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MEMO

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From:
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Date:
September 28, 2009

ARCADIS Project No.:
NJ000604.0035

Subject:
Draft Technical Memorandum – Site-Wide Groundwater Sampling
July 2009 Sampling Event

ARCADIS U.S., Inc. (ARCADIS), on the behalf of Ford Motor Company, has prepared this Technical Memorandum to outline the results of the July 2009 Site-wide Groundwater Sampling Event for the Ringwood Mines/Landfill Site, Ringwood, New Jersey (Site). The sampling was undertaken between June 30 and July 17, 2009 in accordance with the approved July 26, 2004 Post-Environmental Monitoring Program Sampling Work Plan, the approved August 8, 2006 Groundwater Sampling Work Plan pursuant to the United States Environmental Protection Agency's ("EPA") April 7, 2006 request, and the requested modifications approved by EPA's May 7, 2009 letter.

SCOPE OF WORK

ARCADIS performed groundwater sampling and monitored groundwater elevations on the following: wells OB-1 through OB-7, OB-10, OB-12, OB-13, OB-14A, OB-14B, OB-15B, OB-16, OB-17, OB-18, OB-19, OB-20A, OB-20B, OB-21, OB-22, OB-23, OB-24, OB-25, OB-26, RW-1, RW-2, RW-3, RW-4, RW-5, RW-5A, RW-6, RW-6A, RW-7, RW-8, RW-9, and RW-10. Groundwater sampling was also conducted at directional wells SC-01 and SC-02 located within the Peters Mine Pit and Cannon Mine Pit, respectively. Additionally, water samples were collected from the Peters Mine air shaft. Well locations are shown on Figure 1. Well details are shown in Table 1.

ARCADIS collected groundwater samples from each well using the groundwater sampling and analytical procedures documented in the Quality Assurance Project Plan. The wells were purged prior to sampling

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in compliance with the low-flow methods presented in the USEPA Ground Water Sampling SOP FINAL (March 1998). Purging data on groundwater field parameters (pH, oxygen-reduction potential [ORP], temperature, conductivity, and turbidity) and measured groundwater depths were recorded (see groundwater sampling logs in Attachments A and B). These data are summarized in Table 2 and Table 3.

As specified in the Post-Environmental Monitoring Program Sampling Work Plan, each sample was analyzed for Target Analyte List (TAL) inorganic compounds, Target Compound List (TCL) organic compounds. Samples were not analyzed for pesticides based on prior approval from the USEPA dated April 2, 2007.

The samples were analyzed at the laboratory using the following SW-846 methodology as described in the USEPA-approved QAPP (May 2004):

- Volatile Organics – USEPA Method 8260B
- Semi-Volatile Organics – USEPA Method 8270C
- Metals – USEPA Methods 6010B/7470A
- PCBs – USEPA Methods 8082

Table 4 identifies the sampling intervals tested on the bedrock wells during the July 2009 Site-wide Groundwater Sampling Event. Individual bedrock sampling intervals were isolated using inflatable packers.

Prior to the groundwater sampling event (July 2009) blank samples were collected on June 15, 2009 from materials used for sample collection during the September 2008 event and materials to be used during the July 2009 event. Table 5 provides analytical results from blank samples collected prior to the July 2009 event from sampling materials used during the prior events and substitute materials. These results clearly show that the black electrical-type tape previously used contains sufficient leachable quantities of BTEX compounds. Moreover, blank testing of new (decontaminated prior to use) packers indicated that packers could be a source of trace concentrations of toluene and xylenes.

RESULTS

A total of 60 groundwater samples were collected from 39 wells and the Peters Mine air shaft at the Ringwood Mines/Landfill Site. These included 25 shallow groundwater wells, consisting of 14 wells installed in an unconsolidated layer, 2 wells constructed from soil borings, and 9 wells installed in shallow bedrock. Samples were also collected at 12 deeper bedrock groundwater wells. The samples were collected at depths ranging from 10 to 472 feet below ground surface (bgs).

Required quality control samples were obtained in accordance with NJDEP and Quality Assurance Project Plan (QAPP) procedures specified in the Work Plan. Both unfiltered (total metal) and filtered groundwater samples were analyzed for metals in order to acquire analytical data reflective of actual groundwater conditions.

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 contact with inflatable packers) at concentrations of 2.1 micrograms per liter (µg/L), 2.7 ug/L, and 1.4 ug/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 [month] 2007, [month] and October 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.

The results of the July 2009 Site-Wide Groundwater Sampling event are presented on Figure 2, and summarized within Table 8. The results of these analyses were compared to NJDEP's Class IIA Ground Water Quality Standards (GWQS), including certain metals for which NJDEP's GWQS are based on

EPA's non-health-based secondary, aesthetic standards (e.g., aluminum, iron, manganese, sodium, and zinc – See N.J.A.C. 7:9-6, et seq).

Groundwater Levels and Flow Directions

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 range from several feet to approximately 60 feet below the ground surface. Overall, groundwater at the site flows down the valley in a southeasterly direction towards Mine Brook and Ringwood Creek.

Peters Mine Pit Area

Groundwater flow in the Peters Mine Pit area is to the southeast sub-parallel to the course of Park Brook and away from the slopes of Whaleback and Hope Mountains. A map showing groundwater elevations and flow directions in the Peters Mine Pit Area during July 2009 is presented as Figure 3.

O'Connor Disposal Area

Groundwater flow in the O'Connor Disposal Area is to the southeast sub-parallel to Park Brook and away from the slope of Whaleback Mountain. A map showing groundwater elevations and flow directions in the O'Connor Disposal Area during July 2009 is presented as Figure 4.

Cannon Mine Pit Area

Groundwater flow in the Cannon Mine Pit Area is to the southeast toward Mine Brook based on September 2008 and previous data from July 2008. A map showing groundwater elevations and flow directions in the Cannon Mine Pit Area during July 2009 is presented on Figure 5.

Cannon Mine Pit is located on a finger-like ridge and groundwater most likely flows away from the crown of the ridge in a manner similar to storm-water runoff. The crown of the ridge represents an approximate location of a groundwater divide. Well OB-3, located at the base of the western slope of the ridge (SR-6 area), typically has artesian water levels and is near an historical groundwater seep. This is indicative of groundwater flowing from the Cannon Mine pit area to the southwest toward Mine Brook, which wraps around the ridge as the brook flows toward Ringwood Creek.

The Cannon Mine pit breeches the crown of the ridge and thereby the trace of the groundwater divide. The presence of the Cannon Mine pit affects groundwater flow by creating alternate directions for both shallow and deeper groundwater flow that may locally reverse groundwater gradients and cause groundwater to flow toward the pit with this groundwater eventually flowing southwest instead of to the southeast.

Volatile Organic Compounds

Shallow Groundwater

- Unconsolidated and Directional Wells

  None of the VOCs on the target compound list were detected above the GWQS in groundwater samples collected from 16 unconsolidated and directional wells, except for Benzene which was detected above the GWQS of 1.0 ug/L at OB-19 at a concentration of 1.2 ug/L and Methyl tert butyl ether (MTBE) which was detected above the GWQS of 70 ug/L at location OB-25 at a concentration of 171 ug/L.

- Shallow Bedrock Wells

  None of the VOCs on the target compound list were detected above GWQS in groundwater samples collected from the shallow bedrock wells.

Deeper Groundwater

VOCs were detected above the GWQS in 2 of the 12 bedrock wells. Benzene exceeded the GWQS of 1.0 µg/L in samples collected fromRW-6and RW-6A. Benzene concentrations were 2.0 µg/L and 1.3 ug/L respectively.

Peters Mine Air Shaft

Water samples collected from the Peters Mine Pit Area exceeded the GWQS of 1.0 µg/L for benzene in samples from depths of 180 feet (7.4 µg/L) and 230 feet (7.6 µg/L) below ground surface.

Semi-volatile Organic Compounds

Shallow Groundwater

- Unconsolidated and Directional Wells

  SVOCs were not detected at concentrations above GWQS in the groundwater collected from the 16 shallow groundwater monitoring wells except for bis(2 ethylhexy)phthalate which was detected at location OB-19 at a concentration of 1.2 ug/L.

- Shallow Bedrock Wells

  SVOCs were not detected at concentrations above GWQS in groundwater collected from the 9 monitoring wells installed into shallow bedrock.

Deep Groundwater

SVOCs were not detected in groundwater samples collected from the deeper bedrock wells at concentrations above the GWQS.

Peters Mine Air Shaft

SVOCs were not detected in groundwater samples collected from the air shaft at concentrations above the NJDEP GWQS.

Polychlorinated Biphenyls (PCBs)

None of the 7 PCB arochlors were detected in any of the shallow or deep groundwater samples collected from the monitoring wells and the air shaft.

Metals

Shallow Groundwater

- Unconsolidated and Directional Wells

  Lead was not detected above the GWQS of 5 µg/L in 14 of the 16 samples collected from wells installed in the unconsolidated unit. Unfiltered samples collected from monitoring wells OB-25 and SC-01 were above the GWQS at 19.9 and 7.2 µg/L, respectively. Lead was not detected above the GWQS for any filtered groundwater samples.

  Arsenic was detected above the GWQS of 3 µg/L in 2 of the 16 unfiltered samples. The samples that exceeded the GWQS in and around the O'Connor disposal area were collected from wells OB-16 (5.1 µg/L) and OB-25 (8.4 µg/L). Arsenic was not detected above the GWQS in any of the filtered samples collected from the unconsolidated wells.

  Iron was detected above the GWQS of 300 µg/L in all 16 unfiltered samples collected from the shallow monitoring wells. The iron exceedences ranged from 376 µg/L to 50,500 µg/L. Manganese was detected above the GWQS of 50 µg/L in 14 of the 16 unfiltered samples collected from the monitoring wells, ranging in concentration from 64.2 µg/L to 7,850 µg/L. Aluminum was detected above the GWQS in 8 of the 16 unfiltered samples collected from the shallow monitoring wells, ranging in concentration from 247 µg/L to 17,700 µg/L. Three samples

exceeded the GWQS of 1 µg/L for beryllium at wells OB-14A (1.1 µg/L),OB-14B (1.1 µg/L) and OB-25 (3.3 ug/L).

Besides Iron, Manganese, Beryllium, and Sodium there were no exceedences above the GWQS in any of the filtered samples collected from the unconsolidated wells.

- Shallow Bedrock Wells

  Lead was not detected above the GWQS of 5 µg/L in either filtered or unfiltered samples collected from the groundwater monitoring wells installed in shallow bedrock. Arsenic was also not detected above the GWQS of 3 µg/L in either filtered or unfiltered samples collected from groundwater monitoring wells installed in shallow bedrock.

  Iron was detected above the GWQS of 300 µg/L in 5 of the 9 unfiltered samples collected from the shallow bedrock wells; concentrations ranged from 1,390 to 16,900 µg/L. Manganese was detected in 4 of the 9 unfiltered samples at concentrations exceeding the GWQS of 50 µg/L, ranging from 440 µg/L to 2,570 µg/L.

  Besides Iron and Manganese, there were no exceedences above the GWQS in any of the filtered samples collected from the shallow bedrock wells.

Deeper Groundwater:

Lead was detected above the GWQS of 5 µg/L in three of the 30 samples collected from the 12 bedrock wells. The unfiltered sample collected at RW-8 from 42 feet to 62 feet had a lead concentration of 17.9 and from 158 feet to 178 feet had a concentration of 6.0 ug/L. RW-9 from 134 feet to 154 feet also had a lead concentration of 6.4 ug/L. Arsenic was detected above the GWQS of 3 µg/L in one unfiltered sample collected from RW-6 at 4.1 µg/L.

Iron concentrations exceeded the NJDEP GWQS of 300 µg/L in 27 of 30 unfiltered samples and 6 of 30 filtered samples in 12 deep bedrock wells. Manganese exceeded its GWQS in 20 of 30 unfiltered samples and in 19 of 30 filtered samples. Aluminum, sodium, and zinc exceeded NJDEP's GWQS in two or more unfiltered samples.

Besides Iron and Manganese, there were no exceedences above the GWQS in any of the other filtered samples collected from the deeper bedrock wells.

Peters Mine Air Shaft

Iron concentrations exceeded the GWQS of 500 µg/L in both filtered and unfiltered samples collected from both depth intervals in the air shaft. The unfiltered iron concentrations were 68,900 µg/L and 68,300 µg/L for the two respective depth intervals of 180 feet and 230 feet. Manganese exceeded its GWQS in two unfiltered samples at 230 feet below ground surface (671 µg/L), and at 180 feet bgs (672 µg/L).

Iron and Manganese also exceeded the GWQS in the filtered samples collected from the Peters Mine Air Shaft.

Comparison with Historical Results

The July 2009 groundwater sampling event results are consistent with the sample results obtained during the April and September 2008 sampling event with some exceptions. Samples collected from wells RW-1, RW-2, and RW-4 in September 2008 exceeded standards for benzene; samples collected from RW-3 exceeded standards for bis(2-ethylhexyl)phthalate. The analytical results from July 2009 show that these exceedances are predominantly the result of artifacts introduced during sample collection process, as described in the sections above.

Except for the artifact results observed in September 2008, recent groundwater sampling results (2008 and 2009) are mostly consistent with previous groundwater sampling which has been conducted at the site from 1984 to 2007. The sampling results indicate that there is not a site-wide or extensive plume of impacted groundwater. Detections of constituents of concern above guidance levels have been limited, and sporadic. Actual exceedances of the NJDEP GWQS have been few. Historical groundwater sampling results showing exceedances of select NJDEP GWQSs are presented in Table 9.

CONCLUSIONS

The following conclusions may be drawn based on the results of groundwater sampling conducted at the Site in September 2008 and historical groundwater sampling results.

Groundwater Flow

Water table conditions are observed in the saturated overburden and in shallow bedrock where the overburden cover is thin or not present. Groundwater flow in the overburden (Peters Mine Pit Area and O'Connor Disposal Area) follows the major surface water drainage patterns with the flow directions to the southeast toward Ringwood Creek. Groundwater within the bedrock appears to flow toward Ringwood Creek (Peters Mine Pit Area) and toward both Mine Brook and Ringwood Creek (Cannon Mine Pit Area); directions that are similar to overburden groundwater flow.

Analytical Results

Shallow Groundwater (Overburden Wells and Shallow Bedrock Wells)

Shallow groundwater is monitored by overburden wells in the Peters Mine Pit and O'Connor Disposal Area, and by shallow bedrock wells in the Cannon Mine area and St. George Pit/Miller Pit area. Only low level detections of VOCs and SVOCs have been historically noted and they are primarily limited to the vicinity of Peters Mine Pit, with no benzene exceedances of the NJDEP GWQS during the July 2009 sampling event, except at well OB-19 (Table 8). There were no detections of PCBs in any of the groundwater samples collected from shallow groundwater monitoring wells.

Lead concentrations exceeded the NJDEP GWQS at the directional well in Peters Mine Pit (7.2 µg/L) and the upgradient well of the O'Connor Disposal Area (19.9 µg/L). Arsenic concentration exceeded the GWQS of 3 µg/L at O'Connor Disposal Area well OB-16 and the upgradient well at the O'Connor Disposal Area, OB-25.

As previously noted, Iron and manganese exceedances of the NJDEP GWQS were widespread, with concentrations in most of the groundwater samples collected from the shallow groundwater monitoring wells. Comparison of filtered to unfiltered overburden groundwater sample results shows that for metals other than iron, manganese and beryllium, detections in unfiltered samples are typically not detected in the filtered results. This indicates that aluminum, arsenic, and lead are not dissolved in groundwater but are associated with suspended solids (as a mineral or sorbed to colloidal particles).

Dissolved iron and manganese exceeded their respective GWQSs in most of the filtered samples in overburden wells. Approximately 50% of the total iron was in the dissolved phase and 70% of the detected Manganese was in the dissolved state. Because of the widespread presence of iron and manganese that exceeds their respective GWQSs in the vicinity of Peters Mine Pit and the O'Connor Disposal Area, shallow groundwater in overburden does not meet NJDEP's criteria for Class II-A classification.

Bedrock Wells

Shallow and deeper groundwater within bedrock is monitored by a network of wells in the Peters Mine Pit and O'Connor Disposal Area that are completed below the overburden within deeper bedrock, and by shallow and deeper bedrock wells in the Cannon Mine area and St. George Pit/Miller Pit area (saturated overburden is not present in these areas).

VOCs were detected in the vicinity of Peters Mine Pit, with benzene exceeding its NJDEP GWQS in the samples collected from wells RW-6, RW-6A and the air shaft. (Table 6). There were no SVOC detections above the NJDEP GWQS, including bis-(2-ethylhexyl)phthalate. As noted during previous sampling

events, there were no detections of PCBs in any of the groundwater samples collected from shallow or deeper bedrock groundwater monitoring wells.

Lead and arsenic were each detected above their respective NJDEP GWQS in only 4 of 32 deeper bedrock samples collected during this sampling event. Iron and manganese exceedances of the NJDEP GWQS were widespread, with elevated concentrations in most of the groundwater samples collected from the shallow and deeper bedrock groundwater monitoring wells.

Comparison of filtered to unfiltered bedrock groundwater sample results shows that for other than iron and manganese, metals are typically not detected in the filtered results. This indicates that these metals (aluminum, arsenic, and lead) are not dissolved in groundwater but are suspended solids (as a mineral or sorbed to colloidal particles). Because of the widespread presence of iron and manganese at concentrations that exceed their respective NJDEP GWQS, shallow and deeper groundwater in bedrock does not meet the NJDEP's criteria for Class II-A classification for potable water supply.

Detections of constituents of potential concern other than iron and manganese were sporadic and typically below the NJDEP GWQS. Zinc was detected at concentrations exceeding the NJDEP GWQS at depths of 10 to 472 ft bgs at various intervals in wells RW-1, RW-2, RW-4, RW-8, and RW-10.

Present groundwater quality is consistent with historical patterns observed from 1984 through April 2008. Constituents of concern are not present in the groundwater in any consistent pattern. Based on concentrations of iron and manganese in groundwater, water quality at the site is non-potable.

Groundwater at the site is not used for drinking water.

RECOMMENDATIONS

Based on the results of this groundwater sampling event and prior historical groundwater analytical results, Ford again requests that:

1. PCBs be deleted from the analyte parameter list because PCBs have not been detected in groundwater in any samples from any of the monitoring wells from any of the monitoring events;
2. The TCL for VOCs and SVOCs be limited to (benzene, ethylbenzene, toluene, xylenes, isopropylbenzene, 1,1-dichloroethane, chloroethane and bis(2-ethylhexyl)phthalate) as these are the predominant organic compounds detected with other organic compounds on the TCL either never detected or detected sporadically at trace concentrations with no exceedances of NJGWQS;

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3. Monitoring wells OB-1, OB-6, OB-7, OB-10, OB-12, and OB-13 be dropped from the list of wells to be sampled because there have been no detections of constituents of concern or there have been only some sporadic detections at trace concentrations with no exceedances of NJGWQS;
4. Sampling should be conducted on an annual (rather than semi-annual) basis as the sampling results clearly show little change from event to event, with actual analytical results varying by small amounts upward or downward from event to event. The data collected from extra yearly events is no longer providing additional information that increases the understanding of site groundwater issues.
5. Approval for the proposed bedrock monitoring wells conversions as summarized in our response letter dated September 9, 2009.

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Table 1. Summary Data for Monitoring Wells, 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	542.60	544.37	39,190	7,294	BR	6	---	5 to 31	31	512	3	540
OB-2	OB-2	Jul-84	561.40	562.30	37,821	7,508	BR	6	---	8 to 42	42	519	4	557
OB-3	OB-3	Jul-84	495.60	496.53	37,840	7,275	BR	6	---	9 to 24	24	472	7	489
OB-4	OB-4	Jul-84	510.60	510.80	37,889	8,348	BR	6	---	28 to 61	61	450	25	486
OB-5	OB-5	Jul-84	457.90	458.83	37,607	8,634	BR	6	---	18 to 63	63	395	18 est.	440
OB-6	OB-6	Jul-84	605.00	607.28	39,828	8,053	BR	6	---	10 to 36	36	569	8	597
OB-7	OB-7	Jul-84	503.40	503.91	40,068	9,003	BR	6	---	14 to 42	42	461	11	492
OB-8	OB-8	Jul-84	572.50	574.25	43,461	8,737	UC	4	PVC	7 to 17	23	550	18 est.	555
OB-9*	OB-9*	Jul-84	507.60	508.56	41,191	9,759	UC	4	PVC	51 to 61	63	445	NE	---
OB-10	OB-10	Jul-84	349.70	352.04	39,683	12,200	UC	4	PVC	10 to 20	20	330	NE	---
RW-1	RW-1	Jul-84	549.00	550.44	39,232	7,351	BR	6	---	4 to 150	150	399	4	545
RW-2	RW-2	Jul-84	512.80	513.23	37,914	8,312	BR	6	---	14 to 503	503	10	6	507
OB-11*	OB-11*	Sep-84	529.60	530.25	42,601	9,614	UC	4	PVC	14 to 24	25	505	NE	---
RW-3	RW-3	Sep-84	528.20	529.30	42,644	9,760	BR	6	---	58 to 100	100	428	58	470
RW-4	RW-4	Sep-84	539.90	541.07	42,802	10,344	BR	6	---	60 to 543	543	-3	54	486

See last page for notes.

