
			0.0		DEBRIS/ RUBBISH	(3.0 - 3.5) DEBRIS/ RUBBISH: Debris (clear glass, plastic lining, plastic pieces, pink plastic lining at bottom of interval); trace (10%) Sand, Medium to Coarse, moist. Weak Red (2.5YR 4/2)
4			0.0		DEBRIS/ RUBBISH	(3.5 - 4.0) DEBRIS/ RUBBISH: Debris (newspaper, moderately decomposed bright pink color-size of granules-plastic, glass, metal (black/gray)); Sand, Medium to Coarse; some Granules; Compact, moist, no magnetic response. Weak Red (2.5YR 4/2),
			0.0		FILL SOIL	(4.0 - 4.5) FILL SOIL: Sand, Medium to Coarse; Gray/green; trace Debris (plastic/glass/newspaper); little Cobbles, subangular; No magnetic response. Light Red (2.5YR 6/8),
			0.0		FILL SOIL	(4.5 - 5.0) FILL SOIL: Debris (clear plastic lining, brown glass, fabric, wire piece); No magnetic response; moist. Dark Greenish Gray (Gley 1 4/10GY),
6			0.0		FILL SOIL	(5.0 - 5.5) FILL SOIL: Sand, Coarse to Very Coarse; some (2) Cobbles; Gray/loose, well-sorted, low magnetic response. Greenish Gray (Gley 1 6/5GY).
			0.0		FILL SOIL	(5.5 - 6.0) DEBRIS/ RUBBISH: Debris (thin hay-like strips, clear plastic lining, piece of a Schafer can, newspaper, dated Dec. 29, 1971); Moist. Dark Greenish Gray (Gley 1 4/5GY).
		CMI-S3(6.0-6.5)	0.0		DEBRIS/ RUBBISH	(6.0 - 7.0) FILL SOIL: Fines; and Sand, Fine to Medium; some (20-30%) Gravel, Coarse, subrounded to subangular; Fine supported matrix, moist. Greenish Gray (Gley 1 6/5GY)
			0.0		FILL SOIL	(7.0 - 8.0) FILL SOIL: Sand, Medium to Coarse; and Granules; some (20%) Gravel, rounded to subrounded; Moist. Pale Red (2.5YR 6/2).
8			0.0		FILL SOIL	(8.0 - 9.0) FILL SOIL: Sand, Medium to Coarse; and (40%) Gravel, Coarse to Very Coarse; some Debris (white plastic strips, black geotextile-like fabric, white plastic lining); trace Organics (root material); Clast supported matrix, moist. Light Gray (2.5Y 7/1)
			0.0		DEBRIS/ RUBBISH	
			0.0		FILL SOIL	
			0.0		FILL SOIL	
10			0.0		DEBRIS/ RUBBISH	
			0.0		FILL SOIL	
			0.0		FILL SOIL	
			0.0		FILL SOIL	
			0.0		DEBRIS/ RUBBISH	
12			0.0	10	FILL SOIL	
			0.0		DEBRIS/ RUBBISH	
			0.0		DEBRIS/ RUBBISH	
			0.0		DEBRIS/ RUBBISH	
14			0.0		DEBRIS/ RUBBISH	
			0.0		DEBRIS/ RUBBISH	
			0.0		DEBRIS/ RUBBISH	
			0.0		DEBRIS/ RUBBISH	
16		CMI-S3(16-16.5)	0.0		DEBRIS/ RUBBISH	
			0.0		FILL SOIL	
			0.0		FILL SOIL	
			0.0		FILL SOIL	
18			0.0		DEBRIS/ RUBBISH	
			0.0			

Notes: bgs: below ground surface MSL: Mean Sea Level PID: Phot-ionization Detector

WELL CONSTRUCTION LOG

WELL NO.: **CMI-S3**

TOTAL DEPTH: **67**

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	SAMPLE ID	PID (ppm)	WELL CONSTRUCTION DETAILS
20		0.0		FILL SOIL	(9.0 - 11.0) DEBRIS/ RUBBISH: Debris (metals, white plastic lining, paper, thin hay-like strips); some Gravel, Coarse to Very Coarse, subrounded to rounded; some Sand, Medium to Coarse; Fines and Sands as matrix support, moist. Pale Yellow (2.5Y 7/4) and Gray (2.5Y 5/1).
		0.0		FILL SOIL	
		0.0		FILL SOIL	(11.0 - 11.5) FILL SOIL: Sand, Medium to Coarse; some (30%) Gravel, subrounded to rounded; trace Debris (green glass); Fine suppported matrix, moist. Dark Gray (Gley 1 4/N).
22	CMI-S3(21.5-22)	0.0	6	DEBRIS/ RUBBISH	(11.5 - 12.5) DEBRIS/ RUBBISH: Debris (decomposing newspaper, glass, white liner, hard plastic, Kraft cheese aluminum tin, green plastic flower, clear glass, aluminum cans); Moist. Greenish Gray (Gley 1 5/5GY).
		0.0		FILL SOIL	
		0.0		DEBRIS/ RUBBISH	(12.5 - 13.0) DEBRIS/ RUBBISH: Debris (same as above); and Fines; some Sand, Coarse to Very Coarse. Black (Gley 1 2.5/N).
24		0.0		DEBRIS/ RUBBISH	(13.0 - 13.5) DEBRIS/ RUBBISH: Debris (same as above: newspapers, black plastic garbage bags, glass); Moist. Greenish Gray (Gley 1 5/10GY)
		0.0		DEBRIS/ RUBBISH	(13.5 - 14.5) FILL SOIL: Sand, Coarse to Very Coarse; some (20%) Gravel, subrounded to rounded; Fines supported matrix, high plasticity, gray/green/brown mix, moist. Greenish Gray (Gley 1 6/5GY)
26		0.0		DEBRIS/ RUBBISH	(14.5 - 16.0) FILL SOIL: Fines; some Sand, Very Coarse to Coarse; trace Gravel, rounded to subrounded; hard, dense, green/gray; matrix supported fines, moist. Greenish Gray (Gley 1 5/5GY).
		0.0		MINE TAILINGS/ FILL SOIL	(16.0 - 16.2) DEBRIS/ RUBBISH: Debris (3" length thin white plastic strips); Moist. Light Greenish Gray (Gley 1 7/5GY) and Very Dark Gray (Gley 1 3/N)
28		0.0		DEBRIS/ RUBBISH	(16.2 - 16.5) FILL SOIL: Fines; some Sand, Very Coarse to Coarse; trace Gravel, rounded to subrounded; trace Organics (wood); trace Debris (plastics); Matrix supported fines, compact, dense, no magnetic response, moist; Light Greenish Gray (Gley 1 7/5GY) and Very Dark gray (Gley 1 3/N).
		0.0		MINE TAILINGS/ FILL SOIL	
30		0.0		MINE TAILINGS/ FILL SOIL	(16.5 - 17.0) FILL SOIL: Fines; some Sand, Very Coarse to Coarse; trace Organics (wood); trace Debris (plastics); trace Cobbles, subrounded to sub angular; trace Gravel, rounded to subrounded; Wood at bottom; Dense, green/gray, matrix supported fines, moist. Dark Gray (Gley 1 4/N), no magnetic response.
		0.0		MINE TAILINGS/ FILL SOIL	
32	CMI-S3(31.5-32)	0.0	4	MINE TAILINGS/ FILL SOIL	(17.0 - 18.0) FILL SOIL: Fines; with Cobbles; some Sand, Medium to Coarse; trace Organics (wood 2' strips on top); Fine supported matrix, low magnetic response; moist. Gray (10YR 5/1).
		0.0		DEBRIS/ RUBBISH	
34		0.0		MINE CLOSURE BLAST ROCK	(18.0 - 21.0) DEBRIS/ RUBBISH: Debris (black sponge-like material with holes, stacked, wood plastic, newspaper); Moist. Dark greenish Gray (Gley 1 3/5GY).
		0.0		MINE CLOSURE BLAST ROCK	(21.0 - 22.0) FILL SOIL: Fines; and Sand, Coarse to Very Coarse; some Gravel, Coarse, rounded to subrounded; Compact, dense, moist. Greenish Gray (Gley 1 5/10Y)
36		0.0			(22.0 - 23.0) DEBRIS/ RUBBISH: Debris (newspaper, glass, plastics); Moist. Dark gray (Gley 1 4/N)
		0.0			(23.0 - 24.5) DEBRIS/ RUBBISH: Debris (wood, black at top and bottom, light brown/gray in the middle); Moist. Dark gray (Gley 1 4/N)
38		0.0			(24.5 - 25.0) DEBRIS/ RUBBISH: Debris (wood, metal wire); Moist. Gray (Gley 1 5/N).
		0.0			(25.0 - 26.0) DEBRIS/ RUBBISH: Debris (Pallet-like wood piece 2' x 4'); Moist. Dark gray (10YR 4/1).
40		0.0			(26.0 - 27.0) MINE TAILINGS/ FILL SOIL: Sand, Medium to Coarse; and Granules; Red, loose, high magnetic response; moist. Reddish Brown (2.5YR 5/4).
		0.0			
42		0.0	4	MINE CLOSURE BLAST ROCK	
		0.0			
		0.0			
44		0.0			

Notes: bgs: below ground surface MSL: Mean Sea Level PID: Phot-ionization Detector

WELL CONSTRUCTION LOG

WELL NO.: **CMI-S3**

TOTAL DEPTH: **67**

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	SAMPLE ID	PID (ppm)	WELL CONSTRUCTION DETAILS
46			CMI-S3(45.5-46)	0.0	(27.0 - 28.0) DEBRIS/ RUBBISH: Debris (wire pieces); Moist.
				0.0	(28.0 - 30.0) MINE TAILINGS/ FILL SOIL: Sand, angular; trace Slag, cobble-sized; trace Debris (metal); Medium to high magnetic response, red/gray mix; moist. Reddish brown (2.5YR 5/3).
48		MINE CLOSURE BLAST ROCK		0.0	(30.0 - 31.0) MINE TAILINGS/ FILL SOIL: Gravel, subangular to subrounded; trace Debris (ceramic and metal debris); high magnetic response, red, clast supported matrix, moist. Red (10R 5/6)
50				0.0	(31.0 - 32.0) MINE TAILINGS/ FILL SOIL: Sand, Very Coarse to Coarse; some (20%) Gravel, rounded to subrounded; Loose, high magnetic response, moist. Red (10R 4/6)
				0.0	(32.0 - 33.0) DEBRIS/ RUBBISH: Sand, white pumic-like material- broken up; mixed with Debris (metal scraps); Sand, Very Coarse; and Granules; Loose, poorly-graded, medium magnetic response, moist. Red (10R 5/6).
52				0.0	(33.0 - 37.0) MINE CLOSURE BLAST ROCK: Cobbles, angular to subangular; some (20%) Gravel, subrounded to subangular; High magnetic response, moist. Black cobbles with red soil. Red (10R 4/6).
54				0.0	(37.0 - 41.0) MINE CLOSURE BLAST ROCK: Mine waste rock. Cobbles, subrounded to subangular, medium magnetic response, black, green, white colored. Dark Gray (Gley 1 4/N). Greenish Gray (Gley 1, 6/10GY), and Light Gray (Gley 1 7/N)
				0.0	(41.0 - 47.0) MINE CLOSURE BLAST ROCK: Cobbles, subangular to angular; mixed with rock four. Some (35%) Fines around cobbles; Medium magnetiic response. Greenish Gray (Gley 1 5/5GY).
56				0.0	
				0.0	
58		MINE CLOSURE BLAST ROCK		0.0	(47.0 - 57.0) MINE CLOSURE BLAST ROCK: Mine waste rock. Cobbles, subangular to angular; and Gravel; some Fines; Low to medium magnetic response. Greenish Black (Gley 1 2.5/B), Greenish Gray (Gley 2 6/5BG) (rock), and Gray (Gley 1 5/N)(soil). Rock core width of core barrel 52-57'.
				0.0	
				0.0	
				0.0	
60		MINE CLOSURE BLAST ROCK		0.0	(57.0 - 59.0) MINE CLOSURE BLAST ROCK: Cobbles, subangular; High magnetic response, white, black, tan, beige.
				0.0	
				0.0	(59.0 - 61.0) MINE CLOSURE BLAST ROCK: Sand, Medium to Fine; trace Gravel, Coarse, rounded; High magnetic response, fine supported matrix.
				0.0	
62		MINE CLOSURE BLAST ROCK		0.0	(61.0 - 62.0) MINE CLOSURE BLAST ROCK: Cobbles, rock core (black, white, green specs of color); and Fines, pulverized rock flour. High magnetic response. Mine closure blast rock. Bluish Gray (Gley 1 6/5B) when dry and Dark Bluish Gray (Gley 2 4/10B) when wet.
				0.0	
		MINE CLOSURE BLAST ROCK		0.0	(62.0 - 67.0) MINE CLOSURE BLAST ROCK: Cobbles, diorite; high magnetic response, mostly black, bands of green, white, clumps of quartz. Mine closure blast rock. Greenish Gray (Gley 1 4/5G), Dark Bluish Gray (Gley 2 4/5B), and Bluish Black (Gley 2 2.5/10B).
64				0.0	
				0.0	
				0.0	
66				0.0	
				0.0	

Notes: bgs: below ground surface MSL: Mean Sea Level PID: Phot-ionization Detector

SOIL BORING LOG

BORING NO.: **CMI-S4**

TOTAL DEPTH: **77 ft bgs**

ARCADIS

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT NAME:	**Ringwood**	DRILLING CONTRACTOR:	**Boart Longyear**
PROJECT NO:	**NJ000604.0021**	DRILLER:	**Craig Marsh**
SITE LOCATION:	**Ringwood, NJ**	DRILL EQUIP.:	**Rotosonic Drill Rig (SR#126)**
GEOLOGIST:	**Brooke Mason**	SIZE/TYPE OF BIT:	**Carbide Coring Bit**
DATE STARTED:	**12-6-07**	BOREHOLE DIAMETER:	**(6"/4")**
DATE COMPLETED:	**12-6-07**	SAMPLE METHOD:	**Continuous Core**
WEATHER COND.:	**40s, Sunny**	PERMIT NO.:	**Default Listing**
		ELEVATION (ft msl):	**557.56**
		STATE PLANE COORDINATES (ft):	X= **554115.8** Y= **837610.4**

DEPTH (feet)	Lithology Symbol	Sample Name (Sample Depth)	PID 10.6 eV (ppm)	RECOVERY (FT)	STRATIGRAPHIC UNITS	SOIL DESCRIPTION
0			0.5	4.5	GRAVEL	(0.0 - 1.0) GRAVEL: Gravel, Coarse (from built up road, peagravel, granite), subangular; little Fines; Clast supported, loose, moist. Gray (10YR 5/1)
			0.5			
			0.5		GRAVEL	(1.0 - 2.5) GRAVEL: Gravel, Coarse, angular to subangular; some Sand, Very Coarse; Fines as matrix; High plasticity, medium brown. Very Dark Grayish Brown (10YR 3/2)
2			0.8			
			0.8		COBBLES	(2.5 - 4.0) COBBLES: Cobbles, angular; and Gravel, Very Coarse; some Sand, Very Coarse; few Fines as matrix, no magnetic response. Gray (10YR 6/1)
			0.5			
			0.5			
			0.4			
4			0.4		SAND	(4.0 - 6.0) SAND: Sand, Fine to Medium; with Fines as Matrix; some Organics (wood debris 2"x2.5" pieces, 2 roots); No magnetic response. Dark Gray.(Gley 1 4/1)
			0.5			
		CMI-S4(5-5.5)	0.4			
			0.8			
6			0.8		COBBLES	(6.0 - 7.0) COBBLES: Cobbles (width of core barrel), subangular; Moderately heavy. Dark Reddish Brown (5YR 2.5/2)
			0.8			
			0.8	8	GRAVEL	(7.0 - 8.0) GRAVEL: Gravel, Very Coarse; with Sand, Fine to Medium; Fines as matrix; Subangular, Medium brown, no magnetic response. Very Dark Gray (10YR 3/1).
			0.8			
8			0.7		DEBRIS/ RUBBISH	(8.0 - 10.3) DEBRIS/ RUBBISH: Debris (plastics (black, white, clear), newspapers, cloth, metal, aluminum, glass, tin can, caps, green glass, cigar butts, magazines, beer bottle (amber); some Organics (wood fragments, 2" length, and roots)). Black (10YR 2/1) and Dark Gray (10YR 4/1)
			0.6			
			0.6			
			0.7			
10			0.8		FILL SOIL	(10.3 - 12.4) FILL SOIL: Sand, Very Coarse; some Sand, Fine to Medium; little Gravel, subangular; little Cobbles; some Debris (plastic white pieces and plastic clear liner); Brown/gray, fines as matrix. Very Dark Gray (10YR 3/1)
			0.8			
			0.8			
			0.8			
12			0.9			
			0.9			
			0.9		DEBRIS/ RUBBISH	(12.4 - 14.5) DEBRIS/ RUBBISH: Debris (plastics (black, white, clear), newspapers, cloth, metal, aluminum, glass, tin can, caps, green glass, cigar butts, magazines, beer bottle (amber)), ceramics, plastic pail, plastic (~100 mL) bottle white with blue lid). White material, sand to silt-sized, hard, no elasticity, Sample was imbedded in a tin can (Sampled white material). Very Dark Gray (10YR 3/1) and Black (10YR 2/1)
			0.8			
			0.8			
14		CMI-S4(14-14.5)	2.1			
			2.8		GRAVEL	(14.5 - 16.5) GRAVEL: Gravel; and Granules; trace (10%) Fines; Medium plasticity, well-graded, highly weathered diorite with biotite fragments. Very Dark Gray (10YR 3/1)
			0.6			
			0.6			
16			0.1			
			0.5		DEBRIS/ RUBBISH	(16.5 - 17.0) DEBRIS/ RUBBISH: Organics (moderately decomposed leaf litter mixed with highly decomposed organics); and Debris (plastic/poly) present in the last inch of interval. Black (10YR 2/1).
			0.5			
			0.5		DEBRIS/ RUBBISH	(17.0 - 17.5) DEBRIS/ RUBBISH: Debris (black rubbery thick rigid nylon fabris; blue box (1" x 1") cube with numbers, rubber cork, newspapers, plastics). Black (10YR 2/1) and Very Dark Gray (10YR 3/1)
18			0.5			
			0.5			

Notes: bgs: below ground surface MSL: Mean Sea Level PID: Phot-ionization Detector

WELL CONSTRUCTION LOG

WELL NO.: **CMI-S4**

TOTAL DEPTH: **77**

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	SAMPLE ID	PID (ppm)	WELL CONSTRUCTION DETAILS
20		0.9			DEBRIS/ RUBBISH: (17.5 - 18.5) DEBRIS/ RUBBISH: Debris (newspapers, plastics); with Sand, Fine. Black (10YR 2/1).
		1.2			
		038	CMI-S4(20-20.5)		FILL SOIL: (18.5 - 19.2) FILL SOIL: Granules, highly decomposed granite; with (50%) Clay. Very Dark Brown (10YR 3/1)
		1.0			DEBRIS/ RUBBISH: (19.2 - 20.0) DEBRIS/ RUBBISH: Debris (plastic screen, plastic lining); Oragnics (roots); Fines; Cobbles; Well-graded, high plasticity. Dark Brown (10YR 3/3)
		2.4			
22		1.3			FILL SOIL: (20.0 - 21.5) FILL SOIL: Sand, Fine; and Fines; few Cobbles (70-150mm); some Organics; trace (<2%) Sand, Medium to Coarse; trace Granules; Highly plasticity. Dark Yellowish Brown (10YR 4/4)
		0.8		9.5	
		0.8			DEBRIS/ RUBBISH: (21.5 - 22.5) DEBRIS/ RUBBISH: Debris (highly decomposed newspaper); little soils. Dark Gray (10YR 4/1) and Black (10YR 2/1)
		1.0			
		1.2			FILL SOIL: (22.5 - 23.0) FILL SOIL: Sand Fine to Coarse; some Granules; few Cobbles; trace (<10%) Fines; Medium plasticity. Very Dark Grayish Brown (10YR 3/2)
24		0.7			
		0.7			DEBRIS/ RUBBISH: (23.0 - 24.0) DEBRIS/ RUBBISH: Debris (plastic bags, glass, plastic pieces (white)); Dark Gray (10YR 4/1) and Black (10YR 2/1)
		0.9			
		0.8			FILL SOIL: (24.0 - 24.7) FILL SOIL: Sand, Fine; some Sand, Medium to Coarse; some Granules. Dark Yellowish Brown (10YR 4/4)
26		0.7			
		0.6			DEBRIS/ RUBBISH: (24.7 - 27.0) DEBRIS/ RUBBISH: Debris (newspapers, plastics, blue model car piece).
		0.0			
		0.0			FILL SOIL: (27.0 - 29.0) FILL SOIL: Gravel, Very Coarse; and Granules; Sand, Coarse; few Fines. Reddish Brown (2.5YR 5/3).
28		0.0			
		1.1			DEBRIS/ RUBBISH: (29.0 - 30.0) DEBRIS/ RUBBISH: Debris (Yellow Carpet). Brown (10YR 5/3) and Yellowish Brown (10YR 5/6)
		0.0			
		0.0			FILL SOIL: (30.0 - 30.5) FILL SOIL: Sand, Fine; and Cobbles (40-70mm); and Granules; Organics; trace Clay; trace debris (nails and tin). Dark Reddish Gray (2.5YR 3/1)
30		0.5			
		0.7			DEBRIS/ RUBBISH: (30.5 - 35.0) DEBRIS/ RUBBISH: Debris (newspapers, plastics, wood, metal pieces). Dark Brown (10YR 3/3)
		0.8			
		0.4		8.5	
32		1.0			
		0.6			
		0.8			
		08			
34		0.8			
		0.8			
		0.8	CMI-S4(35-35.5)		FILL SOIL: (35.0 - 35.5) FILL SOIL: Fines; Medium plasticity, chemical odor, high magnetic response (possible mine tailings). Very Dark Grayish Brown (10YR 3/2)
		0.8			
		1.1			DEBRIS/ RUBBISH: (35.5 - 37.0) DEBRIS/ RUBBISH: Debris (wood fragments); little Sand, Fine; Very Dark Gray (10YR 3/1) and Black (10YR 2/1)
36		1.6			
		1.6			DEBRIS/ RUBBISH: (37.0 - 42.0) DEBRIS/ RUBBISH: Debris (metal-gray/silver, wood, netting-like furnitire stuffing, rubber, newspaper, plastic, screws, nails, bolts at bottom, screen aluminum, steel, hydraulic line (2" long) and tin); trace Cobbles. White (10YR 8/1) and Reddish Brown (5YR 5/3)
		0.7			
		0.0			
38		0.0			
		0.8			
		0.8			
		0.8			
40		0.8			
		0.8			
		0.8			
		0.8			
42		0.8		6.3	
		0.9			FILL SOIL: (42.0 - 44.0) FILL SOIL: White porous material (saprolite); angular to subangular; Fines (orange/brown); some Granules; Compact, dense. White (10YR 8/1) and Reddish Brown (5YR 5/3)
		0.9			
		0.9			
		0.9	CMI-S4(43.5-44)		
44		0.9			FILL SOIL: (44.0 - 45.0) FILL SOIL: Fines; some Granules; Compact, dense. Yellowish Red (5YR 4/6)
		0.9			

Notes: bgs: below ground surface MSL: Mean Sea Level PID: Phot-ionization Detector

WELL CONSTRUCTION LOG

ARCADIS

WELL NO.: **CMI-S4**

TOTAL DEPTH: **77**

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION		SAMPLE ID	PID (ppm)	WELL CONSTRUCTION DETAILS
46		0.9				
		0.9		DEBRIS/ RUBBISH		(45.0 - 47.0) DEBRIS/ RUBBISH: Debris (metal-gray/silver, wood, newspaper, plastic, screws, nails, bolts, screen aluminum, steel, and tin); some Sand, Medium to Coarse; some Granules; Fines as matrix. Dark Gray (10YR 4/1) and Very Dark Grayish Brown(10YR 3/2)
		0.9				
		0.9				
		0.9				
48		0.0		MINE TAILINGS		(47.0 - 49.0) MINE TAILINGS: Gravel, Very Coarse; some Granules; few Fines; High magnetic reponse, loose, red/brown (mine tailings). Dark Reddish Brown (5YR 3/3)
		0.0				
		0.0				
		0.5				
		0.5		MINE TAILINGS		(49.0 - 50.0) MINE TAILINGS: Granules; with Sand, Very Coarse; trace Fines; some Debris (newspapers, plastics); High magnetic response, loose. Dusky Red (10R 3/4)
50		0.5				
		0.8		GRAVEL		(50.0 - 53.0) GRAVEL: Granules; with Sand, Very Coarse to Coarse; little Fines; Red, loose, low magnetic reponse. Dusky Red (10R 3/4)
		0.8				
	CMI-S4(51-51.5)	0.9				
		0.9				
52		1.0	4.3			
		1.0				
		0.7		MINE CLOSURE BLAST ROCK		(53.0 - 55.0) MINE CLOSURE BLAST ROCK: Cobbles, subangular to subrounded; some Sand, Medium to Coarse; trace Fines. Dark Grayish Brown (10YR 4/2).
		0.7				
54		1.0				
		1.0				
		0.8		MINE CLOSURE BLAST ROCK		(55.0 - 57.0) MINE CLOSURE BLAST ROCK: Gravel, Very Coarse, magnetite, angular; with Fines; some Sand, Fine to Medium; trace Granules; trace Cobbles; Medium brown. Dark Yellowish Brown (10YR 4/4)
		0.8				
56		0.9				
		0.9				
		0.8		MINE CLOSURE BLAST ROCK		(57.0 - 60.0) MINE CLOSURE BLAST ROCK: Cobbles; trace Debris (wood, cobble-sized, 1 piece of syrofoam); and Cobbles; Subangular.
		0.8				
58		0.8				
		0.8				
		0.8				
		0.8				
60		0.8		MINE CLOSURE BLAST ROCK		(60.0 - 67.0) MINE CLOSURE BLAST ROCK: Cobbles (width of core barrel).
		0.8				
		0.8				
		0.8				
62		0.8	4			
		0.8				
		0.8				
		0.8				
64		0.8				
		0.8				
		0.8				
		0.8				
66		0.8				
		0.8				
		0.8				
		1.3		MINE CLOSURE BLAST ROCK		(67.0 - 77.0) MINE CLOSURE BLAST ROCK: Cobbles (Diorite, magnetitie in middle, cobbles are width of the coare barrel).
68		1.3				
		1.3				
		0.9				
		0.9				
		0.9				
70		1.3				

Notes: bgs: below ground surface MSL: Mean Sea Level PID: Phot-ionization Detector

R2-0005524

WELL CONSTRUCTION LOG

WELL NO.: **CMI-S4**

TOTAL DEPTH: **77**

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	SAMPLE ID	PID (ppm)	WELL CONSTRUCTION DETAILS
72		1.3			
		1.3			
		0.8			
		0.8			
		0.8			
		0.9			
74		0.9			
		0.9			
		0.8			
		0.8			
		0.8			
76		0.8			
		2.3			

Notes: bgs: below ground surface MSL: Mean Sea Level PID: Phot-ionization Detector

SOIL BORING LOG

ARCADIS

BORING NO.: **CMI-S5** WELL ID: **SC-2**

TOTAL DEPTH: **67 ft bsl**

PROJECT INFORMATION		DRILLING INFORMATION		WELL INFORMATION	
PROJECT NAME:	**Ringwood**	DRILLING CONTRACTOR:	**Boart Longyear**	SCREEN LENGTH/TYPE:	**20 ft 2 in. Sch. 40 PVC prepacked**
PROJECT NO:	**NJ000604.0021**	DRILLER:	**Craig Marsh**	SCREEN SLOT SIZE:	**20 Slot**
SITE LOCATION:	**Ringwood, NJ**	DRILL EQUIP.:	**Sonic Rig, SR #126**	SAND PACK AMT./TYPE:	**9 bags, Type I**
GEOLOGIST:	**Brooke Mason**	SIZE/TYPE OF BIT:	**Carbide Coring Bit**	RISER LENGTH/TYPE:	**50 ft 2 in dia. Sch. 40**
DATE STARTED:	**12-7-07**	BOREHOLE DIAMETER:	**(6"/4")**	RISER STICK UP (asl):	**3 ft**
DATE COMPLETED:	**12-10-07**	SAMPLE METHOD:	**Continuous Core**	WATER TABLE DEPTH:	**51 ft bsl**
WEATHER COND:	**40s, Cloudy**	PERMIT NO.:	**Default Listing**		
		ELEVATION (ft msl):	**560.45**		
		STATE PLANE COORDINATES (ft):	X= **554038.4**	Y= **837553.8**	