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OB-12	OB-12	Mar-86	557.60	558.36	37,360	7,685	BR	6	---	9 to 40	40	518	6	552
OB-13	OB-13	Mar-86	499.10	500.35	37,180	8,195	BR	6	---	8 to 60	60	439	5	494
OB-14A	OB-14A	Mar-86	500.80	501.40	41,855	10,070	UC	4	SS	4 to 14	20	481	NE	---
OB-14B	OB-14B	Mar-86	503.10	504.11	41,830	10,045	UC	4	SS	25 to 35	40	463	NE	---
OB-15A**	OB-15A**	Mar-86	515.00	515.82	42,520	9,990	UC	4	SS	2 to 12	20	495	NE	---
OB-15B	OB-15B	Mar-86	514.70	515.98	42,525	9,999	UC	4	SS	25 to 35	40	475	NE	---
OB-16	OB-16	Nov-91	488.60	492.30	41,525	10,020	UC	4	SS	5 to 15	14.5	474	NE	---
OB-17	OB-17	Nov-91	486.80	490.26	41,327	10,009	UC	4	SS	3 to 13	13	474	NE	---
OB-18	OB-18	Nov-91	494.60	496.26	41,183	9,965	UC	4	SS	10 to 20	20	475	NE	---
OB-19	MW-19 OB	Mar-06	530.70	532.39	842,739	555,930	UC	2	PVC	5 to 20	24	506.7	NE	---
OB-20A	MW-20 OB	Mar-06	532.10	533.67	842,589	555,816	UC	2	PVC	5 to 20	22	510.1	NE	---
OB-20B	MW-20 OB-34	Mar-06	532.10	534.03	842,575	555,812	UC	2	PVC	24 to 34	35	497.1	NE	---
OB-21	MW-21 OB	Mar-06	537.70	539.48	842,790	555,570	UC	2	PVC	6 to 21	22	515.7	NE	---
RW-5	MW-19 BR	Mar-06	530.30	533.48	842,748	555,928	BR	6	PVC	38 to 120	120	410.3	28	502.3
RW-6	MW-20 BR	Mar-06	531.90	533.96	842,583	555,819	BR	6	PVC	47 to 120	120	411.9	36	495.9
RW-7	MW-21 BR	Mar-06	537.60	539.43	842,793	555,573	BR	6	PVC	32 to 120	120	417.6	22	515.6
OB-22†	OB-19	Oct-06	515.46	518.36	841,207	556,108	UC	2	PVC	10 to 20	20	495.5	NE	---
OB-23†	OB-20	Oct-06	512.75	515.65	841,571	556,225	UC	2	PVC	10 to 20	20	492.8	NE	---
OB-24†	OB-21	Oct-06	497.99	500.89	841,911	556,256	UC	2	PVC	5 to 15	15	483.0	NE	---
OB-25†	OB-22	Oct-06	524.41	527.31	841,978	555,959	UC	2	PVC	10 to 20	20	504.4	NE	---
OB-26†		Dec-07	542.33	545.23	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	561.70	564.13	837,560	554,029	SB	2	PVC	47 to 67	67	494.7	NE	---
RW-5A		Sep-07	530.70	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	569.00	570.10	837,484	553,944	BR	6	---		219	350	3	566.0
RW-9§		Dec-07	560.40	561.87	837,531	554,180	BR	6	---		220	340	12	548.4
RW-10§		Dec-07	539.50	540.98	837258	554277	BR	6	---		220	320	3	536.5

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Notes: 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

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Table 2. 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

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Table 2. 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

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Table 3. Summary of Water Level Measurments, July 2009 Ringwood Mines / Landfill Site, Ringwood, New Jersey

WELL ID	DTW (Feet)	Measuring Point Elevation (Feet)	Groundwater Elevation (Feet)
OB-1	5.92	544.37	538.45
OB-2	18.28	562.30	544.02
OB-3	3.99	496.53	492.54
OB-4	14.55	510.80	496.25
OB-5	1.65	458.83	457.18
OB-6	3.72	607.28	603.56
OB-7	4.24	503.91	499.67
OB-8	---	574.25	
OB-10	5.78	352.04	346.26
OB-11	---	530.25	
OB-12	9.10	558.36	549.26
OB-13	11.44	500.35	488.91
OB-14A	8.74	501.40	492.66
OB-14B	11.52	504.11	492.59
OB-15B	5.56	515.98	510.42
OB-16	5.51	492.30	486.79
OB-17	5.34	490.26	484.92
OB-18	3.14	496.26	493.12
OB-19	12.28	532.39	520.11
OB-20A	14.76	533.67	518.91
OB-20B	14.45	534.03	519.58
OB-21	7.13	539.48	532.35
OB-22	15.02	518.36	503.34
OB-23	16.09	515.65	499.56
OB-24	4.30	500.89	496.59
OB-25	11.41	527.31	515.90
OB-26	8.88	545.23	536.35
SC-1	14.85	532.53	517.68
SC-2	53.07	564.13	511.06
RW-1	9.46	550.44	540.98
RW-2	7.85	513.23	505.38
RW-3	---	529.30	---
RW-4	12.51	541.07	528.56
RW-5	12.28	533.48	521.20
RW-5A	12.80	533.26	520.46
RW-6	12.82	533.96	521.14
RW-6A	13.39	534.32	520.93
RW-7	2.78	539.43	536.65
RW-8	47.84	570.10	522.26
RW-9	34.00	561.87	527.87
RW-10	26.54	540.98	514.44

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Table 4. Bedrock Wells Sampling Intervals, July 2009 Groundwater Sampling Event, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Well No.	Depth (feet)	Open Hole Interval (feet)	Sampling Depth (feet)
RW-1	150	4 to 150	11-31 59 - 79 98 - 118 126 - 146
RW-2	503	14 to 503	20-50 103 - 133 162 - 192 279 – 309 441-472
RW-3	100	58 to 100	62-98
RW-4	543	60 to 543	57-77 108 - 128 328-348 388-408
RW-8	219	3 to 219	42-62 158-178 199-219
RW-9	220	12 to 220	20-40 80-100 134-154 201-221
RW-10	220	3 to 220	22-42 46-66 70-90 115-135 180-200

Table 5. Summary of Equipment Blank Sample Analytical Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Sample ID		PACKER 061509	TAPE 061509	ZIPTIE 061509	FB061509	TB061509
Sample Date	GWQS[1]	6/15/2009	6/15/2009	6/15/2009	6/15/2009	6/15/2009
Validation Status		Final	Final	Final	Final	Final
VOC						
Benzene	1	< 0.23	**9.8**	< 0.23	< 0.23	< 0.23
Toluene	1000	6.2	**2830 D**	< 0.3	< 0.3	< 0.3
Ethylbenzene	700	0.86 J	< 0.27	< 0.27	< 0.27	< 0.27
Xylenes	1000	6.3	1.5	< 0.25	< 0.25	< 0.25
SVOC						
Benzyl butyl phthalate	100	< 0.25	< 0.25	< 0.25	< 0.25	NA
bis(2-Ethylhexyl)phthalate	3	< 3.1	< 0.33	< 0.33	1.2 JB	NA
Diethyl phthalate	6000	< 0.17	< 0.17	< 0.17	< 0.17	NA
Dimethyl phthalate	NS	< 0.23	< 0.23	< 0.23	< 0.23	NA
di-n-butyl phthalate	700	1.4 J	< 0.19	< 0.19	< 0.19	NA
di-n-octylphthalate	100	< 0.4	< 0.4	< 0.4	< 0.4	NA

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

< Not detected.
NA Not analyzed.
NS No standard.
J Estimated result.
D Result is from a dilution analysis.
B Analyte found in associated method blank.
Bold Value is above the Ground Water Quality Standard.
[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.

Table 6. Summary of Ground Water Analytical Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location ID		RW-1 (10-31)				RW-1 (58-79)				
Sample ID	**GWQS[1]**	**RW1(10-31)**	**RW1(11-31) (080506)**	**RW1(11-31)**	**RW-1(10-30)**	**RW1(58-79)**	**RW1(59-79) (080506)**	**RW1(59-79)**	**RW1(59-79) Dup**	**RW-1(58-78)**
Sample Date		**10/9/2007**	**5/6/2008**	**9/18/2008**	**7/17/2009**	**10/10/2007**	**5/6/2008**	**9/19/2008**	**9/19/2008**	**7/17/2009**
Depth Interval		**10 - 31**	**11 - 31**	**11 - 31**	**10 - 30**	**58 - 79**	**59 - 79**	**59 - 79**	**59 - 79**	**58 - 78**
Validation Status		**Final**	**Final**	**Final**	**Pending**	**Final**	**Final**	**Final**	**Final**	**Pending**
VOC										
Benzene	1	< 0.19	< 0.26	**9.8**	< 0.23	< 0.19	< 0.26	**8.6**	**8.4**	< 0.23
Ethylbenzene	700	< 0.21	< 0.27	< 0.27	< 0.27	< 0.21	< 0.27	< 0.27	< 0.27	< 0.27
Toluene	1000	3.9	10.8	15.7	< 0.3	0.88 J	3.5	14.7	14.2	< 0.3
o-Xylene	NS	< 0.2	< 0.45	< 0.45	< 0.25	< 0.2	< 0.45	< 0.45	< 0.45	< 0.25
Xylene, -m,p	NS	< 0.35	< 0.39	< 0.39	< 0.25	< 0.35	< 0.39	< 0.39	< 0.39	< 0.25
Xylenes	1,000	< 0.2	< 0.39	< 0.39	< 0.25	< 0.2	< 0.39	< 0.39	< 0.39	< 0.25
SVOC										
bis(2-Ethylhexyl)phthalate	3	**3.4**	< 0.88	< 0.75	< 0.37	< 0.66	1.1 J	< 0.79	< 0.8	< 0.37

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

< Not detected.
NS No standard.
B Organic: analyte found in associated method blank.
D Secondary dilution result reported.
J Estimated 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.
Bold Value is above the Ground Water Quality Standard.

Table 6. Summary of Ground Water Analytical Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location ID		RW-1 (97-118)					RW-1 (125-146)			
Sample ID	**GWQS[1]**	**RW1(97-118)**	**RW-1(98-118)**	**DUP-03(080507) (RW-1(98-118))**	**RW1(98-118)**	**RW-1(97-117)**	**RW1(125-146)**	**RW-1(126-146) (5/7/08)**	**RW-1 (126-146)**	**RW-1(126-146)**
Sample Date		**10/10/2007**	**5/7/2008**	**5/7/2008**	**9/19/2008**	**7/17/2009**	**10/10/2007**	**5/7/2008**	**9/22/2008**	**7/17/2009**
Depth Interval		**97 - 118**	**98 - 118**	**98 - 118**	**98 - 118**	**97 - 117**	**125 - 146**	**126 - 146**	**126 - 146**	**126 - 146**
Validation Status		**Final**	**Final**	**Final**	**Final**	**Pending**	**Final**	**Final**	**Final**	**Pending**
VOC										
Benzene	1	< 0.19	< 0.26	< 0.26	**2**	< 0.23	< 0.19	< 0.26	**6.2**	< 0.23
Ethylbenzene	700	< 0.21	< 0.27	< 0.27	< 0.27	< 0.27	< 0.21	< 0.27	< 0.27	< 0.27
Toluene	1000	0.69 J	8.1	6.9	5.9	< 0.3	0.54 J	5.6	13.8	< 0.3
o-Xylene	NS	< 0.2	< 0.45	< 0.45	< 0.45	< 0.25	< 0.2	< 0.45	< 0.45	< 0.25
Xylene, -m,p	NS	< 0.35	< 0.39	< 0.39	< 0.39	< 0.25	< 0.35	< 0.39	< 0.39	< 0.25
Xylenes	1,000	< 0.2	< 0.39	< 0.39	< 0.39	< 0.25	< 0.2	< 0.39	< 0.39	< 0.25
SVOC										
bis(2-Ethylhexyl)phthalate	3	1.2 J	1.3 J	**3.7**	< 0.77	< 0.36	< 0.7	< 0.88	< 0.78	1.3 J

Results are presented in micrograms per liter (

< Not detected.

NS No standard.

B Organic: analyte found in associated m

D Secondary dilution result reported.

J Estimated result.

[1] Ground Water Quality Standards (GW(current 2005 and interim criteria.

Bold Value is above the Ground Water Qual

Table 6. Summary of Ground Water Analytical Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location ID		RW-2 (19-50)				RW-2 (102-133)				RW-2 (161-192)	
Sample ID	**GWQS[1]**	**RW2(19-50)**	**RW-2(20-50) (5/1/2008)**	**RW2(20-50)**	**RW-2(20-50)**	**RW2(102-133)**	**RW-2(103-133)**	**RW-2 (103-133)**	**RW-2 (102-133)**	**RW2(161-192)**	**RW-2 (162-192)**
Sample Date		**10/15/2007**	**5/1/2008**	**9/16/2008**	**7/10/2009**	**10/15/2007**	**5/1/2008**	**9/17/2008**	**7/13/2009**	**10/16/2007**	**7/13/2009**
Depth Interval		**19 - 50**	**20 - 50**	**20 - 50**	**20 - 50**	**102 - 133**	**103 - 133**	**103 - 133**	**102 - 133**	**161 - 192**	**162 - 192**
Validation Status		**Final**	**Final**	**Final**	**Pending**	**Final**	**Final**	**Final**	**Pending**	**Final**	**Pending**
VOC											
Benzene	1	< 0.19	< 0.26	**7.4**	< 0.23	< 0.19	< 0.26	**43.8**	< 0.23	< 0.19	< 0.23
Ethylbenzene	700	< 0.21	< 0.27	< 0.27	< 0.27	< 0.21	< 0.27	0.66 J	< 0.27	< 0.21	< 0.27
Toluene	1000	18.8	28.5	8.2	< 0.3	149	72.4	51.8	< 0.3	55.2	< 0.3
o-Xylene	NS	< 0.2	< 0.45	< 0.45	< 0.25	< 0.2	< 0.45	< 0.45	< 0.25	< 0.2	< 0.25
Xylene, -m,p	NS	< 0.35	< 0.39	< 0.39	< 0.25	< 0.35	< 0.39	0.95 J	< 0.25	< 0.35	< 0.25
Xylenes	1,000	< 0.2	< 0.39	< 0.39	< 0.25	0.33 J	< 0.39	0.95 J	< 0.25	< 0.2	< 0.25
SVOC											
bis(2-Ethylhexyl)phthalate	3	< 0.66	< 5 BJ	< 0.77	< 0.38	2.1	< 6.6 BJ	< 0.75	< 0.38	1.9 J	< 0.38

Results are presented in micrograms per liter (ı

< Not detected.

NS No standard.

B Organic: analyte found in associated m

D Secondary dilution result reported.

J Estimated result.

[1] Ground Water Quality Standards (GW(current 2005 and interim criteria.

Bold Value is above the Ground Water Qual

Table 6. Summary of Ground Water Analytical Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location ID		RW-2 (278-309)			RW-2 (441-472)			RW-3 (62-98)			
Sample ID	**GWQS[1]**	**RW2(278-309)**	**RW-2(279-309)**	**RW-2 (279-309)**	**RW2(441-472)**	**RW-2 (442-472)**	**RW-2(441-472)**	**RW3(62-98)**	**RW-3(62-98) (4/30/2009)**	**RW3 (62-98)**	**RW-3(62-98)**
Sample Date		**10/16/2007**	**9/11/2008**	**7/13/2009**	**10/17/2007**	**5/5/2008**	**7/14/2009**	**10/12/2007**	**4/30/2008**	**9/8/2008**	**7/6/2009**
Depth Interval		**278 - 309**	**279 - 309**	**279 - 309**	**441 - 472**	**442 - 472**	**441 - 472**	**62 - 98**	**62 - 98**	**62 - 98**	**62 - 98**
Validation Status		**Final**	**Final**	**Pending**	**Final**	**Final**	**Pending**	**Final**	**Final**	**Final**	**Pending**
VOC											
Benzene	1	< 0.19	< 6	< 0.23	< 0.19	< 0.26	< 0.23	< 0.19	< 0.26	< 0.26	< 0.23
Ethylbenzene	700	< 0.21	< 0.27	< 0.27	< 0.21	< 0.27	< 0.27	< 0.21	< 0.27	< 0.27	< 0.27
Toluene	1000	10	< 45	< 0.3	21	12.5	< 0.3	< 0.21	3.1	20.6	< 0.3
o-Xylene	NS	< 0.2	< 0.45	< 0.25	< 0.2	< 0.45	< 0.25	< 0.2	< 0.45	< 0.45	< 0.25
Xylene, -m,p	NS	< 0.35	< 0.39	< 0.25	< 0.35	< 0.39	< 0.25	< 0.35	< 0.39	< 0.39	< 0.25
Xylenes	1,000	< 0.2	< 0.39	< 0.25	< 0.2	< 0.39	< 0.25	< 0.2	< 0.39	< 0.39	< 0.25
SVOC											
bis(2-Ethylhexyl)phthalate	3	**5.5**	< 0.8	< 0.36	**26.4**	< 5.3 B	< 0.33	< 0.66 J	< 0.88	**8.5**	< 0.36

Results are presented in micrograms per liter (ı

< Not detected.

NS No standard.

B Organic: analyte found in associated m

D Secondary dilution result reported.

J Estimated result.

[1] Ground Water Quality Standards (GW(current 2005 and interim criteria.

Bold Value is above the Ground Water Qual

Table 6. Summary of Ground Water Analytical Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location ID		RW-4 (56-77)				RW-4 (108-129)			
Sample ID	**GWQS[1]**	**RW4 (56-77)**	**RW-4(57-77)**	**RW4(57-77)**	**RW-4(56-77)**	**RW4 (108-129)**	**RW-4(108-128) (4/29/2008)**	**RW4(108-128)**	**RW-4(108-128)**
Sample Date		**10/11/2007**	**4/28/2008**	**9/15/2008**	**6/30/2009**	**10/11/2007**	**4/29/2008**	**9/16/2008**	**6/30/2009**
Depth Interval		**56 - 77**	**57 - 77**	**57 - 77**	**56 - 77**	**108 - 129**	**108 - 128**	**108 - 128**	**108 - 128**
Validation Status		**Final**	**Final**	**Final**	**Pending**	**Final**	**Final**	**Final**	**Pending**
VOC									
Benzene	1	< 0.19	< 0.26	**14.3**	< 0.23	< 0.19	< 0.26	**3.3**	< 0.23
Ethylbenzene	700	1.3	< 0.27	< 0.27	< 0.27	< 0.21	< 0.27	< 0.27	< 0.27
Toluene	1000	97.1	24.9	20.3	< 0.3	0.95 J	7.8	5.1	< 0.3
o-Xylene	NS	0.95 J	< 0.45	< 0.45	< 0.25	< 0.2	< 0.45	< 0.45	< 0.25
Xylene, -m,p	NS	4.5	< 0.39	< 0.39	< 0.25	< 0.35	< 0.39	< 0.39	< 0.25
Xylenes	1,000	5.4	< 0.39	< 0.39	< 0.25	< 0.2	< 0.39	< 0.39	< 0.25
SVOC									
bis(2-Ethylhexyl)phthalate	3	2.4	2	2.3	< 0.37	< 0.67	< 0.91	< 0.75	1.2 J

Results are presented in micrograms per liter (ı

< Not detected.

NS No standard.

B Organic: analyte found in associated m

D Secondary dilution result reported.

J Estimated result.

[1] Ground Water Quality Standards (GW(current 2005 and interim criteria.