DEPTH (feet)	Lithology Symbol	Sample Name (Sample Depth)	PID 10.6 eV (ppm)	RECOVERY (FT)	STRATIGRAPHIC UNITS	SOIL DESCRIPTION	WELL CONSTRUCTION DETAILS
0			0.0	7	GRAVEL	(0.0 - 0.8) GRAVEL: Gravel, Very Coarse, subrounded to subangular; Medium brown; Very moist; some Organics (wood fragments, leaves); some Sand, Very coarse to Coarse; little Fines. Clast supported matix. Dark Grayish Brown (10YR 4/2)	3 ft riser asl
2			0.0		FILL SOIL		
			0.0				
			0.0				
			0.0				
			0.0		DEBRIS/ RUBBISH	(0.8 - 2.4) FILL SOIL: Fines; little Sand, Very coarse to Coarse; trace Gravel, Fine, rounded; some Granules. High plasticity, fine supported matrix. Dark Grayish Brown (10YR 4/2).	
			0.0				
4			0.0		FILL SOIL		Portland (Type II) Grout (0-10 ft bsl)
			0.0		DEBRIS/ RUBBISH	(2.4 - 3.0) DEBRIS/ RUBBISH: Debris (plastic,hard, and plastic liners, blue and white). Yellowish Brown (10YR 5/4)	
			0.0				
		CMI-S5(5-5.5)	0.0		MINE TAILINGS	(3.0 - 3.5) FILL SOIL: Sand, Fine to Medium; trace (10%) Granules; trace (10%) Gravel, Coarse; High plasticity, well-graded; Yellowish Brown (10YR 5/4)	
6			0.0		DEBRIS/ RUBBISH	(3.5 - 5.0) DEBRIS/ RUBBISH: Debris, more decomposed 4-5' (Plastics, glass, cardboard). Black (10YR 2/1)	
			0.0				
			0.0	10	ORGANIC	(5.0 - 5.5) MINE TAILINGS: Sand, Coarse to Very Coarse; and (40%) Granules; Loose, medium plasticity, high magnetic response. Medium to Dark Gray.	
			0.0		DEBRIS/ RUBBISH		
8			0.0				
			0.0		FILL SOIL		
			0.0		FILL SOIL	(5.5 - 6.0) DEBRIS/ RUBBISH: Debris (newspaper, moderately decomposed). Light Gray (5Y 7/1)	
			0.0				
10			0.0		DEBRIS/ RUBBISH	(6.0 - 6.5) ORGANIC: Organics (wood), highly decomposed, strong decay odor. Black (2.5 Y 2.5/1)	
			0.0			(6.5 - 7.0) DEBRIS/ RUBBISH: Debris (shoe sole, plastic bottle, glass, plastic sheets, newspaper, white garbage bags bits). Light Gray (10YR 7/1) and Dark Gray (10YR 4/1)	Bentonite (Pellets) (10-44.5 ft bsl)
			0.0				
12			0.0		FILL SOIL		
			0.0				
			0.0		DEBRIS/ RUBBISH	(7.0 - 8.0) FILL SOIL: Gravel, Very Coarse; with Cobbles; trace (<10%) Debris (metal wires, small pieces of plastic-liner,); trace (10%) Organics (wood, roots, very small). Clast supported with low % of fine/sand matrix Very Dark Grayish Brown (10YR 3/2)	
			0.0				
14			0.0				
		CMI-S5(14-14.5)	0.0		FILL SOIL		
			0.0				
			0.0		DEBRIS/ RUBBISH	(8.0 - 9.9) FILL SOIL: Fines; trace (<10%) Granules; little (15% Sand), Coarse; High plasticity, well-graded. Dark Gray (10YR 4/1)	
			0.0				

Notes: bsl: below surface level MSL: Mean Sea Level PID: Photo-Ionization Detector asl: above surface level

SOIL BORING LOG

ARCADIS

BORING NO: **CMI-S5** WELL ID: **SC-2**

TOTAL DEPTH: **67 ft bsl**

DEPTH (feet)	Lithology Symbol	Sample Name (Sample Depth)	PID 10.6 eV (ppm)	RECOVERY (FT)	STRATIGRAPHIC UNITS	SOIL DESCRIPTION	WELL CONSTRUCTION DETAILS
16			0.0				
			0.0			(9.9 - 11.7) DEBRIS/ RUBBISH: Debris (black plastic liner, red plastics, glass, newspaper, 40 mL black plastic liner, metal); and Organics (leaves, mildly decomposed, and wood). Light Gray (10YR 7/1) and Black (10YR 2/1)	
			0.0		DEBRIS/ RUBBISH		
18			0.0			(11.7 - 12.8) FILL SOIL: Sand, Very Coarse; trace (<10%) Gravel; little (20%) Ganules.; trace (<10%) organics (very small wood pieces); Well-graded. Dark Gray (10YR 4/1).	
			0.0				
			0.0			(12.8 - 14.0) DEBRIS/ RUBBISH: Debris (newspaper, rubber, wood, glass, plastics) very black in middle of interval, and light brown to gray on ends. Very Dark Gray (10YR 3/1) and Black (10YR 2/1)	
20			0.0				
			0.0				
			0.0			(14.0 - 15.1) FILL SOIL: Granules; and (40%) Fines; trace Gravel, Very Coarse; Well-graded, high plasticity, fine supported matrix. Grayish Brown (10YR 5/2)	
			0.0				
22			0.0	3	MINE TAILINGS		
			0.0			(15.1 - 17.0) DEBRIS/ RUBBISH: Debris (same as above); and Organics (wood at bottom). Black (10YR 2/1) and Very Dark Gray (10YR 3/1).	
			0.0				
			0.0			(17.0 - 22.0) DEBRIS/ RUBBISH: Debris (Same as above, (concrete and metal pieces in top 1 foot). Plastics and glass throughout, sponge, metal, and plastic liners, roofing shingles) Interval is clast supported, Sand, very coarse to coarse; few Fines; Loose, gray/green color, subrounded to subangular. Grayish Brown (10YR 5/2)	
24			0.0				
			0.0				
			0.0				
			0.0				
			0.0				
26			0.0		MINE TAILINGS		
		CMI-S5(26.5-27)	0.0			(22.0 - 26.0) MINE TAILINGS: Fines; some Granules; trace Gravel, subrounded; Medium magnetic response, well-graded, fine supported matrix. Gray (10YR 5/1)	
			0.0		GRAVEL		
			0.0				
28			0.0		SAND	(26.0 - 27.0) MINE TAILINGS: Fines; trace Sand, Coarse; trace Granules; High magnetic response, Very Dark Gray10YR 3/1)	
			0.0				
			0.0				
			0.0		FINES	(27.0 - 28.0) GRAVEL: Gravel, subangular to subrounded; trace Organics; Sand, Very Coarse to Coarse; trace (<10%) Fines; clast supported matrix. Black (7.5YR 2.5/1)	
30			0.0				
			0.0			(28.0 - 29.5) SAND: Sand, Very Coarse to Coarse; and Fines; little (<20%) Gravel; Well-graded, fines supported matrix. Dark Reddish Brown (5YR 2.5/2)	
			0.0				
			0.0				
32			0.0	8		(29.5 - 35.0) FINES: Fines; little (20%) Gravel, Very Coarse, rounded to subrounded; trace (10%) Sand, Very Coarse to Coarse; Well-graded, matrix supported fines. Dark Reddish Gray (5YR 4/2).	
			0.0				
			0.0				
			0.0				
34			0.0				
			0.0				
		CMI-S5(35-35.5)	0.0		GRAVEL	(35.0 - 36.0) GRAVEL: Granules; and Sand, Coarse to Very Coarse; trace Gravel, Very Coarse, rounded; Sand supported matrix. Black (10YR 2/1)	
			0.0				
36			0.0		GRAVEL	(36.0 - 37.0) GRAVEL: Gravel, Coarse, rounded; little (20%) Granules; Sand supported matrix. Reddish Brown (2.5YR 4/4)	
			0.0				
			0.0		SAND		

Notes: bsl: below surface level MSL: Mean Sea Level PID: Photo-Ionization Detector asl: above surface level

SOIL BORING LOG

ARCADIS

BORING NO: **CMI-S5** WELL ID: **SC-2**

TOTAL DEPTH: **67 ft bsl**

DEPTH (feet)	Lithology Symbol	Sample Name (Sample Depth)	PID 10.6 eV (ppm)	RECOVERY (FT)	STRATIGRAPHIC UNITS	SOIL DESCRIPTION	WELL CONSTRUCTION DETAILS
38			0.0			(37.0 - 39.0) SAND: Sand, Very Coarse; and (50%) Gravel, Coarse; Very moist, loose, rounded to subrounded; No magnetic response. Red (10R 4/6).	
			0.0		GRAVEL	(39.0 - 40.0) GRAVEL: Granules; little (20%) Fines; Fine supported matrix, low plasticity, medium magnetic response, red.	
40			0.0		SAND	(40.0 - 41.0) SAND: Sand, Very Coarse, subangular; trace Debris (pieces of wire) Poorly graded, red/purple, medium magnetic response, loose. Transitional layer. Dusky Red (10R 3/2)	
			0.0		SAND	(41.0 - 43.0) SAND: Sand, Very Coarse; some Fines; some Gravel (9-29mm),Ccoarse, rounded to subrounded, loose; medium magnetic response. Reddish Black (10R 2.5/1)	
42			0.0		GRAVEL	(43.0 - 45.0) GRAVEL: Granules; and Sand, Very Coarse; some Gravel, subrounded to subangular. Reddish Brown (2.5 YR 4/3)	
			0.0		MINE TAILINGS	(45.0 - 48.0) MINE TAILINGS: Granules; and Sand, Very Coarse, subrounded to subangular; Gravel; trace Slag (one gravel-sized piece); high magnetic response. Weak Red (10R 4/4)	Filter Pack (Type I) (44.5-67 ft bsl)
44			0.0				
			0.0				
			0.0				
46		CMI-S5(45.5-46)	0.0				
			0.0				
			0.0				
			0.0				
48			0.0			(48.0 - 49.0) MINE TAILINGS: Sand, Fine to Medium; some Sand, Very Coarse; some Gravel, subangular to angular; Highly magnetic, dark gray, moist. Light Gray (Gley 1 7/N)	
			0.0		MINE TAILINGS		
			0.0		MINE CLOSURE BLAST ROCK	(49.0 - 53.0) MINE CLOSURE BLAST ROCK: Fines (Rock flour), pulverized mine closure blast rock; high magnetic response. Light gray, dark when wet.	
50			0.0				
			0.0				
			0.0				
			0.0				
52			0.0	7.5			Water Table (51.46 ft bsl)
			0.0				20 Slot Screen 2" dia. with 1" prepack sand. (47-67 ft bsl)
			0.0				
			0.0		MINE CLOSURE BLAST ROCK	(53.0 - 55.0) MINE CLOSURE BLAST ROCK: Cobbles, subangular to subrounded; trace Fines, rock flour. Gray.	
54			0.0				
			0.0				
			0.0				
			0.0		MINE CLOSURE BLAST ROCK	(55.0 - 57.0) MINE CLOSURE BLAST ROCK: Rock cores the width of the sample core. Quartz, green, yellow, black. Medium magnetic response	
56			0.0				
			0.0				
			0.0				
			0.0				
			0.0		MINE CLOSURE BLAST ROCK	(57.0 - 59.0) MINE CLOSURE BLAST ROCK: Cobbles, quartz, gray.	
58			0.0				
			0.0				

Notes: bsl: below surface level MSL: Mean Sea Level PID: Photo-Ionization Detector asl: above surface level

SOIL BORING LOG

BORING NO: **CMI-S5** WELL ID: **SC-2**

TOTAL DEPTH: **67 ft bsl**

DEPTH (feet)	Lithology Symbol	Sample Name (Sample Depth)	PID 10.6 eV (ppm)	RECOVERY (FT)	STRATIGRAPHIC UNITS	SOIL DESCRIPTION	WELL CONSTRUCTION DETAILS
			0.0				
			0.0		MINE CLOSURE BLAST ROCK	(59.0 - 61.0) MINE CLOSURE BLAST ROCK: Cobbles, quartz, gray, black, light orange/tan bands (plagioclase)	
60			0.0				Water observed during drilling
			0.0				
			0.0				
			0.0		MINE CLOSURE BLAST ROCK	(61.0 - 67.0) MINE CLOSURE BLAST ROCK: Cobbles, black, quartz, light orange (plagioclase)	
62			0.0	8.3			
			0.0				
			0.0				
			0.0				
64			0.0				
			0.0				
			0.0				
			0.0				
66			0.0				
			0.0				

Notes: bsl: below surface level MSL: Mean Sea Level PID: Photo-Ionization Detector asl: above surface level

SOIL BORING LOG

BORING NO.: **CMI-S6**

TOTAL DEPTH: **77' ft bgs**

ARCADIS

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT NAME:	**Ringwood**	DRILLING CONTRACTOR:	**Default Listing**
PROJECT NO:	**NJ000604.0021**	DRILLER:	**Craig Marsh**
SITE LOCATION:	**Ringwood, NJ**	DRILL EQUIP.:	**Rotosonic Drill Rig (SR#126)**
GEOLOGIST:	**Brooke Mason**	SIZE/TYPE OF BIT:	**Carbide Coring Bit**
DATE STARTED:	**12/10/07**	BOREHOLE DIAMETER:	**(6"/4")**
DATE COMPLETED:	**12/10/07**	SAMPLE METHOD:	**Continuous Core**
WEATHER COND.:	**40s, Partly Sunny**	PERMIT NO.:	**Default Listing**
		ELEVATION (ft msl):	**558.84**

STATE PLANE COORDINATES (ft): X= **554075.6** Y= **837568.1**

DEPTH (feet)	Lithology Symbol	Sample Name (Sample Depth)	PID 10.6 eV (ppm)	RECOVERY (FT)	STRATIGRAPHIC UNITS	SOIL DESCRIPTION
0			0.0	3.6	COBBLES	(0.0 - 0.5) COBBLES: Cobbles, angular to subangular; trace Sand, Medium to Coarse; some Organics (leaf litter and roots). Dark Brown (7.5YR 3/3)
			0.0		SAND	(0.5 - 2.0) SAND: Sand, Coarse to Fine; some Fines; with Gravel, Coarse, subangular; trace Organics (root material); Well-graded, fines as matrix. Very Pale Brown (10YR 7/4)
2			0.0		SAND	(2.0 - 2.5) SAND: Sand, Fine to Coarse; some Granules; Medium plasticity, well-graded. Pale Brown (10YR 6/3)
			0.0		DEBRIS/ RUBBISH	(2.5 - 3.0) DEBRIS/ RUBBISH: Debris (newspapers, plastic, clear, lining at bottom of the interval); Sand, Medium to Coarse; some Gravel, subangular, moist. Light Yellowish Brown (10YR 6/4)
4			0.0		SAND	(3.0 - 3.5) SAND: Sand, Fine to Medium; trace Granules; Fines as matrix, medium plasticity, well-graded. Greenish gray (Gley 1 6/10GY).
			0.0		DEBRIS/ RUBBISH	(3.5 - 4.0) DEBRIS/ RUBBISH: Debris (wood, newspapers, black plastic on top and bottom of interval, white plastic lining). Very Dark Greenish Gray (Gley 1 3/10GY)
6		CMI-S6(5.5-6)	0.0		SAND	(4.0 - 5.5) SAND: Sand, Medium to Coarse; Low plasticity. Greenish Gray (Gley 1 6/5GY)
			0.0		SAND	(5.5 - 7.0) SAND: Sand, Medium to Coarse; some Debris (plastic, newspaper) in bottom 1 ft; trace Sand, Fine; trace Fines; Gray/green
8			0.0	0		(7.0 - 17.0) No recovery, because a boulder/rock/cobble was on the end of the core barrel and puched all of the material out of the way.
			0.0			
10			0.0			
			0.0			
12			0.0			
			0.0			
14			0.0			
			0.0			
16			0.0			
			0.0			
18			0.0		DEBRIS/ RUBBISH	(17.0 - 18.0) DEBRIS/ RUBBISH: DEBRIS (glass, newspaper); and Sand, Coarse to Fine; Well-graded, gray/green, compact/dense, no magnetic response. Dark Greenish Gray (Gley 1 4/10G)
			0.0		FILL SOIL	(18.0 - 19.0) FILL SOIL: Sand, Fine to Medium; Well-graded, no magnetic response, fines as matirx. Greenish Gray (Gley 2 10/10G)

Notes: bgs: below ground surface MSL: Mean Sea Level PID: Phot-ionization Detector

WELL CONSTRUCTION LOG

WELL NO.: **CMI-S6**

TOTAL DEPTH: **77'**

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	SAMPLE ID	PID (ppm)	WELL CONSTRUCTION DETAILS
20		0.0			FILL SOIL: (19.0 - 21.0) FILL SOIL: Sand, Fine to Medium; some Gravel, subrounded to subangular; Fines as matrix, no magnetic response. Greenish Gray (Gley 1 6/10Y)
		0.0			
		0.0			
		CMI-S6(20.5-21) 0.0			
22		0.0			DEBRIS/ RUBBISH: (21.0 - 27.0) DEBRIS/ RUBBISH: Debris (thick plastic liner, twisted metal, white plastic, brown seeds, particle board piece with wood debris at bottom). Dark greenish Gray (Gley 1 4/5G)
		0.0			
		0.0		2.9	
		0.0			
24		0.0			
		0.0			
		0.0			
		0.0			
26		0.0			
		0.0			
		0.0			
28		0.0			DEBRIS/ RUBBISH: (27.0 - 32.0) DEBRIS/ RUBBISH: Debris (newspaper, clear pastic, plastic can holder, black plastic, metal, green glass, blue pastic piece, wood, metal tabs, clear glass); trace Cobbles, subangular. Green and Black.
		0.0			
		0.0			
		0.0			
30		0.0			
		0.0			
		0.0			
		0.0			
32		0.0			
		0.0		3.9	SAND: (32.0 - 33.0) SAND: Sand, Fine; and Fines; trace Debris (metal); Loose, wet. Dark greenish Gray (Gley 1 4/5GY)
		0.0			
		0.0			SAND: (33.0 - 34.0) SAND: Sand, Coarse; and Sand, Fine to Medium; trace Debris (metal wire). Light Greenish Gray(Gley 1 7/10Y)
34		0.0			
		0.0			SAND: (34.0 - 35.0) SAND: Granules; and Sand, Coarse; some Sand, Fine; Loose. Very Dark Greenish Gray (Gley 1 3/5GY)
		0.0			
		0.0			SAND: (35.0 - 37.0) SAND: Sand, Medium to Coarse; some Fines; trace Cobbles, subangular; Fines as matrix, well-graded, no magnetic response. Red (10R 5/6).
36		0.0			
		CMI-S6(36.5-37) 0.0			
		0.0			SAND: (37.0 - 42.0) SAND: Sand, Medium to Coarse; and Granules; some Debris (metal, white, pumice-like material); some Gravel, angular; Loose. Pink (5YR 7/3)
38		0.0			
		0.0			
		0.0			
40		0.0			
		0.0			
		0.0			
		0.0			
42		CMI-S6(41.5-42) 0.0			
		0.0		2	MINE CLOSURE BLAST ROCK: (42.0 - 47.0) MINE CLOSURE BLAST ROCK: Cobbles, angular to subangular, some rounded; and Sand, Medium to Coarse; some Sand, Very Coarse; little Debris (metal wires); Loose. Reddish Yellow (5YR 6/6)
		0.0			
		0.0			
		0.0			
44		0.0			

Notes: bgs: below ground surface MSL: Mean Sea Level PID: Phot-ionization Detector

WELL CONSTRUCTION LOG

WELL NO.: **CMI-S6**

TOTAL DEPTH: **77'**

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	SAMPLE ID	PID (ppm)	WELL CONSTRUCTION DETAILS
46		0.0			
		0.0			
		0.0			
		0.0			
		0.0			
48		0.0			MINE CLOSURE BLAST ROCK: (47.0 - 50.0) MINE CLOSURE BLAST ROCK: Cobbles, angular to subangular (very dark black, specs of dark green); and Debris (nut/bolt, washer intermixed in soil with other metal debris); some Sand, Coarse to Very Coarse; trace (10%) Granules, Angular; Clasts supported matrix, meidum magnetic response. Pink (5YR 7/4)
		0.0			
		0.0			
		0.0			
		0.0			
50	CMI-S6(49.5-50)	0.0			
		0.0			MINE CLOSURE BLAST ROCK: (50.0 - 53.0) MINE CLOSURE BLAST ROCK: Cobbles, angular black/green; trace (<10%) Fines; trace Sand, Fine; trace Sand, Coarse; Clast supported matrix, medium to low magnetic response, medium plasticity. Pink (5YR 7/3)
		0.0			
		0.0			
		0.0			
52		0.0	3		
		0.0			
		0.0			MINE CLOSURE BLAST ROCK: (53.0 - 57.0) MINE CLOSURE BLAST ROCK: Cobbles, angular black/green; trace (<10%) Fines; trace Sand, Fine; trace Sand, Coarse; Clast supported matrix, medium to low magnetic response, medium plasticity. Greenish Gray (Gley 1 6/5G)
		0.0			
		0.0			
54		0.0			
		0.0			
		0.0			
		0.0			
56		0.0			
		0.0			
		0.0			
		0.0			MINE CLOSURE BLAST ROCK: (57.0 - 59.0) MINE CLOSURE BLAST ROCK: COBBLES, Angular to Subangular (pink-plasgioclase and black); Clast supported matrix, high magnetic response. Light Red (10R 6/8)
58		0.0			
		0.0			
		0.0			
		0.0			MINE CLOSURE BLAST ROCK: (59.0 - 61.0) MINE CLOSURE BLAST ROCK: COBBLES, angular to subangular; Clast supported matrix; Low magnetism (pink and black); with Sand,Coarse to Very Coarse, angular; trace Fines. Pale Green (Gely 1 6/5G)
		0.0			
		0.0			
60		0.0			
		0.0			MINE CLOSURE BLAST ROCK: (61.0 - 62.0) MINE CLOSURE BLAST ROCK: COBBLES (width of the core barrel), subrounded to subangular; with Sand, Medium to Fine; and Fines. Medium plasticity, gray/green, medium magnetism. Pale green (Gley 1 6/5G)
		0.0			
	CMI-S6(61.5-62)	0.0	7		
62		0.0			MINE CLOSURE BLAST ROCK: (62.0 - 64.0) MINE CLOSURE BLAST ROCK: COBBLES, angular; and Fine (Rock flour). Grayish Green (Gley 1 5/5G)
		0.0			
		0.0			
		0.0			
64		0.0			MINE CLOSURE BLAST ROCK: (64.0 - 66.0) MINE CLOSURE BLAST ROCK: COBBLES, angular; and Granules, Coarse to Very Coarse; Sand, Fine to Medium; trace Fines; Very moist, high magnetic response. Light Greenish Gray (Gley 1 7/10GY)
		0.0			
		0.0			
		0.0			
66		0.0			MINE CLOSURE BLAST ROCK: (66.0 - 67.0) MINE CLOSURE BLAST ROCK: GRAVEL, Very Coarse, subrounded to subangular; some (20%) Sand, Coarse to Very Coarse; some Cobbles; Medium magnetic response. Dark Greenish Gray (Gley 1 4/10GY)
		0.0			
		0.0			
		0.0			
68		0.0			MINE CLOSURE BLAST ROCK: (67.0 - 71.0) MINE CLOSURE BLAST ROCK: COBBLES; and Gravel, Very Coarse (Green, black, pink), subrounded to subangular; Medium to low magnetic response. Greenish Black, Light Greenish Gray, and Light Red (Gley 1 2.5/10GY, Gley 1 8/10GY, 10R 7/8)
		0.0			
		0.0			
		0.0			
		0.0			
70		0.0			

Notes: bgs: below ground surface MSL: Mean Sea Level PID: Phot-ionization Detector

WELL CONSTRUCTION LOG

WELL NO.: **CMI-S6**

TOTAL DEPTH: **77'**

DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION		SAMPLE ID	PID (ppm)	WELL CONSTRUCTION DETAILS
72		0.0 0.0 0.0 0.0 0.0 0.0 0.0	5.5	MINE CLOSURE BLAST ROCK		(71.0 - 74.0) MINE CLOSURE BLAST ROCK: Cobbles (width of the core barrel), pink, black, green. Fractures are parallel to ground surface. Trace Fines, black; trace Sand, Very Coarse; Medium magnetic response. Light Red (10R 7/8) and Dark Greenish Gray (Gley 1 4/5GY)
74		0.0 0.0 0.0 0.0 0.0 0.0		MINE CLOSURE BLAST ROCK		(74.0 - 77.0) MINE CLOSURE BLAST ROCK: Same as above. More Fines (saturated); High magnetic response. Reddish Yellow (5 YR 7/6), White (Gley 1 8/N), and Greenish Black (Gley 1 2.5 8/G)
76		0.0 0.0 0.0				

Notes: bgs: below ground surface MSL: Mean Sea Level PID: Phot-ionization Detector

ARCADIS

Appendix F

Well Boring and Construction Logs

WELL CONSTRUCTION LOG

ARCADIS

WELL ID: **RW-8**

TOTAL DEPTH: **219 ft bsl**

PROJECT INFORMATION		DRILLING INFORMATION		WELL INFORMATION	
PROJECT NAME:	**Ringwood**	DRILLING CONTRACTOR:	**Default Listing**	SCREEN LENGTH/TYPE:	**N/A**
PROJECT NO:	**NJ000604.0021**	DRILLER:	**David Beardsley**		
SITE LOCATION:	**Ringwood, NJ**	DRILL EQUIP:	**T-650-WII Reich Rig**	SCREEN SLOT SIZE:	**N/A**
GEOLOGIST:	**Brooke Mason**	SIZE/TYPE OF BIT:	**6" pilot/10" hammer bit**	SAND PACK AMT./TYPE:	**N/A**
DATE STARTED:	**12-10-2008**	BOREHOLE DIAMETER:	**6"**	RISER LENGTH/TYPE:	**N/A**
DATE COMPLETED:	**12-12-2008**	SAMPLE METHOD:	**Air Rotary**	RISER STICK UP (asl):	**3 ft**
WEATHER COND:	**40s, Cloudy**	PERMIT NO.:	**2300020172**	WATER TABLE DEPTH:	**40 ft bsl**
		ELEVATION (ft msl):	**569.0**		
		STATE PLANE COORDINATES (ft):	X= **553944.4**	Y= **837484.7**	

DEPTH (feet)	Lithology Symbol	STRATIGRAPHIC UNITS	SOIL DESCRIPTION	WELL CONSTRUCTION DETAILS
0		BEDROCK	(0.0 - 10.0) BEDROCK: 12/10/2008 6" pilot/10" hammer bit. Rock flour and rock chips (C.sand to granules), dry, medium gray from 0-8', light gray from 8-10', Diorite Drilling Rate 1ft/4-5 minutes (10" bit w/ 6" pilot hole) Bit is worn Fractures or seams at 4, 6-6.5. 6.5-10 is a little softer Grout 6" casing in 10" hole to 10' and grout in place, let set for 24 hours.	Riser (3 ft asl) Bedrock (3' bsl) 10" Steel Casing (0-13')
10		BEDROCK		6" diameter, hammer bit
20			(10.0 - 60.0) BEDROCK: 12/11-12/12/2008 Begin drilling with a 6" hammer bit. Same as above with varying color in cutting from medium gray to dark gray in seams and fractures. Saturated around 50-60' where the cuttings turned clumpy (pudding consistency) with sand and silt size material, water/cuttings mixture return at around <5 gal/min.	
30				
40				Water Table (40 ft bsl)
50				
60		BEDROCK	(60.0 - 95.0) BEDROCK: Same as above Fractures were identified by drill stem shutter and a change in color of the return to a dark gray. Fractures at 78-79', 130', 139', 160', 190'. 110' Drilling rate 1'/22 sec. 139-160' the cuttings were dark gray with intermittent light to medium gray return every 3-4 feet. These are interpreted as less competent rock seams. 175-200' is more competent and the cuttings turned a lighter color of gray, medium gray. Drilling rate 1'/1.5 min	
70				
80				
90				

Notes: bsl: below surface level MSL: Mean Sea Level PID: Photo-Ionization Detector asl: above surface level

WELL CONSTRUCTION LOG

WELL ID: **RW-8**

TOTAL DEPTH: **219 ft bsl**

DEPTH (feet)	Lithology Symbol	STRATIGRAPHIC UNITS	SOIL DESCRIPTION	WELL CONSTRUCTION DETAILS
100		BEDROCK	(95.0 - 219.0) BEDROCK: Same as above	
110				
120				
130				
140				
150				
160				
170				
180				
190				
200				
210				

Notes: bsl: below surface level MSL: Mean Sea Level PID: Photo-Ionization Detector asl: above surface level

R2-0005536

WELL CONSTRUCTION LOG

WELL ID: **RW-9**

TOTAL DEPTH: **220 ft bsl**

PROJECT INFORMATION		DRILLING INFORMATION		WELL INFORMATION	
PROJECT NAME:	**Ringwood**	DRILLING CONTRACTOR:	**Default Listing**	SCREEN LENGTH/TYPE:	**N/A**
PROJECT NO:	**NJ000604.0021**	DRILLER:	**David Beardsley**		
SITE LOCATION:	**Ringwood, NJ**	DRILL EQUIP:	**T-650-WII Reich Rig**	SCREEN SLOT SIZE:	**N/A**
GEOLOGIST:	**Brooke Mason**	SIZE/TYPE OF BIT:	**6" pilot/10" hammer bit**	SAND PACK AMT./TYPE:	**N/A**
DATE STARTED:	**12-10-2008**	BOREHOLE DIAMETER:	**6"**	RISER LENGTH/TYPE:	**N/A**
DATE COMPLETED:	**12-12-2008**	SAMPLE METHOD:	**Air Rotary**	RISER STICK UP (asl):	**3 ft**
WEATHER COND:	**40s, Cloudy**	PERMIT NO.:	**2300020172**	WATER TABLE DEPTH:	**40 ft bsl**
		ELEVATION (ft msl):	**569.0**		
		STATE PLANE COORDINATES (ft):	X= **553944.4**	Y= **837484.7**	

DEPTH (feet)	Lithology Symbol	STRATIGRAPHIC UNITS	SOIL DESCRIPTION	WELL CONSTRUCTION DETAILS
0		BEDROCK	(0.0 - 9.0) BEDROCK: Highly weathered rock, light to medium gray return	Riser (3 ft asl) 10" Steel Casing (0-22')
10		BEDROCK	(9.0 - 10.0) BEDROCK: Highly weathered rock, light to medium gray return	Bedrock (12' bsl)
		BEDROCK	(10.0 - 20.0) BEDROCK: Rock flour and rock chips (F-C sand to granules), dry, medium gray, dry, Diorite Grout 6" casing in 10" hole and grout in place, let set for 24 hours.	
20		BEDROCK	(20.0 - 95.0) BEDROCK: 2/13/2008 Begin drilling with a 6" hammer bit. Same as above with varying color in cutting from medium gray to dark gray in seams and fractures. Saturated around 50-60' where the cuttings turned clumpy (pudding consistency) with sand and silt size material, water/cuttings mixture 20' Drilling rate 1'/min 40' Drilling rate 1'/108 sec. 58' Drilling rate 1'/55 sec.	Water Table (22 ft bsl) 6" diameter, hammer bit
30				
40				
50				
60				
70				
80				
90				

Notes: bsl: below surface level MSL: Mean Sea Level PID: Photo-Ionization Detector asl: above surface level

WELL CONSTRUCTION LOG

WELL ID: **RW-9**

TOTAL DEPTH: **220 ft bsl**

DEPTH (feet)	Lithology Symbol	STRATIGRAPHIC UNITS	SOIL DESCRIPTION	WELL CONSTRUCTION DETAILS
100		BEDROCK	(95.0 - 220.0) BEDROCK: Same as above	
110				
120				
130				
140				
150				
160				
170				
180				
190				
200				
210				
220				

Notes: bsl: below surface level MSL: Mean Sea Level PID: Photo-Ionization Detector asl: above surface level

R2-0005538

WELL CONSTRUCTION LOG

ARCADIS

WELL ID: **RW-10**

TOTAL DEPTH: **220 ft bsl**

PROJECT INFORMATION		DRILLING INFORMATION		WELL INFORMATION	
PROJECT NAME:	**Ringwood**	DRILLING CONTRACTOR:	**Default Listing**	SCREEN LENGTH/TYPE:	**N/A**
PROJECT NO:	**NJ000604.0021**	DRILLER:	**David Beardsley**		
SITE LOCATION:	**Ringwood, NJ**	DRILL EQUIP:	**T-650-WII Reich Rig**	SCREEN SLOT SIZE:	**N/A**
GEOLOGIST:	**Jeff Seier**	SIZE/TYPE OF BIT:	**6" pilot/10" hammer bit**	SAND PACK AMT./TYPE:	**N/A**
DATE STARTED:	**12-10-2008**	BOREHOLE DIAMETER:	**6"**	RISER LENGTH/TYPE:	**N/A**
DATE COMPLETED:	**12-12-2008**	SAMPLE METHOD:	**Air Rotary**	RISER STICK UP (asl):	**3 ft**
WEATHER COND:	**40s, Cloudy**	PERMIT NO.:	**2300020172**	WATER TABLE DEPTH:	**40 ft bsl**
		ELEVATION (ft msl):	**569.0**		
		STATE PLANE COORDINATES (ft):	X= **553944.4**	Y= **837484.7**	

DEPTH (feet)	Lithology Symbol	STRATIGRAPHIC UNITS	SOIL DESCRIPTION	WELL CONSTRUCTION DETAILS
0		BEDROCK	(0.0 - 3.0) BEDROCK: 12/10/2008 6" pilot/10" hammer bit Overburden, fill material with pea gravel and cobbles.	Riser (3 ft asl) Bedrock (3' bsl)
10		BEDROCK	(3.0 - 12.0) BEDROCK: Rock flour and rock chips (C.sand to granules), dry, medium gray from 0-8', light gray from 8-10', Diorite Drill shutters every 6 inches.	10" Steel Casing (0-13')
20		BEDROCK	(12.0 - 13.0) BEDROCK: Rock is more competent, more rock flour and less chips, dry. Grout 6" casing in 10" hole to 13' and grout in place, let set for 24 hours.	6" diameter, hammer bit Water Table (22 ft bsl)
30		BEDROCK	(13.0 - 60.0) BEDROCK: 12/11/2008 through 12/12/2008 Begin drilling with a 6" hammer bit. Same as above with varying color in cutting from medium gray to dark gray in seams and fractures. Saturated around 50-60' where the cuttings turned clumpy with sand and silt size material, water/cuttings mixture return at around <5 gal/min. Fractures were identified by drill stem shutter and/or a change in color of the return to a dark gray.	
40				
50				
60		BEDROCK	(60.0 - 95.0) BEDROCK: Same as above Fractures were identified by drill stem shutter and a change in color of the return to a dark gray. Fractures at 75', 91', 118'.and 190-195'. 140' there was a color change to medium gray, may be a fracture.	
70				
80				
90				

Notes: bsl: below surface level MSL: Mean Sea Level PID: Photo-Ionization Detector asl: above surface level

WELL CONSTRUCTION LOG

WELL ID: **RW-10**

TOTAL DEPTH: **220 ft bsl**

DEPTH (feet)	Lithology Symbol	STRATIGRAPHIC UNITS	SOIL DESCRIPTION	WELL CONSTRUCTION DETAILS
100		BEDROCK	(95.0 - 220.0) BEDROCK: Same as above	
110				
120				
130				
140				
150				
160				
170				
180				
190				
200				
210				
220				

Notes: bsl: below surface level MSL: Mean Sea Level PID: Photo-Ionization Detector asl: above surface level

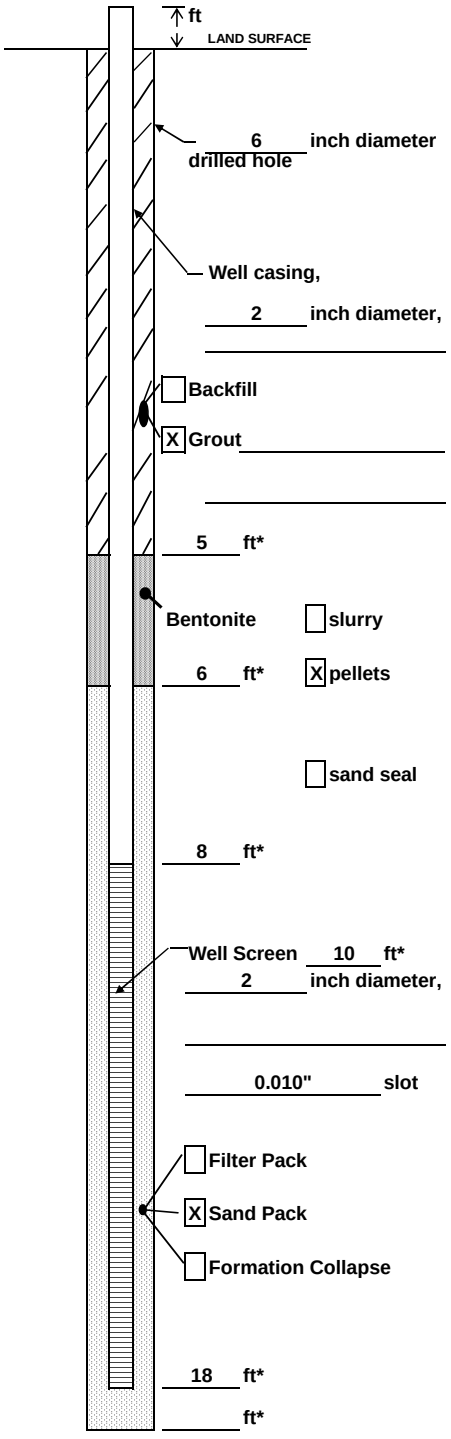
ARCADIS

Appendix G

Groundwater Sampling Logs

ARCADIS

Well Construction Log
(Unconsolidated)



Project Name and No. Ringwood Mines/ Landfill Site

Well OB-30A **Town/City** Ringwood

County Passaic **State** New Jersey

Permit No.

Land-Surface Elevation and Datum:

~530 feet feet ☐ Surveyed ☒ Estimated

Installation Date(s) 04/09/12

Drilling Method Sonic

Drilling Contractor Summit Drilling

Drilling Fluid Water

Development Technique(s) and Date(s)

Surging with submersible pump on 04/19/2012

Fluid Loss During Drilling gallons

Water Removed During Development 5 gallons

Static Depth to Water feet below M.P.**

Pumping Depth to Water feet below M.P.**

Pumping Duration 0.5 hours

Yield gpm **Date**

Specific Capacity gpm/ft

Well Purpose

Remarks

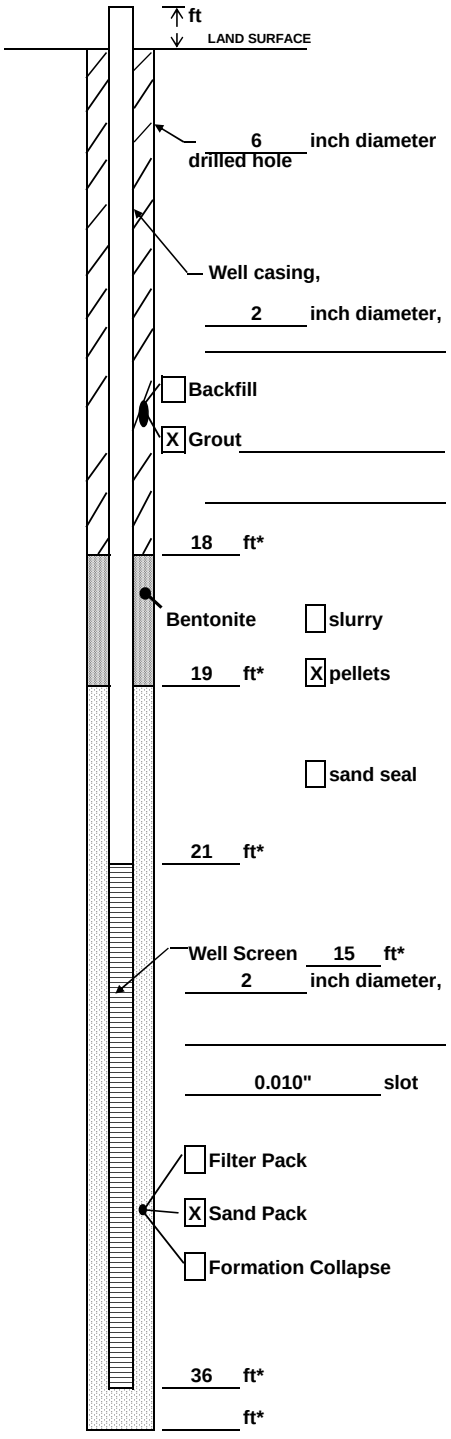
* Depth Below Land Surface

**Measuring Point is Top of Well Casing Unless Otherwise Noted.

Prepared by Paul Krupin

ARCADIS

Well Construction Log
(Unconsolidated)



Project Name and No. Ringwood Mines/ Landfill Site

Well OB-30B **Town/City** Ringwood

County Passaic **State** New Jersey

Permit No.

Land-Surface Elevation and Datum:

~530 feet feet ☐ Surveyed

☒ Estimated

Installation Date(s) 04/09/12

Drilling Method Sonic

Drilling Contractor Summit Drilling

Drilling Fluid Water

Development Technique(s) and Date(s)

Surging with submersible pump on 04/19/2012

Fluid Loss During Drilling gallons

Water Removed During Development 20 gallons

Static Depth to Water feet below M.P.**

Pumping Depth to Water feet below M.P.**

Pumping Duration 0.75 hours

Yield gpm **Date**

Specific Capacity gpm/ft

Well Purpose

Remarks

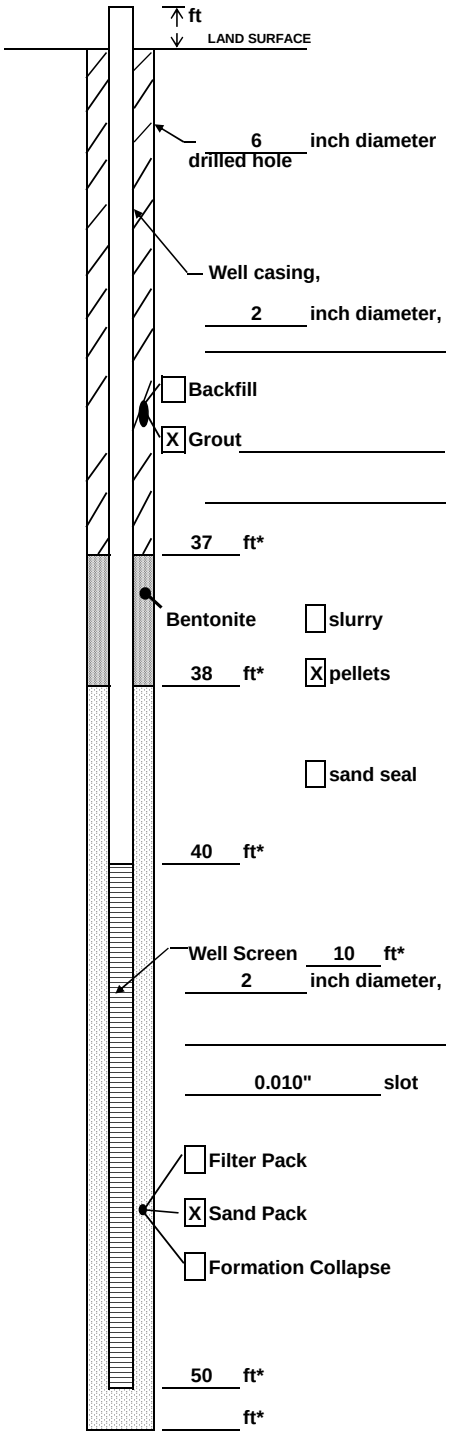
* Depth Below Land Surface

**Measuring Point is Top of Well Casing Unless Otherwise Noted.

Prepared by Paul Krupin

ARCADIS

Well Construction Log
(Unconsolidated)



Project Name and No. Ringwood Mines/ Landfill Site

Well OB-30C **Town/City** Ringwood

County Passaic **State** New Jersey

Permit No.

Land-Surface Elevation and Datum:

~530 feet feet ☐ Surveyed ☒ Estimated

Installation Date(s) 04/18/12

Drilling Method Air Rotary

Drilling Contractor Summit Drilling

Drilling Fluid Air

Development Technique(s) and Date(s)

Surging with submersible pump on 04/19/2012

Fluid Loss During Drilling gallons

Water Removed During Development 30 gallons

Static Depth to Water feet below M.P.**

Pumping Depth to Water feet below M.P.**

Pumping Duration 1 hours

Yield gpm **Date**

Specific Capacity gpm/ft

Well Purpose

Remarks

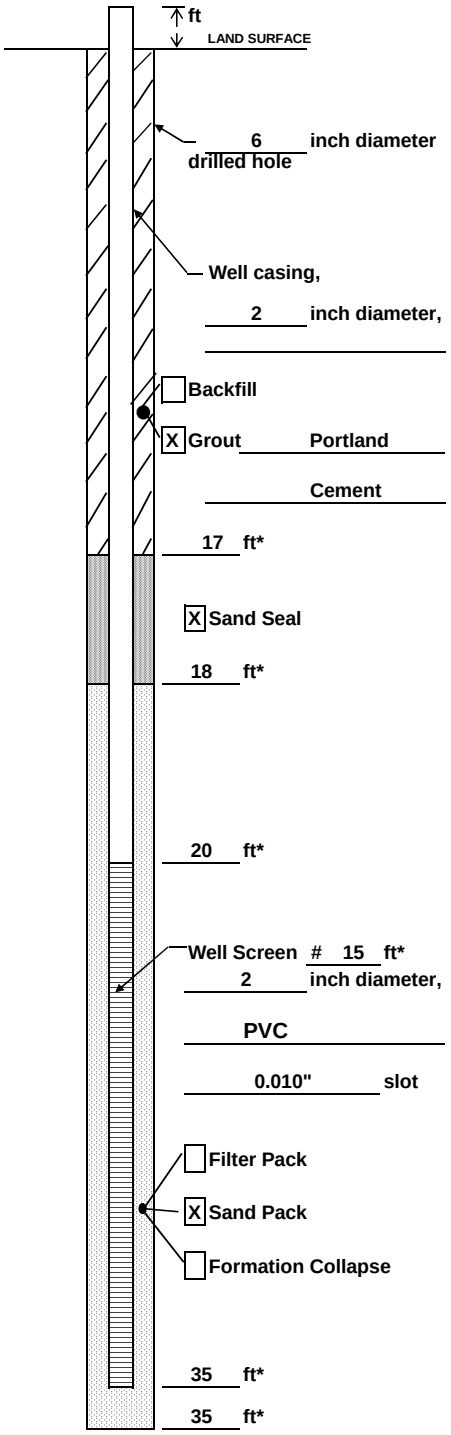
* Depth Below Land Surface

**Measuring Point is Top of Well Casing Unless Otherwise Noted.

Prepared by Paul Krupin

ARCADIS

Well Construction Log
(Unconsolidated)



Project Name and No. Ringwood Mines/ Landfill Site

Well OB-29 **Town/City** Ringwood

County Passaic **State** New Jersey

Permit No.

Land-Surface Elevation and Datum:

feet [X] Surveyed [ ] Estimated

Installation Date(s) 12/6/11 - 12/7/11

Drilling Method Sonic

Drilling Contractor Summit Drilling Company

Drilling Fluid None

Development Technique(s) and Date(s)

Surging with a submersible pump 12/7/11

Fluid Loss During Drilling NA gallons

Water Removed During Development 80 gallons

Static Depth to Water 5.60 feet below M.P.**

Pumping Depth to Water 20 - 35 feet below M.P.**

Pumping Duration 1.0 hour

Yield 1.3 gpm **Date** 12/7/2011

Specific Capacity 0.05 gpm/ft

Well Purpose Monitoring well

Remarks Well installed within Ringwood State Park - by Sally's Pond.
(Installed as a flushmount closer to the birdfeeder)