Bold Value is above the Ground Water Qual

Table 6. Summary of Ground Water Analytical Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location ID		RW-4 (328-349)				RW-4 (388-409)			
Sample ID	**GWQS[1]**	**RW4 (328-349)**	**RW-4(328-348) (4/29/2008)**	**RW-4(328-348)**	**RW-4(328-349)**	**RW4 (388-409)**	**RW-4(388-408) (4/29/2008)**	**RW-4(388-408) (9/10/2008)**	**RW-4(388-408)**
Sample Date		**10/11/2007**	**4/29/2008**	**9/9/2008**	**7/2/2009**	**10/11/2007**	**4/29/2008**	**9/10/2008**	**7/2/2009**
Depth Interval		**328 - 349**	**328 - 348**	**328 - 348**	**328 - 349**	**388 - 409**	**388 - 408**	**388 - 408**	**388 - 408**
Validation Status		**Final**	**Final**	**Final**	**Pending**	**Final**	**Final**	**Final**	**Pending**
VOC									
Benzene	1	< 0.19	< 0.26	0.3 J	< 0.23	< 0.19	< 0.26	< 0.26	< 0.23
Ethylbenzene	700	< 0.21	< 0.27	< 0.27	< 0.27	< 0.21	< 0.27	< 0.27	< 0.27
Toluene	1000	1.1	2.2	21.4	0.4 J	0.54 J	1.4	4.2	0.32 J
o-Xylene	NS	< 0.2	< 0.45	< 0.45	< 0.25	< 0.2	< 0.45	< 0.45	< 0.25
Xylene, -m,p	NS	< 0.35	< 0.39	< 0.39	< 0.25	< 0.35	< 0.39	< 0.39	< 0.25
Xylenes	1,000	< 0.2	< 0.39	< 0.39	< 0.25	< 0.2	< 0.39	< 0.39	< 0.25
SVOC									
bis(2-Ethylhexyl)phthalate	3	1.3 J	< 0.88 J	< 0.82	< 0.36	2.2	< 0.92 J	< 0.83	1.1 J

Results are presented in micrograms per liter (

< Not detected.

NS No standard.

B Organic: analyte found in associated m

D Secondary dilution result reported.

J Estimated result.

[1] Ground Water Quality Standards (GW(current 2005 and interim criteria.

Bold Value is above the Ground Water Qual

Table 6. Summary of Ground Water Analytical Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location ID		RW-8 (42-62)		RW-8 (158-178)		RW-8 (199-219)		RW-9 (20-40)	
Sample ID	**GWQS[1]**	**RW8(42-62)**	**RW-8(42-62)**	**RW8(158-178)**	**RW-8(158-178)**	**RW8(199-219)**	**RW-8(199-219)**	**RW9(20-40)**	**RW-9(20-40)**
Sample Date		**7/31/2008**	**7/7/2009**	**7/21/2008**	**7/7/2009**	**7/22/2008**	**7/7/2009**	**7/30/2008**	**7/15/2009**
Depth Interval		**42 - 62**	**42 - 62**	**158 - 178**	**158 - 178**	**199 - 219**	**199 - 219**	**20 - 40**	**20 - 40**
Validation Status		**Final**	**Pending**	**Final**	**Pending**	**Final**	**Pending**	**Final**	**Pending**
VOC									
Benzene	1	0.62 J	< 0.23	< 0.26	< 0.23	0.38 J	< 0.23	**7**	< 0.23
Ethylbenzene	700	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	0.43 J	< 0.27
Toluene	1000	27.8	< 0.3	50.9	< 0.3	140	0.66 J	198 D	< 0.3
o-Xylene	NS	< 0.45	< 0.25	< 0.45	< 0.25	< 0.45	< 0.25	< 0.45	< 0.25
Xylene, -m,p	NS	< 0.39	< 0.25	< 0.39	< 0.25	< 0.39	< 0.25	< 0.39	< 0.25
Xylenes	1,000	< 0.39	< 0.25	< 0.39	< 0.25	< 0.39	< 0.25	< 0.39	< 0.25
SVOC									
bis(2-Ethylhexyl)phthalate	3	< 0.75	< 0.33	< 0.75	< 0.36	2.3	< 0.38	**3.2**	< 0.36

Results are presented in micrograms per liter (ı

< Not detected.

NS No standard.

B Organic: analyte found in associated m

D Secondary dilution result reported.

J Estimated result.

[1] Ground Water Quality Standards (GW(current 2005 and interim criteria.

Bold Value is above the Ground Water Qual

Table 6. Summary of Ground Water Analytical Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location ID		RW-9 (80-100)			RW-9 (134-154)			RW-9 (201-221)		RW-10 (22-42)
Sample ID	**GWQS[1]**	**RW9 (80-100)**	**DUP 1 (RW9 (80-100))**	**RW-9(80-100)**	**RW9 (134-154)**	**RW-9(134-154)**	**RW-9(134-154) Dup**	**RW-9 (201-221)**	**RW-9(201-221)**	**RW-10(22-42)**
Sample Date		**7/23/2008**	**7/23/2008**	**7/15/2009**	**7/23/2008**	**7/16/2009**	**7/16/2009**	**7/24/2008**	**7/16/2009**	**7/8/2009**
Depth Interval		**80 - 100**	**80 - 100**	**80 - 100**	**134 - 154**	**134 - 154**	**134 - 154**	**201 - 221**	**201 - 221**	**22 - 42**
Validation Status		**Final**	**Final**	**Pending**	**Final**	**Pending**	**Pending**	**Final**	**Pending**	**Pending**
VOC										
Benzene	1	0.93 J	**1.1**	< 0.23	0.7 J	< 0.23	< 0.23	**1.5**	< 0.23	< 0.23
Ethylbenzene	700	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27
Toluene	1000	34.3	32.9	< 0.3	32.8	< 0.3	< 0.3	65.1	< 0.3	< 0.3
o-Xylene	NS	< 0.45	< 0.45	< 0.25	< 0.45	< 0.25	< 0.25	< 0.45	< 0.25	< 0.25
Xylene, -m,p	NS	< 0.39	< 0.39	< 0.25	< 0.39	< 0.25	< 0.25	< 0.39	< 0.25	< 0.25
Xylenes	1,000	< 0.39	< 0.39	< 0.25	< 0.39	< 0.25	< 0.25	< 0.39	< 0.25	< 0.25
SVOC										
bis(2-Ethylhexyl)phthalate	3	**4.6 J**	**4.4 J**	< 0.35	**9.5 J**	2.5	2.7	2.7 J	2.9	< 0.35

Results are presented in micrograms per liter (ı

< Not detected.

NS No standard.

B Organic: analyte found in associated m

D Secondary dilution result reported.

J Estimated result.

[1] Ground Water Quality Standards (GW(current 2005 and interim criteria.

Bold Value is above the Ground Water Qual

Table 6. Summary of Ground Water Analytical Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location ID		RW-10 (46-66)		RW-10 (70-90)		RW-10 (115-135)		RW-10 (180-200)	
Sample ID	**GWQS[1]**	**RW-10 (46-66)**	**RW-10(46-66)**	**RW10(70-90)**	**RW-10(70-90)**	**RW10 (115-135)**	**RW-10(115-135)**	**RW-10 (180-200)**	**RW-10(180-200)**
Sample Date		**7/25/2008**	**7/9/2009**	**7/28/2008**	**7/9/2009**	**7/28/2008**	**7/9/2009**	**7/29/2008**	**7/9/2009**
Depth Interval		**46 - 66**	**46 - 66**	**70 - 90**	**70 - 90**	**115 - 135**	**115 - 135**	**180 - 200**	**180 - 200**
Validation Status		**Final**	**Pending**	**Final**	**Pending**	**Final**	**Pending**	**Final**	**Pending**
VOC									
Benzene	1	< 0.26	< 0.23	0.26 J	< 0.23	< 0.26	< 0.23	0.57 J	< 0.23
Ethylbenzene	700	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27
Toluene	1000	37.5	< 0.3	94	< 0.3	75.5	< 0.3	66.4	< 0.3
o-Xylene	NS	< 0.45	< 0.25	< 0.45	< 0.25	< 0.45	< 0.25	< 0.45	< 0.25
Xylene, -m,p	NS	< 0.39	< 0.25	0.77 J	< 0.25	0.54 J	< 0.25	0.75 J	< 0.25
Xylenes	1,000	< 0.39	< 0.25	0.77 J	< 0.25	0.54 J	< 0.25	0.75 J	< 0.25
SVOC									
bis(2-Ethylhexyl)phthalate	3	1.2 J	< 0.35	1.8 J	< 0.36	3	< 0.38	**7.1**	< 0.36

Results are presented in micrograms per liter (ı

< Not detected.

NS No standard.

B Organic: analyte found in associated m

D Secondary dilution result reported.

J Estimated result.

[1] Ground Water Quality Standards (GW(current 2005 and interim criteria.

Bold Value is above the Ground Water Qual

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Table 1. Summary of JA20962 Analytical Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Sample ID		**PACKER 061509**	**TAPE 061509**	**ZIPTIE 061509**	**FB061509**	**TB061509**
Sample Date	**GWQS[1]**	**6/15/2009**	**6/15/2009**	**6/15/2009**	**6/15/2009**	**6/15/2009**
Validation Status		**Final**	**Final**	**Final**	**Final**	**Final**
VOC						
Benzene	1	< 0.23	**9.8**	< 0.23	< 0.23	< 0.23
Toluene	1000	6.2	**2830 D**	< 0.3	< 0.3	< 0.3
Ethylbenzene	700	0.86 J	< 0.27	< 0.27	< 0.27	< 0.27
Xylenes	1000	6.3	1.5	< 0.25	< 0.25	< 0.25
SVOC						
Benzyl butyl phthalate	100	< 0.25	< 0.25	< 0.25	< 0.25	NA
bis(2-Ethylhexyl)phthalate	3	< 3.1	< 0.33	< 0.33	1.2 JB	NA
Diethyl phthalate	6000	< 0.17	< 0.17	< 0.17	< 0.17	NA
Dimethyl phthalate	NS	< 0.23	< 0.23	< 0.23	< 0.23	NA
di-n-butyl phthalate	700	1.4 J	< 0.19	< 0.19	< 0.19	NA
di-n-octylphthalate	100	< 0.4	< 0.4	< 0.4	< 0.4	NA

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

< Not detected.
NA Not analyzed.
NS No standard.
J Estimated result.
D Result is from a dilution analysis.
B Analyte found in associated method blank.
Bold Value is above the Ground Water Quality Standard.
[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.

Table 7. Summary of PFB Analytical Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Sample ID		**P-FB(080910)**	**P-FB(080911)**	**P-FB(080912)**	**PFB(070109)**	**PFB(070609)**	**PFB(070809)**	**PFB(071309)**	**PFB(071409)**	**PFB(071509)**	**PFB(071609)**	**PFB(071709)**
Sample Date	**GWQS[1]**	**9/10/2008**	**9/11/2008**	**9/12/2008**	**7/1/2009**	**7/6/2009**	**7/8/2009**	**7/13/2009**	**7/14/2009**	**7/15/2009**	**7/16/2009**	**7/17/2009**
Validation Status		**Final**	**Final**	**Final**	**Final**	**Final**	**Final**	**Final**	**Final**	**Final**	**Final**	**Final**
VOC												
Benzene	1	< 0.26	< 0.26	< 0.26	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Toluene	1000	< 0.15	< 0.15	< 0.15	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Ethylbenzene	700	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27
Xylenes	1,000	< 0.39	< 0.39	< 0.39	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
SVOC												
Benzyl butyl phthalate	100	< 0.44	< 0.5	< 0.43	< 0.28	< 0.25	< 0.25	< 0.25	< 0.28	< 0.25	< 0.29	< 0.25
bis(2-Ethylhexyl)phthalate	3	< 0.78	< 0.9	**30.9**	2.1 J	< 0.33	2.1	< 0.33	1.4 J	< 0.33	< 0.37	< 0.33
Diethyl phthalate	6000	< 0.38	< 0.43	< 0.37	< 0.18	< 0.17	< 0.17	< 0.17	< 0.18	< 0.17	< 0.19	< 0.17
Dimethyl phthalate	NS	< 0.38	< 0.43	< 0.37	< 0.25	< 0.23	< 0.23	< 0.23	< 0.25	< 0.23	< 0.26	< 0.23
di-n-butyl phthalate	700	< 0.52	< 0.6	< 0.51	< 0.21	< 0.19	< 0.19	< 0.19	< 0.21	< 0.19	< 0.22	< 0.19
di-n-octylphthalate	100	< 0.52	< 0.6	< 0.51	< 0.44	< 0.4	< 0.4	< 0.4	< 0.44	< 0.4	< 0.45	< 0.4

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

< Not detected.
NA Not analyzed.
NS No standard.
J Estimated result.
Bold Value is above the Ground Water Quality Standard.
[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.

Table 8. Summary of Ground Water Analytical Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location ID		DUP	DUP	DUP	DUP	OB-01	OB-02	OB-03	OB-04	OB-05	OB-06	OB-07	OB-10
Sample ID	GWQS[1]	DUP(063009)	DUP(070709)	DUP(071009)	DUP(071609)	OB-1(070209)	OB-2(063009)	OB-3(063009)	OB-4(070109)	OB-5(070109)	OB-6(070209)	OB-7(070109)	OB-10(070109)
Sample Date		6/30/2009	7/7/2009	7/10/2009	7/16/2009	7/2/2009	6/30/2009	6/30/2009	7/1/2009	7/1/2009	7/2/2009	7/1/2009	7/1/2009
Validation Status		Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending
VOC													
1,1,1-Trichloroethane	30	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
1,1,2,2-Tetrachloroethane	1	< 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-Trichloroethane	3	< 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	50	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29
1,1-Dichloroethene	1	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
1,2,4-Trichlorobenzene	9	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56
1,2-Dibromo-3-Chloropropane (DBCP)	0.02 [1]	< 1.1*	< 1.1*	< 1.1*	< 1.1*	< 1.1*	< 1.1*	< 1.1*	< 1.1*	< 1.1*	< 1.1*	< 1.1*	< 1.1*
1,2-Dibromoethane	0.03 [0.5]	< 0.39*	< 0.39*	< 0.39*	< 0.39*	< 0.39*	< 0.39*	< 0.39*	< 0.39*	< 0.39*	< 0.39*	< 0.39*	< 0.39*
1,2-Dichlorobenzene	600	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
1,2-Dichloroethane	2	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
1,2-Dichloropropane	1	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27
1,3-Dichlorobenzene	600	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
1,4-Dichlorobenzene	75	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
2-Butanone (MEK)	300	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6
2-Hexanone	NS	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
4-methyl-2-pentanone (MIBK)	NS	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86
Acetone	6000	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9
Benzene	1	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Bromodichloromethane	1	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Bromoform	4	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Bromomethane	10	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Carbon disulfide	700	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74
Carbon tetrachloride	1	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
Chlorobenzene	50	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39
Chloroethane	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
Chloroform	70	< 0.23	< 0.23	6.5	< 0.23	< 0.23	< 0.23	< 0.23	0.4 J	< 0.23	< 0.23	< 0.23	< 0.23
Chloromethane	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
cis-1,2-Dichloroethene	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
cis-1,3-Dichloropropene	NS	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Cyclohexane	NS	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9
Dibromochloromethane	1	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Dichlorodifluoromethane	1,000	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92
Ethylbenzene	700	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27
Freon 113	NS	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
Isopropylbenzene	700	< 0.57	< 0.57	< 0.57	< 0.57	< 0.57	< 0.57	< 0.57	< 0.57	< 0.57	< 0.57	< 0.57	< 0.57
Methyl acetate	7000	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Methyl tert butyl ether	70	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	2.4	< 0.23	< 0.23	< 0.23
Methylcyclohexane	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
Methylene chloride	3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
o-Xylene	NS	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Styrene	100	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58
Tetrachloroethene	1	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27
Toluene	1000	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Trans-1,2-dichloroethene	100	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
trans-1,3-Dichloropropene	NS	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Trichloroethene	1	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	0.95 J	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Trichlorofluoromethane	2000	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54
Vinyl Chloride	1	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
Xylene, -m,p	NS	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Xylenes	1,000	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Total TIC, Volatile	NS	0	0	0	0	0	0	0	0	0	14.6 J	0	0