* Depth Below Land Surface

**Measuring Point is Top of Well Casing Unless Otherwise Noted.

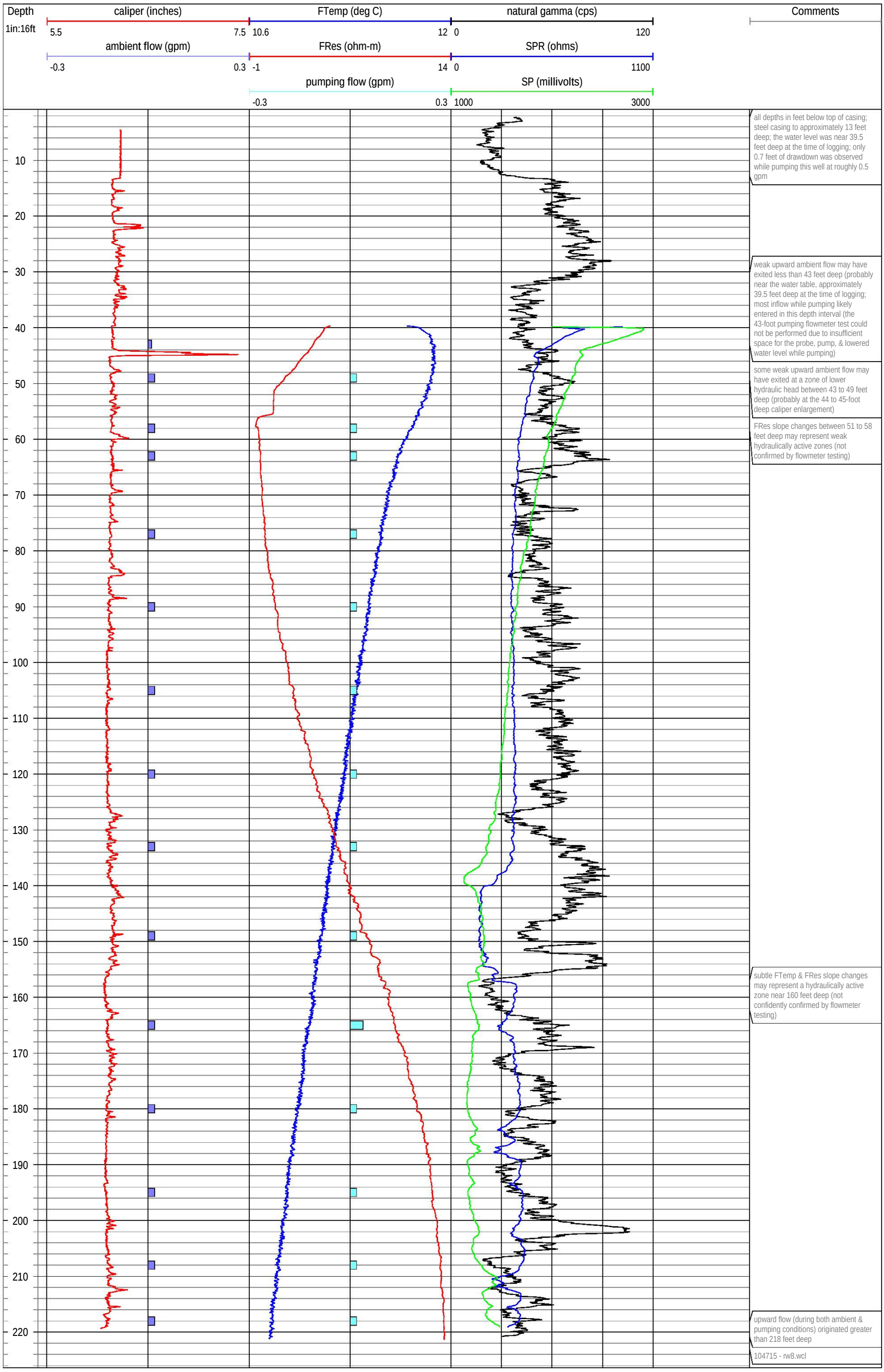
Prepared by Christin Cifelli

ARCADIS

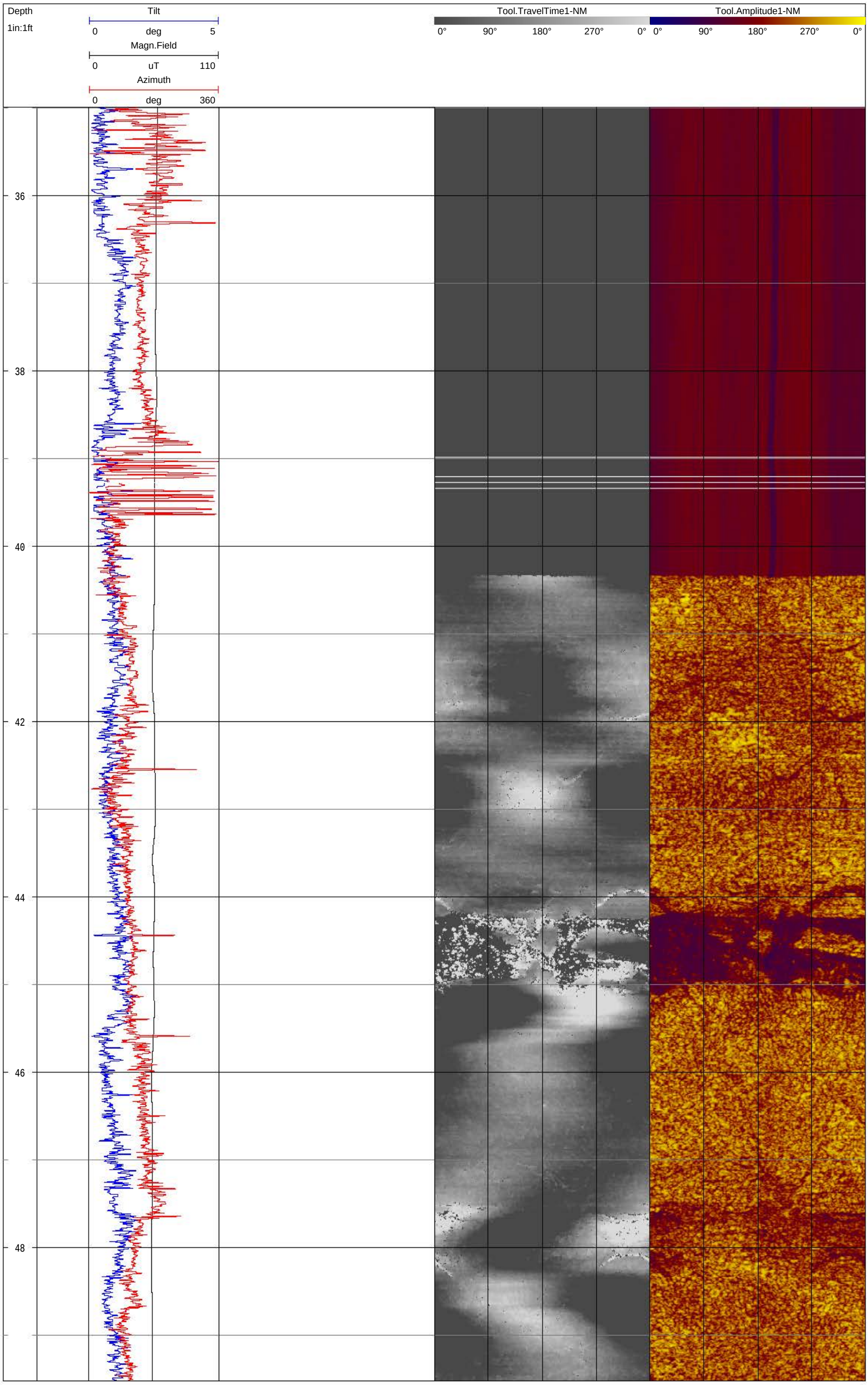
Appendix H

Borehole Geophysical Logs

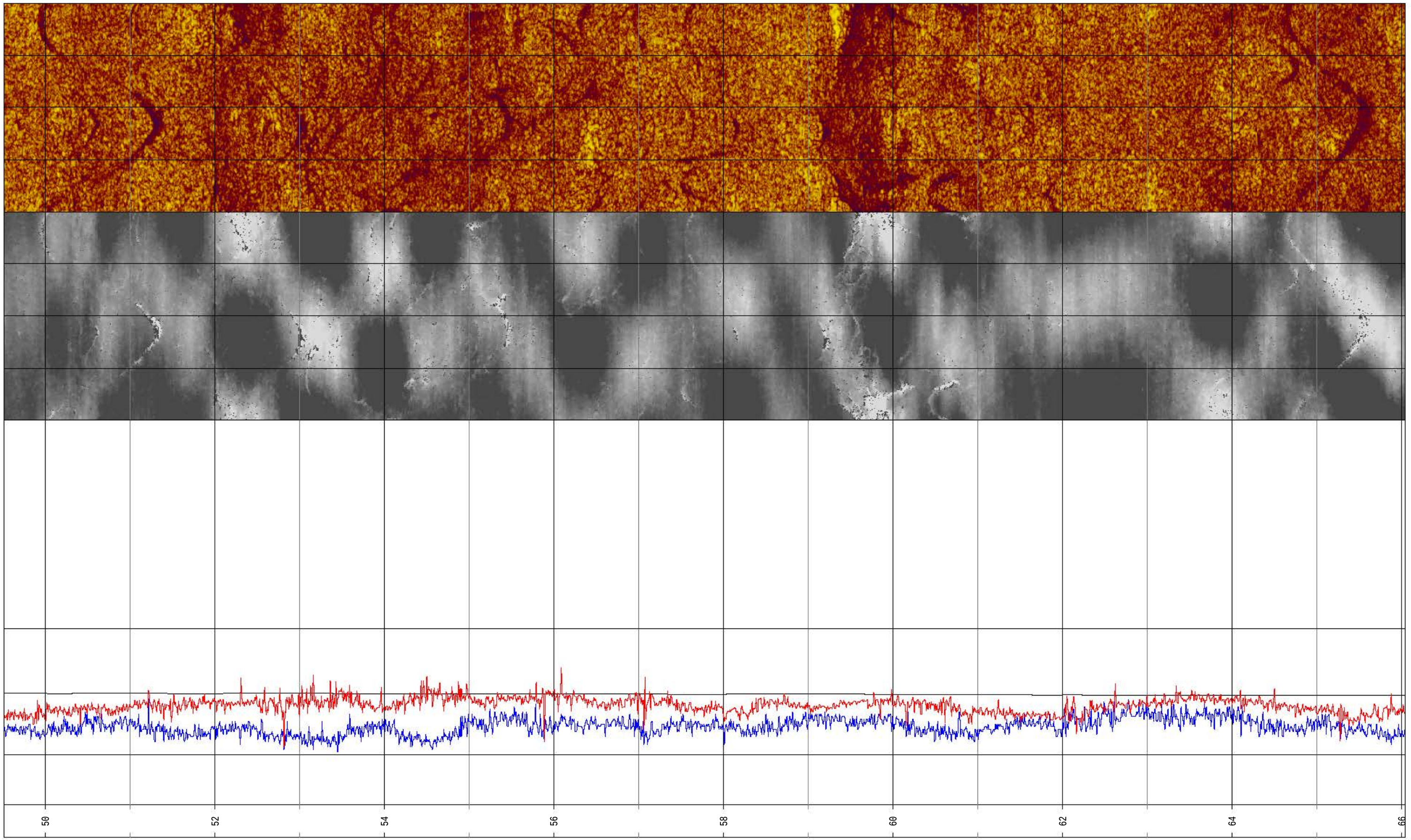
Arcadis / Ringwood, NJ - RW-8 conventional log plot



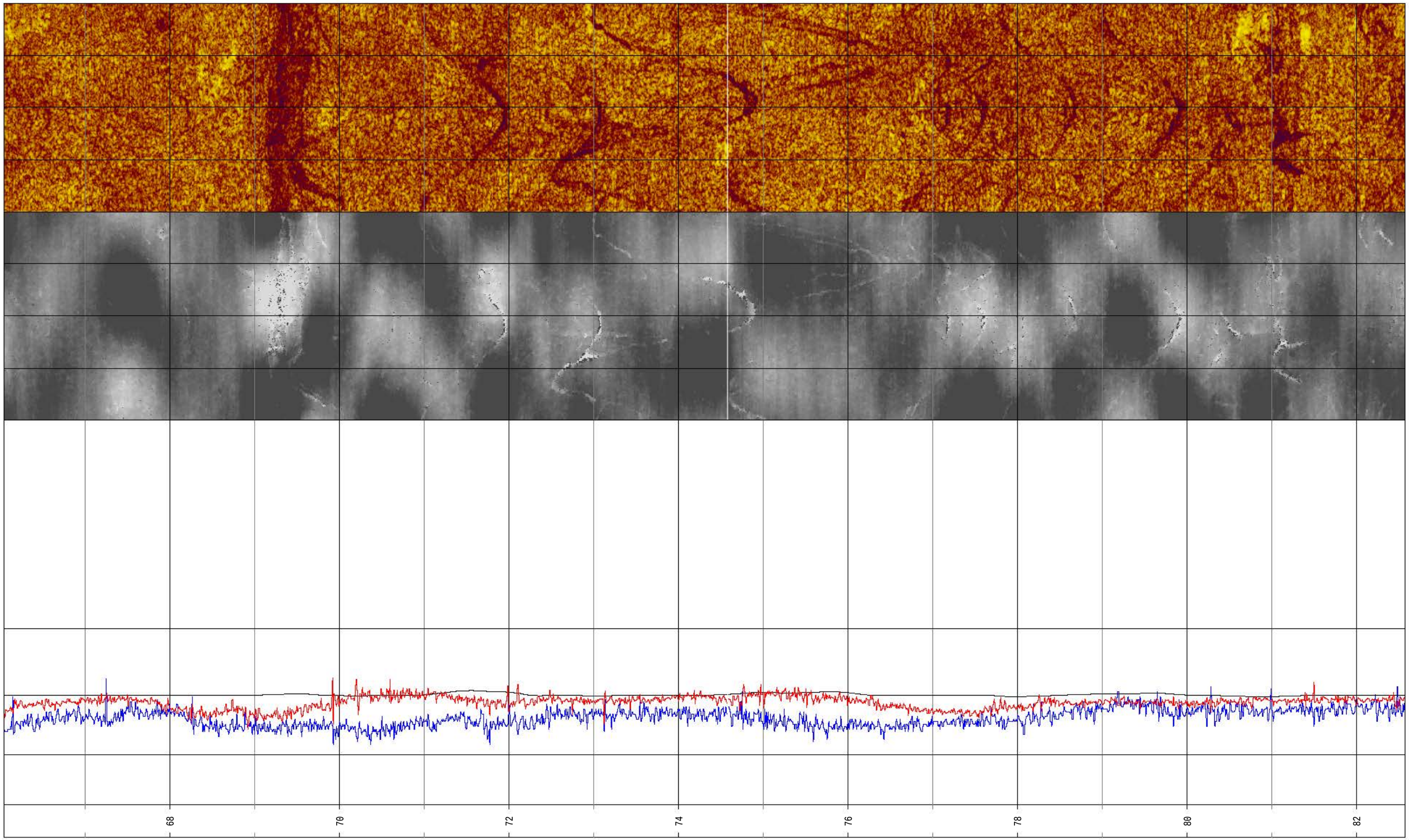
Arcadis / Ringwood, NJ - RW-8 acoustic televiewer log