Table 8. Summary of Ground Water Analytical Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location ID		DUP	DUP	DUP	DUP	OB-01	OB-02	OB-03	OB-04	OB-05	OB-06	OB-07	OB-10
Sample ID	GWQS[1]	DUP(063009)	DUP(070709)	DUP(071009)	DUP(071609)	OB-1(070209)	OB-2(063009)	OB-3(063009)	OB-4(070109)	OB-5(070109)	OB-6(070209)	OB-7(070109)	OB-10(070109)
Sample Date		6/30/2009	7/7/2009	7/10/2009	7/16/2009	7/2/2009	6/30/2009	6/30/2009	7/1/2009	7/1/2009	7/2/2009	7/1/2009	7/1/2009
Validation Status		Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending
SVOC													
1,1'-Biphenyl	400	< 0.44	< 0.42	< 0.49	< 0.46	< 0.42	< 0.46	< 0.48	< 0.46	< 0.43	< 0.48	< 0.46	< 0.45
2,4,5-Trichlorophenol	700	< 1.4	< 1.3	< 1.5	< 1.5	< 1.3	< 1.5	< 1.5	< 1.4	< 1.4	< 1.5	< 1.4	< 1.4
2,4,6-Trichlorophenol	20	< 1.3	< 1.2	< 1.4	< 1.3	< 1.2	< 1.3	< 1.4	< 1.3	< 1.3	< 1.4	< 1.3	< 1.3
2,4-Dichlorophenol	20	< 1.3	< 1.2	< 1.4	< 1.3	< 1.2	< 1.3	< 1.4	< 1.3	< 1.3	< 1.4	< 1.3	< 1.3
2,4-Dimethylphenol	100	< 1.7	< 1.7	< 1.9	< 1.8	< 1.7	< 1.8	< 1.9	< 1.8	< 1.7	< 1.9	< 1.8	< 1.8
2,4-Dinitrophenol	40	< 0.78	< 0.74	< 0.86	< 0.81	< 0.74	< 0.81	< 0.84	< 0.8	< 0.76	< 0.84	< 0.8	< 0.78
2,4-Dinitrotoluene	NS	< 0.23	< 0.22	< 0.26	< 0.24	< 0.22	< 0.24	< 0.25	< 0.24	< 0.23	< 0.25	< 0.24	< 0.23
2,6-Dinitrotoluene	NS	< 0.34	< 0.33	< 0.38	< 0.36	< 0.33	< 0.36	< 0.37	< 0.35	< 0.34	< 0.37	< 0.35	< 0.35
2-Chloronaphthalene	600	< 0.44	< 0.42	< 0.48	< 0.46	< 0.42	< 0.46	< 0.47	< 0.45	< 0.43	< 0.47	< 0.45	< 0.44
2-Chlorophenol	40	< 1.1	< 1.1	< 1.2	< 1.2	< 1.1	< 1.2	< 1.2	< 1.2	< 1.1	< 1.2	< 1.2	< 1.1
2-Methylnaphthalene	NS	< 0.69	< 0.66	< 0.77	< 0.72	< 0.66	< 0.72	< 0.75	< 0.72	< 0.68	< 0.75	< 0.72	< 0.7
2-Methylphenol	NS	< 1.2	< 1.1	< 1.3	< 1.2	< 1.1	< 1.2	< 1.3	< 1.2	< 1.2	< 1.3	< 1.2	< 1.2
2-Nitroaniline	NS	< 0.25	< 0.24	< 0.27	< 0.26	< 0.24	< 0.26	< 0.27	< 0.26	< 0.24	< 0.27	< 0.26	< 0.25
2-Nitrophenol	NS	< 1.3	< 1.2	< 1.4	< 1.4	< 1.2	< 1.4	< 1.4	< 1.3	< 1.3	< 1.4	< 1.3	< 1.3
3&4-Methylphenol	NS	< 1.1	< 1	< 1.2	< 1.1	< 1	< 1.1	< 1.2	< 1.1	< 1.1	< 1.2	< 1.1	< 1.1
3,3'-Dichlorobenzidine	30	< 0.31	< 0.3	< 0.34	< 0.32	< 0.3	< 0.32	< 0.34	< 0.32	< 0.3	< 0.34	< 0.32	< 0.31
3-Nitroaniline	NS	< 0.3	< 0.29	< 0.33	< 0.32	< 0.29	< 0.32	< 0.33	< 0.31	< 0.3	< 0.33	< 0.31	< 0.31
4,6-Dinitro-2-methylphenol	NS	< 0.54	< 0.51	< 0.6	< 0.56	< 0.51	< 0.56	< 0.58	< 0.56	< 0.53	< 0.58	< 0.56	< 0.55
4-Bromophenyl phenyl ether	NS	< 0.37	< 0.35	< 0.41	< 0.38	< 0.35	< 0.38	< 0.4	< 0.38	< 0.36	< 0.4	< 0.38	< 0.37
4-Chloro-3-Methylphenol	NS	< 1.1	< 1.1	< 1.2	< 1.2	< 1.1	< 1.2	< 1.2	< 1.1	< 1.1	< 1.2	< 1.1	< 1.1
4-Chloroaniline	30	< 0.27	< 0.25	< 0.29	< 0.28	< 0.25	< 0.28	< 0.29	< 0.28	< 0.26	< 0.29	< 0.28	< 0.27
4-Chlorophenyl phenyl ether	NS	< 0.37	< 0.35	< 0.41	< 0.39	< 0.35	< 0.39	< 0.4	< 0.38	< 0.36	< 0.4	< 0.38	< 0.38
4-Nitroaniline	NS	< 0.19	< 0.18	< 0.21	< 0.2	< 0.18	< 0.2	< 0.2	< 0.19	< 0.18	< 0.2	< 0.19	< 0.19
4-Nitrophenol	NS	< 0.87	< 0.83	< 0.96	< 0.91	< 0.83	< 0.91	< 0.94	< 0.9	< 0.85	< 0.94	< 0.9	< 0.88
Acetophenone	700	< 0.42	< 0.4	< 0.46	< 0.44	< 0.4	< 0.44	< 0.45	< 0.43	< 0.41	< 0.45	< 0.43	< 0.42
Atrazine	3	< 0.41	< 0.39	< 0.45	< 0.43	< 0.39	< 0.43	< 0.44	< 0.43	< 0.4	< 0.44	< 0.43	< 0.42
Benzaldehyde	NS	< 0.43	< 0.4	< 0.47	< 0.44	< 0.4	< 0.44	< 0.46	< 0.44	< 0.42	< 0.46	< 0.44	< 0.43
Benzyl butyl phthalate	100	< 0.26	< 0.25	< 0.29	< 0.28	< 0.25	< 0.28	< 0.29	< 0.27	< 0.26	< 0.29	< 0.27	< 0.27
bis(2-Chloroethoxy)methane	NS	< 0.26	< 0.25	< 0.29	< 0.27	< 0.25	< 0.27	< 0.28	< 0.27	< 0.26	< 0.28	< 0.27	< 0.26
bis(2-Chloroethyl)ether	7	< 0.33	< 0.31	< 0.36	< 0.34	< 0.31	< 0.34	< 0.35	< 0.34	< 0.32	< 0.35	< 0.34	< 0.33
bis(2-Chloroisopropyl)ether	300	< 0.41	< 0.39	< 0.45	< 0.43	< 0.39	< 0.43	< 0.44	< 0.42	< 0.4	< 0.44	< 0.42	< 0.41
bis(2-Ethylhexyl)phthalate	3	< 0.34	< 0.33	< 0.38	2.7	< 0.33	< 0.36	< 0.37	< 0.36	< 0.34	< 0.37	< 0.36	< 0.35
Caprolactam	NS	< 0.21	< 0.2	< 0.23	< 0.21	< 0.2	< 0.21	< 0.22	< 0.21	< 0.2	< 0.22	< 0.21	< 0.21
Carbazole	NS	< 0.17	< 0.17	< 0.19	< 0.18	< 0.17	< 0.18	< 0.19	< 0.18	< 0.17	< 0.19	< 0.18	< 0.18
Dibenzofuran	NS	< 0.32	< 0.3	< 0.35	< 0.33	< 0.3	< 0.33	< 0.35	< 0.33	< 0.31	< 0.35	< 0.33	< 0.32
Diethyl phthalate	6000	< 0.17	< 0.17	< 0.19	< 0.18	< 0.17	< 0.18	< 0.19	< 0.18	< 0.17	< 0.19	< 0.18	< 0.18
Dimethyl phthalate	NS	< 0.24	< 0.23	< 0.26	< 0.25	< 0.23	< 0.25	< 0.26	< 0.24	< 0.23	< 0.26	< 0.24	< 0.24
di-n-butyl phthalate	700	< 0.2	< 0.19	< 0.22	< 0.21	< 0.19	< 0.21	< 0.22	< 0.21	< 0.2	< 0.22	< 0.21	< 0.2
di-n-octylphthalate	100	< 0.42	< 0.4	< 0.46	< 0.43	< 0.4	< 0.43	< 0.45	< 0.43	< 0.41	< 0.45	< 0.43	< 0.42
Hexachlorobutadiene	1	< 0.39	< 0.37	< 0.43	< 0.41	< 0.37	< 0.41	< 0.42	< 0.4	< 0.38	< 0.42	< 0.4	< 0.4
Hexachlorocyclopentadiene	40	< 0.71	< 0.67	< 0.78	< 0.74	< 0.67	< 0.74	< 0.76	< 0.73	< 0.69	< 0.76	< 0.73	< 0.71
Hexachloroethane	7	< 0.28	< 0.26	< 0.31	< 0.29	< 0.26	< 0.29	< 0.3	< 0.29	< 0.27	< 0.3	< 0.29	< 0.28
Isophrone	40	< 0.26	< 0.25	< 0.29	< 0.27	< 0.25	< 0.27	< 0.28	< 0.27	< 0.26	< 0.28	< 0.27	< 0.26
Nitrobenzene	6	< 0.27	< 0.25	< 0.29	< 0.28	< 0.25	< 0.28	< 0.29	< 0.28	< 0.26	< 0.29	< 0.28	< 0.27
N-Nitroso-di-n-Propylamine	10	< 0.46	< 0.44	< 0.51	< 0.48	< 0.44	< 0.48	< 0.5	< 0.48	< 0.45	< 0.5	< 0.48	< 0.47
N-Nitrosodiphenylamine	10	< 0.23	< 0.22	< 0.25	< 0.24	< 0.22	< 0.24	< 0.24	< 0.23	< 0.22	< 0.24	< 0.23	< 0.23
Phenol	2000	< 0.61	< 0.58	< 0.67	< 0.63	< 0.58	< 0.63	< 0.66	< 0.63	< 0.59	< 0.66	< 0.63	< 0.61
Total TIC, Semi-Volatile	NS	0	0	0	0	0	0	0	0	5.4 J	18 J	0	0

Table 8. Summary of Ground Water Analytical Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location ID		**DUP**	**DUP**	**DUP**	**DUP**	**OB-01**	**OB-02**	**OB-03**	**OB-04**	**OB-05**	**OB-06**	**OB-07**	**OB-10**
Sample ID	**GWQS[1]**	**DUP(063009)**	**DUP(070709)**	**DUP(071009)**	**DUP(071609)**	**OB-1(070209)**	**OB-2(063009)**	**OB-3(063009)**	**OB-4(070109)**	**OB-5(070109)**	**OB-6(070209)**	**OB-7(070109)**	**OB-10(070109)**
Sample Date		**6/30/2009**	**7/7/2009**	**7/10/2009**	**7/16/2009**	**7/2/2009**	**6/30/2009**	**6/30/2009**	**7/1/2009**	**7/1/2009**	**7/2/2009**	**7/1/2009**	**7/1/2009**
Validation Status		**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**
SVOC BY SIM													
Acenaphthene	400	< 0.017	< 0.016	< 0.019	< 0.032	< 0.016	< 0.017	< 0.018	< 0.017	< 0.016	< 0.018	< 0.017	< 0.017
Acenaphthylene	NS	< 0.0076	< 0.007	< 0.0081	< 0.043	< 0.007	< 0.0076	< 0.0078	< 0.0076	< 0.0072	< 0.008	< 0.0076	< 0.0074
Anthracene	2000	< 0.023	< 0.021	< 0.024	< 0.028	< 0.021	< 0.023	< 0.023	< 0.023	< 0.022	< 0.024	< 0.023	< 0.022
Benzo(a)anthracene	0.1 [0.2]	< 0.037	< 0.034	< 0.039	< 0.026	< 0.034	< 0.037	< 0.037	< 0.037	< 0.035	< 0.038	< 0.037	< 0.036
Benzo(a)pyrene	0.1 [0.2]	< 0.039	< 0.036	< 0.041	< 0.034	< 0.036	< 0.039	< 0.039	< 0.039	< 0.037	< 0.04	< 0.039	< 0.038
Benzo(b)fluoranthene	0.2 [10]	< 0.018	< 0.017	< 0.02	< 0.039	< 0.017	< 0.018	< 0.019	< 0.018	< 0.018	< 0.019	< 0.018	< 0.018
Benzo(g,h,i)perylene	NS	< 0.013	< 0.012	< 0.014	< 0.032	< 0.012	< 0.013	< 0.013	< 0.013	< 0.012	< 0.013	< 0.013	< 0.012
Benzo(k)fluoranthene	0.5	< 0.02	< 0.019	< 0.022	< 0.031	< 0.019	< 0.02	< 0.021	< 0.02	< 0.019	< 0.021	< 0.02	< 0.02
Chrysene	5	< 0.019	< 0.018	< 0.02	< 0.024	< 0.018	< 0.019	< 0.02	< 0.019	< 0.018	< 0.02	< 0.019	< 0.019
Dibenzo(a,h)anthracene	0.3 [0.5]	< 0.022	< 0.02	< 0.023	< 0.025	< 0.02	< 0.022	< 0.022	< 0.022	< 0.021	< 0.023	< 0.022	< 0.021
Fluoranthene	300	< 0.01	< 0.0096	< 0.011	< 0.027	< 0.0096	< 0.01	< 0.011	< 0.01	< 0.0099	< 0.011	< 0.01	< 0.01
Fluorene	300	< 0.021	< 0.02	< 0.023	< 0.03	< 0.02	< 0.021	< 0.022	< 0.021	< 0.02	< 0.022	< 0.021	< 0.021
Hexachlorobenzene	0.02 [10]	< 0.011	< 0.0099	< 0.012	< 0.011	< 0.0099	< 0.011	< 0.011	< 0.011	< 0.01	< 0.011	< 0.011	< 0.011
Indeno(1,2,3-cd)pyrene	0.2 [10]	< 0.016	< 0.014	< 0.017	< 0.032	< 0.014	< 0.016	< 0.016	< 0.016	< 0.015	< 0.016	< 0.016	< 0.015
Naphthalene	300	< 0.015	< 0.014	< 0.016	< 0.02	< 0.014	< 0.015	< 0.015	< 0.015	< 0.014	< 0.016	< 0.015	< 0.015
Pentachlorophenol	0.3 [1]	< 0.24	< 0.22	< 0.26	< 0.25	< 0.22	< 0.24	< 0.25	< 0.24	< 0.23	< 0.25	< 0.24	< 0.24
Phenanthrene	NS	< 0.018	< 0.017	< 0.02	< 0.04	< 0.017	< 0.018	< 0.019	< 0.018	< 0.018	< 0.019	< 0.018	< 0.018
Pyrene	200	< 0.013	< 0.012	< 0.014	< 0.024	< 0.012	< 0.013	< 0.013	< 0.013	< 0.012	< 0.014	< 0.013	< 0.013
PCBs													
PCB 1016	0.5	< 0.21	< 0.19	< 0.21	< 0.24	< 0.19	< 0.21	< 0.21	< 0.2	< 0.19	< 0.21	< 0.19	< 0.19
PCB 1221	0.5	< 0.34	< 0.31	< 0.34	< 0.38	< 0.31	< 0.35	< 0.34	< 0.32	< 0.31	< 0.34	< 0.31	< 0.31
PCB 1232	0.5	< 0.23	< 0.21	< 0.23	< 0.26	< 0.21	< 0.23	< 0.23	< 0.21	< 0.21	< 0.23	< 0.21	< 0.21
PCB 1242	0.5	< 0.099	< 0.089	< 0.099	< 0.11	< 0.089	< 0.1	< 0.099	< 0.093	< 0.091	< 0.099	< 0.089	< 0.089
PCB 1248	0.5	< 0.28	< 0.25	< 0.28	< 0.32	< 0.25	< 0.29	< 0.28	< 0.26	< 0.26	< 0.28	< 0.25	< 0.25
PCB 1254	0.5	< 0.12	< 0.11	< 0.12	< 0.14	< 0.11	< 0.13	< 0.12	< 0.12	< 0.11	< 0.12	< 0.11	< 0.11
PCB 1260	0.5	< 0.16	< 0.14	< 0.16	< 0.18	< 0.14	< 0.16	< 0.16	< 0.15	< 0.15	< 0.16	< 0.14	< 0.14
Total PCBs	0.5	0	0	0	0	0	0	0	0	0	0	0	0
Metals - Total													
Aluminum	200	< 26	**1240**	**1110**	94.6 B	**776**	< 26	< 26	104 B	< 26	< 26	< 26	< 26
Antimony	6	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Arsenic	3 [8]	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4
Barium	2000	3.7 B	9.1 B	42.3 B	7.4 B	5.3 B	5.4 B	2.5 B	32.7 B	19.5 B	15.8 B	15.7 B	26 B
Beryllium	1	0.6 B	< 0.4	< 0.4	< 0.4	< 0.4	0.6 B	0.5 B	0.4 B	0.6 B	< 0.4	0.8 B	0.4 B
Cadmium	4	< 0.4	1.3 B	1.2 B	< 0.4	0.6 B	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
Calcium	NS	7240	8440	53800	49500	4600 B	11900	14100	29500	69800	24500	69700	14900
Chromium	70	1.1 B	1.6 B	3.9 B	1.2 B	3.1 B	1.1 B	1.6 B	3.7 B	8.4 B	3.2 B	2.9 B	2.9 B
Cobalt	NS	< 0.4	0.5 B	< 0.4	0.4 B	< 0.4	< 0.4	< 0.4	4.6 B	2.1 B	6.6 B	2.4 B	1 B
Copper	1,300	4.3 B	14.5	4.7 B	< 1.6	< 1.6	1.9 B	< 1.6	2.7 B	4.8 B	1.7 B	2.5 B	1.9 B
Iron	300	79.6 B	**1790**	**3810**	**1240**	123	28.3 B	**1390**	**7480**	**16900**	**5150**	**3480**	**4160**
Lead	5	< 1.7	< 1.7	< 1.7	**6.4**	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
Magnesium	NS	2640 B	4050 B	20300	9650	1600 B	4170 B	3850 B	8000	32300	5780	28000	3010 B
Manganese	50	2.6 B	**84.2**	**239**	**188**	3 B	1.9 B	35.2	**440**	**776**	**2540**	**2180**	**2570**
Mercury	2	< 0.049	< 0.049	< 0.049	0.086 B	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049
Nickel	100	0.6 B	2.3 B	4.3 B	0.8 B	1.4 B	< 0.6	< 0.6	5.6 B	7.8 B	4.8 B	4.9 B	5.1 B
Potassium	NS	761 B	1210 B	2920 B	2930 B	345 B	1580 B	978 B	1690 B	2920 B	1930 B	2880 B	1120 B
Selenium	40	< 3.7	< 3.7	< 3.7	< 3.7	4.6 B	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7
Silver	40	< 1	< 1	1 B	1 B	< 1	< 1	< 1	< 1	< 1	< 1	1.7 B	1.1 B
Sodium	50,000	2720 B	3180 B	**134000**	3010 B	1670 B	3320 B	3490 B	39800	18000	31000	10500	4430 B
Thallium	2 [10]	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Vanadium	NS	< 0.9	2 B	9.9 B	0.9 B	< 0.9	< 0.9	< 0.9	< 0.9	1.6 B	< 0.9	< 0.9	< 0.9
Zinc	2000	4.5 B	10 B	918	1180	< 2.9	< 2.9	< 2.9	40.1	7 B	< 2.9	3.5 B	5.3 B

Table 8. Summary of Ground Water Analytical Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location ID		**DUP**	**DUP**	**DUP**	**DUP**	**OB-01**	**OB-02**	**OB-03**	**OB-04**	**OB-05**	**OB-06**	**OB-07**	**OB-10**
Sample ID	**GWQS[1]**	**DUP(063009)**	**DUP(070709)**	**DUP(071009)**	**DUP(071609)**	**OB-1(070209)**	**OB-2(063009)**	**OB-3(063009)**	**OB-4(070109)**	**OB-5(070109)**	**OB-6(070209)**	**OB-7(070109)**	**OB-10(070109)**
Sample Date		**6/30/2009**	**7/7/2009**	**7/10/2009**	**7/16/2009**	**7/2/2009**	**6/30/2009**	**6/30/2009**	**7/1/2009**	**7/1/2009**	**7/2/2009**	**7/1/2009**	**7/1/2009**
Validation Status		**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**
Metals - Dissolved													
Aluminum	200	< 26	< 26	142 B	< 26	33.3 B	< 26	< 26	< 26	< 26	< 26	< 26	< 26
Antimony	6	< 4	< 4	< 4	< 4	4 B	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Arsenic	3 [8]	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4
Barium	2000	3.8 B	2.7 B	41.8 B	6.5 B	5 B	5.2 B	2.6 B	27.8 B	11.7 B	14.8 B	14.1 B	24.5 B
Beryllium	1	0.6 B	< 0.4	< 0.4	< 0.4	0.5 B	0.6 B	0.5 B	< 0.4	0.6 B	< 0.4	0.8 B	0.4 B
Cadmium	4	< 0.4	1.2 B	0.7 B	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
Calcium	NS	7200	9090	55000	44600	4560 B	11500	13800	28700	68400	24400	70300	15000
Chromium	70	< 0.9	< 0.9	< 0.9	10	7.1 B	1.6 B	1.8 B	1.9 B	2.9 B	1.6 B	1.6 B	6.3 B
Cobalt	NS	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	0.9 B	1.3 B	5.7 B	2.2 B	1 B
Copper	1,300	3.2 B	< 1.6	2.5 B	< 1.6	< 1.6	2 B	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	1.6 B
Iron	300	< 12	< 42	232	232	40 B	14.4 B	290	**467**	**524**	**2280**	**373**	**774**
Lead	5	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
Magnesium	NS	2610 B	4060 B	19800	9040	1530 B	3980 B	3710 B	7750	31800	5800	28300	3030 B
Manganese	50	1.3 B	2.4 B	**217**	**117**	4 B	0.8 B	32.9	**419**	**740**	**2520**	**2180**	**2540**
Mercury	2	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049
Nickel	100	< 0.6	< 0.6	1.4 B	8.4 B	7.8 B	< 0.6	< 0.6	5.4 B	3.4 B	7.3 B	4 B	6 B
Potassium	NS	777 B	878 B	2740 B	3000 B	459 B	1570 B	965 B	1590 B	2900 B	1940 B	2880 B	1130 B
Selenium	40	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7
Silver	40	< 1	< 1	< 1	1 B	< 1	< 1	1 B	< 1	< 1	< 1	1.8 B	1.1 B
Sodium	50,000	2780 B	3410 B	**138000**	2910 B	1850 B	3300 B	3530 B	39300	17900	31300	10600	4500 B
Thallium	2 [10]	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Vanadium	NS	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9
Zinc	2000	5.6 B	9.8 B	878	958	9.6 B	3.2 B	3.3 B	13.2 B	3.7 B	11.2 B	2.9 B	6.6 B
Other													
Alkalinity, total (as CaCO3)	NS	23300	38400	90300	175000	10500	36700	48900	74600	287000	97900	312000	60000
Chloride	250000	< 2000	< 2000	**278000**	2300	< 2000	< 2000	2300	72000	58800	41800	8800	3900
Sulfate	250000	15800	11500	24200	< 10000	< 10000	18400	15300	24600	11500	< 10000	< 10000	< 10000

Footnotes on page 33.

Table 8. Summary of Ground Water Analytical Results, F

Location ID	GWQS[1]	OB-12	OB-13	OB-14A	OB-14B	OB-15B	OB-16	OB-17	OB-18	OB-19	OB-20A	OB-20B
Sample ID		OB-12(063009)	OB-13(070109)	OB-14A(070609)	OB-14B(070609)	OB-15B(070609)	OB-16(070809)	OB-17(070809)	OB-18(070809)	OB-19(070709)	OB-20A(070909)	OB-20B(070909)
Sample Date		6/30/2009	7/1/2009	7/6/2009	7/6/2009	7/6/2009	7/8/2009	7/8/2009	7/8/2009	7/7/2009	7/9/2009	7/9/2009
Validation Status		Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending
VOC												
1,1,1-Trichloroethane	30	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
1,1,2,2-Tetrachloroethane	1	< 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-Trichloroethane	3	< 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	50	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	1	< 0.29	1	< 0.29	< 0.29
1,1-Dichloroethene	1	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
1,2,4-Trichlorobenzene	9	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56
1,2-Dibromo-3-Chloropropane (DBCP)	0.02 [1]	< 1.1*	< 1.1*	< 1.1*	< 1.1*	< 1.1*	< 1.1*	< 1.1*	< 1.1*	< 1.1*	< 1.1*	< 1.1*
1,2-Dibromoethane	0.03 [0.5]	< 0.39*	< 0.39*	< 0.39*	< 0.39*	< 0.39*	< 0.39*	< 0.39*	< 0.39*	< 0.39*	< 0.39*	< 0.39*
1,2-Dichlorobenzene	600	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
1,2-Dichloroethane	2	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
1,2-Dichloropropane	1	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27
1,3-Dichlorobenzene	600	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
1,4-Dichlorobenzene	75	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
2-Butanone (MEK)	300	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6
2-Hexanone	NS	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
4-methyl-2-pentanone (MIBK)	NS	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86
Acetone	6000	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9
Benzene	1	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	**1.2**	< 0.23	0.83 J
Bromodichloromethane	1	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Bromoform	4	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Bromomethane	10	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Carbon disulfide	700	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74
Carbon tetrachloride	1	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
Chlorobenzene	50	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39
Chloroethane	NS	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	6.2	< 0.37	1.6
Chloroform	70	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Chloromethane	NS	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29
cis-1,2-Dichloroethene	70	< 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	NS	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Cyclohexane	NS	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9
Dibromochloromethane	1	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Dichlorodifluoromethane	1,000	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92
Ethylbenzene	700	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	0.38 J	< 0.27	< 0.27
Freon 113	NS	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
Isopropylbenzene	700	< 0.57	< 0.57	< 0.57	< 0.57	< 0.57	< 0.57	< 0.57	< 0.57	< 0.57	< 0.57	< 0.57
Methyl acetate	7000	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Methyl tert butyl ether	70	< 0.23	< 0.23	< 0.23	0.42 J	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Methylcyclohexane	NS	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
Methylene chloride	3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
o-Xylene	NS	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	0.84 J	< 0.25	< 0.25
Styrene	100	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58
Tetrachloroethene	1	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27
Toluene	1000	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Trans-1,2-dichloroethene	100	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
trans-1,3-Dichloropropene	NS	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Trichloroethene	1	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Trichlorofluoromethane	2000	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54
Vinyl Chloride	1	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
Xylene, -m,p	NS	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	0.68 J	< 0.25	< 0.25
Xylenes	1,000	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	1.5	< 0.25	< 0.25
Total TIC, Volatile	NS	0	0	0	0	0	0	0	0	0	0	0

Table 8. Summary of Ground Water Analytical Results, F

Location ID	GWQS[1]	OB-12	OB-13	OB-14A	OB-14B	OB-15B	OB-16	OB-17	OB-18	OB-19	OB-20A	OB-20B
Sample ID		OB-12(063009)	OB-13(070109)	OB-14A(070609)	OB-14B(070609)	OB-15B(070609)	OB-16(070809)	OB-17(070809)	OB-18(070809)	OB-19(070709)	OB-20A(070909)	OB-20B(070909)
Sample Date		6/30/2009	7/1/2009	7/6/2009	7/6/2009	7/6/2009	7/8/2009	7/8/2009	7/8/2009	7/7/2009	7/9/2009	7/9/2009
Validation Status		Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending
SVOC												
1,1'-Biphenyl	400	< 0.45	< 0.45	< 0.44	< 0.42	< 0.47	< 0.46	< 0.42	< 0.47	< 0.42	< 0.42	< 0.42
2,4,5-Trichlorophenol	700	< 1.4	< 1.4	< 1.4	< 1.3	< 1.5	< 1.5	< 1.3	< 1.5	< 1.3	< 1.3	< 1.3
2,4,6-Trichlorophenol	20	< 1.3	< 1.3	< 1.3	< 1.2	< 1.4	< 1.3	< 1.2	< 1.4	< 1.2	< 1.2	< 1.2
2,4-Dichlorophenol	20	< 1.3	< 1.3	< 1.3	< 1.2	< 1.4	< 1.3	< 1.2	< 1.4	< 1.2	< 1.2	< 1.2
2,4-Dimethylphenol	100	< 1.8	< 1.8	< 1.7	< 1.7	< 1.8	< 1.8	< 1.7	< 1.9	< 1.7	< 1.7	< 1.7
2,4-Dinitrophenol	40	< 0.78	< 0.78	< 0.77	< 0.74	< 0.82	< 0.81	< 0.74	< 0.83	< 0.74	< 0.74	< 0.74
2,4-Dinitrotoluene	NS	< 0.23	< 0.23	< 0.23	< 0.22	< 0.24	< 0.24	< 0.22	< 0.25	< 0.22	< 0.22	< 0.22
2,6-Dinitrotoluene	NS	< 0.35	< 0.35	< 0.34	< 0.33	< 0.36	< 0.36	< 0.33	< 0.37	< 0.33	< 0.33	< 0.33
2-Chloronaphthalene	600	< 0.44	< 0.44	< 0.43	< 0.42	< 0.46	< 0.46	< 0.42	< 0.47	< 0.42	< 0.42	< 0.42
2-Chlorophenol	40	< 1.1	< 1.1	< 1.1	< 1.1	< 1.2	< 1.2	< 1.1	< 1.2	< 1.1	< 1.1	< 1.1
2-Methylnaphthalene	NS	< 0.7	< 0.7	< 0.69	< 0.66	< 0.73	< 0.72	< 0.66	< 0.74	< 0.66	< 0.66	< 0.66
2-Methylphenol	NS	< 1.2	< 1.2	< 1.2	< 1.1	< 1.2	< 1.2	< 1.1	< 1.3	< 1.1	< 1.1	< 1.1
2-Nitroaniline	NS	< 0.25	< 0.25	< 0.24	< 0.24	< 0.26	< 0.26	< 0.24	< 0.26	< 0.24	< 0.24	< 0.24
2-Nitrophenol	NS	< 1.3	< 1.3	< 1.3	< 1.2	< 1.4	< 1.4	< 1.2	< 1.4	< 1.2	< 1.2	< 1.2
3&4-Methylphenol	NS	< 1.1	< 1.1	< 1.1	< 1	< 1.2	< 1.1	< 1	< 1.2	< 1	< 1	< 1
3,3'-Dichlorobenzidine	30	< 0.31	< 0.31	< 0.31	< 0.3	< 0.33	< 0.32	< 0.3	< 0.33	< 0.3	< 0.3	< 0.3
3-Nitroaniline	NS	< 0.31	< 0.31	< 0.3	< 0.29	< 0.32	< 0.32	< 0.29	< 0.32	< 0.29	< 0.29	< 0.29
4,6-Dinitro-2-methylphenol	NS	< 0.55	< 0.55	< 0.53	< 0.51	< 0.57	< 0.56	< 0.51	< 0.58	< 0.51	< 0.51	< 0.51
4-Bromophenyl phenyl ether	NS	< 0.37	< 0.37	< 0.36	< 0.35	< 0.39	< 0.38	< 0.35	< 0.39	< 0.35	< 0.35	< 0.35
4-Chloro-3-Methylphenol	NS	< 1.1	< 1.1	< 1.1	< 1.1	< 1.2	< 1.2	< 1.1	< 1.2	< 1.1	< 1.1	< 1.1
4-Chloroaniline	30	< 0.27	< 0.27	< 0.26	< 0.25	< 0.28	< 0.28	< 0.25	< 0.28	< 0.25	< 0.25	< 0.25
4-Chlorophenyl phenyl ether	NS	< 0.38	< 0.38	< 0.37	< 0.35	< 0.39	< 0.39	< 0.35	< 0.4	< 0.35	< 0.35	< 0.35
4-Nitroaniline	NS	< 0.19	< 0.19	< 0.19	< 0.18	< 0.2	< 0.2	< 0.18	< 0.2	< 0.18	< 0.18	< 0.18
4-Nitrophenol	NS	< 0.88	< 0.88	< 0.86	< 0.83	< 0.92	< 0.91	< 0.83	< 0.93	< 0.83	< 0.83	< 0.83
Acetophenone	700	< 0.42	< 0.42	< 0.42	< 0.4	< 0.44	< 0.44	< 0.4	< 0.45	< 0.4	< 0.4	< 0.4
Atrazine	3	< 0.42	< 0.42	< 0.41	< 0.39	< 0.43	< 0.43	< 0.39	< 0.44	< 0.39	< 0.39	< 0.39
Benzaldehyde	NS	< 0.43	< 0.43	< 0.42	< 0.4	< 0.45	< 0.44	< 0.4	< 0.45	< 0.4	< 0.4	< 0.4
Benzyl butyl phthalate	100	< 0.27	< 0.27	< 0.26	< 0.25	< 0.28	< 0.28	< 0.25	< 0.28	< 0.25	< 0.25	< 0.25
bis(2-Chloroethoxy)methane	NS	< 0.26	< 0.26	< 0.26	< 0.25	< 0.28	< 0.27	< 0.25	< 0.28	< 0.25	< 0.25	< 0.25
bis(2-Chloroethyl)ether	7	< 0.33	< 0.33	< 0.32	< 0.31	< 0.34	< 0.34	< 0.31	< 0.35	< 0.31	< 0.31	< 0.31
bis(2-Chloroisopropyl)ether	300	< 0.41	< 0.41	< 0.41	< 0.39	< 0.43	< 0.43	< 0.39	< 0.44	< 0.39	< 0.39	< 0.39
bis(2-Ethylhexyl)phthalate	3	< 0.35	< 0.35	< 0.34	< 0.33	< 0.36	< 0.36	< 0.33	< 0.37	< 0.33	**3.2 B**	< 0.33
Caprolactam	NS	< 0.21	< 0.21	< 0.2	< 0.2	< 0.22	< 0.21	< 0.2	< 0.22	< 0.2	< 0.2	< 0.2
Carbazole	NS	< 0.18	< 0.18	< 0.17	< 0.17	< 0.18	< 0.18	< 0.17	< 0.19	< 0.17	< 0.17	< 0.17
Dibenzofuran	NS	< 0.32	< 0.32	< 0.32	< 0.3	< 0.34	< 0.33	< 0.3	< 0.34	< 0.3	< 0.3	< 0.3
Diethyl phthalate	6000	< 0.18	< 0.18	< 0.17	< 0.17	< 0.18	< 0.18	< 0.17	< 0.19	< 0.17	< 0.17	< 0.17
Dimethyl phthalate	NS	< 0.24	< 0.24	< 0.23	< 0.23	< 0.25	< 0.25	< 0.23	< 0.25	< 0.23	< 0.23	< 0.23
di-n-butyl phthalate	700	< 0.2	< 0.2	< 0.2	< 0.19	< 0.21	< 0.21	< 0.19	< 0.21	< 0.19	< 0.19	< 0.19
di-n-octylphthalate	100	< 0.42	< 0.42	< 0.41	< 0.4	< 0.44	< 0.43	< 0.4	< 0.44	< 0.4	< 0.4	< 0.4
Hexachlorobutadiene	1	< 0.4	< 0.4	< 0.39	< 0.37	< 0.41	< 0.41	< 0.37	< 0.42	< 0.37	< 0.37	< 0.37
Hexachlorocyclopentadiene	40	< 0.71	< 0.71	< 0.7	< 0.67	< 0.75	< 0.74	< 0.67	< 0.76	< 0.67	< 0.67	< 0.67
Hexachloroethane	7	< 0.28	< 0.28	< 0.27	< 0.26	< 0.29	< 0.29	< 0.26	< 0.3	< 0.26	< 0.26	< 0.26
Isophrone	40	< 0.26	< 0.26	< 0.26	< 0.25	< 0.28	< 0.27	< 0.25	< 0.28	< 0.25	< 0.25	< 0.25
Nitrobenzene	6	< 0.27	< 0.27	< 0.26	< 0.25	< 0.28	< 0.28	< 0.25	< 0.28	< 0.25	< 0.25	< 0.25
N-Nitroso-di-n-Propylamine	10	< 0.47	< 0.47	< 0.46	< 0.44	< 0.49	< 0.48	< 0.44	< 0.49	< 0.44	< 0.44	< 0.44
N-Nitrosodiphenylamine	10	< 0.23	< 0.23	< 0.22	< 0.22	< 0.24	< 0.24	< 0.22	< 0.24	< 0.22	< 0.22	0.69 J
Phenol	2000	< 0.61	< 0.61	< 0.6	< 0.58	< 0.64	< 0.63	< 0.58	< 0.65	< 0.58	< 0.58	< 0.58
Total TIC, Semi-Volatile	NS	0	0	73.6 J	8.1 J	0	6.3 J	0	0	4.4 J	0	4.9 J

Table 8. Summary of Ground Water Analytical Results, F

Location ID	GWQS[1]	OB-12	OB-13	OB-14A	OB-14B	OB-15B	OB-16	OB-17	OB-18	OB-19	OB-20A	OB-20B
Sample ID		OB-12(063009)	OB-13(070109)	OB-14A(070609)	OB-14B(070609)	OB-15B(070609)	OB-16(070809)	OB-17(070809)	OB-18(070809)	OB-19(070709)	OB-20A(070909)	OB-20B(070909)
Sample Date		6/30/2009	7/1/2009	7/6/2009	7/6/2009	7/6/2009	7/8/2009	7/8/2009	7/8/2009	7/7/2009	7/9/2009	7/9/2009
Validation Status		Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending
SVOC BY SIM												
Acenaphthene	400	< 0.017	< 0.017	< 0.017	< 0.016	< 0.018	< 0.018	< 0.016	< 0.018	< 0.016	< 0.016	< 0.016
Acenaphthylene	NS	< 0.0074	< 0.0074	< 0.0073	< 0.007	< 0.0078	< 0.0077	< 0.007	< 0.0079	< 0.007	< 0.007	< 0.007
Anthracene	2000	< 0.022	< 0.022	< 0.022	< 0.021	< 0.023	< 0.023	< 0.021	< 0.024	< 0.021	< 0.021	< 0.021
Benzo(a)anthracene	0.1 [0.2]	< 0.035	< 0.036	< 0.035	< 0.034	< 0.037	< 0.037	< 0.034	< 0.038	< 0.034	< 0.034	< 0.034
Benzo(a)pyrene	0.1 [0.2]	< 0.037	< 0.038	< 0.037	< 0.036	< 0.039	< 0.039	< 0.036	< 0.04	< 0.036	< 0.036	< 0.036
Benzo(b)fluoranthene	0.2 [10]	< 0.018	< 0.018	< 0.018	< 0.017	< 0.019	< 0.019	< 0.017	< 0.019	< 0.017	< 0.017	< 0.017
Benzo(g,h,i)perylene	NS	< 0.012	< 0.012	< 0.012	< 0.012	< 0.013	< 0.013	< 0.012	< 0.013	< 0.012	< 0.012	< 0.012
Benzo(k)fluoranthene	0.5	< 0.02	< 0.02	< 0.02	< 0.019	< 0.021	< 0.021	< 0.019	< 0.021	< 0.019	< 0.019	< 0.019
Chrysene	5	< 0.019	< 0.019	< 0.018	< 0.018	< 0.02	< 0.019	< 0.018	< 0.02	< 0.018	< 0.018	< 0.018
Dibenzo(a,h)anthracene	0.3 [0.5]	< 0.021	< 0.021	< 0.021	< 0.02	< 0.022	< 0.022	< 0.02	< 0.023	< 0.02	< 0.02	< 0.02
Fluoranthene	300	< 0.01	< 0.01	< 0.01	< 0.0096	< 0.011	< 0.011	< 0.0096	< 0.011	< 0.0096	< 0.0096	< 0.0096
Fluorene	300	< 0.021	< 0.021	< 0.02	< 0.02	< 0.022	< 0.022	< 0.02	< 0.022	< 0.02	< 0.02	< 0.02
Hexachlorobenzene	0.02 [10]	< 0.01	< 0.011	< 0.01	< 0.0099	< 0.011	< 0.011	< 0.0099	< 0.011	< 0.0099	< 0.0099	< 0.0099
Indeno(1,2,3-cd)pyrene	0.2 [10]	< 0.015	< 0.015	< 0.015	< 0.014	< 0.016	< 0.016	< 0.014	< 0.016	< 0.014	< 0.014	< 0.014
Naphthalene	300	< 0.015	< 0.015	< 0.014	< 0.014	< 0.015	< 0.015	< 0.014	< 0.016	0.693	< 0.014	0.663
Pentachlorophenol	0.3 [1]	< 0.23	< 0.24	< 0.23	< 0.22	< 0.25	< 0.25	< 0.22	< 0.25	< 0.22	< 0.22	< 0.22
Phenanthrene	NS	< 0.018	< 0.018	< 0.018	< 0.017	< 0.019	< 0.019	< 0.017	< 0.019	< 0.017	< 0.017	< 0.017
Pyrene	200	< 0.013	< 0.013	< 0.013	< 0.012	< 0.013	< 0.013	< 0.012	< 0.014	< 0.012	< 0.012	< 0.012
PCBs												
PCB 1016	0.5	< 0.2	< 0.19	< 0.2	< 0.19	< 0.2	< 0.21	< 0.2	< 0.19	< 0.21	< 0.19	< 0.19
PCB 1221	0.5	< 0.32	< 0.31	< 0.33	< 0.31	< 0.32	< 0.34	< 0.32	< 0.31	< 0.33	< 0.31	< 0.31
PCB 1232	0.5	< 0.21	< 0.21	< 0.22	< 0.21	< 0.21	< 0.23	< 0.22	< 0.21	< 0.22	< 0.21	< 0.21
PCB 1242	0.5	< 0.093	< 0.089	< 0.096	< 0.089	< 0.093	< 0.099	< 0.094	< 0.089	< 0.097	< 0.089	< 0.089
PCB 1248	0.5	< 0.26	< 0.25	< 0.27	< 0.25	< 0.26	< 0.28	< 0.27	< 0.25	< 0.28	< 0.25	< 0.25
PCB 1254	0.5	< 0.12	< 0.11	< 0.12	< 0.11	< 0.12	< 0.12	< 0.12	< 0.11	< 0.12	< 0.11	< 0.11
PCB 1260	0.5	< 0.15	< 0.14	< 0.15	< 0.14	< 0.15	< 0.16	< 0.15	< 0.14	< 0.16	< 0.14	< 0.14
Total PCBs	0.5	0	0	0	0	0	0	0	0	0	0	0
Metals - Total												
Aluminum	200	< 26	**247**	< 26	102 B	**700**	129 B	85.5 B	**420**	170 B	44.7 B	< 26
Antimony	6	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Arsenic	3 [8]	< 2.4	< 2.4	2.8 B	< 2.4	2.4 B	**5.1**	< 2.4	< 2.4	< 2.4	2.8 B	2.4 B
Barium	2000	3.7 B	4.7 B	439	48.6 B	17.4 B	88.1 B	11.3 B	9.4 B	116 B	121 B	58.7 B
Beryllium	1	0.6 B	0.6 B	1	**1.1**	0.8 B	< 0.4	< 0.4	< 0.4	< 0.4	0.4 B	0.9 B
Cadmium	4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	0.6 B	1 B	0.4 B	0.6 B	< 0.4	< 0.4
Calcium	NS	7400	7430	112000	107000	21800	149000	89000	48700	20400	27000	45200
Chromium	70	1 B	13.9	1.3 B	1.3 B	2.5 B	< 0.9	1.8 B	1.2 B	1.2 B	1.2 B	< 0.9
Cobalt	NS	< 0.4	< 0.4	1.4 B	0.7 B	0.6 B	1.5 B	< 0.4	< 0.4	0.4 B	2.4 B	21 B
Copper	1,300	4.2 B	< 1.6	1.7 B	< 1.6	11.4	< 2	< 2	< 2	3.6 B	1.7 B	2.9 B
Iron	300	72.9 B	63.1 B	**50500**	**1040**	**1070**	**12400**	**3130**	**490**	**37500**	**26800**	**32000**
Lead	5	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
Magnesium	NS	2700 B	3000 B	10800	30000	5570	20500	28700	10200	3280 B	3130 B	8920
Manganese	50	2.5 B	5.4 B	**1360**	**2100**	**1830**	**3030**	**496**	9.8 B	**447**	**685**	**7850**
Mercury	2	0.088 B	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049
Nickel	100	< 0.6	20.5	3 B	1.9 B	11.8	1.1 B	0.9 B	0.7 B	< 0.6	3.1 B	4.6 B
Potassium	NS	775 B	1230 B	5810 B	3180 B	837 B	9650 B	834 B	521 B	1160 B	2170 B	2520 B
Selenium	40	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	4.3 B	< 3.7	< 3.7
Silver	40	< 1	1 B	1.5 B	2.2 B	1.4 B	< 1	< 1	< 1	< 1	< 1	2.4 B
Sodium	50,000	2720 B	3120 B	15500	24300	3860 B	25700	15000	6210 B	2790 B	2920 B	4300 B
Thallium	2 [10]	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	1.7 B	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Vanadium	NS	< 0.9	< 0.9	3.4 B	< 0.9	2.4 B	< 0.9	< 0.9	< 0.9	2.3 B	1.4 B	< 0.9
Zinc	2000	4.7 B	21.9	5.8 B	< 2.9	8 B	< 2.9	< 2.9	< 2.9	20.2	9.3 B	5.1 B