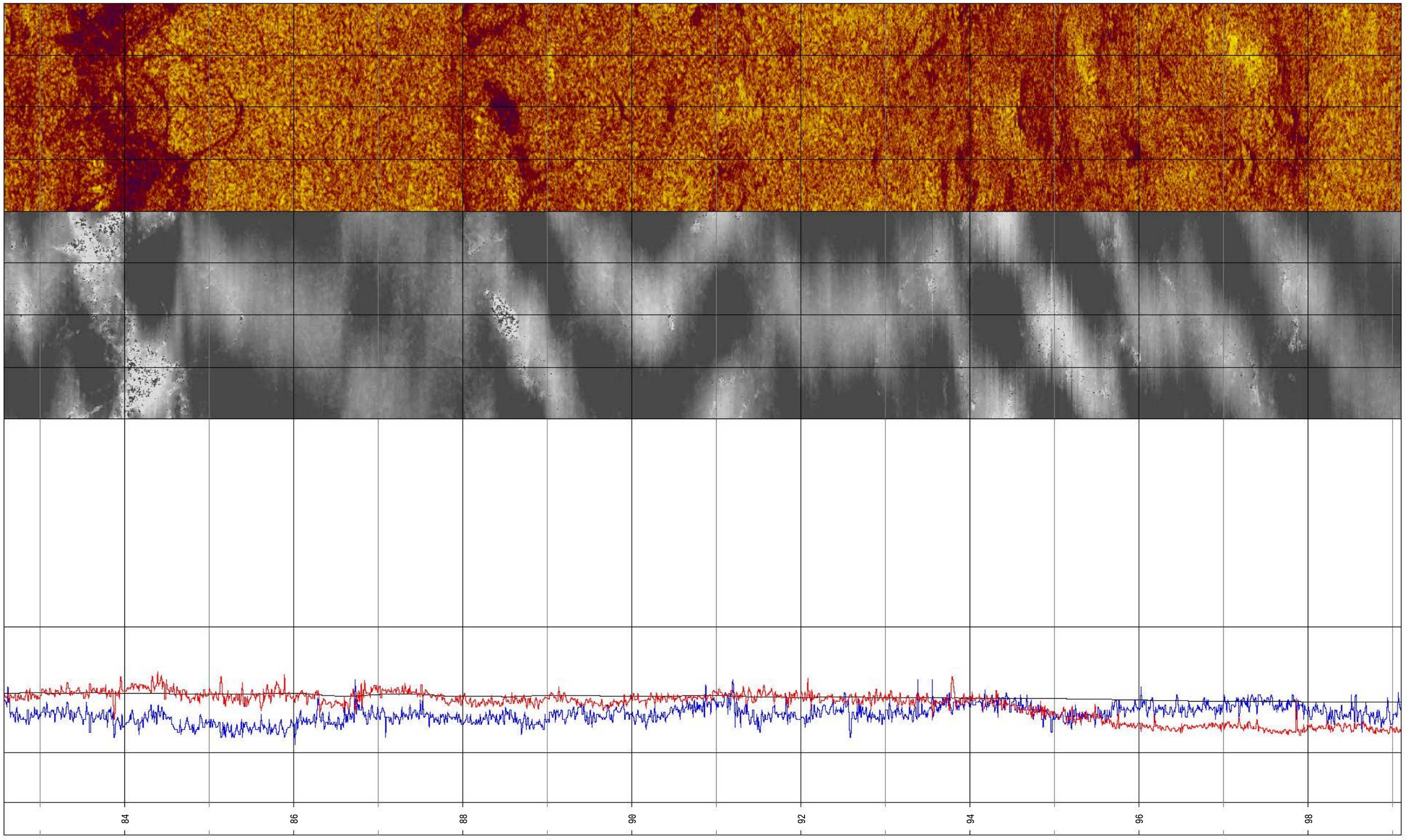


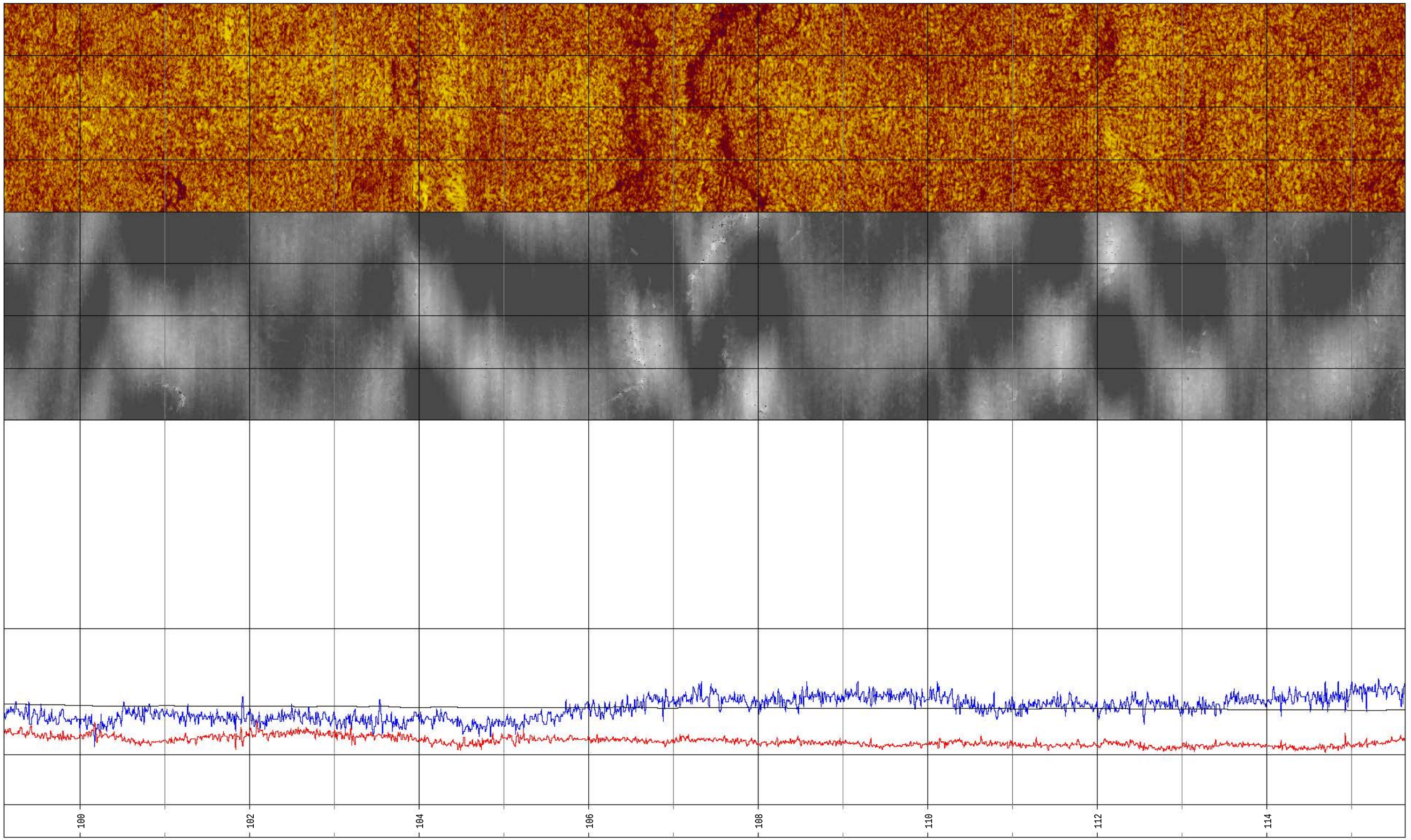
R2-0005549

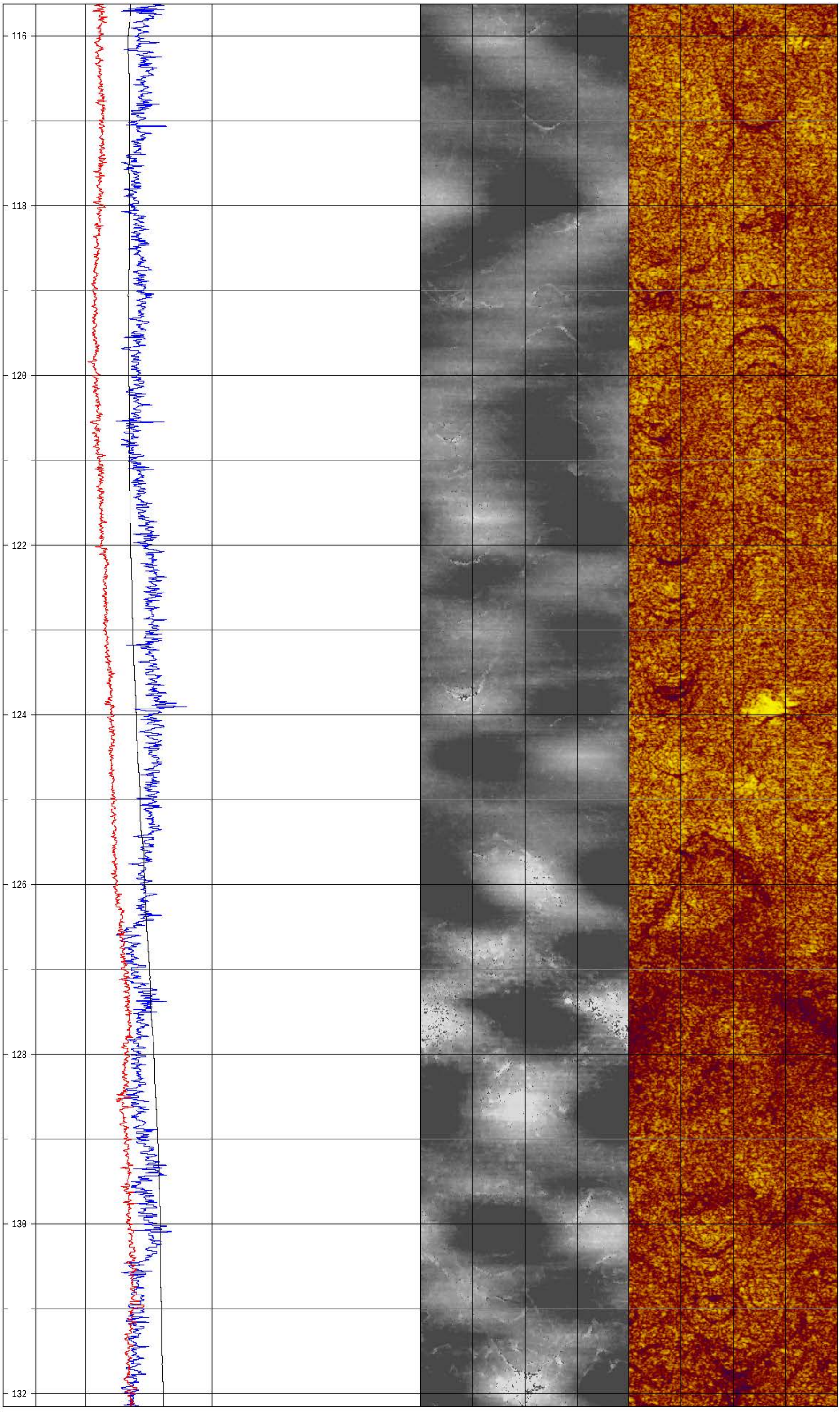


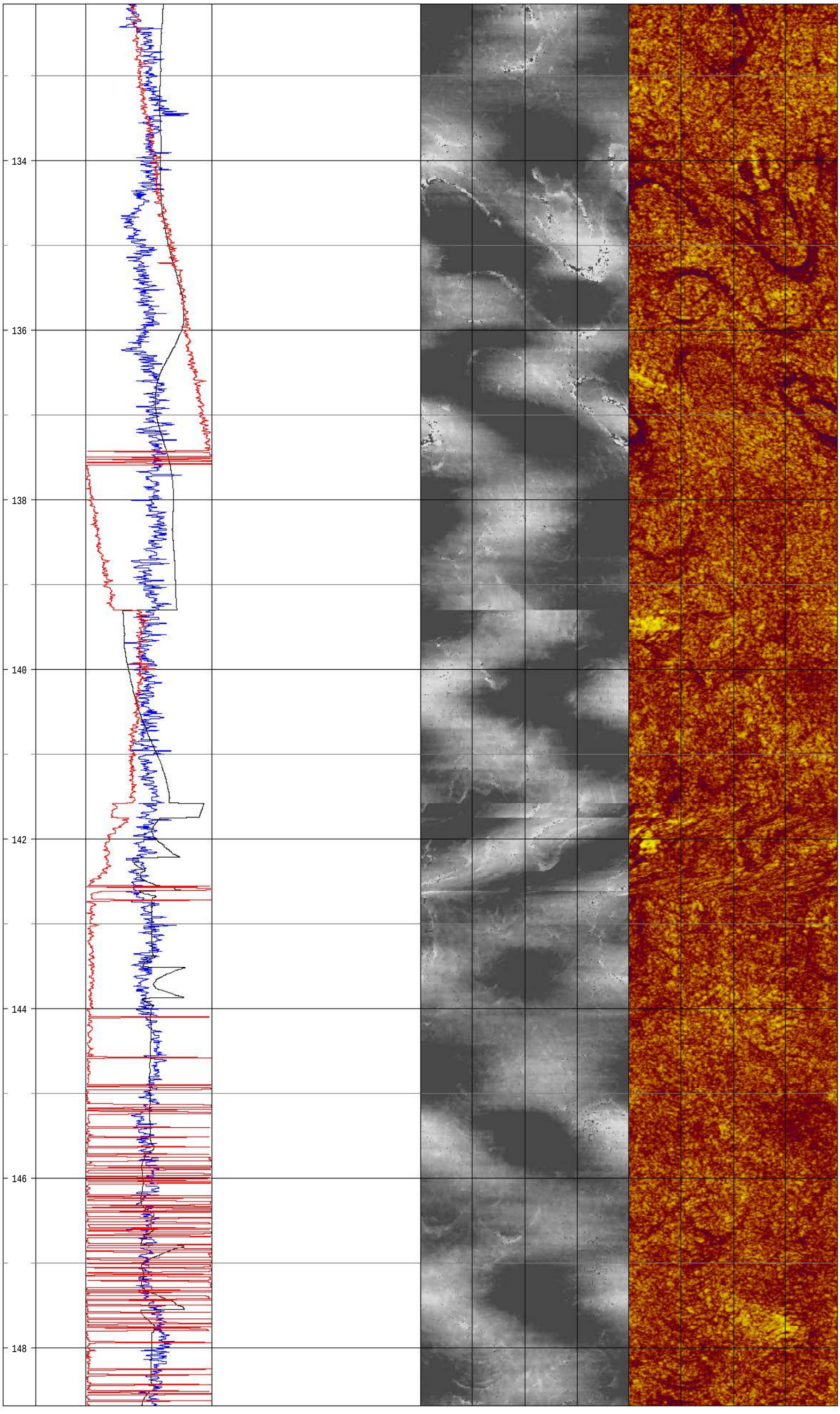
R2-0005550

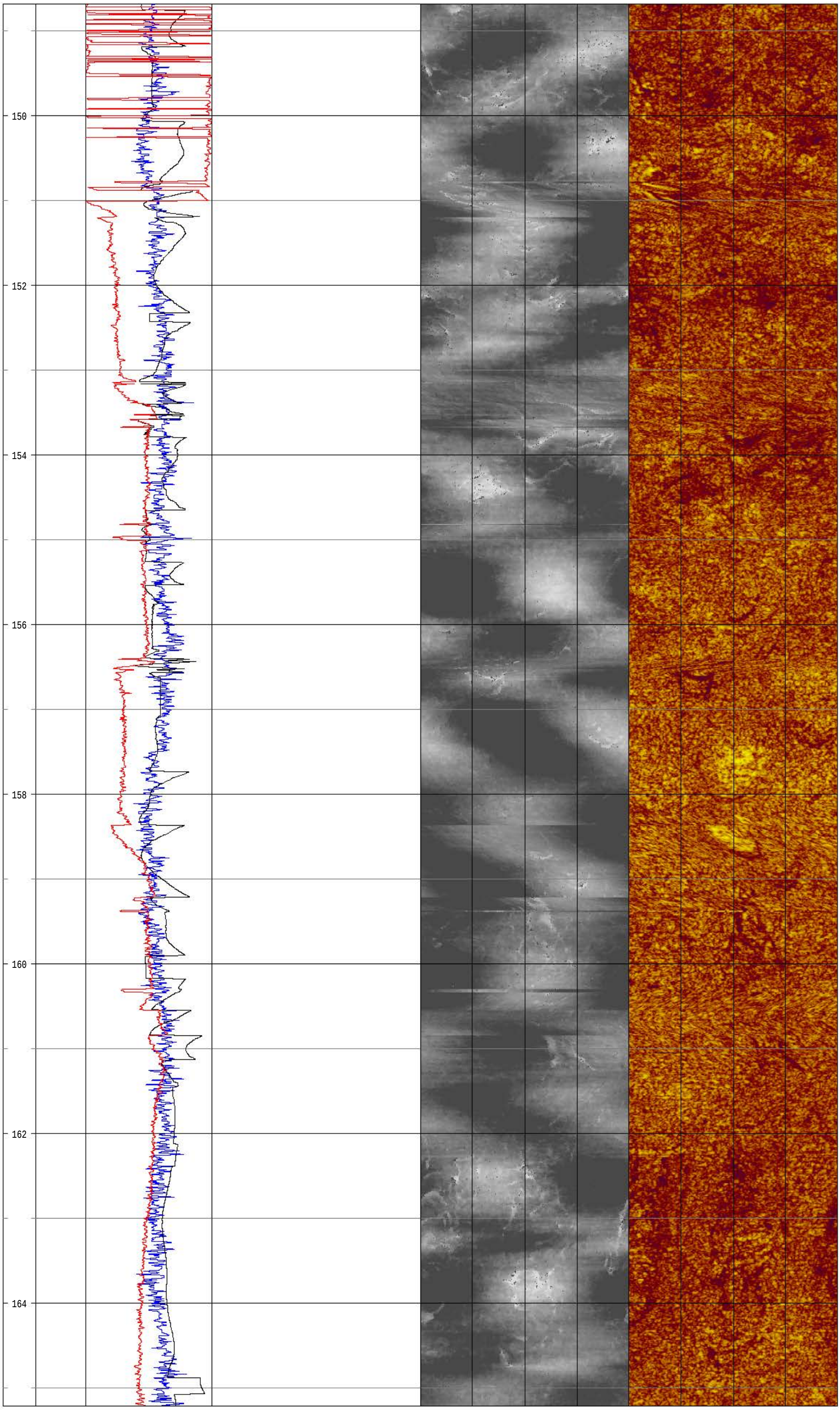


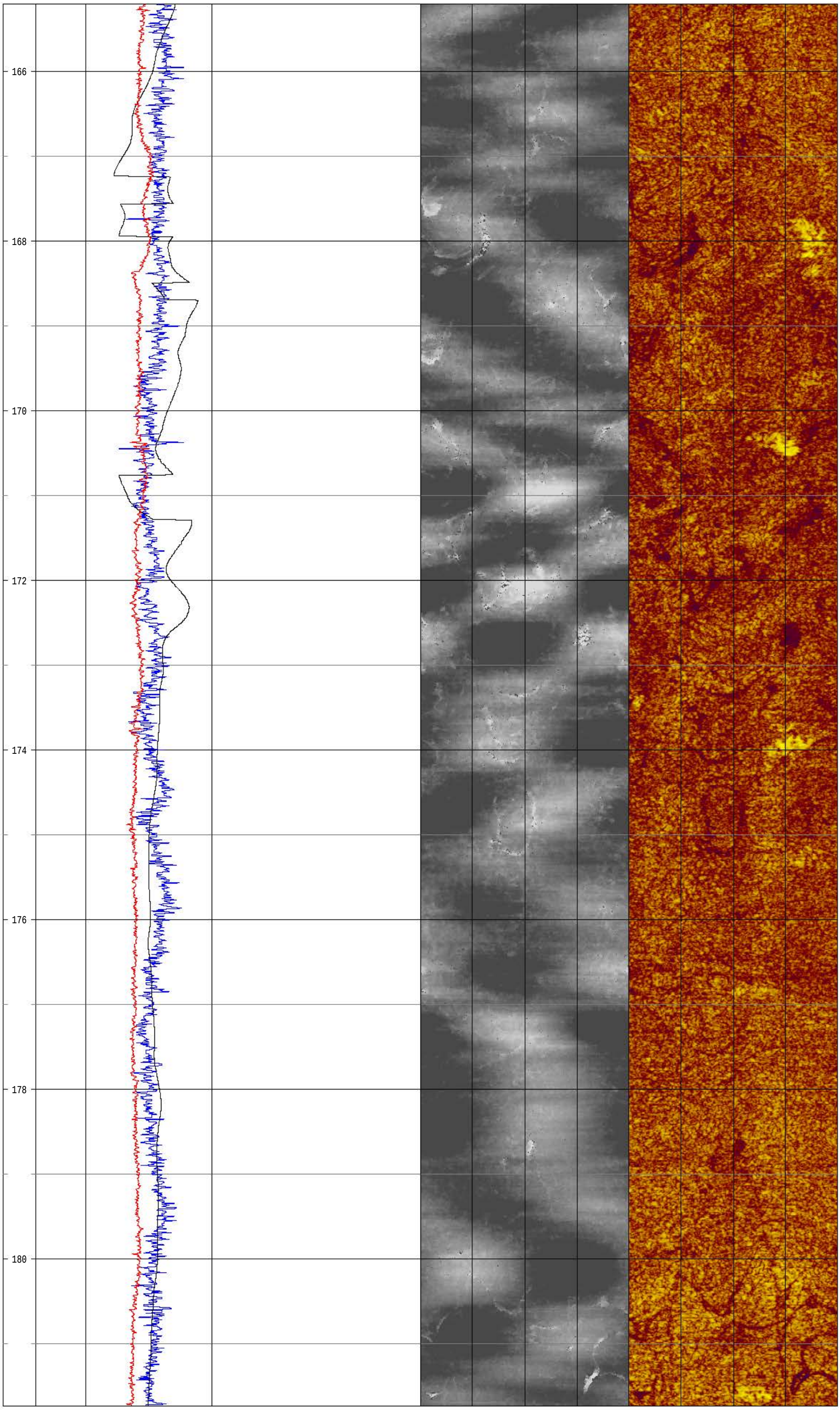

84
86
88
90
92
94
96
98

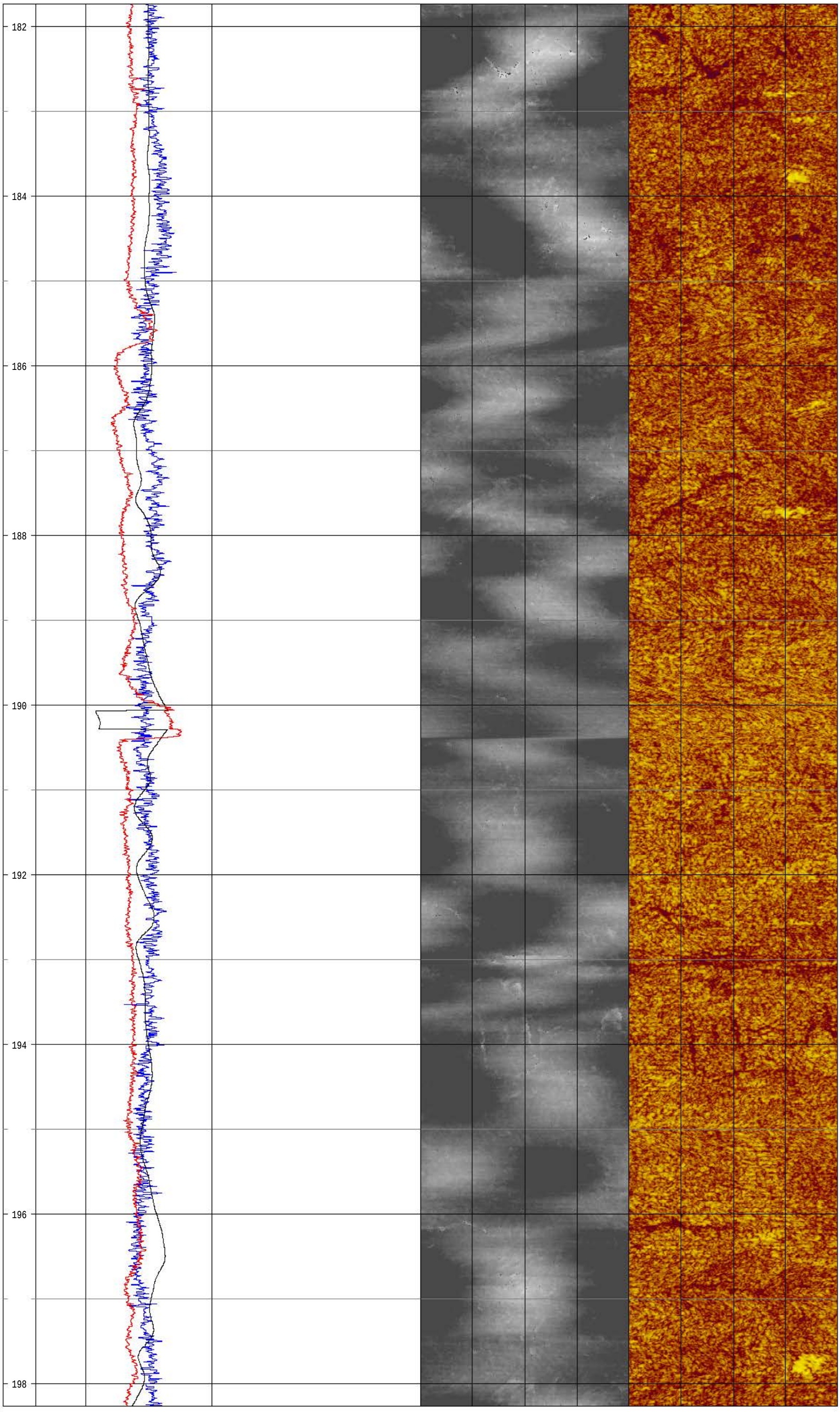

100
102
104
106
108
110
112
114

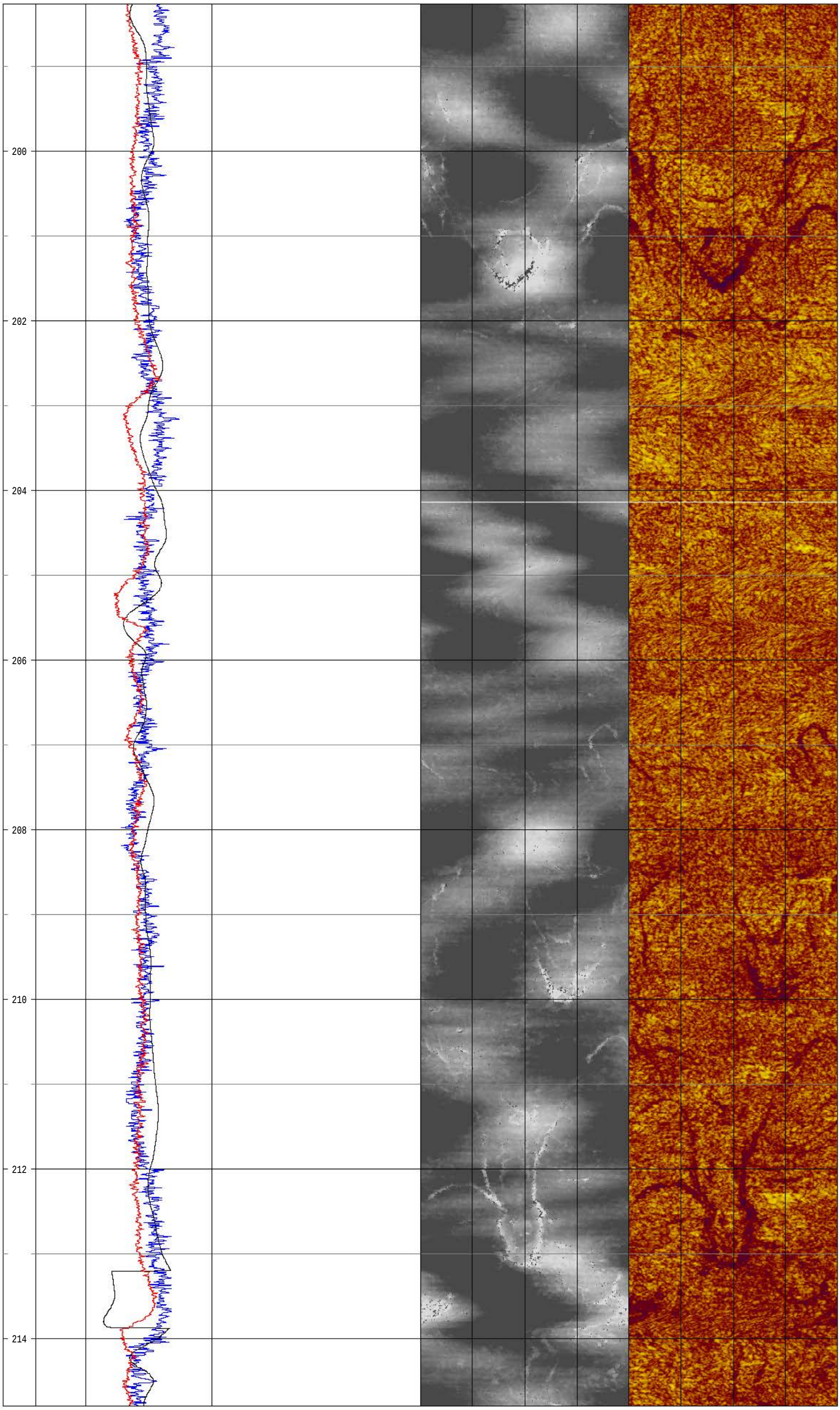

116
118
120
122
124
126
128
130
132

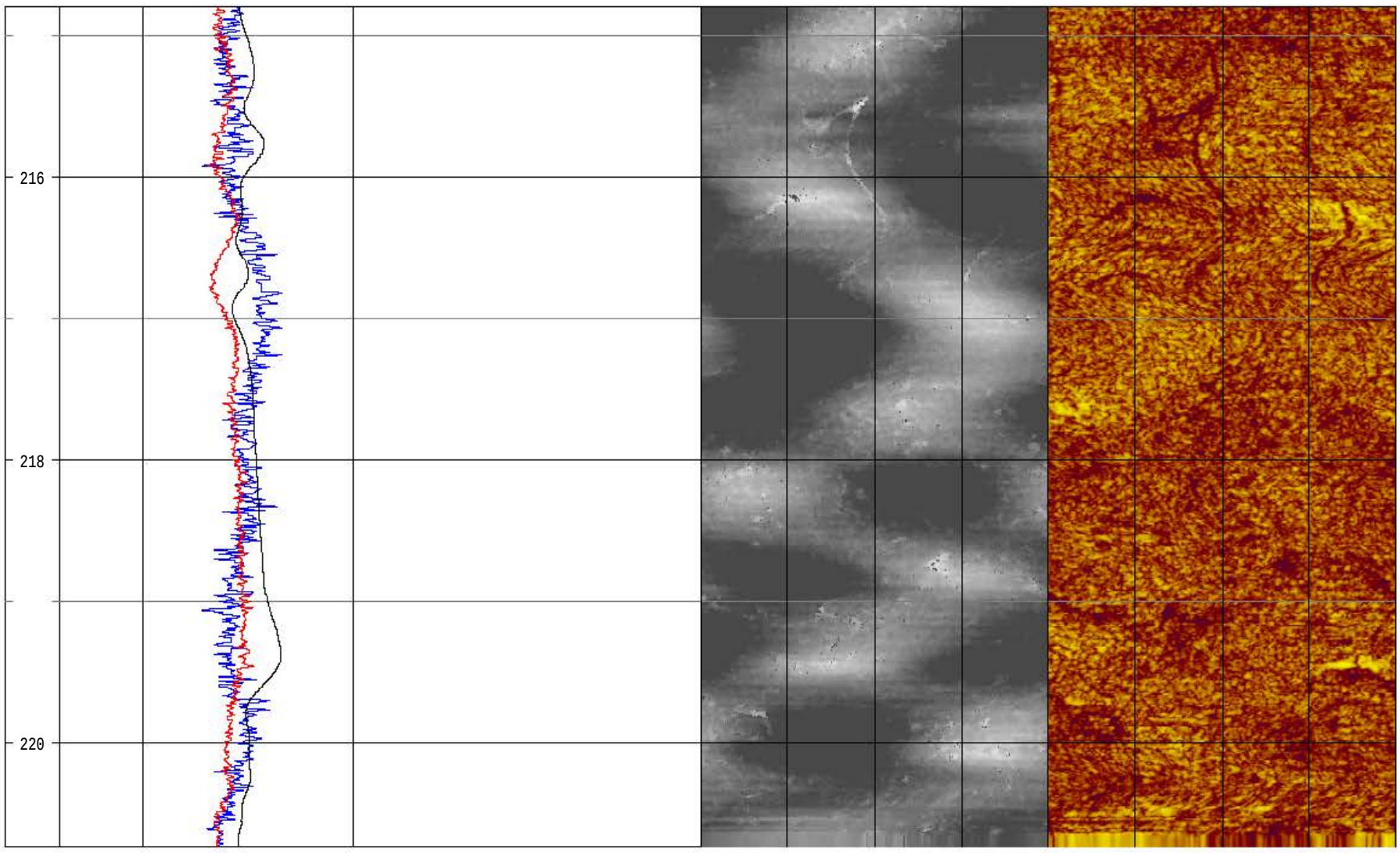

134
136
138
140
142
144
146
148


150
152
154
156
158
160
162
164

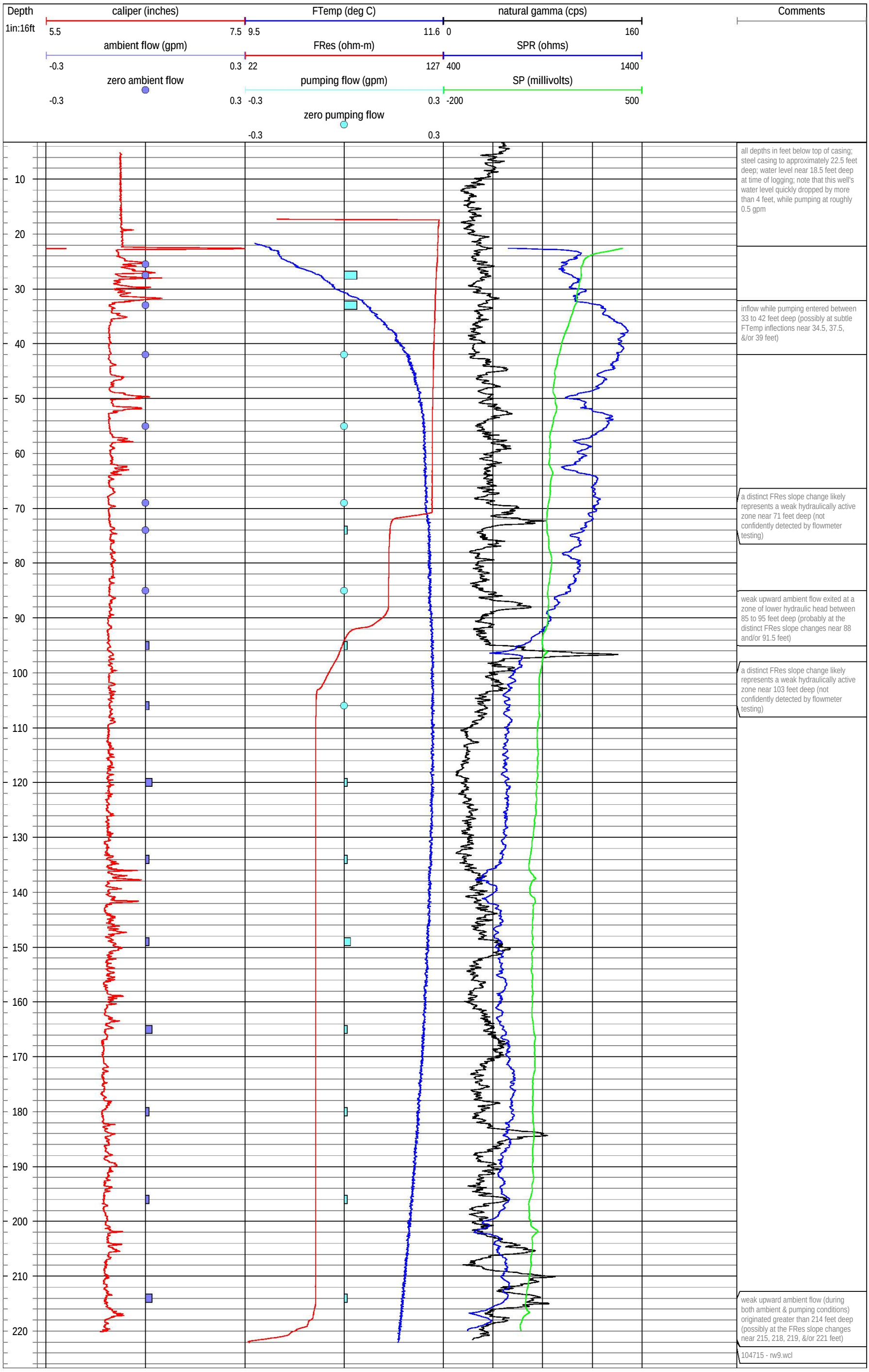

166
168