Table 8. Summary of Ground Water Analytical Results, F

Location ID		**OB-12**	**OB-13**	**OB-14A**	**OB-14B**	**OB-15B**	**OB-16**	**OB-17**	**OB-18**	**OB-19**	**OB-20A**	**OB-20B**
Sample ID	**GWQS[1]**	**OB-12(063009)**	**OB-13(070109)**	**OB-14A(070609)**	**OB-14B(070609)**	**OB-15B(070609)**	**OB-16(070809)**	**OB-17(070809)**	**OB-18(070809)**	**OB-19(070709)**	**OB-20A(070909)**	**OB-20B(070909)**
Sample Date		**6/30/2009**	**7/1/2009**	**7/6/2009**	**7/6/2009**	**7/6/2009**	**7/8/2009**	**7/8/2009**	**7/8/2009**	**7/7/2009**	**7/9/2009**	**7/9/2009**
Validation Status		**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**
Metals - Dissolved												
Aluminum	200	< 26	< 26	< 26	< 26	< 26	134 B	80.3 B	45 B	< 26	44 B	< 26
Antimony	6	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Arsenic	3 [8]	< 2.4	< 2.4	2.5 B	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	2.8 B	< 2.4
Barium	2000	3.5 B	4.4 B	425	47.4 B	1.9 B	72.3 B	11 B	6.9 B	98.4 B	121 B	42.3 B
Beryllium	1	0.6 B	0.5 B	**1.1**	**1.1**	0.8 B	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	0.6 B
Cadmium	4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	0.4 B	1.3 B	0.5 B	0.6 B	< 0.4	< 0.4
Calcium	NS	7220	7400	117000	109000	23700	148000	91100	47100	19600	26600	44200
Chromium	70	1 B	1.6 B	1.2 B	< 0.9	1.1 B	1 B	< 0.9	2 B	< 0.9	1.5 B	< 0.9
Cobalt	NS	< 0.4	< 0.4	1.4 B	0.8 B	< 0.4	1.6 B	< 0.4	< 0.4	< 0.4	2.3 B	20.3 B
Copper	1,300	3.5 B	< 1.6	< 1.6	< 1.6	< 1.6	6.2 B	< 2	< 2	2.1 B	1.7 B	< 1.6
Iron	300	15.7 B	14 B	**47100**	70.5 B	24.8 B	**2610**	**1430**	26.5 B	**24000**	**30000**	**14700**
Lead	5	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
Magnesium	NS	2620 B	2980 B	11500	30400	5880	20900	28800	9650	3200 B	3040 B	8750
Manganese	50	1.4 B	2 B	**1400**	**2130**	**241**	**2990**	**493**	1.1 B	**433**	**679**	**7720**
Mercury	2	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049
Nickel	100	< 0.6	2.5 B	1.9 B	1.9 B	1.1 B	1.8 B	1 B	< 0.6	< 0.6	2.4 B	4.3 B
Potassium	NS	769 B	1230 B	6030 B	3200 B	928 B	9780 B	824 B	382 B	1120 B	2040 B	2440 B
Selenium	40	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7
Silver	40	< 1	1.1 B	1.3 B	2 B	1 B	< 1	< 1	< 1	< 1	1.2 B	2.3 B
Sodium	50,000	2720 B	3170 B	16400	24700	4450 B	26100	15200	6000 B	2700 B	2840 B	4270 B
Thallium	2 [10]	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Vanadium	NS	< 0.9	< 0.9	1.2 B	< 0.9	0.9 B	< 0.9	< 0.9	< 0.9	< 0.9	1.4 B	< 0.9
Zinc	2000	5.8 B	3.1 B	3.5 B	< 2.9	< 2.9	13.6 B	< 2.9	4.6 B	8.4 B	9.3 B	3.5 B
Other												
Alkalinity, total (as CaCO3)	NS	20400	20400	193000	414000	77500	443000	220000	159000	74600	85600	181000
Chloride	250000	< 2000	2600	22400	41500	< 2000	49800	7100	< 2000	< 2000	< 2000	< 2000
Sulfate	250000	14900	11200	< 10000	11900	15000	19800	46900	15200	< 10000	< 10000	< 10000

Footnotes on page 33.

Table 8. Summary of Ground Water Analytical Results, F

Location ID	GWQS[1]	OB-21	OB-22	OB-23	OB-24	OB-25	OB-26	PM AIR SHAFT	PM AIR SHAFT	RW-1	RW-1	RW-1
Sample ID		OB-21(070709)	OB-22(070809)	OB-23(070809)	OB-24(070809)	OB-25(070609)	OB-26(070209)	PM AIRSHAFT(180)	PM AIRSHAFT(230)	RW-1(10-30)	RW-1(58-78)	RW-1(97-117)
Sample Date		7/7/2009	7/8/2009	7/8/2009	7/8/2009	7/6/2009	7/2/2009	7/10/2009	7/10/2009	7/17/2009	7/17/2009	7/17/2009
Validation Status		Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending
VOC												
1,1,1-Trichloroethane	30	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
1,1,2,2-Tetrachloroethane	1	< 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-Trichloroethane	3	< 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	50	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	2.1	2.1	< 0.29	< 0.29	< 0.29
1,1-Dichloroethene	1	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
1,2,4-Trichlorobenzene	9	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56
1,2-Dibromo-3-Chloropropane (DBCP)	0.02 [1]	< 1.1*	< 1.1*	< 1.1*	< 1.1*	< 1.1*	< 1.1*	< 1.1*	< 1.1*	< 1.1*	< 1.1*	< 1.1*
1,2-Dibromoethane	0.03 [0.5]	< 0.39*	< 0.39*	< 0.39*	< 0.39*	< 0.39*	< 0.39*	< 0.39*	< 0.39*	< 0.39*	< 0.39*	< 0.39*
1,2-Dichlorobenzene	600	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
1,2-Dichloroethane	2	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
1,2-Dichloropropane	1	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27
1,3-Dichlorobenzene	600	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
1,4-Dichlorobenzene	75	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	0.46 J	0.45 J	< 0.28	< 0.28	< 0.28
2-Butanone (MEK)	300	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6
2-Hexanone	NS	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
4-methyl-2-pentanone (MIBK)	NS	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86
Acetone	6000	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9
Benzene	1	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	**7.4**	**7.6**	< 0.23	< 0.23	< 0.23
Bromodichloromethane	1	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Bromoform	4	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Bromomethane	10	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Carbon disulfide	700	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74
Carbon tetrachloride	1	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
Chlorobenzene	50	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	0.58 J	0.61 J	< 0.39	< 0.39	< 0.39
Chloroethane	NS	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	34.9	34.9	< 0.37	< 0.37	< 0.37
Chloroform	70	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Chloromethane	NS	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29
cis-1,2-Dichloroethene	70	< 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	NS	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Cyclohexane	NS	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	2.7 J	2.9 J	< 1.9	< 1.9	< 1.9
Dibromochloromethane	1	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Dichlorodifluoromethane	1,000	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92
Ethylbenzene	700	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	1.2	1.3	< 0.27	< 0.27	< 0.27
Freon 113	NS	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
Isopropylbenzene	700	< 0.57	< 0.57	< 0.57	< 0.57	< 0.57	< 0.57	3.7	4	< 0.57	< 0.57	< 0.57
Methyl acetate	7000	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Methyl tert butyl ether	70	< 0.23	< 0.23	0.65 J	< 0.23	**171**	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Methylcyclohexane	NS	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	0.89 J	1 J	< 0.35	< 0.35	< 0.35
Methylene chloride	3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
o-Xylene	NS	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	2.2	2.4	< 0.25	< 0.25	< 0.25
Styrene	100	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58
Tetrachloroethene	1	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27
Toluene	1000	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Trans-1,2-dichloroethene	100	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
trans-1,3-Dichloropropene	NS	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Trichloroethene	1	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Trichlorofluoromethane	2000	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54
Vinyl Chloride	1	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
Xylene, -m,p	NS	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	22.6	25.1	< 0.25	< 0.25	< 0.25
Xylenes	1,000	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	24.8	27.5	< 0.25	< 0.25	< 0.25
Total TIC, Volatile	NS	0	0	5.3 J	0	0	0	22.8 J	30.8 J	0	0	0

Table 8. Summary of Ground Water Analytical Results, F

Location ID	GWQS[1]	OB-21	OB-22	OB-23	OB-24	OB-25	OB-26	PM AIR SHAFT	PM AIR SHAFT	RW-1	RW-1	RW-1
Sample ID		OB-21(070709)	OB-22(070809)	OB-23(070809)	OB-24(070809)	OB-25(070609)	OB-26(070209)	PM AIRSHAFT(180)	PM AIRSHAFT(230)	RW-1(10-30)	RW-1(58-78)	RW-1(97-117)
Sample Date		7/7/2009	7/8/2009	7/8/2009	7/8/2009	7/6/2009	7/2/2009	7/10/2009	7/10/2009	7/17/2009	7/17/2009	7/17/2009
Validation Status		Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending
SVOC												
1,1'-Biphenyl	400	< 0.42	< 0.47	< 0.42	< 0.47	< 0.47	< 0.42	< 0.42	< 0.48	< 0.48	< 0.47	< 0.46
2,4,5-Trichlorophenol	700	< 1.3	< 1.5	< 1.3	< 1.5	< 1.5	< 1.3	< 1.3	< 1.5	< 1.5	< 1.5	< 1.5
2,4,6-Trichlorophenol	20	< 1.2	< 1.4	< 1.2	< 1.4	< 1.4	< 1.2	< 1.2	< 1.4	< 1.4	< 1.4	< 1.3
2,4-Dichlorophenol	20	< 1.2	< 1.4	< 1.2	< 1.4	< 1.4	< 1.2	< 1.2	< 1.4	< 1.4	< 1.4	< 1.3
2,4-Dimethylphenol	100	< 1.7	< 1.9	< 1.7	< 1.8	< 1.8	< 1.7	< 1.7	< 1.9	< 1.9	< 1.9	< 1.8
2,4-Dinitrophenol	40	< 0.74	< 0.83	< 0.74	< 0.82	< 0.82	< 0.74	< 0.74	< 0.85	< 0.84	< 0.83	< 0.81
2,4-Dinitrotoluene	NS	< 0.22	< 0.25	< 0.22	< 0.24	< 0.24	< 0.22	< 0.22	< 0.25	< 0.25	< 0.25	< 0.24
2,6-Dinitrotoluene	NS	< 0.33	< 0.37	< 0.33	< 0.36	< 0.36	< 0.33	< 0.33	< 0.37	< 0.37	< 0.37	< 0.36
2-Chloronaphthalene	600	< 0.42	< 0.47	< 0.42	< 0.46	< 0.46	< 0.42	< 0.42	< 0.48	< 0.47	< 0.47	< 0.46
2-Chlorophenol	40	< 1.1	< 1.2	< 1.1	< 1.2	< 1.2	< 1.1	< 1.1	< 1.2	< 1.2	< 1.2	< 1.2
2-Methylnaphthalene	NS	< 0.66	< 0.74	< 0.66	< 0.73	< 0.73	< 0.66	< 0.66	< 0.76	< 0.75	< 0.74	< 0.72
2-Methylphenol	NS	< 1.1	< 1.3	< 1.1	< 1.2	< 1.2	< 1.1	< 1.1	< 1.3	< 1.3	< 1.3	< 1.2
2-Nitroaniline	NS	< 0.24	< 0.26	< 0.24	< 0.26	< 0.26	< 0.24	< 0.24	< 0.27	< 0.27	< 0.26	< 0.26
2-Nitrophenol	NS	< 1.2	< 1.4	< 1.2	< 1.4	< 1.4	< 1.2	< 1.2	< 1.4	< 1.4	< 1.4	< 1.4
3&4-Methylphenol	NS	< 1	< 1.2	< 1	< 1.2	< 1.2	< 1	< 1	< 1.2	< 1.2	< 1.2	< 1.1
3,3'-Dichlorobenzidine	30	< 0.3	< 0.33	< 0.3	< 0.33	< 0.33	< 0.3	< 0.3	< 0.34	< 0.34	< 0.33	< 0.32
3-Nitroaniline	NS	< 0.29	< 0.32	< 0.29	< 0.32	< 0.32	< 0.29	< 0.29	< 0.33	< 0.33	< 0.32	< 0.32
4,6-Dinitro-2-methylphenol	NS	< 0.51	< 0.58	< 0.51	< 0.57	< 0.57	< 0.51	< 0.51	< 0.59	< 0.58	< 0.58	< 0.56
4-Bromophenyl phenyl ether	NS	< 0.35	< 0.39	< 0.35	< 0.39	< 0.39	< 0.35	< 0.35	< 0.4	< 0.4	< 0.39	< 0.38
4-Chloro-3-Methylphenol	NS	< 1.1	< 1.2	< 1.1	< 1.2	< 1.2	< 1.1	< 1.1	< 1.2	< 1.2	< 1.2	< 1.2
4-Chloroaniline	30	< 0.25	< 0.28	< 0.25	< 0.28	< 0.28	< 0.25	< 0.25	< 0.29	< 0.29	< 0.28	< 0.28
4-Chlorophenyl phenyl ether	NS	< 0.35	< 0.4	< 0.35	< 0.39	< 0.39	< 0.35	< 0.35	< 0.41	< 0.4	< 0.4	< 0.39
4-Nitroaniline	NS	< 0.18	< 0.2	< 0.18	< 0.2	< 0.2	< 0.18	< 0.18	< 0.2	< 0.2	< 0.2	< 0.2
4-Nitrophenol	NS	< 0.83	< 0.93	< 0.83	< 0.92	< 0.92	< 0.83	< 0.83	< 0.95	< 0.94	< 0.93	< 0.91
Acetophenone	700	< 0.4	< 0.45	< 0.4	< 0.44	< 0.44	< 0.4	< 0.4	< 0.46	< 0.45	< 0.45	< 0.44
Atrazine	3	< 0.39	< 0.44	< 0.39	< 0.43	< 0.43	< 0.39	< 0.39	< 0.45	< 0.44	< 0.44	< 0.43
Benzaldehyde	NS	< 0.4	< 0.45	< 0.4	< 0.45	< 0.45	< 0.4	< 0.4	< 0.46	< 0.46	< 0.45	< 0.44
Benzyl butyl phthalate	100	< 0.25	< 0.28	< 0.25	< 0.28	< 0.28	< 0.25	< 0.25	< 0.29	< 0.29	< 0.28	< 0.28
bis(2-Chloroethoxy)methane	NS	< 0.25	< 0.28	< 0.25	< 0.28	< 0.28	< 0.25	< 0.25	< 0.29	< 0.28	< 0.28	< 0.27
bis(2-Chloroethyl)ether	7	< 0.31	< 0.35	< 0.31	< 0.34	< 0.34	< 0.31	< 0.31	< 0.36	< 0.35	< 0.35	< 0.34
bis(2-Chloroisopropyl)ether	300	< 0.39	< 0.44	< 0.39	< 0.43	< 0.43	< 0.39	< 0.39	< 0.45	< 0.44	< 0.44	< 0.43
bis(2-Ethylhexyl)phthalate	3	< 0.33	< 0.37	1.1 J	< 0.36	< 0.36	< 0.33	< 0.33	1.6 JB	< 0.37	< 0.37	< 0.36
Caprolactam	NS	< 0.2	< 0.22	< 0.2	< 0.22	< 0.22	< 0.2	< 0.2	< 0.22	< 0.22	< 0.22	< 0.21
Carbazole	NS	< 0.17	< 0.19	< 0.17	< 0.18	< 0.18	< 0.17	< 0.17	< 0.19	< 0.19	< 0.19	< 0.18
Dibenzofuran	NS	< 0.3	< 0.34	0.69 J	< 0.34	< 0.34	< 0.3	< 0.3	< 0.35	< 0.35	< 0.34	< 0.33
Diethyl phthalate	6000	< 0.17	< 0.19	< 0.17	< 0.18	< 0.18	< 0.17	< 0.17	< 0.19	< 0.19	< 0.19	< 0.18
Dimethyl phthalate	NS	< 0.23	< 0.25	< 0.23	< 0.25	< 0.25	< 0.23	< 0.23	< 0.26	< 0.26	< 0.25	< 0.25
di-n-butyl phthalate	700	< 0.19	< 0.21	< 0.19	< 0.21	< 0.21	< 0.19	< 0.19	< 0.22	< 0.22	< 0.21	< 0.21
di-n-octylphthalate	100	< 0.4	< 0.44	< 0.4	< 0.44	< 0.44	< 0.4	< 0.4	< 0.45	< 0.45	< 0.44	< 0.43
Hexachlorobutadiene	1	< 0.37	< 0.42	< 0.37	< 0.41	< 0.41	< 0.37	< 0.37	< 0.43	< 0.42	< 0.42	< 0.41
Hexachlorocyclopentadiene	40	< 0.67	< 0.76	< 0.67	< 0.75	< 0.75	< 0.67	< 0.67	< 0.77	< 0.76	< 0.76	< 0.74
Hexachloroethane	7	< 0.26	< 0.3	< 0.26	< 0.29	< 0.29	< 0.26	< 0.26	< 0.3	< 0.3	< 0.3	< 0.29
Isophrone	40	< 0.25	< 0.28	< 0.25	< 0.28	< 0.28	< 0.25	< 0.25	< 0.29	< 0.28	< 0.28	< 0.27
Nitrobenzene	6	< 0.25	< 0.28	< 0.25	< 0.28	< 0.28	< 0.25	< 0.25	< 0.29	< 0.29	< 0.28	< 0.28
N-Nitroso-di-n-Propylamine	10	< 0.44	< 0.49	< 0.44	< 0.49	< 0.49	< 0.44	< 0.44	< 0.5	< 0.5	< 0.49	< 0.48
N-Nitrosodiphenylamine	10	< 0.22	< 0.24	1.6 J	< 0.24	< 0.24	< 0.22	1.1 J	1.3 J	< 0.24	< 0.24	< 0.24
Phenol	2000	< 0.58	< 0.65	< 0.58	< 0.64	< 0.64	< 0.58	< 0.58	< 0.66	< 0.66	< 0.65	< 0.63
Total TIC, Semi-Volatile	NS	0	0	254.4 J	0	0	0	36.8 J	28.9 J	40.4 J	6.7 J	0