170
172
174
176
178
180

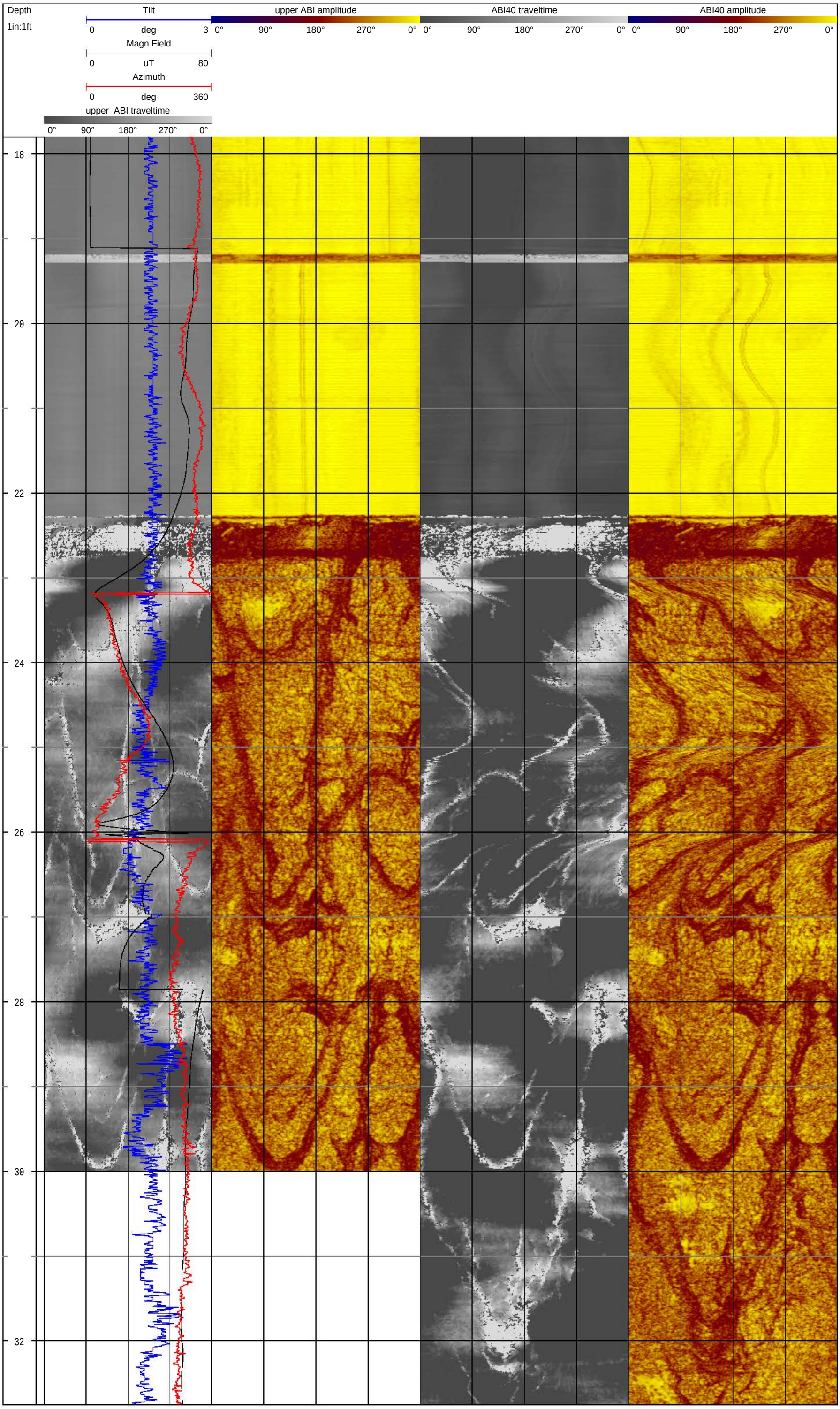

182
184
186
188
190
192
194
196
198

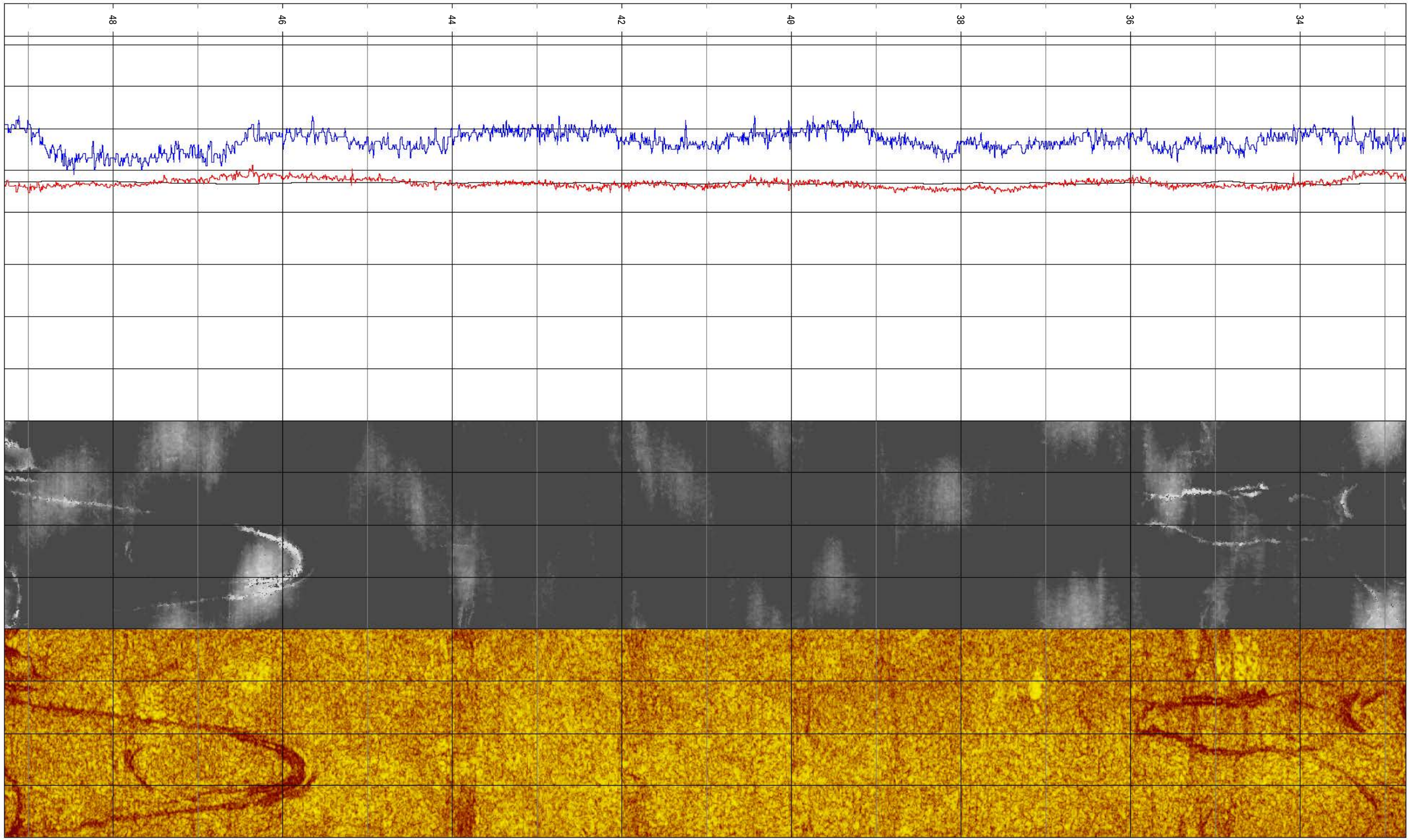

200
202
204
206
208
210
212
214

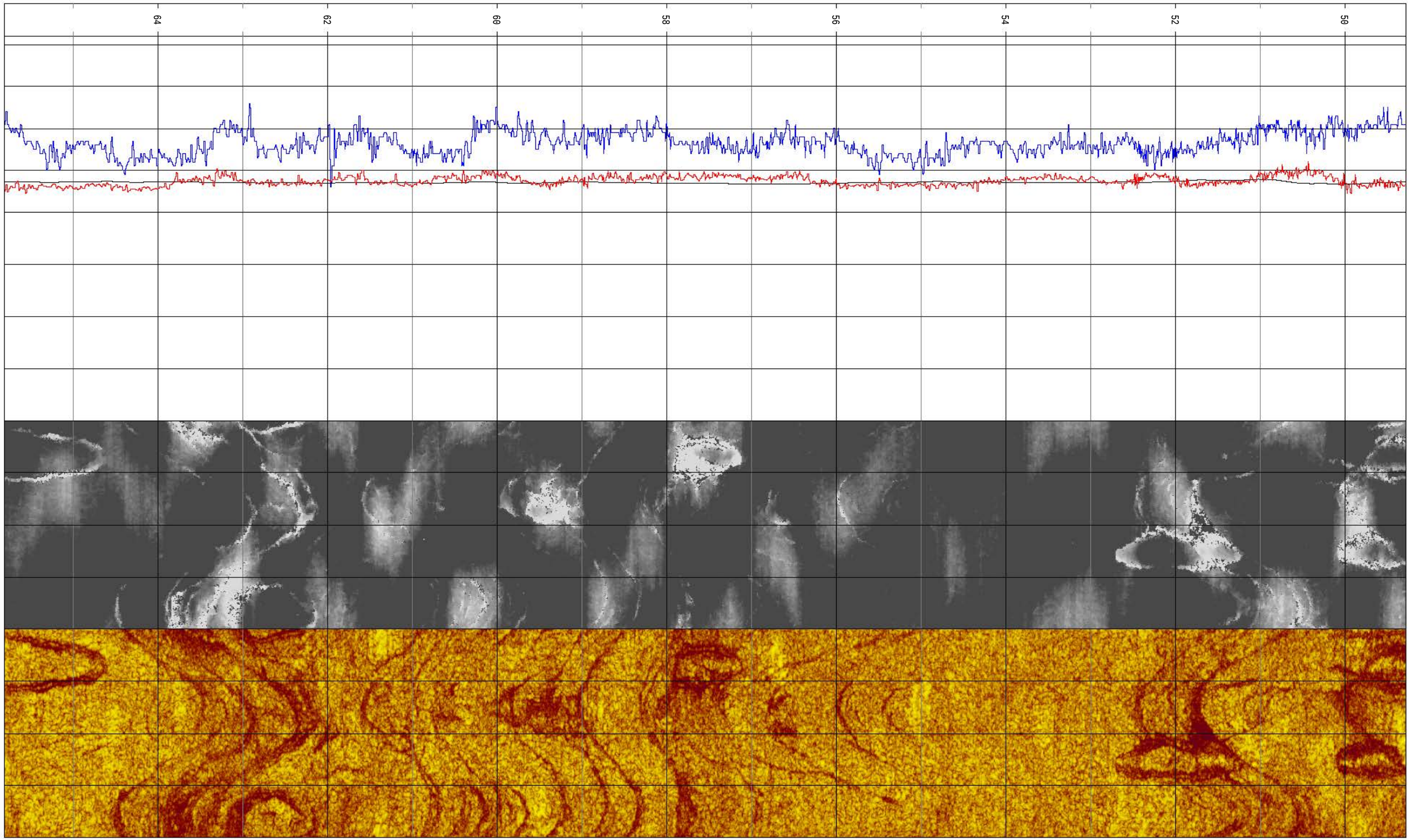

216
218
220

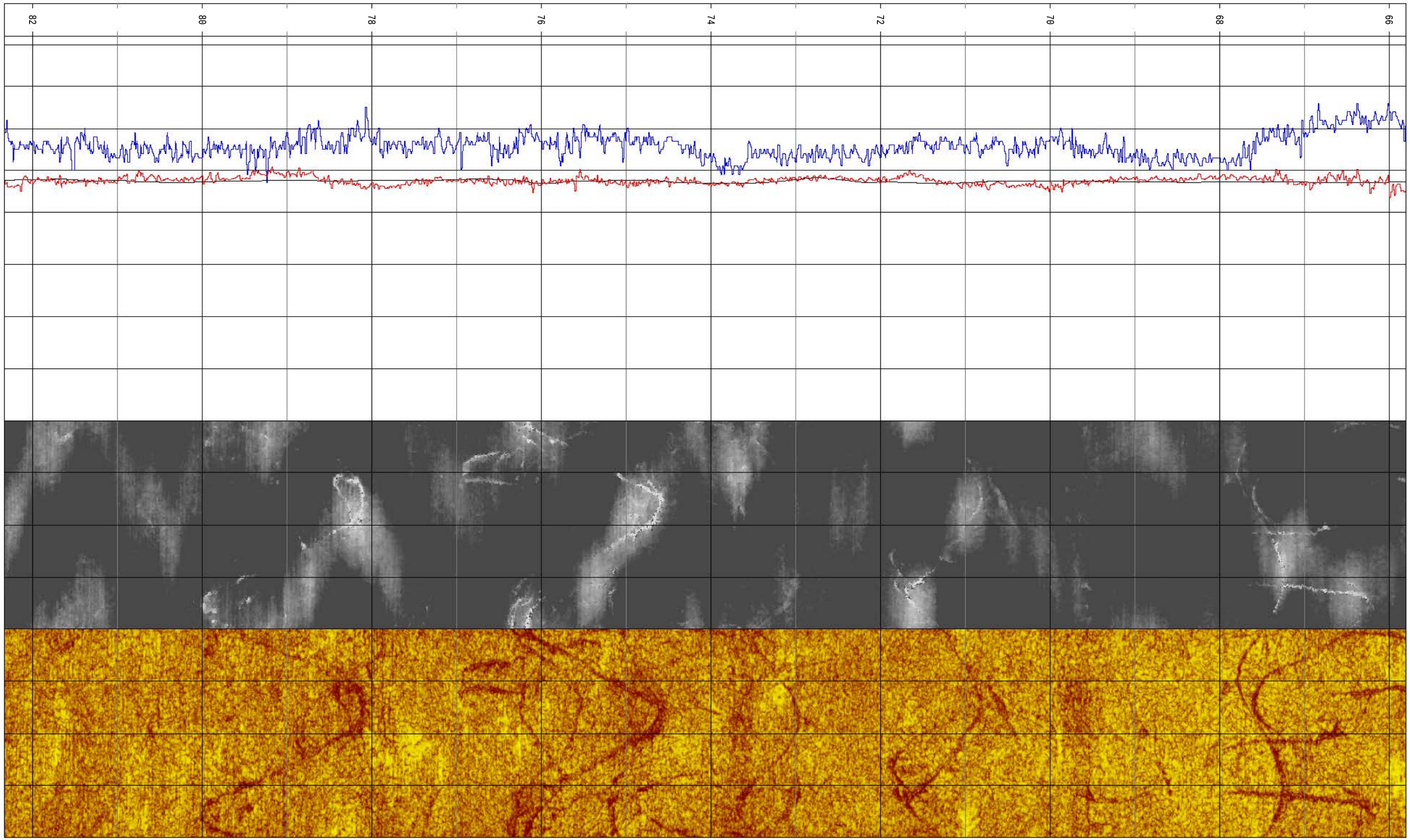
Arcadis / Ringwood, NJ - RW-9 conventional log plot

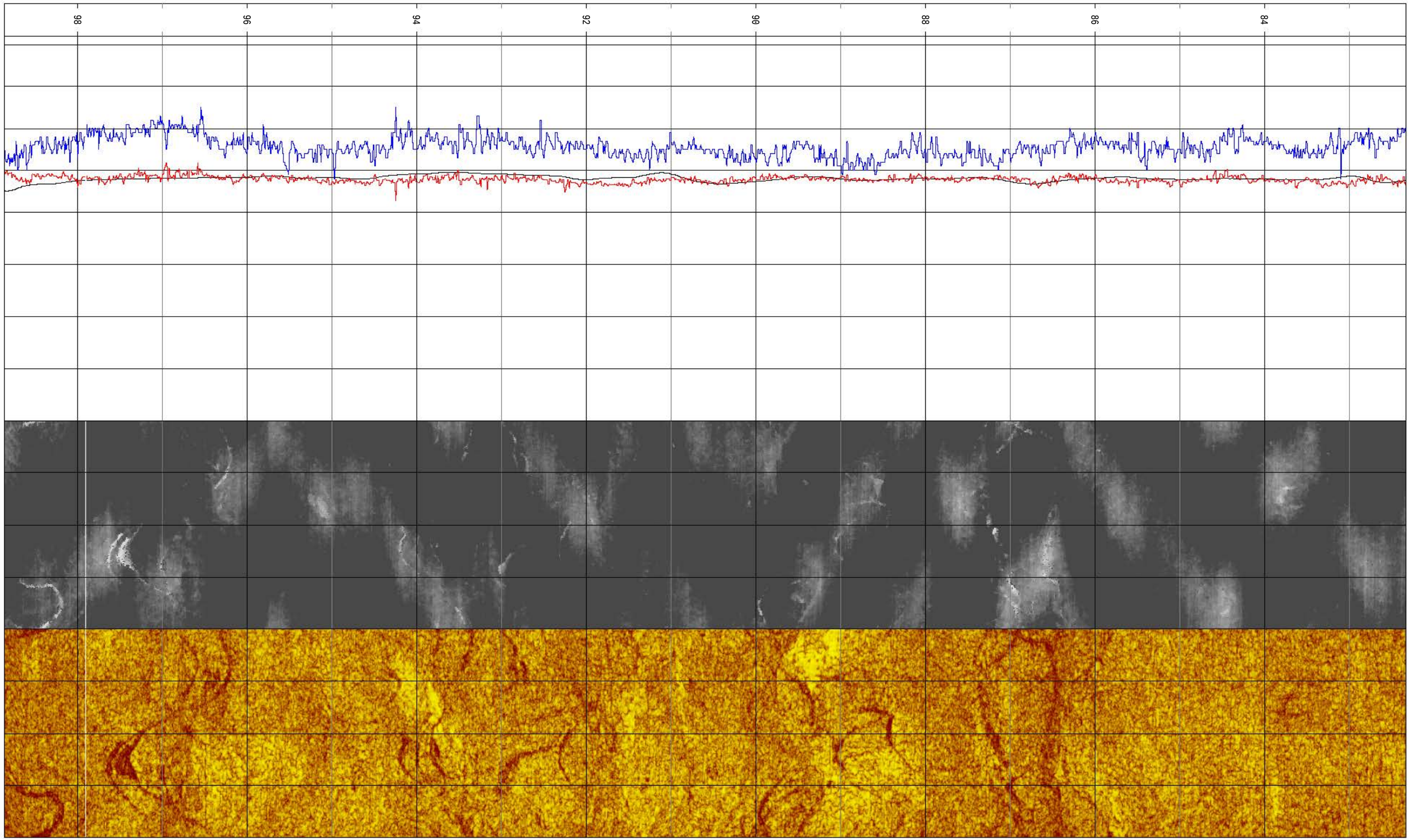



Depth
1in:1ft
Tilt
0
deg
3
upper ABI amplitude
0°
90°
180°
270°
0°
ABI40 traveltime
0°
90°
180°
270°
0°
ABI40 amplitude
0°
90°
180°
270°
0°
Magn.Field
0
uT
80
Azimuth
0
deg
360
upper ABI traveltime
0°
90°
180°
270°
0°
18
20
22
24
26
28
30
32

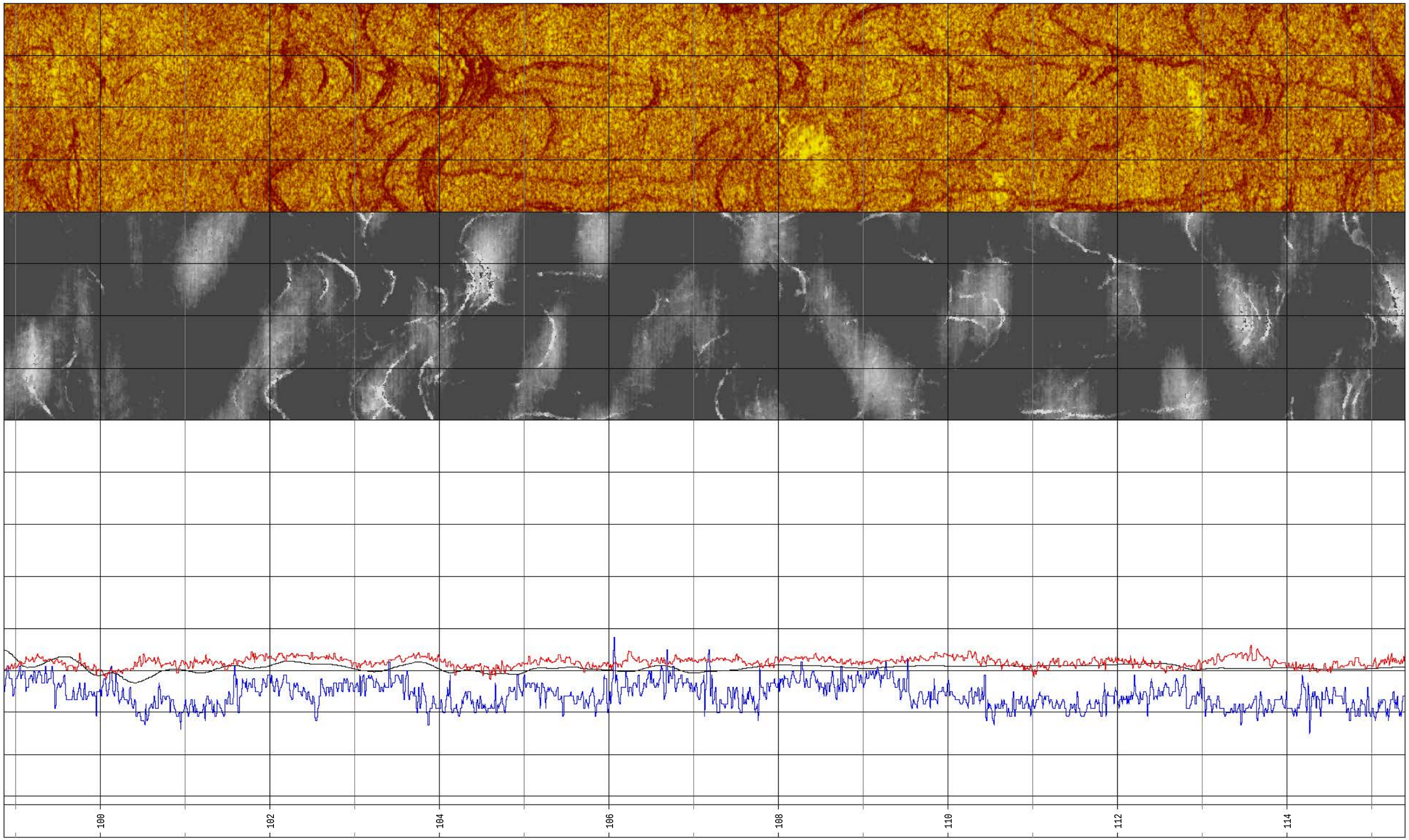

48
46
44
42
40
38
36
34

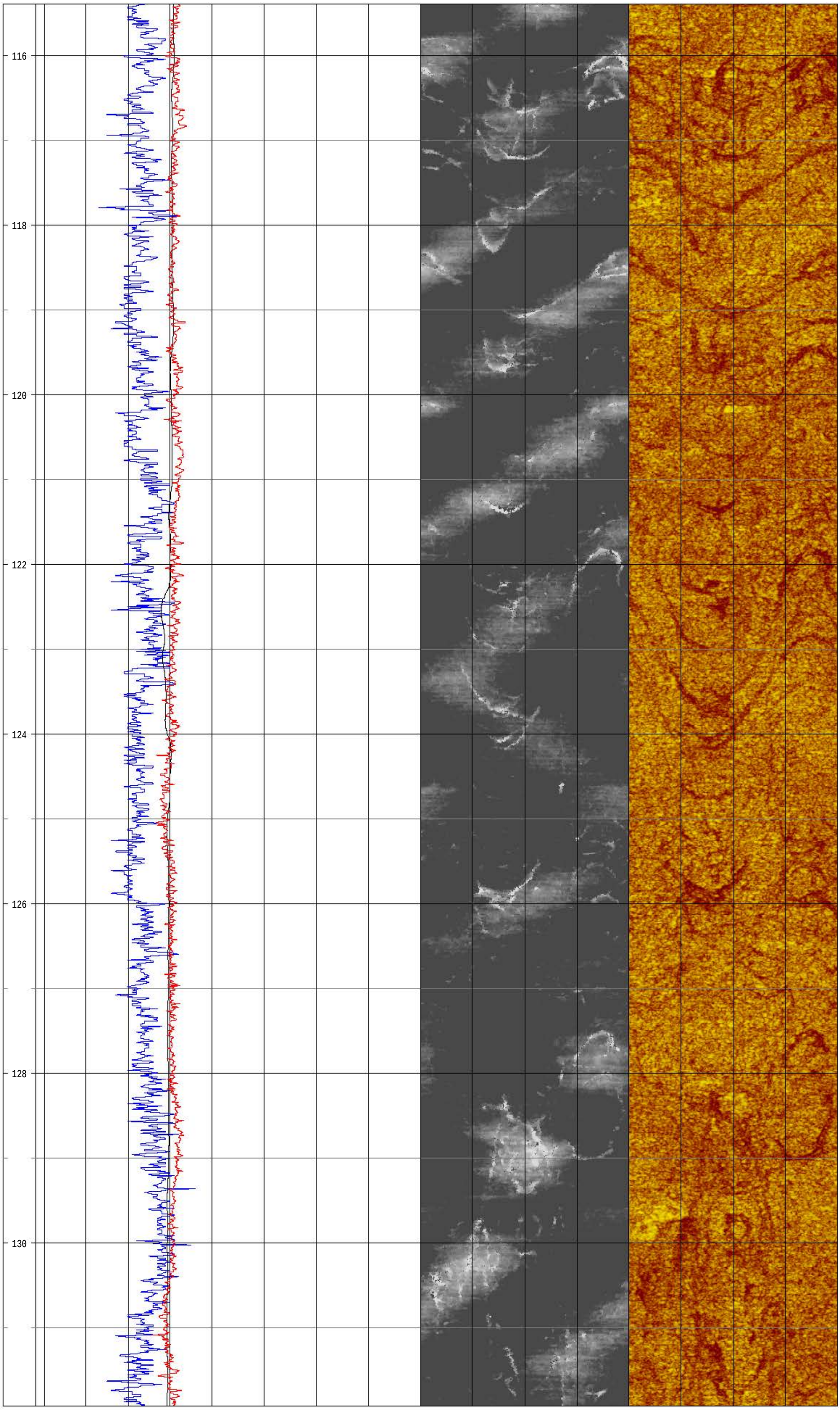

64
62
60
58
56
54
52
50

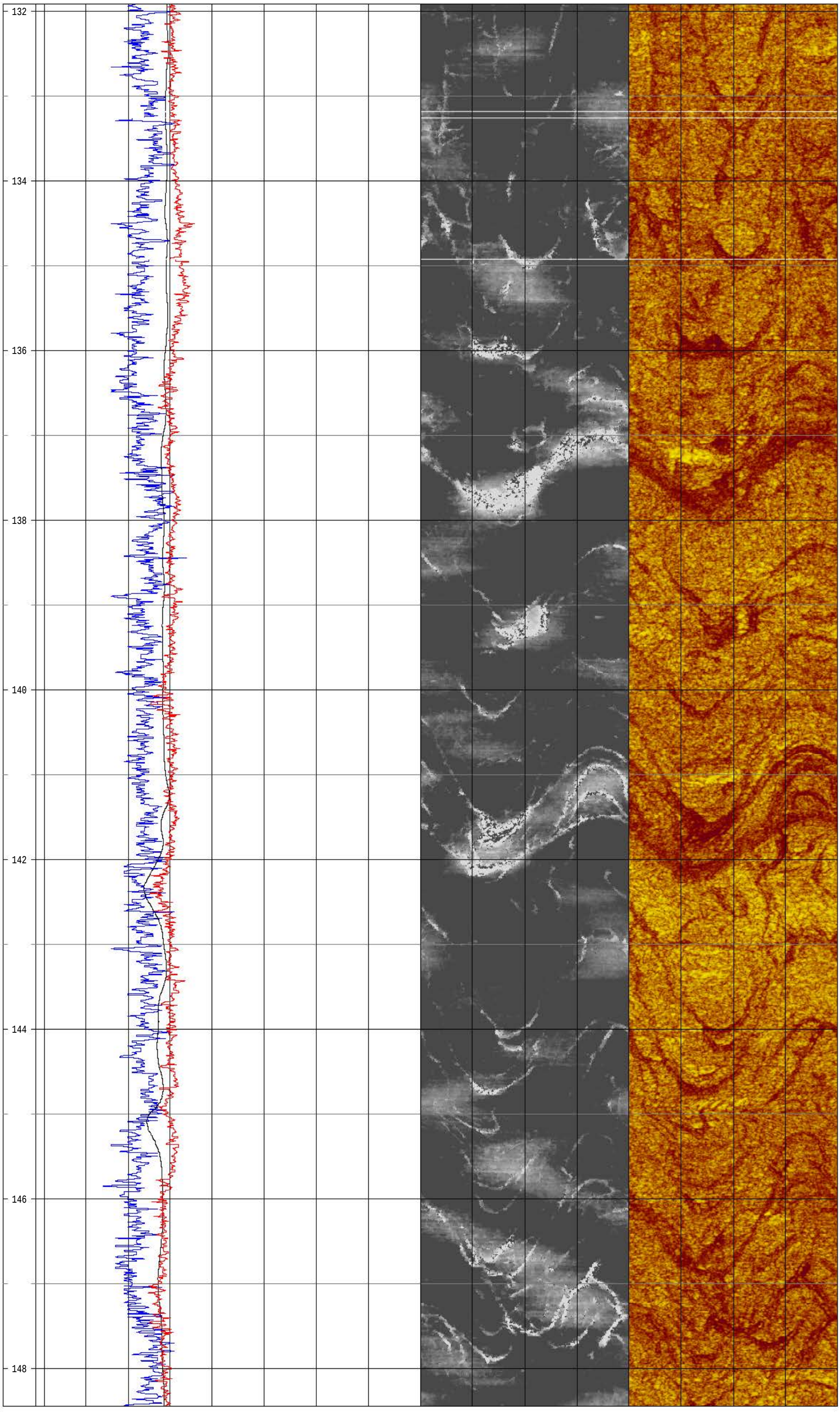

82
80
78
76
74
72
70
68
66


98
96
94
92
90
88
86
84

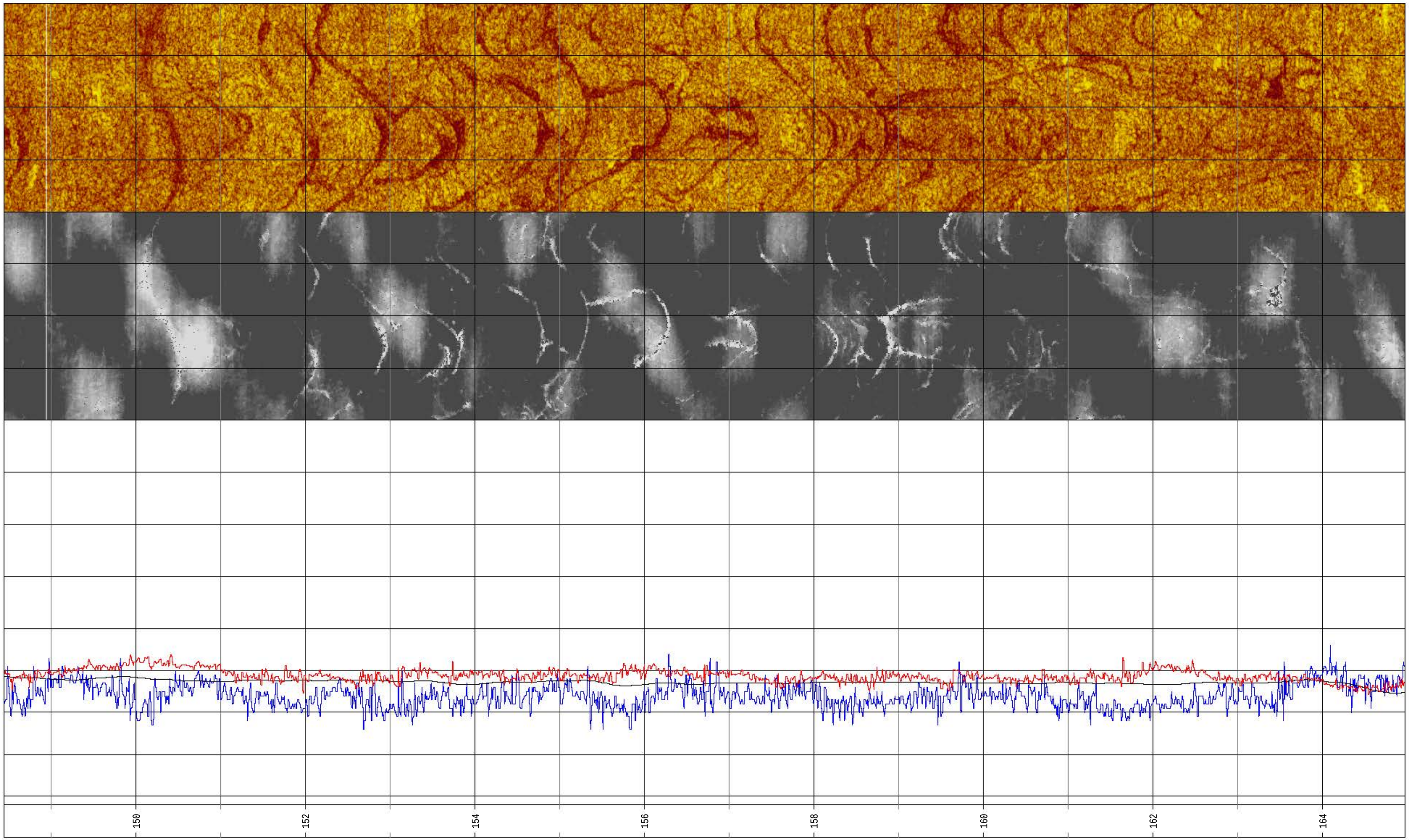
R2-0005566

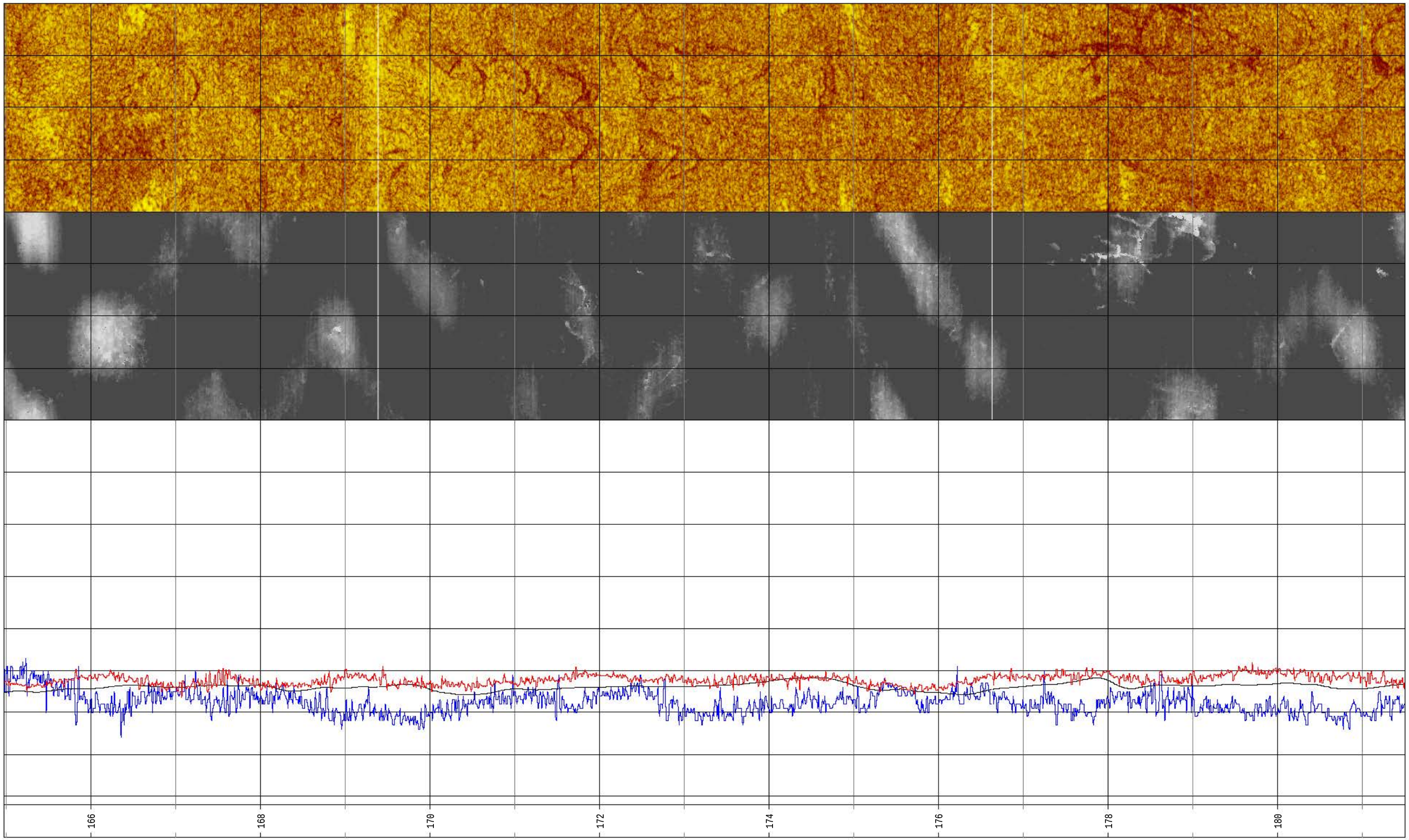


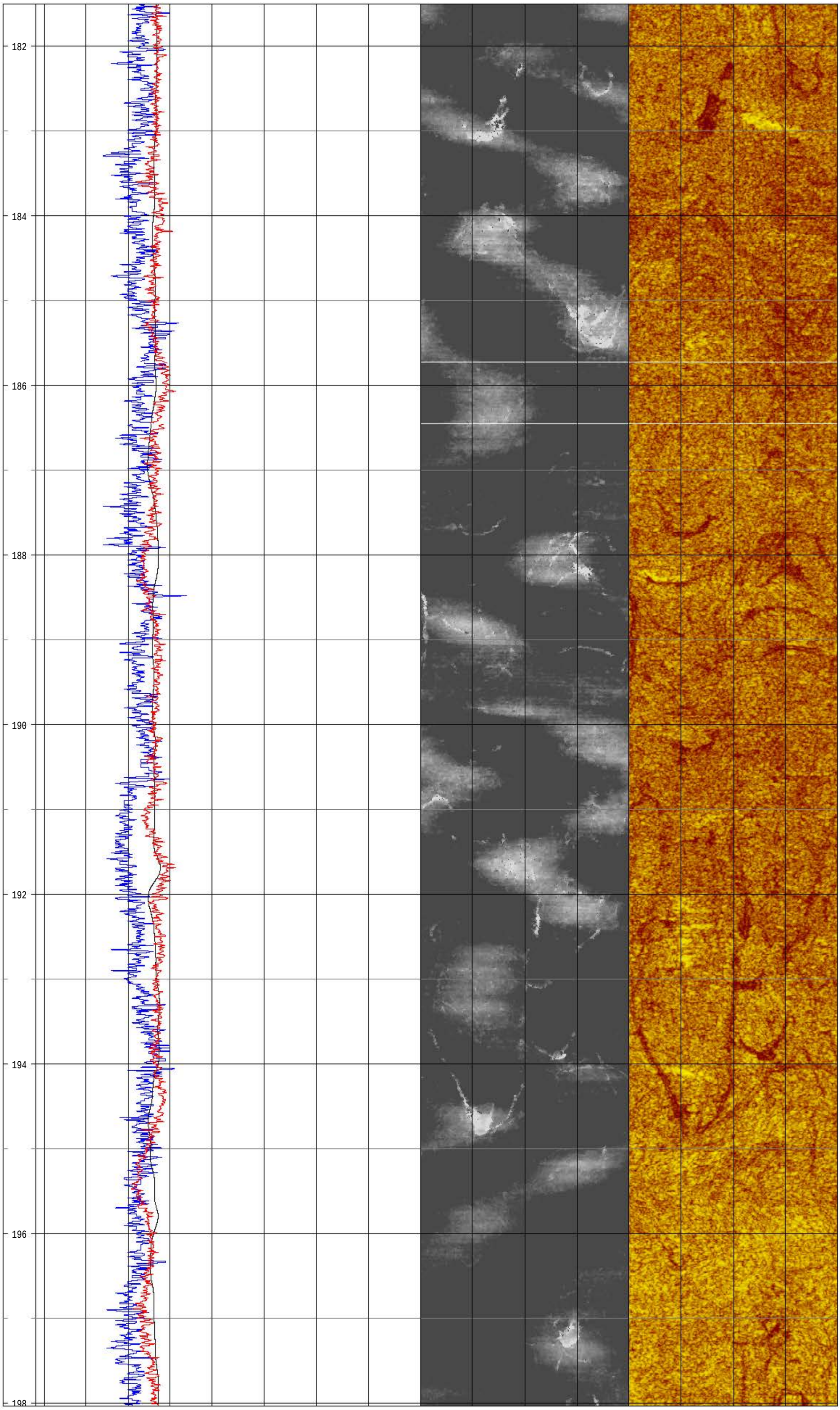

116
118
120
122
124
126
128
130

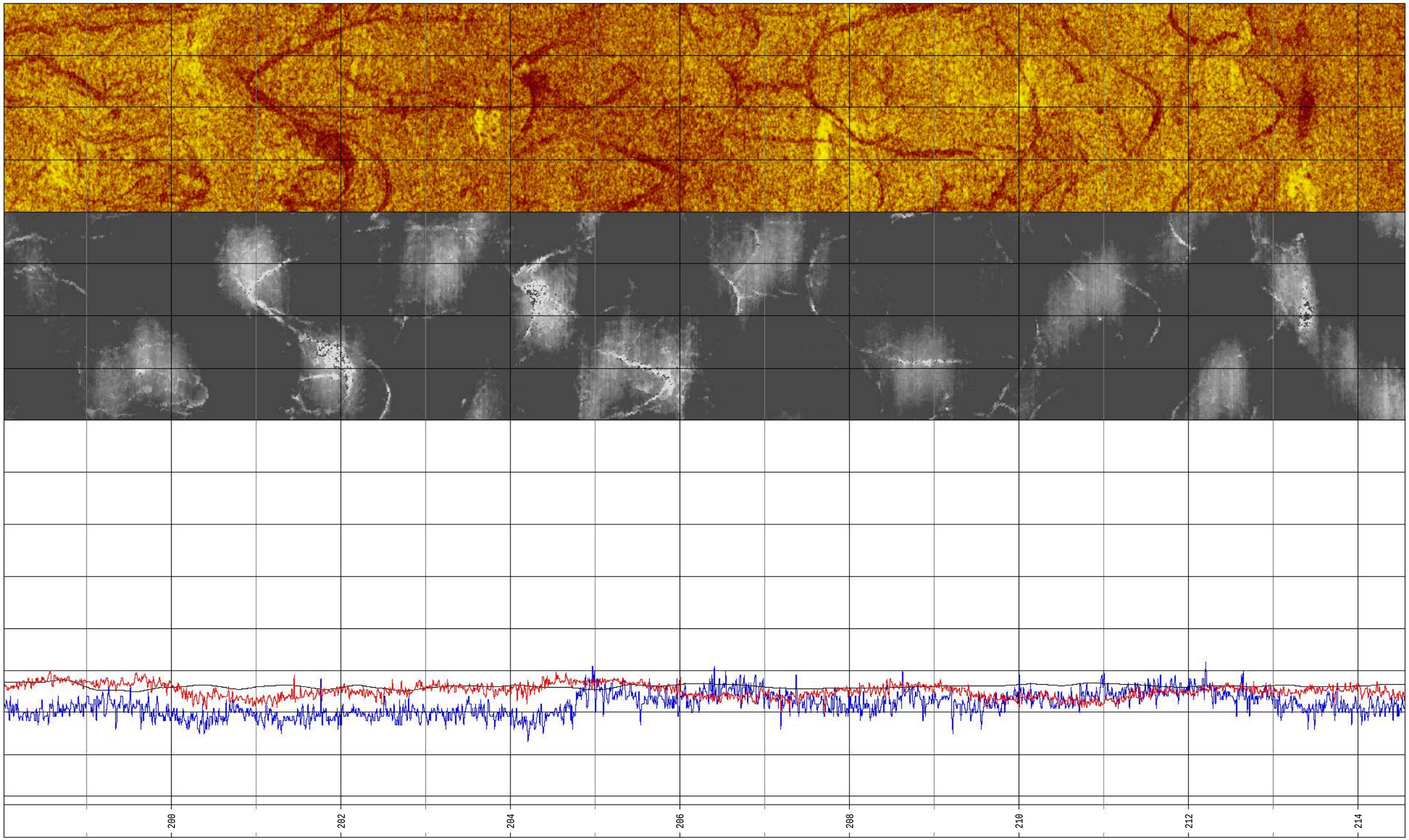

132
134
136
138
140
142
144
146
148

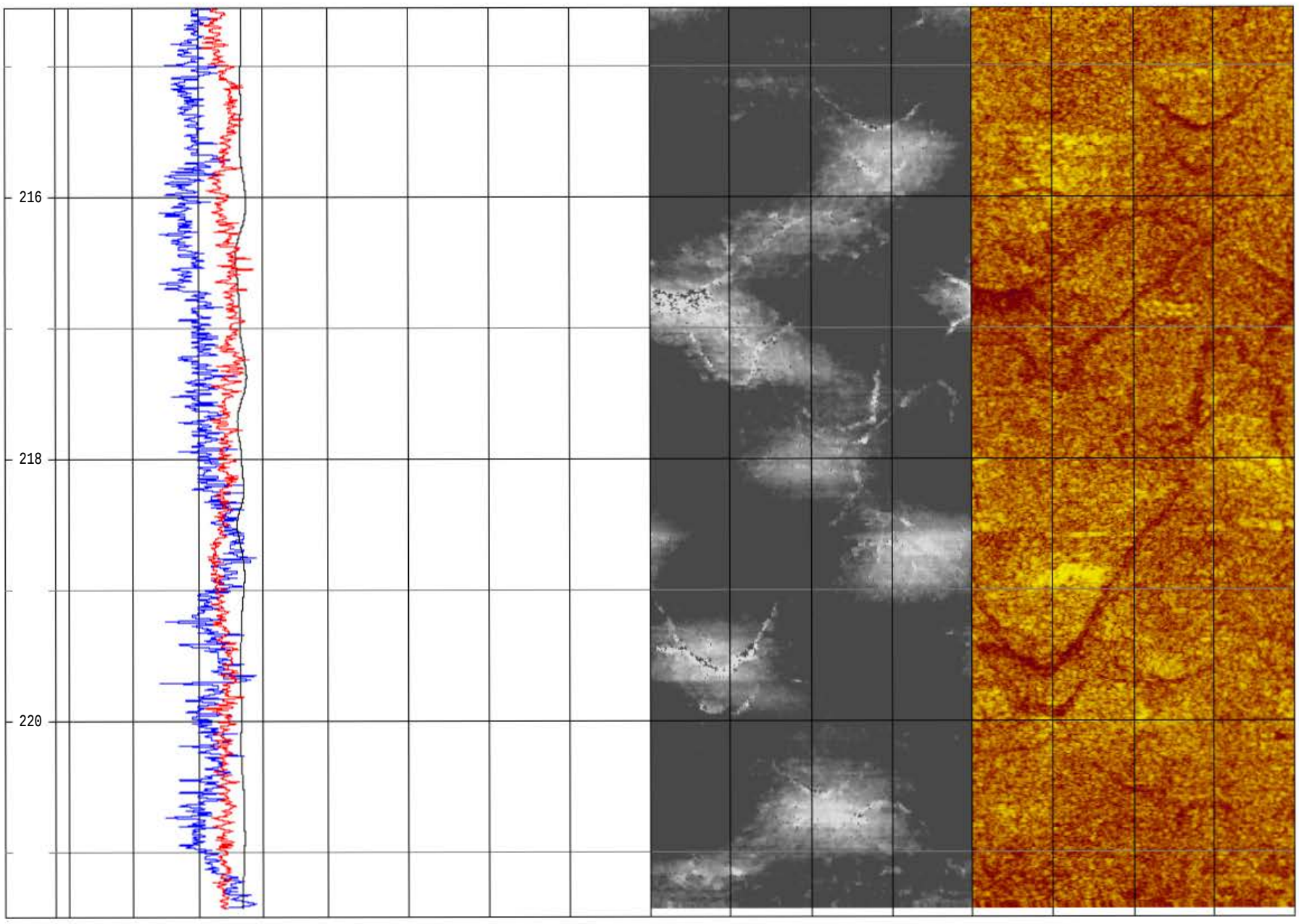
R2-0005569



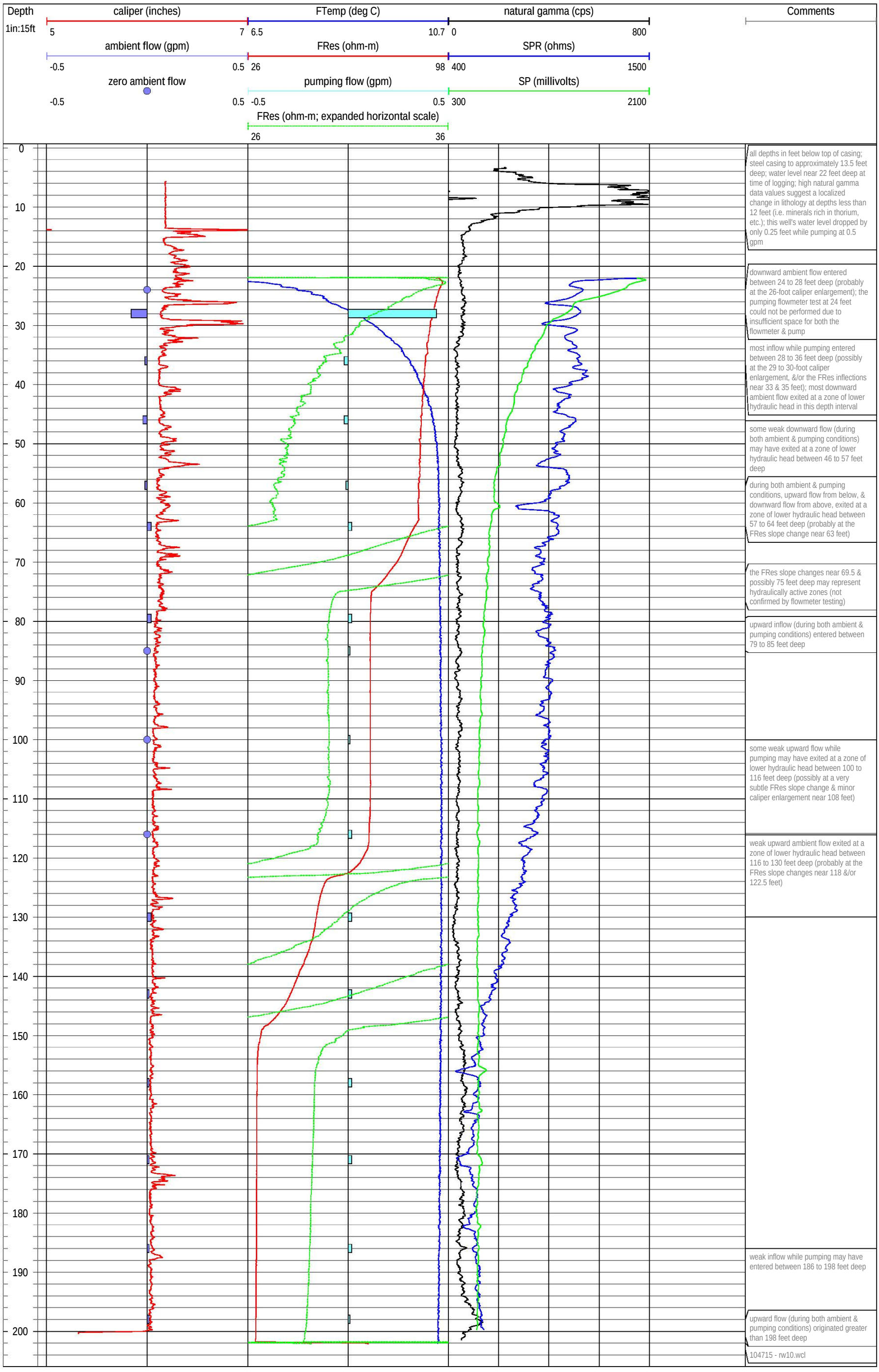

166
168
170
172
174
176
178
180


182
184
186
188
190
192
194
196
198

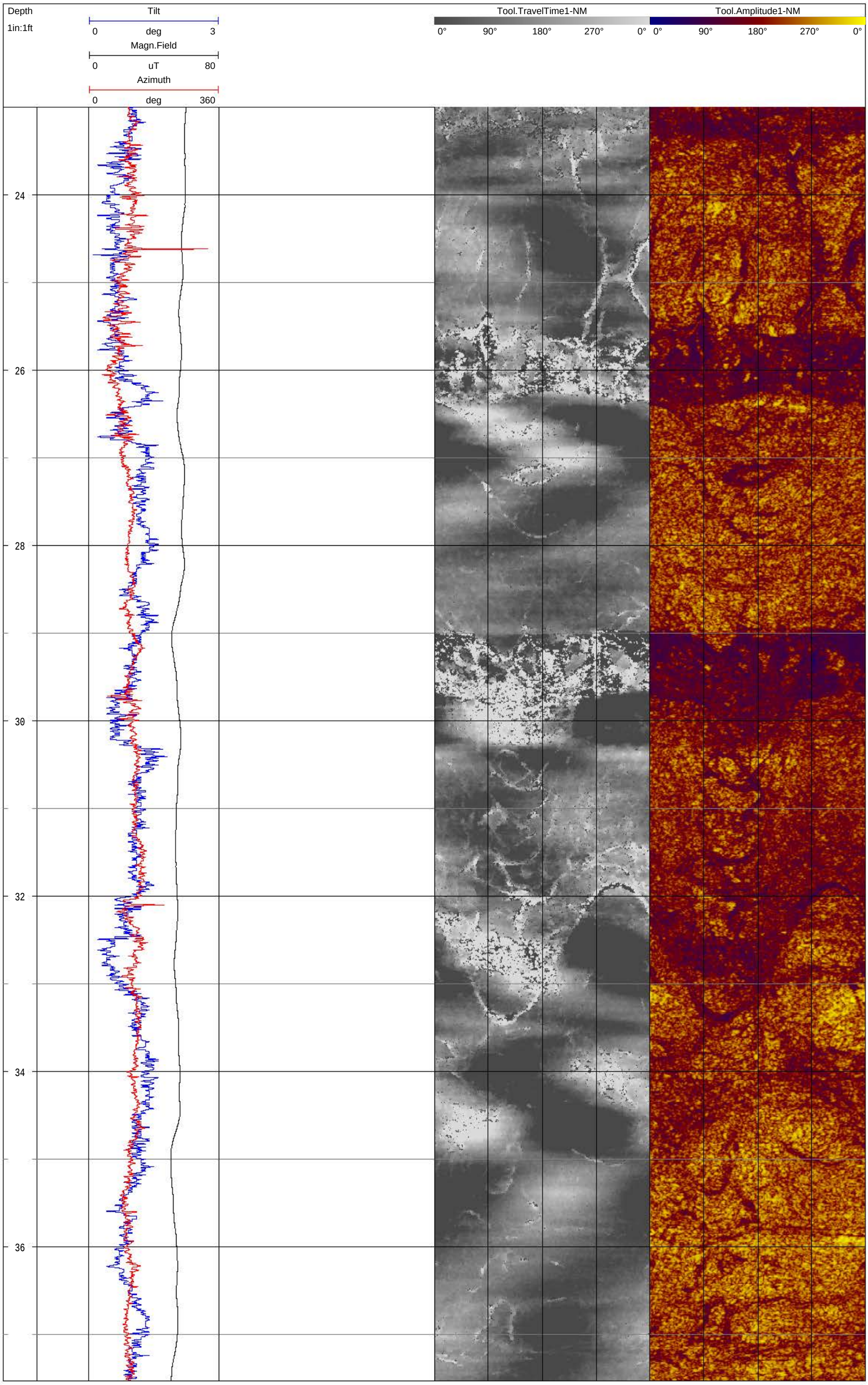

200
202
204
206
208
210
212
214

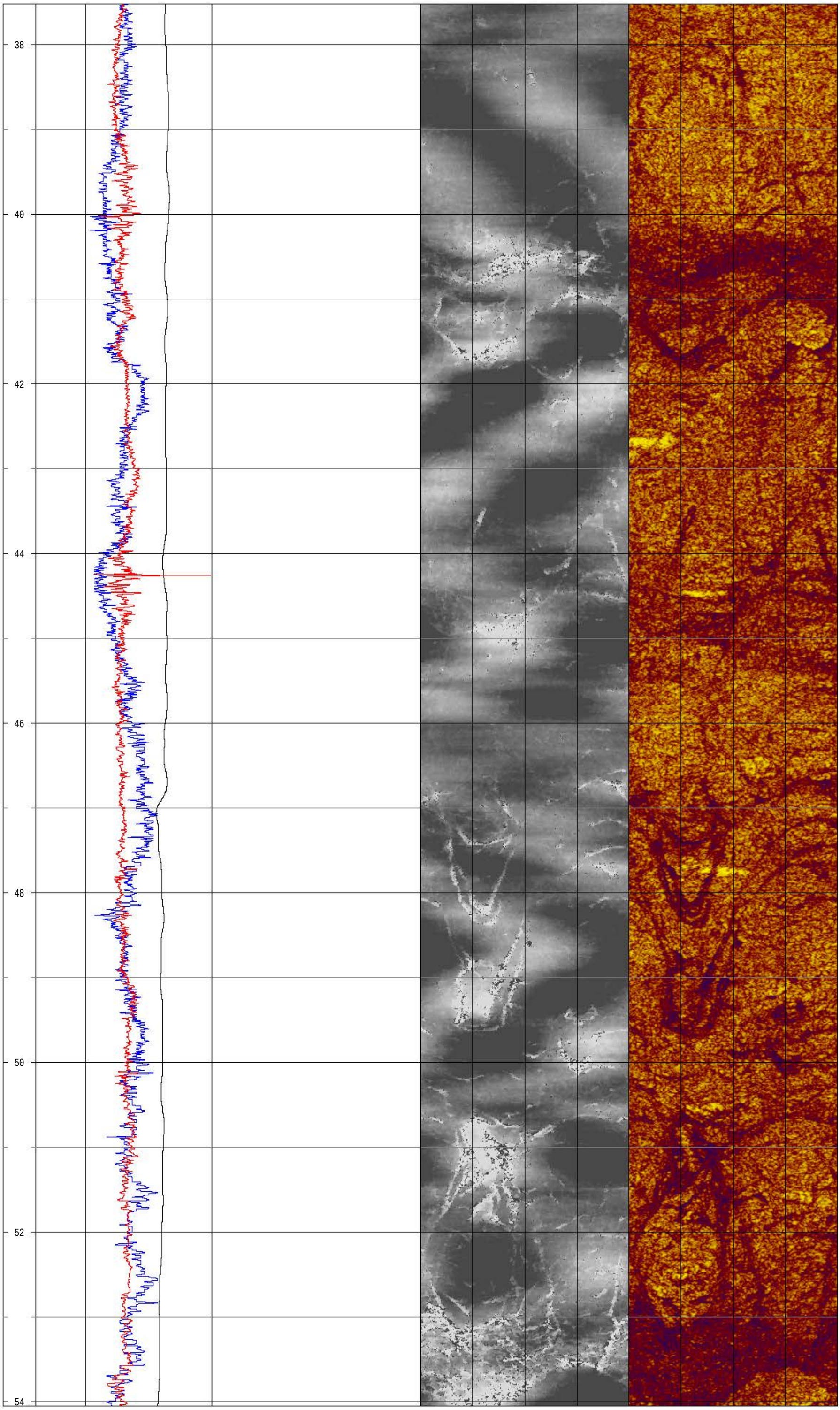

216
218
220

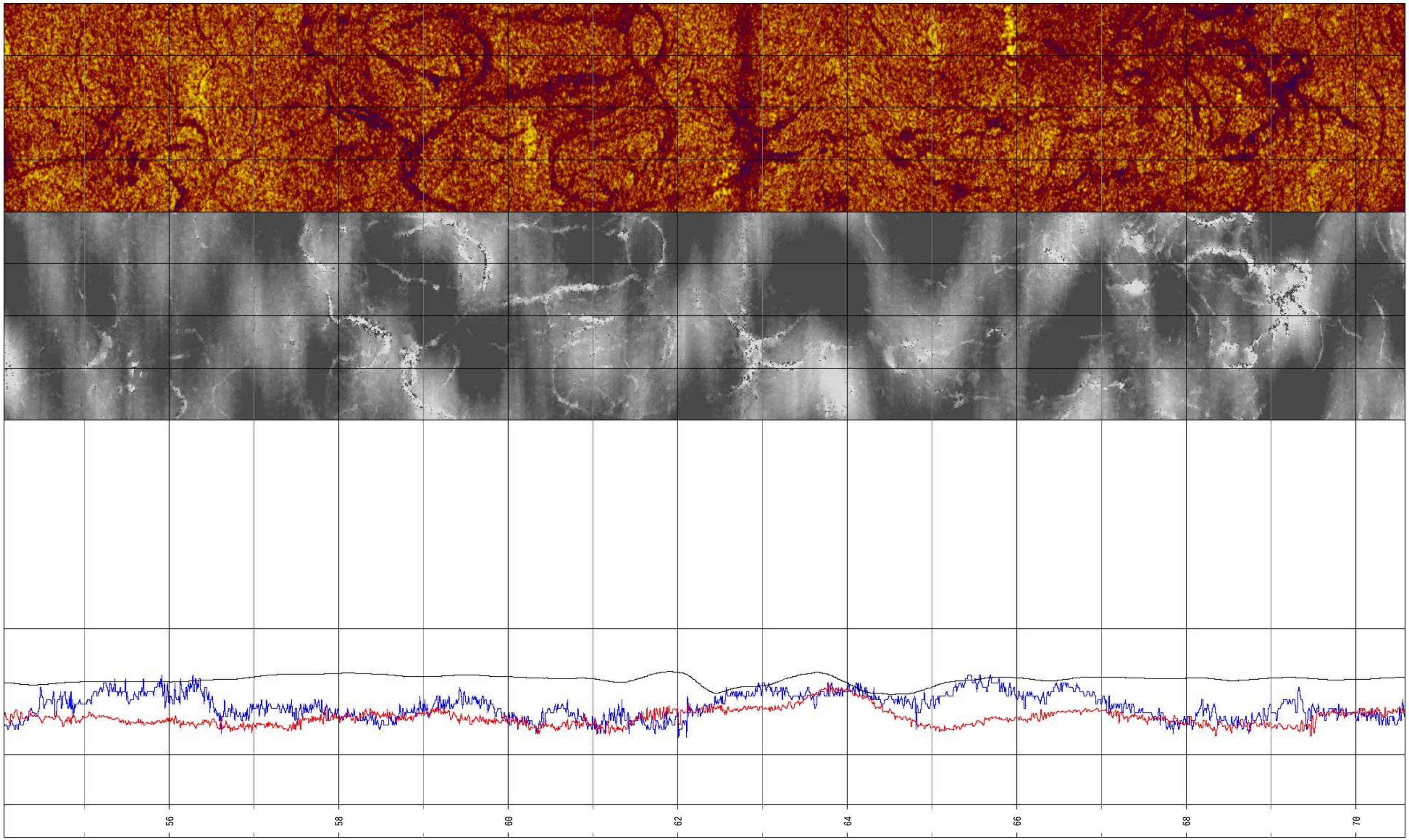
Arcadis / Ringwood, NJ - RW-10 conventional log plot



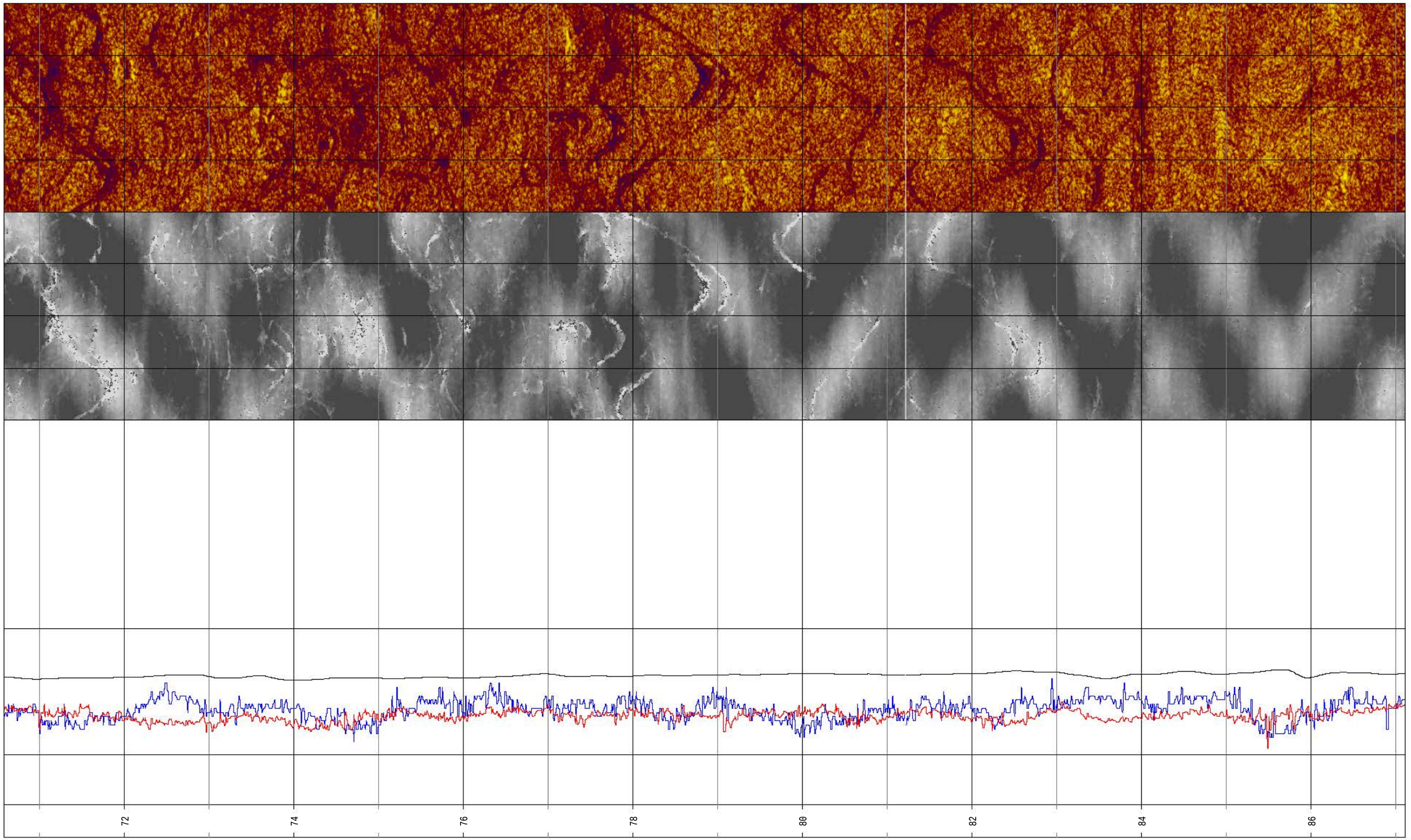
Arcadis / Ringwood, NJ - RW-10 acoustic televiewer log