Table 8. Summary of Ground Water Analytical Results, F

Location ID	GWQS[1]	OB-21	OB-22	OB-23	OB-24	OB-25	OB-26	PM AIR SHAFT	PM AIR SHAFT	RW-1	RW-1	RW-1
Sample ID		**OB-21(070709)**	**OB-22(070809)**	**OB-23(070809)**	**OB-24(070809)**	**OB-25(070609)**	**OB-26(070209)**	**PM AIRSHAFT(180)**	**PM AIRSHAFT(230)**	**RW-1(10-30)**	**RW-1(58-78)**	**RW-1(97-117)**
Sample Date		**7/7/2009**	**7/8/2009**	**7/8/2009**	**7/8/2009**	**7/6/2009**	**7/2/2009**	**7/10/2009**	**7/10/2009**	**7/17/2009**	**7/17/2009**	**7/17/2009**
Validation Status		**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**
SVOC BY SIM												
Acenaphthene	400	< 0.016	< 0.018	1.03	< 0.018	< 0.018	< 0.016	< 0.016	< 0.018	< 0.033	< 0.033	< 0.032
Acenaphthylene	NS	< 0.007	< 0.0079	< 0.007	< 0.0078	< 0.0078	< 0.007	< 0.007	< 0.008	< 0.045	< 0.044	< 0.043
Anthracene	2000	< 0.021	< 0.024	< 0.021	< 0.023	< 0.023	< 0.021	< 0.021	< 0.024	< 0.029	< 0.029	< 0.028
Benzo(a)anthracene	0.1 [0.2]	< 0.034	< 0.038	< 0.034	< 0.037	< 0.037	< 0.034	< 0.034	< 0.039	< 0.027	< 0.027	< 0.026
Benzo(a)pyrene	0.1 [0.2]	< 0.036	< 0.04	< 0.036	< 0.039	< 0.039	< 0.036	< 0.036	< 0.041	< 0.035	< 0.035	< 0.034
Benzo(b)fluoranthene	0.2 [10]	< 0.017	< 0.019	< 0.017	< 0.019	< 0.019	< 0.017	< 0.017	< 0.02	< 0.041	< 0.04	< 0.039
Benzo(g,h,i)perylene	NS	< 0.012	< 0.013	< 0.012	< 0.013	< 0.013	< 0.012	< 0.012	< 0.013	< 0.033	< 0.032	< 0.032
Benzo(k)fluoranthene	0.5	< 0.019	< 0.021	< 0.019	< 0.021	< 0.021	< 0.019	< 0.019	< 0.022	< 0.032	< 0.032	< 0.031
Chrysene	5	< 0.018	< 0.02	< 0.018	< 0.02	< 0.02	< 0.018	< 0.018	< 0.02	< 0.025	< 0.025	< 0.024
Dibenzo(a,h)anthracene	0.3 [0.5]	< 0.02	< 0.023	< 0.02	< 0.022	< 0.022	< 0.02	< 0.02	< 0.023	< 0.026	< 0.025	< 0.025
Fluoranthene	300	< 0.0096	< 0.011	< 0.0096	< 0.011	< 0.011	< 0.0096	< 0.0096	< 0.011	< 0.028	< 0.027	< 0.027
Fluorene	300	< 0.02	< 0.022	0.538	< 0.022	< 0.022	< 0.02	< 0.02	< 0.023	< 0.031	< 0.03	< 0.03
Hexachlorobenzene	0.02 [10]	< 0.0099	< 0.011	< 0.0099	< 0.011	< 0.011	< 0.0099	< 0.0099	< 0.011	< 0.011	< 0.011	< 0.011
Indeno(1,2,3-cd)pyrene	0.2 [10]	< 0.014	< 0.016	< 0.014	< 0.016	< 0.016	< 0.014	< 0.014	< 0.017	< 0.033	< 0.033	< 0.032
Naphthalene	300	< 0.014	< 0.016	< 0.014	< 0.015	< 0.015	< 0.014	4.73	5.04	< 0.021	< 0.021	< 0.02
Pentachlorophenol	0.3 [1]	< 0.22	< 0.25	< 0.22	< 0.25	< 0.25	< 0.22	< 0.22	< 0.26	< 0.25	< 0.25	< 0.25
Phenanthrene	NS	< 0.017	< 0.019	0.24	< 0.019	< 0.019	< 0.017	< 0.017	< 0.02	< 0.041	< 0.041	< 0.04
Pyrene	200	< 0.012	< 0.014	< 0.012	< 0.013	< 0.013	< 0.012	< 0.012	< 0.014	< 0.025	< 0.025	< 0.024
PCBs												
PCB 1016	0.5	< 0.19	< 0.22	< 0.21	< 0.2	< 0.25	< 0.21	< 0.21	< 0.19	< 0.22	< 0.21	< 0.63
PCB 1221	0.5	< 0.31	< 0.36	< 0.34	< 0.32	< 0.4	< 0.33	< 0.34	< 0.31	< 0.36	< 0.34	< 0.63
PCB 1232	0.5	< 0.21	< 0.24	< 0.23	< 0.22	< 0.27	< 0.22	< 0.23	< 0.21	< 0.24	< 0.23	< 0.63
PCB 1242	0.5	< 0.089	< 0.1	< 0.099	< 0.094	< 0.12	< 0.097	< 0.098	< 0.089	< 0.1	< 0.099	< 0.63
PCB 1248	0.5	< 0.25	< 0.3	< 0.28	< 0.27	< 0.33	< 0.28	< 0.28	< 0.25	< 0.3	< 0.28	< 0.63
PCB 1254	0.5	< 0.11	< 0.13	< 0.12	< 0.12	< 0.15	< 0.12	< 0.12	< 0.11	< 0.13	< 0.12	< 0.63
PCB 1260	0.5	< 0.14	< 0.17	< 0.16	< 0.15	< 0.19	< 0.16	< 0.16	< 0.14	< 0.17	< 0.16	< 0.63
Total PCBs	0.5	0	0	0	0	0	0	0	0	0	0	0
Metals - Total												
Aluminum	200	**1180**	**2280**	177 B	**1020**	**17700**	**376**	129 B	148 B	65.6 B	< 26	< 26
Antimony	6	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Arsenic	3 [8]	< 2.4	< 2.4	< 2.4	< 2.4	**8.4**	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4
Barium	2000	8.9 B	22.5 B	436	44.7 B	108 B	28.7 B	416	414	7.2 B	4.4 B	3.5 B
Beryllium	1	< 0.4	< 0.4	< 0.4	< 0.4	**3.3**	0.4 B	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
Cadmium	4	1.3 B	0.6 B	0.5 B	0.9 B	< 0.4	< 0.4	1.1 B	0.9 B	< 0.4	< 0.4	< 0.4
Calcium	NS	8650	31900	117000	97600	45200	10400	37600	37200	4500 B	27400	30200
Chromium	70	1.9 B	3.2 B	2.2 B	1.1 B	24.1	3.3 B	1.9 B	1.8 B	< 0.9	< 0.9	< 0.9
Cobalt	NS	0.5 B	1 B	1.2 B	0.5 B	12.5 B	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
Copper	1,300	14.6	18.2	3.8 B	2.9 B	57.4	4.8 B	< 2	< 2	< 1.6	< 1.6	< 1.6
Iron	300	**1550**	**2960**	**42300**	**2130**	**28300**	**403**	**68900**	**68300**	174	252	**304**
Lead	5	< 1.7	< 1.7	**7.5**	< 1.7	**19.9**	2 B	2.7 B	2.2 B	< 1.7	< 1.7	< 1.7
Magnesium	NS	4080 B	6230	12400	24200	13300	2670 B	3650 B	3610 B	1770 B	4350 B	4520 B
Manganese	50	**85.9**	**64.2**	**1400**	**789**	**735**	9.9 B	**672**	**671**	14.5 B	7.4 B	35.2
Mercury	2	< 0.049	< 0.049	< 0.049	< 0.049	0.071 B	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049
Nickel	100	2.3 B	3.4 B	2.9 B	1.7 B	29	4.3 B	0.9 B	< 0.6	0.9 B	< 0.6	< 0.6
Potassium	NS	1210 B	1360 B	10000	2340 B	8490 B	1020 B	1730 B	1720 B	467 B	798 B	853 B
Selenium	40	< 3.7	4.3 B	3.7 B	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7
Silver	40	< 1	< 1	< 1	< 1	4.9 B	< 1	1.7 B	< 1	< 1	1.3 B	1.5 B
Sodium	50,000	3250 B	13500	**86900**	14700	42800	2450 B	3370 B	3320 B	1870 B	4910 B	5190 B
Thallium	2 [10]	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Vanadium	NS	1.9 B	3.3 B	< 0.9	3.9 B	30.2 B	0.9 B	6.8 B	6 B	< 0.9	< 0.9	< 0.9
Zinc	2000	6.9 B	24.1	47.9	< 2.9	112	35.8	45.6	56.5	**2240**	117	143

Table 8. Summary of Ground Water Analytical Results, F

Location ID	GWQS[1]	OB-21	OB-22	OB-23	OB-24	OB-25	OB-26	PM AIR SHAFT	PM AIR SHAFT	RW-1	RW-1	RW-1
Sample ID		**OB-21(070709)**	**OB-22(070809)**	**OB-23(070809)**	**OB-24(070809)**	**OB-25(070609)**	**OB-26(070209)**	**PM AIRSHAFT(180)**	**PM AIRSHAFT(230)**	**RW-1(10-30)**	**RW-1(58-78)**	**RW-1(97-117)**
Sample Date		**7/7/2009**	**7/8/2009**	**7/8/2009**	**7/8/2009**	**7/6/2009**	**7/2/2009**	**7/10/2009**	**7/10/2009**	**7/17/2009**	**7/17/2009**	**7/17/2009**
Validation Status		**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**
Metals - Dissolved												
Aluminum	200	< 26	53.8 B	103 B	93.9 B	< 26	44.6 B	102 B	96.3 B	< 26	< 26	< 26
Antimony	6	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Arsenic	3 [8]	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4
Barium	2000	2.6 B	10.5 B	332	38.2 B	20.1 B	25.8 B	371	361	11.6 B	9.4 B	3.1 B
Beryllium	1	< 0.4	< 0.4	< 0.4	< 0.4	0.6 B	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
Cadmium	4	1.1 B	< 0.4	0.6 B	0.8 B	< 0.4	< 0.4	< 0.4	0.6 B	< 0.4	< 0.4	< 0.4
Calcium	NS	9270	33600	113000	99300	47400	10200	37500	36100	4400 B	24400	26600
Chromium	70	< 0.9	2.5 B	2.6 B	< 0.9	1 B	1.2 B	< 0.9	< 0.9	1.1 B	< 0.9	< 0.9
Cobalt	NS	< 0.4	< 0.4	0.5 B	< 0.4	0.5 B	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
Copper	1,300	< 1.6	< 2	< 2	< 2	4.5 B	3.9 B	< 2	< 2	< 1.6	< 1.6	< 1.6
Iron	300	< 42	69.2 B	**19000**	26.7 B	53.4 B	60.2 B	**51500**	**44600**	33.4 B	31 B	151
Lead	5	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
Magnesium	NS	4030 B	6180	12100	24100	10000	2610 B	3740 B	3570 B	1760 B	4020 B	4160 B
Manganese	50	2.1 B	6 B	**1330**	**93**	28.5	4.7 B	**650**	**646**	12.7 B	7.2 B	31.2
Mercury	2	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	0.079 B	< 0.049
Nickel	100	0.8 B	1.1 B	3.5 B	< 0.6	1.1 B	2.8 B	< 0.6	< 0.6	0.6 B	< 0.6	< 0.6
Potassium	NS	886 B	765 B	9630 B	2140 B	6220 B	964 B	1850 B	1680 B	501 B	780 B	821 B
Selenium	40	< 3.7	4.1 B	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7
Silver	40	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1.3 B	1.2 B
Sodium	50,000	3350 B	14200	**82300**	14900	48200	2430 B	4080 B	3300 B	1890 B	4740 B	4970 B
Thallium	2 [10]	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Vanadium	NS	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9
Zinc	2000	14.9 B	8.5 B	9.1 B	4 B	8.3 B	31.6	17.5 B	80	1980	96.6	110
Other												
Alkalinity, total (as CaCO3)	NS	37300	69300	418000	228000	151000	29700	128000	127000	14600	75700	83900
Chloride	250000	< 2000	41700	89900	88000	74100	< 2000	< 2000	< 2000	< 2000	3600	4000
Sulfate	250000	11300	18300	< 10000	32900	23500	< 10000	< 10000	< 10000	< 10000	20200	20200

Footnotes on page 33.

Table 8. Summary of Ground Water Analytical Results, F

Location ID	GWQS[1]	RW-1	RW-2	RW-2	RW-2	RW-2	RW-2	RW-3	RW-4	RW-4	RW-4	RW-4	RW-5
Sample ID		**RW-1(126-146)**	**RW-2(20-50)**	**RW-2 (102-133)**	**RW-2 (162-192)**	**RW-2 (279-309)**	**RW-2(441-472)**	**RW-3(62-98)**	**RW-4(56-77)**	**RW-4(108-128)**	**RW-4(328-349)**	**RW-4(388-408)**	**RW-5(070709)**
Sample Date		**7/17/2009**	**7/10/2009**	**7/13/2009**	**7/13/2009**	**7/13/2009**	**7/14/2009**	**7/6/2009**	**6/30/2009**	**6/30/2009**	**7/2/2009**	**7/2/2009**	**7/7/2009**
Validation Status		**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**
VOC													
1,1,1-Trichloroethane	30	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
1,1,2,2-Tetrachloroethane	1	< 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-Trichloroethane	3	< 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	50	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	0.35 J	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29
1,1-Dichloroethene	1	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
1,2,4-Trichlorobenzene	9	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56
1,2-Dibromo-3-Chloropropane (DBCP)	0.02 [1]	< 1.1*	< 1.1*	< 1.1*	< 1.1*	< 1.1*	< 1.1*	< 1.1*	< 1.1*	< 1.1*	< 1.1*	< 1.1*	< 1.1*
1,2-Dibromoethane	0.03 [0.5]	< 0.39*	< 0.39*	< 0.39*	< 0.39*	< 0.39*	< 0.39*	< 0.39*	< 0.39*	< 0.39*	< 0.39*	< 0.39*	< 0.39*
1,2-Dichlorobenzene	600	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
1,2-Dichloroethane	2	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
1,2-Dichloropropane	1	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27
1,3-Dichlorobenzene	600	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
1,4-Dichlorobenzene	75	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
2-Butanone (MEK)	300	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6
2-Hexanone	NS	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
4-methyl-2-pentanone (MIBK)	NS	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86
Acetone	6000	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9
Benzene	1	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	0.26 J
Bromodichloromethane	1	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Bromoform	4	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Bromomethane	10	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Carbon disulfide	700	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74
Carbon tetrachloride	1	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
Chlorobenzene	50	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39
Chloroethane	NS	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	18.6
Chloroform	70	< 0.23	7	5.1	4.9	4.8	2.8	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Chloromethane	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
cis-1,2-Dichloroethene	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
cis-1,3-Dichloropropene	NS	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Cyclohexane	NS	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9
Dibromochloromethane	1	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Dichlorodifluoromethane	1,000	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92
Ethylbenzene	700	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27
Freon 113	NS	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
Isopropylbenzene	700	< 0.57	< 0.57	< 0.57	< 0.57	< 0.57	< 0.57	< 0.57	< 0.57	< 0.57	< 0.57	< 0.57	< 0.57
Methyl acetate	7000	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Methyl tert butyl ether	70	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Methylcyclohexane	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
Methylene chloride	3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
o-Xylene	NS	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Styrene	100	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58
Tetrachloroethene	1	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27
Toluene	1000	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	0.4 J	0.32 J	< 0.3
Trans-1,2-dichloroethene	100	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
trans-1,3-Dichloropropene	NS	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Trichloroethene	1	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Trichlorofluoromethane	2000	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54
Vinyl Chloride	1	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
Xylene, -m,p	NS	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Xylenes	1,000	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Total TIC, Volatile	NS	0	0	0	0	0	0	0	0	0	0	0	0

Table 8. Summary of Ground Water Analytical Results, F

Location ID		RW-1	RW-2	RW-2	RW-2	RW-2	RW-2	RW-3	RW-4	RW-4	RW-4	RW-4	RW-5
Sample ID	**GWQS[1]**	**RW-1(126-146)**	**RW-2(20-50)**	**RW-2 (102-133)**	**RW-2 (162-192)**	**RW-2 (279-309)**	**RW-2(441-472)**	**RW-3(62-98)**	**RW-4(56-77)**	**RW-4(108-128)**	**RW-4(328-349)**	**RW-4(388-408)**	**RW-5(070709)**
Sample Date		**7/17/2009**	**7/10/2009**	**7/13/2009**	**7/13/2009**	**7/13/2009**	**7/14/2009**	**7/6/2009**	**6/30/2009**	**6/30/2009**	**7/2/2009**	**7/2/2009**	**7/7/2009**
Validation Status		**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**
SVOC													
1,1'-Biphenyl	400	< 0.48	< 0.49	< 0.5	< 0.5	< 0.47	< 0.42	< 0.47	< 0.48	< 0.42	< 0.46	< 0.43	< 0.42
2,4,5-Trichlorophenol	700	< 1.5	< 1.5	< 1.6	< 1.6	< 1.5	< 1.3	< 1.5	< 1.5	< 1.3	< 1.4	< 1.3	< 1.3
2,4,6-Trichlorophenol	20	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.2	< 1.4	< 1.4	< 1.2	< 1.3	< 1.2	< 1.2
2,4-Dichlorophenol	20	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.2	< 1.4	< 1.4	< 1.2	< 1.3	< 1.2	< 1.2
2,4-Dimethylphenol	100	< 1.9	< 1.9	< 1.9	< 1.9	< 1.8	< 1.7	< 1.8	< 1.9	< 1.7	< 1.8	< 1.7	< 1.7
2,4-Dinitrophenol	40	< 0.85	< 0.86	< 0.87	< 0.87	< 0.82	< 0.74	< 0.82	< 0.84	< 0.74	< 0.8	< 0.74	< 0.74
2,4-Dinitrotoluene	NS	< 0.25	< 0.26	< 0.26	< 0.26	< 0.24	< 0.22	< 0.24	< 0.25	< 0.22	< 0.24	< 0.22	< 0.22
2,6-Dinitrotoluene	NS	< 0.37	< 0.38	< 0.38	< 0.38	< 0.36	< 0.33	< 0.36	< 0.37	< 0.33	< 0.35	< 0.33	< 0.33
2-Chloronaphthalene	600	< 0.48	< 0.48	< 0.49	< 0.49	< 0.46	< 0.42	< 0.46	< 0.47	< 0.42	< 0.45	< 0.42	< 0.42
2-Chlorophenol	40	< 1.2	< 1.2	< 1.3	< 1.3	< 1.2	< 1.1	< 1.2	< 1.2	< 1.1	< 1.2	< 1.1	< 1.1
2-Methylnaphthalene	NS	< 0.76	< 0.77	< 0.77	< 0.77	< 0.73	< 0.66	< 0.73	< 0.75	< 0.66	< 0.72	< 0.66	< 0.66
2-Methylphenol	NS	< 1.3	< 1.3	< 1.3	< 1.3	< 1.2	< 1.1	< 1.2	< 1.3	< 1.1	< 1.2	< 1.1	< 1.1
2-Nitroaniline	NS	< 0.27	< 0.27	< 0.28	< 0.28	< 0.26	< 0.24	< 0.26	< 0.27	< 0.24	< 0.26	< 0.24	< 0.24
2-Nitrophenol	NS	< 1.4	< 1.4	< 1.5	< 1.5	< 1.4	< 1.2	< 1.4	< 1.4	< 1.2	< 1.3	< 1.3	< 1.2
3&4-Methylphenol	NS	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1	< 1.2	< 1.2	< 1	< 1.1	< 1.1	< 1
3,3'-Dichlorobenzidine	30	< 0.34	< 0.34	< 0.35	< 0.35	< 0.33	< 0.3	< 0.33	< 0.34	< 0.3	< 0.32	< 0.3	< 0.3
3-Nitroaniline	NS	< 0.33	< 0.33	< 0.34	< 0.34	< 0.32	< 0.29	< 0.32	< 0.33	< 0.29	< 0.31	< 0.29	< 0.29
4,6-Dinitro-2-methylphenol	NS	< 0.59	< 0.6	< 0.6	< 0.6	< 0.57	< 0.51	< 0.57	< 0.58	< 0.51	< 0.56	< 0.52	< 0.51
4-Bromophenyl phenyl ether	NS	< 0.4	< 0.41	< 0.41	< 0.41	< 0.39	< 0.35	< 0.39	< 0.4	< 0.35	< 0.38	< 0.35	< 0.35
4-Chloro-3-Methylphenol	NS	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.1	< 1.2	< 1.2	< 1.1	< 1.1	< 1.1	< 1.1
4-Chloroaniline	30	< 0.29	< 0.29	< 0.3	< 0.3	< 0.28	< 0.25	< 0.28	< 0.29	< 0.25	< 0.28	< 0.26	< 0.25
4-Chlorophenyl phenyl ether	NS	< 0.41	< 0.41	< 0.42	< 0.42	< 0.39	< 0.35	< 0.39	< 0.4	< 0.35	< 0.38	< 0.36	< 0.35
4-Nitroaniline	NS	< 0.2	< 0.21	< 0.21	< 0.21	< 0.2	< 0.18	< 0.2	< 0.2	< 0.18	< 0.19	< 0.18	< 0.18
4-Nitrophenol	NS	< 0.95	< 0.96	< 0.97	< 0.97	< 0.92	< 0.83	< 0.92	< 0.94	< 0.83	< 0.9	< 0.84	< 0.83
Acetophenone	700	< 0.46	< 0.46	< 0.47	< 0.47	< 0.44	< 0.4	< 0.44	< 0.45	< 0.4	< 0.43	< 0.4	< 0.4
Atrazine	3	< 0.45	< 0.45	< 0.46	< 0.46	< 0.43	< 0.39	< 0.43	< 0.44	< 0.39	< 0.43	< 0.39	< 0.39
Benzaldehyde	NS	< 0.46	< 0.47	< 0.48	< 0.48	< 0.45	< 0.4	< 0.45	< 0.46	< 0.4	< 0.44	< 0.41	< 0.4
Benzyl butyl phthalate	100	< 0.29	< 0.29	< 0.3	< 0.3	< 0.28	< 0.25	< 0.28	< 0.29	< 0.25	< 0.27	< 0.25	< 0.25
bis(2-Chloroethoxy)methane	NS	< 0.29	< 0.29	< 0.29	< 0.29	< 0.28	< 0.25	< 0.28	< 0.28	< 0.25	< 0.27	< 0.25	< 0.25
bis(2-Chloroethyl)ether	7	< 0.36	< 0.36	< 0.36	< 0.36	< 0.34	< 0.31	< 0.34	< 0.35	< 0.31	< 0.34	< 0.31	< 0.31
bis(2-Chloroisopropyl)ether	300	< 0.45	< 0.45	< 0.46	< 0.46	< 0.43	< 0.39	< 0.43	< 0.44	< 0.39	< 0.42	< 0.39	< 0.39
bis(2-Ethylhexyl)phthalate	3	1.3 J	< 0.38	< 0.38	< 0.38	< 0.36	< 0.33	< 0.36	< 0.37	1.2 J	< 0.36	1.1 J	< 0.33
Caprolactam	NS	< 0.22	< 0.23	< 0.23	< 0.23	< 0.22	< 0.2	< 0.22	< 0.22	< 0.2	< 0.21	< 0.2	< 0.2
Carbazole	NS	< 0.19	< 0.19	< 0.19	< 0.19	< 0.18	< 0.17	< 0.18	< 0.19	< 0.17	< 0.18	< 0.17	< 0.17
Dibenzofuran	NS	< 0.35	< 0.35	< 0.36	< 0.36	< 0.34	< 0.3	< 0.34	< 0.35	< 0.3	< 0.33	< 0.31	< 0.3
Diethyl phthalate	6000	< 0.19	< 0.19	< 0.19	< 0.19	< 0.18	< 0.17	< 0.18	< 0.19	< 0.17	< 0.18	< 0.17	< 0.17
Dimethyl phthalate	NS	< 0.26	< 0.26	< 0.26	< 0.26	< 0.25	< 0.23	< 0.25	< 0.26	< 0.23	< 0.24	< 0.23	< 0.23
di-n-butyl phthalate	700	< 0.22	< 0.22	< 0.22	< 0.22	< 0.21	< 0.19	< 0.21	< 0.22	< 0.19	< 0.21	< 0.19	< 0.19
di-n-octylphthalate	100	< 0.45	< 0.46	< 0.46	< 0.46	< 0.44	< 0.4	< 0.44	< 0.45	< 0.4	< 0.43	< 0.4	< 0.4
Hexachlorobutadiene	1	< 0.43	< 0.43	< 0.44	< 0.44	< 0.41	< 0.37	< 0.41	< 0.42	< 0.37	< 0.4	< 0.38	< 0.37
Hexachlorocyclopentadiene	40	< 0.77	< 0.78	< 0.79	< 0.79	< 0.75	< 0.67	< 0.75	< 0.76	< 0.67	< 0.73	< 0.68	< 0.67
Hexachloroethane	7	< 0.3	< 0.31	< 0.31	< 0.31	< 0.29	< 0.26	< 0.29	< 0.3	< 0.26	< 0.29	< 0.27	< 0.26
Isophrone	40	< 0.29	< 0.29	< 0.29	< 0.29	< 0.28	< 0.25	< 0.28	< 0.28	< 0.25	< 0.27	< 0.25	< 0.25
Nitrobenzene	6	< 0.29	< 0.29	< 0.3	< 0.3	< 0.28	< 0.25	< 0.28	< 0.29	< 0.25	< 0.28	< 0.26	< 0.25
N-Nitroso-di-n-Propylamine	10	< 0.5	< 0.51	< 0.52	< 0.52	< 0.49	< 0.44	< 0.49	< 0.5	< 0.44	< 0.48	< 0.44	< 0.44
N-Nitrosodiphenylamine	10	< 0.25	< 0.25	< 0.25	< 0.25	< 0.24	< 0.22	< 0.24	< 0.24	< 0.22	< 0.23	< 0.22	< 0.22
Phenol	2000	< 0.66	< 0.67	< 0.68	< 0.68	< 0.64	< 0.58	< 0.64	< 0.66	< 0.58	< 0.63	< 0.58	< 0.58
Total TIC, Semi-Volatile	NS	41 J	36 J	0	14 J	0	0	18.6 J	0	0	0	0	8 J