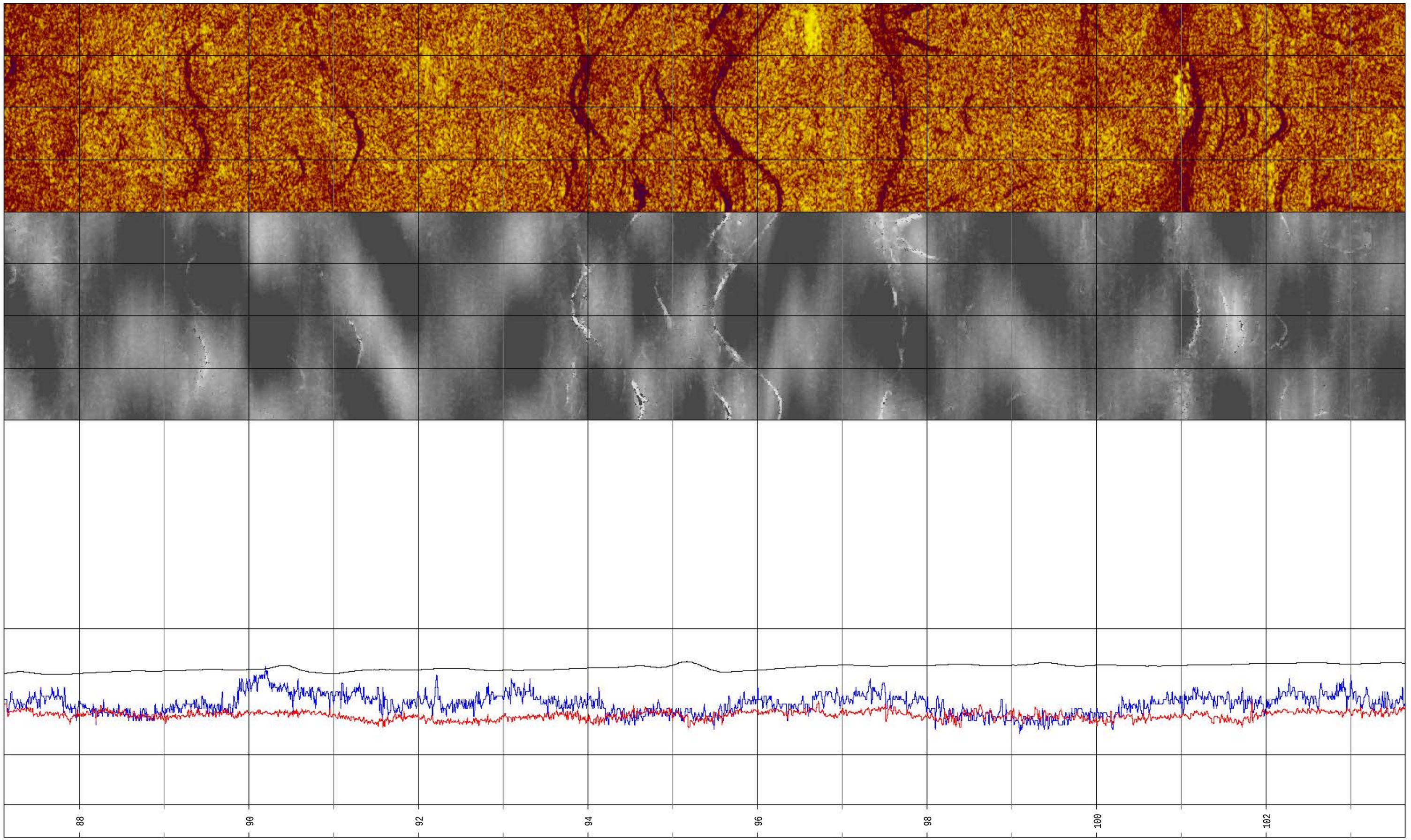


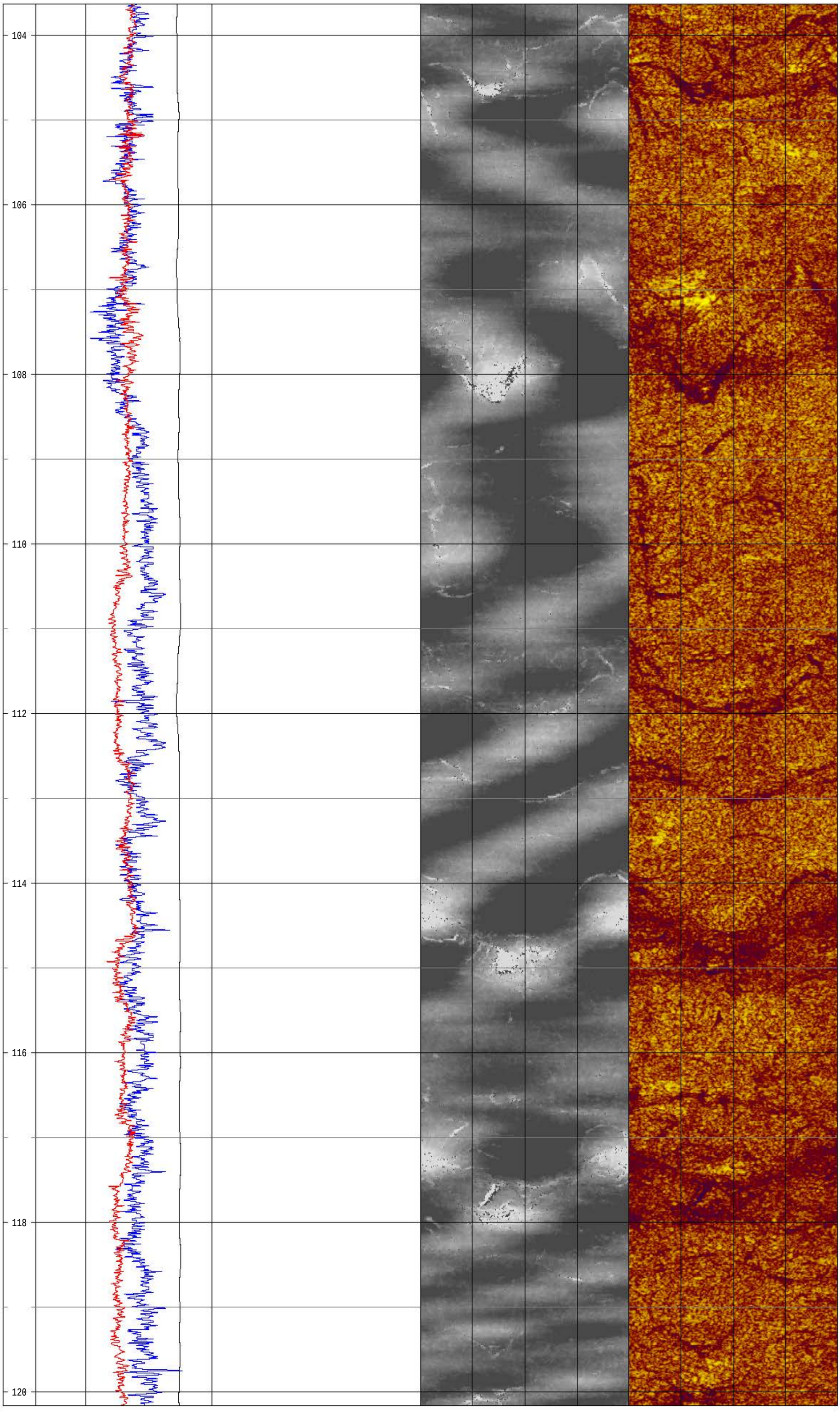

38
40
42
44
46
48
50
52
54

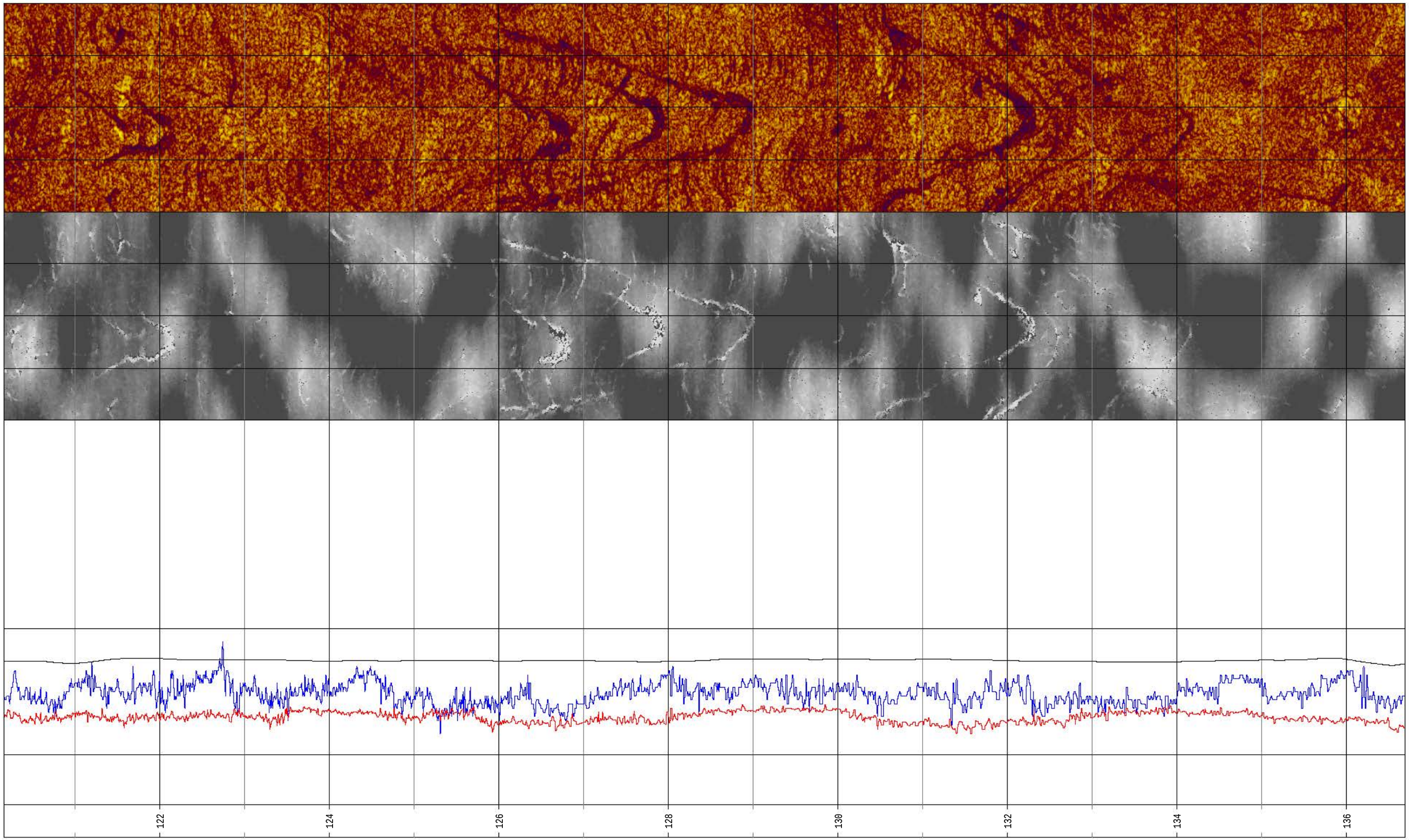

56
58
60
62
64
66
68
70

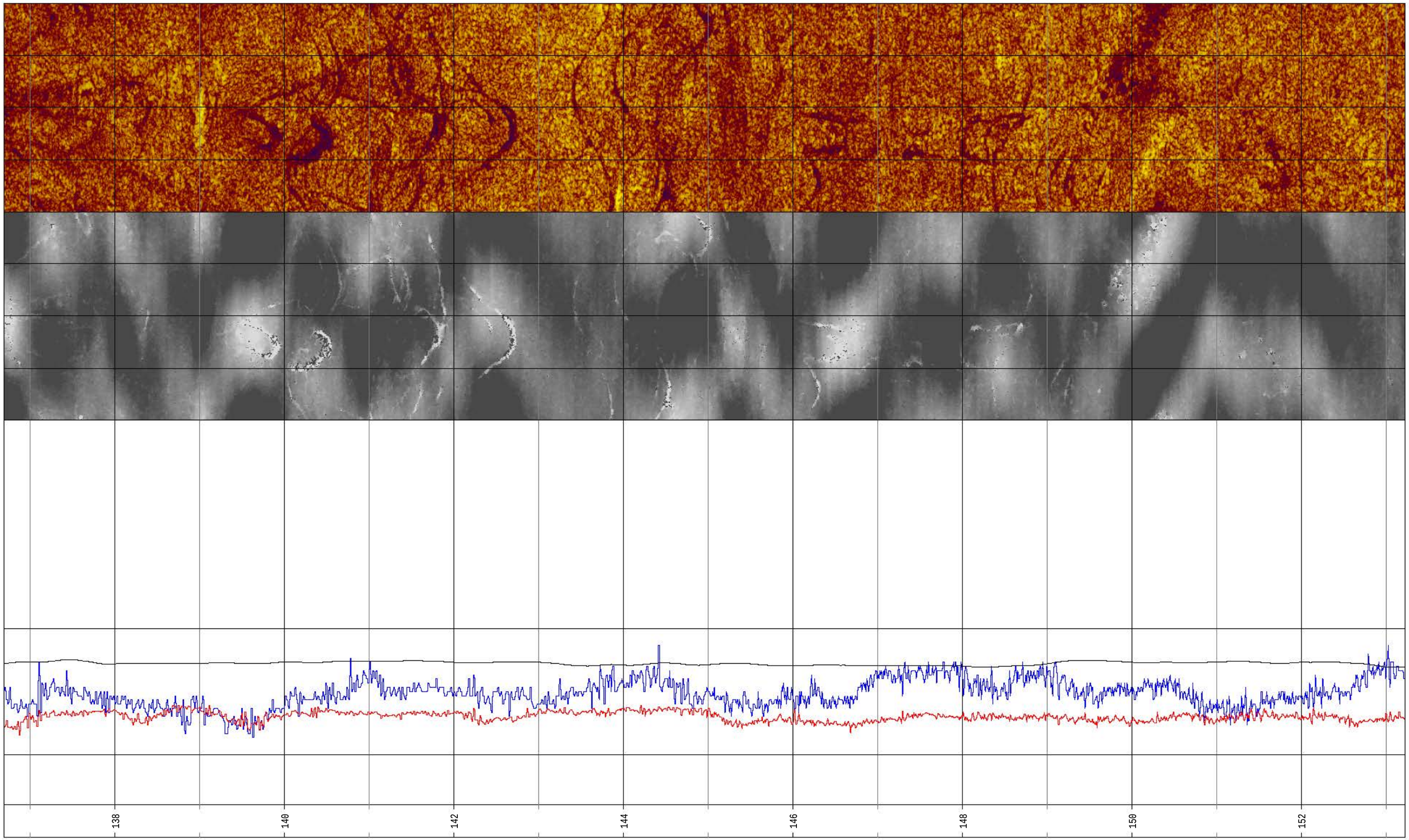
R2-0005578



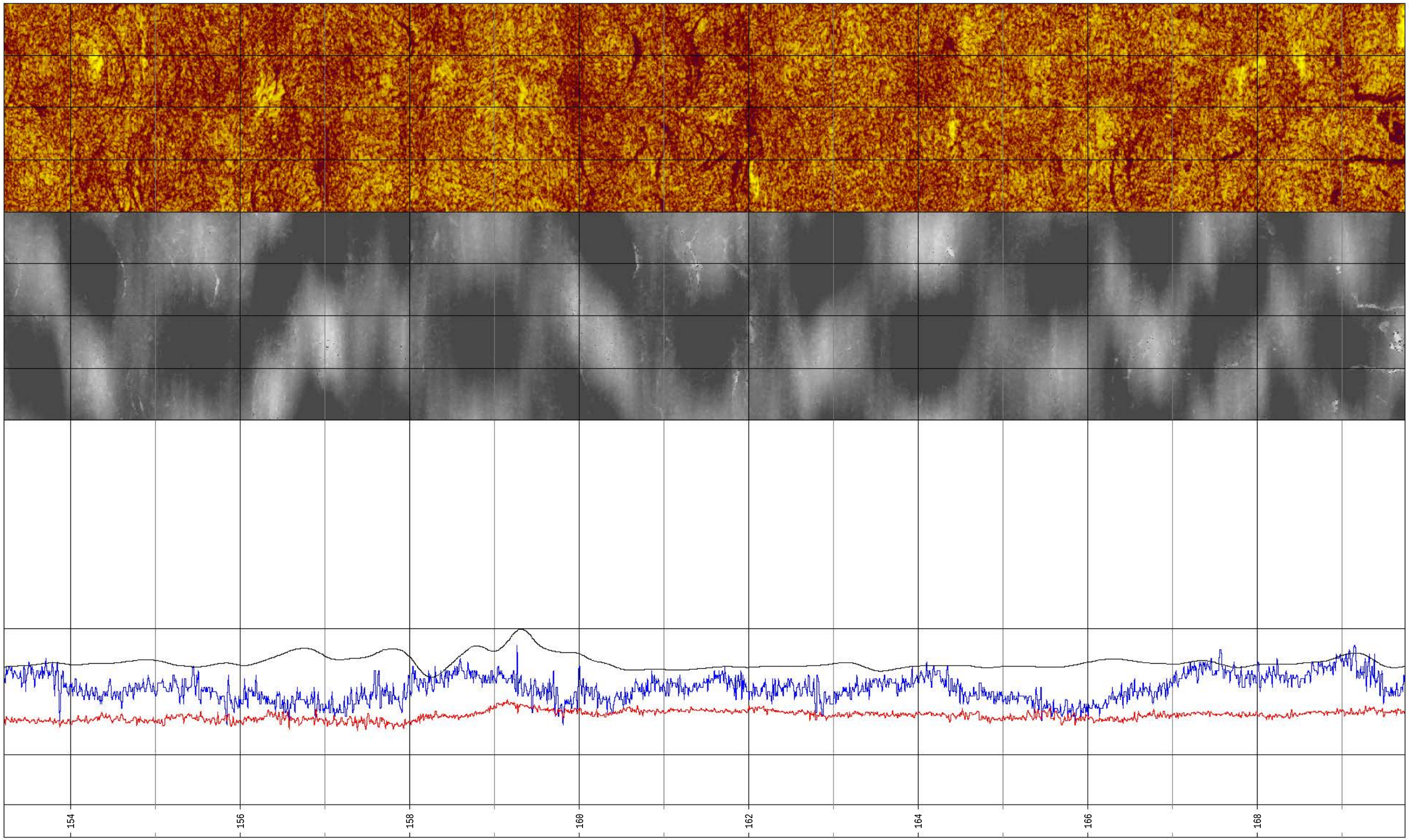

88
90
92
94
96
98
100
102

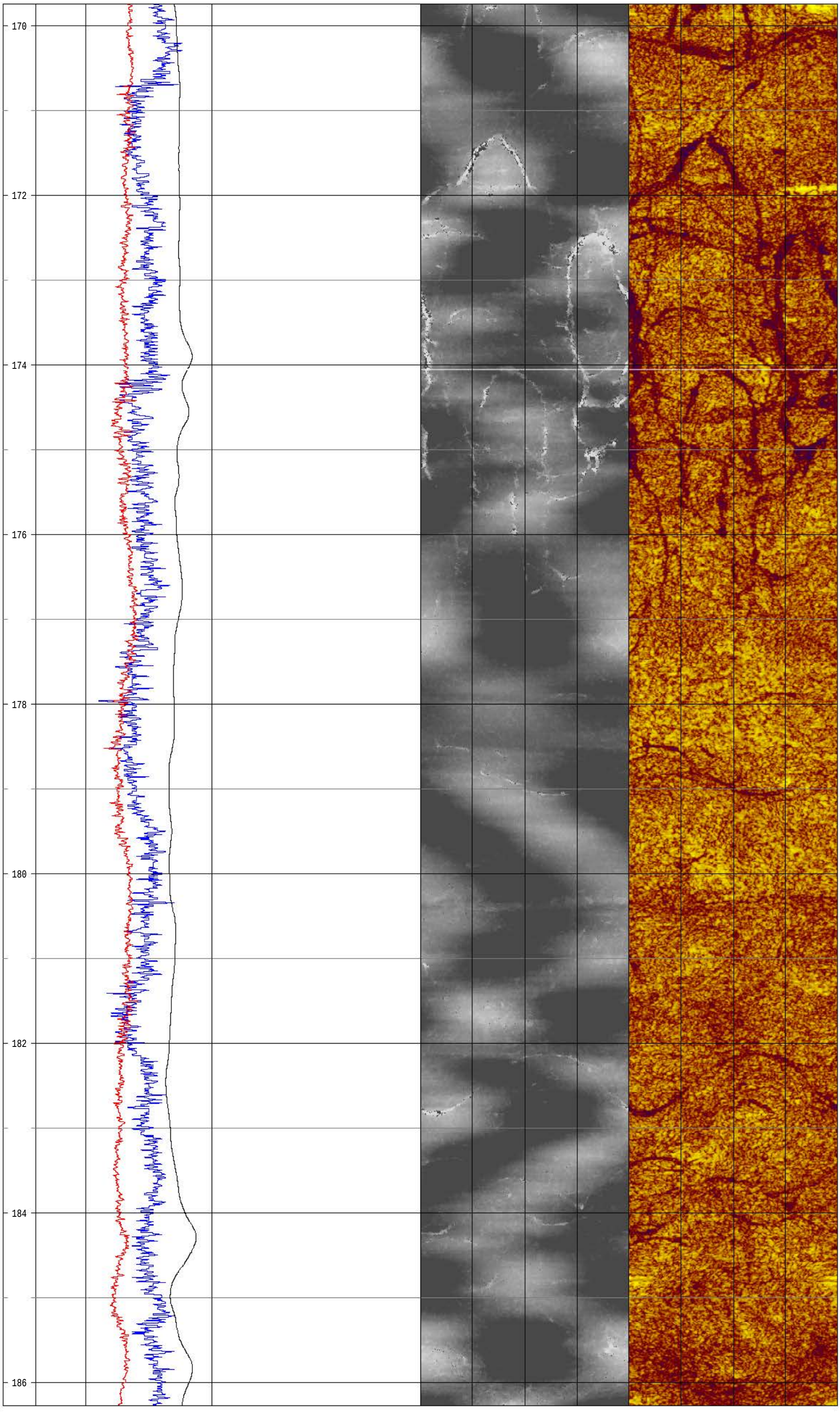
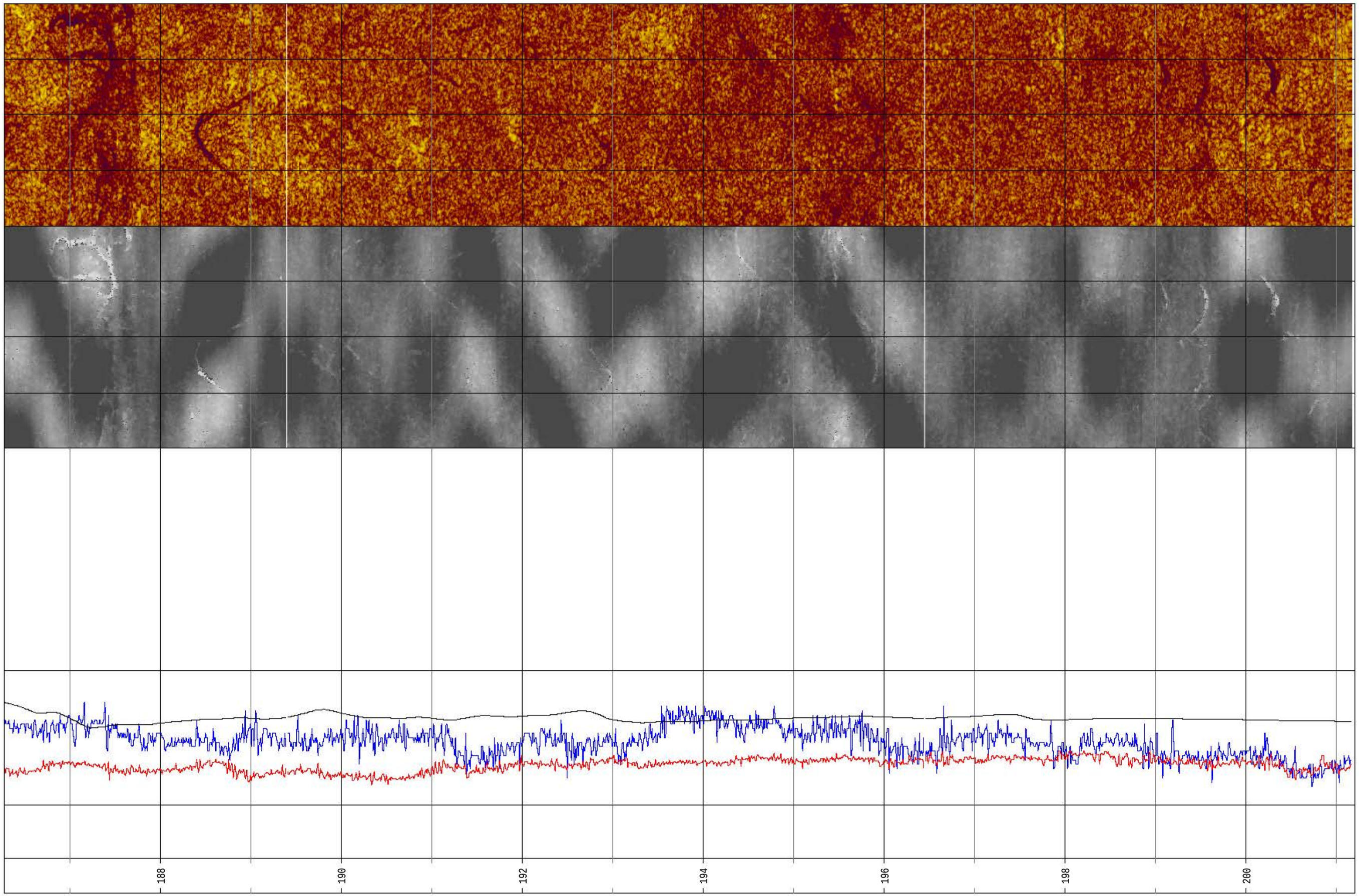

104
106
108
110
112
114
116
118
120


122
124
126
128
130
132
134
136


138
140
142
144
146
148
150
152

R2-0005583




170
172
174
176
178
180
182
184
186

R2-0005585