Table 8. Summary of Ground Water Analytical Results, F

Location ID	GWQS[1]	RW-1	RW-2	RW-2	RW-2	RW-2	RW-2	RW-3	RW-4	RW-4	RW-4	RW-4	RW-5
Sample ID		**RW-1(126-146)**	**RW-2(20-50)**	**RW-2 (102-133)**	**RW-2 (162-192)**	**RW-2 (279-309)**	**RW-2(441-472)**	**RW-3(62-98)**	**RW-4(56-77)**	**RW-4(108-128)**	**RW-4(328-349)**	**RW-4(388-408)**	**RW-5(070709)**
Sample Date		**7/17/2009**	**7/10/2009**	**7/13/2009**	**7/13/2009**	**7/13/2009**	**7/14/2009**	**7/6/2009**	**6/30/2009**	**6/30/2009**	**7/2/2009**	**7/2/2009**	**7/7/2009**
Validation Status		**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**
SVOC BY SIM													
Acenaphthene	400	< 0.033	< 0.019	< 0.034	< 0.034	< 0.032	< 0.016	< 0.018	< 0.017	< 0.017	< 0.017	< 0.016	< 0.016
Acenaphthylene	NS	< 0.045	< 0.0081	< 0.046	< 0.046	< 0.044	< 0.007	< 0.0078	< 0.0075	< 0.0076	< 0.0076	< 0.0071	< 0.007
Anthracene	2000	< 0.029	< 0.024	< 0.03	< 0.03	< 0.028	< 0.021	< 0.023	< 0.023	< 0.023	< 0.023	< 0.021	< 0.021
Benzo(a)anthracene	0.1 [0.2]	< 0.027	< 0.039	< 0.028	< 0.028	< 0.026	< 0.034	< 0.037	< 0.036	< 0.037	< 0.037	< 0.034	< 0.034
Benzo(a)pyrene	0.1 [0.2]	< 0.035	< 0.041	< 0.036	< 0.036	< 0.034	< 0.036	< 0.039	< 0.038	< 0.039	< 0.039	< 0.036	< 0.036
Benzo(b)fluoranthene	0.2 [10]	< 0.041	< 0.02	< 0.042	< 0.042	< 0.04	< 0.017	< 0.019	< 0.018	< 0.018	< 0.018	< 0.017	< 0.017
Benzo(g,h,i)perylene	NS	< 0.033	< 0.014	< 0.034	< 0.034	< 0.032	< 0.012	< 0.013	< 0.013	< 0.013	< 0.013	< 0.012	< 0.012
Benzo(k)fluoranthene	0.5	< 0.032	< 0.022	< 0.033	< 0.033	< 0.031	< 0.019	< 0.021	< 0.02	< 0.02	< 0.02	< 0.019	< 0.019
Chrysene	5	< 0.025	< 0.02	< 0.026	< 0.026	< 0.024	< 0.018	< 0.02	< 0.019	< 0.019	< 0.019	< 0.018	< 0.018
Dibenzo(a,h)anthracene	0.3 [0.5]	< 0.026	< 0.023	< 0.026	< 0.026	< 0.025	< 0.02	< 0.022	< 0.022	< 0.022	< 0.022	< 0.02	< 0.02
Fluoranthene	300	< 0.028	< 0.011	< 0.029	< 0.029	< 0.027	< 0.0096	< 0.011	< 0.01	< 0.01	< 0.01	< 0.0097	< 0.0096
Fluorene	300	< 0.031	< 0.023	< 0.032	< 0.032	< 0.03	< 0.02	< 0.022	< 0.021	< 0.021	< 0.021	< 0.02	< 0.02
Hexachlorobenzene	0.02 [10]	< 0.011	< 0.012	< 0.012	< 0.012	< 0.011	< 0.0099	< 0.011	< 0.011	< 0.011	< 0.011	< 0.01	< 0.0099
Indeno(1,2,3-cd)pyrene	0.2 [10]	< 0.034	< 0.017	< 0.034	< 0.034	< 0.032	< 0.014	< 0.016	< 0.015	< 0.016	< 0.016	< 0.015	< 0.014
Naphthalene	300	< 0.021	< 0.016	< 0.022	< 0.022	< 0.021	< 0.014	< 0.015	< 0.015	< 0.015	< 0.015	< 0.014	< 0.014
Pentachlorophenol	0.3 [1]	< 0.26	< 0.26	< 0.26	< 0.26	< 0.25	< 0.22	< 0.25	< 0.24	< 0.24	< 0.24	< 0.23	< 0.22
Phenanthrene	NS	< 0.041	< 0.02	< 0.042	< 0.042	< 0.04	< 0.017	< 0.019	< 0.018	< 0.018	< 0.018	< 0.017	< 0.017
Pyrene	200	< 0.025	< 0.014	< 0.026	< 0.026	< 0.025	< 0.012	< 0.013	< 0.013	< 0.013	< 0.013	< 0.012	< 0.012
PCBs													
PCB 1016	0.5	< 0.63	< 0.21	< 0.56	< 0.57	< 0.56	< 2	< 0.21	< 0.19	< 0.19	< 0.19	< 0.2	< 0.19
PCB 1221	0.5	< 0.63	< 0.35	< 0.56	< 0.57	< 0.56	< 2	< 0.34	< 0.31	< 0.31	< 0.31	< 0.33	< 0.31
PCB 1232	0.5	< 0.63	< 0.23	< 0.56	< 0.57	< 0.56	< 2	< 0.23	< 0.21	< 0.21	< 0.21	< 0.22	< 0.21
PCB 1242	0.5	< 0.63	< 0.1	< 0.56	< 0.57	< 0.56	< 2	< 0.099	< 0.091	< 0.089	< 0.089	< 0.096	< 0.089
PCB 1248	0.5	< 0.63	< 0.29	< 0.56	< 0.57	< 0.56	< 2	< 0.28	< 0.26	< 0.25	< 0.25	< 0.27	< 0.25
PCB 1254	0.5	< 0.63	< 0.13	< 0.56	< 0.57	< 0.56	< 2	< 0.12	< 0.11	< 0.11	< 0.11	< 0.12	< 0.11
PCB 1260	0.5	< 0.63	< 0.16	< 0.56	< 0.57	< 0.56	< 2	< 0.16	< 0.15	< 0.14	< 0.14	< 0.15	< 0.14
Total PCBs	0.5	0	0	0	0	0	0	0	0	0	0	0	0
Metals - Total													
Aluminum	200	104 B	**835**	**616**	**650**	30.3 B	< 26	< 26	< 26	< 26	< 26	< 26	73.3 B
Antimony	6	< 4	< 4	< 4	< 4	< 4	< 4	< 4	**17.8**	**6.2**	< 4	< 4	< 4
Arsenic	3 [8]	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4
Barium	2000	10.6 B	42.3 B	55.6 B	55.4 B	50.6 B	122 B	36.8 B	5.5 B	9.9 B	12.3 B	8.9 B	25.9 B
Beryllium	1	< 0.4	< 0.4	< 0.4	0.4 B	< 0.4	< 0.4	0.7 B	0.7 B	0.8 B	0.8 B	0.9 B	< 0.4
Cadmium	4	< 0.4	0.9 B	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	1.9 B	0.7 B	**4.9**	1.5 B	1 B
Calcium	NS	35100	53400	73900	81300	83000	166000	46300	8640	10400	11500	11100	65000
Chromium	70	< 0.9	< 0.9	2.3 B	2.4 B	< 0.9	1.1 B	1.5 B	1.6 B	1.1 B	65.1	2.8 B	2.2 B
Cobalt	NS	0.4 B	< 0.4	0.9 B	1.1 B	0.6 B	0.6 B	< 0.4	< 0.4	< 0.4	0.7 B	< 0.4	1.2 B
Copper	1,300	2.8 B	3.7 B	4.2 B	5.9 B	4.5 B	5.7 B	3.4 B	1.7 B	< 1.6	2.6 B	2.9 B	2.1 B
Iron	300	**2450**	**3520**	**4160**	**4120**	**1390**	**930**	**1830**	**7060**	**4430**	**2610**	**2970**	**8700**
Lead	5	2.3 B	< 1.7	3.7	2 B	< 1.7	< 1.7	< 1.7	3.4	< 1.7	3	1.8 B	< 1.7
Magnesium	NS	4980 B	19800	25800	27200	26900	47900	13200	3310 B	4000 B	4350 B	4310 B	16700
Manganese	50	**318**	**215**	**165**	**303**	**198**	**334**	**275**	**111**	44.8	**67.4**	30.7	**3670**
Mercury	2	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	0.072 B	< 0.049	< 0.049	< 0.049	< 0.049
Nickel	100	0.7 B	2.2 B	3.1 B	2.9 B	1.3 B	< 4.1	0.9 B	1.1 B	< 0.6	34.2	2.7 B	1.3 B
Potassium	NS	1020 B	2830 B	2360 B	2340 B	2130 B	4480 B	1740 B	1170 B	1230 B	1240 B	1240 B	7650 B
Selenium	40	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7
Silver	40	1.4 B	< 1	< 1	1.1 B	< 1	< 1	1.5 B	< 1	< 1	1.8 B	1.8 B	< 1
Sodium	50,000	5290 B	**132000**	**121000**	**112000**	**109000**	**288000**	6600 B	5600 B	5730 B	5920 B	5910 B	11600
Thallium	2 [10]	< 1.5	1.9 B	< 1.5	1.8 B	< 1.5	< 1.5	< 1.5	1.9 B	1.5 B	< 1.5	< 1.5	< 1.5
Vanadium	NS	< 0.9	4.5 B	3.5 B	4 B	< 0.9	< 0.9	1.6 B	2.1 B	1.9 B	1.4 B	1.4 B	< 0.9
Zinc	2000	465	1110	**2970**	1520	680	**2060**	188	1530	501	**3770**	1110	7.4 B

Table 8. Summary of Ground Water Analytical Results, F

Location ID		**RW-1**	**RW-2**	**RW-2**	**RW-2**	**RW-2**	**RW-2**	**RW-3**	**RW-4**	**RW-4**	**RW-4**	**RW-4**	**RW-5**
Sample ID	**GWQS[1]**	**RW-1(126-146)**	**RW-2(20-50)**	**RW-2 (102-133)**	**RW-2 (162-192)**	**RW-2 (279-309)**	**RW-2(441-472)**	**RW-3(62-98)**	**RW-4(56-77)**	**RW-4(108-128)**	**RW-4(328-349)**	**RW-4(388-408)**	**RW-5(070709)**
Sample Date		**7/17/2009**	**7/10/2009**	**7/13/2009**	**7/13/2009**	**7/13/2009**	**7/14/2009**	**7/6/2009**	**6/30/2009**	**6/30/2009**	**7/2/2009**	**7/2/2009**	**7/7/2009**
Validation Status		**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**
Metals - Dissolved													
Aluminum	200	< 26	141 B	< 26	< 26	< 26	< 26	< 26	< 26	< 26	< 26	< 26	68.4 B
Antimony	6	< 4	< 4	< 4	< 4	< 4	< 4	< 4	**16.5**	4 B	< 4	< 4	< 4
Arsenic	3 [8]	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4
Barium	2000	9 B	41.3 B	50.6 B	49.9 B	49.4 B	119 B	32.4 B	4.6 B	8.1 B	11.5 B	8.5 B	22.2 B
Beryllium	1	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	0.7 B	0.6 B	0.7 B	0.7 B	0.8 B	< 0.4
Cadmium	4	< 0.4	0.7 B	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	1.8 B	0.5 B	**4.8**	1.4 B	0.9 B
Calcium	NS	29400	54800	71500	78500	83800	165000	45500	8850	9800	11300	10700	62600
Chromium	70	< 0.9	< 0.9	< 0.9	< 0.9	1.3 B	1.6 B	< 0.9	1.4 B	1.9 B	1.9 B	< 0.9	< 0.9
Cobalt	NS	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	0.4 B	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	1.1 B
Copper	1,300	< 1.6	3.1 B	< 1.6	< 1.6	2 B	2.6 B	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6
Iron	300	248	244	154	< 42	98.3 B	< 42	86.1 B	99.4 B	72.9 B	57.1 B	41.3 B	**2240**
Lead	5	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
Magnesium	NS	4280 B	19600	24200	25600	27100	47500	12900	3410 B	3770 B	4260 B	4160 B	16500
Manganese	50	**265**	**280**	**125**	**160**	**108**	**226**	**266**	**82.5**	28.1	**56.5**	24.9	**3520**
Mercury	2	0.054 B	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049
Nickel	100	< 0.6	1.2 B	< 4.1	< 4.1	< 4.1	4.5 B	0.7 B	0.7 B	0.6 B	2.7 B	2.1 B	1.1 B
Potassium	NS	948 B	2780 B	2110 B	2100 B	2130 B	4440 B	1710 B	1210 B	1180 B	1230 B	1180 B	7540 B
Selenium	40	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7
Silver	40	1.2 B	1.1 B	< 1	< 1	1.1 B	< 1	1.3 B	< 1	1.1 B	1.6 B	1.7 B	< 1
Sodium	50,000	4860 B	**135000**	**118000**	**109000**	**110000**	**283000**	6480 B	5860 B	5550 B	5800 B	5710 B	11300
Thallium	2 [10]	< 1.5	1.9 B	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Vanadium	NS	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9
Zinc	2000	64.2	855	**2700**	1510	672	1930	150	1400	418	**3620**	1040	< 3.5
Other													
Alkalinity, total (as CaCO3)	NS	106000	88000	114000	127000	131000	153000	172000	44900	46000	50700	44300	271000
Chloride	250000	4400	**279000**	**303000**	**295000**	**298000**	**828000**	11300	< 2000	< 2000	< 2000	< 2000	2000
Sulfate	250000	12200	24000	24100	23600	23700	35100	11200	11600	16500	16100	16000	22100

Footnotes on page 33.

Table 8. Summary of Ground Water Analytical Results, F

Location ID		RW-5A	RW-6	RW-6A	RW-7	RW-8	RW-8	RW-8	RW-9	RW-9	RW-9	RW-9	RW-10
Sample ID	**GWQS[1]**	**RW-5A(070709)**	**RW-6(070909)**	**RW-6A(070909)**	**RW-7(070709)**	**RW-8(42-62)**	**RW-8(158-178)**	**RW-8(199-219)**	**RW-9(20-40)**	**RW-9(80-100)**	**RW-9(134-154)**	**RW-9(201-221)**	**RW-10(22-42)**
Sample Date		**7/7/2009**	**7/9/2009**	**7/9/2009**	**7/7/2009**	**7/7/2009**	**7/7/2009**	**7/7/2009**	**7/15/2009**	**7/15/2009**	**7/16/2009**	**7/16/2009**	**7/8/2009**
Validation Status		**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**
VOC													
1,1,1-Trichloroethane	30	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
1,1,2,2-Tetrachloroethane	1	< 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-Trichloroethane	3	< 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	50	< 0.29	0.76 J	0.94 J	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29
1,1-Dichloroethene	1	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
1,2,4-Trichlorobenzene	9	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56
1,2-Dibromo-3-Chloropropane (DBCP)	0.02 [1]	< 1.1*	< 1.1*	< 1.1*	< 1.1*	< 1.1*	< 1.1*	< 1.1*	< 1.1*	< 1.1*	< 1.1*	< 1.1*	< 1.1*
1,2-Dibromoethane	0.03 [0.5]	< 0.39*	< 0.39*	< 0.39*	< 0.39*	< 0.39*	< 0.39*	< 0.39*	< 0.39*	< 0.39*	< 0.39*	< 0.39*	< 0.39*
1,2-Dichlorobenzene	600	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
1,2-Dichloroethane	2	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
1,2-Dichloropropane	1	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27
1,3-Dichlorobenzene	600	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
1,4-Dichlorobenzene	75	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
2-Butanone (MEK)	300	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6
2-Hexanone	NS	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
4-methyl-2-pentanone (MIBK)	NS	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86
Acetone	6000	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9
Benzene	1	< 0.23	**2**	**1.3**	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Bromodichloromethane	1	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Bromoform	4	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Bromomethane	10	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Carbon disulfide	700	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74
Carbon tetrachloride	1	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
Chlorobenzene	50	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39
Chloroethane	NS	< 0.37	6.4	1.3	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
Chloroform	70	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Chloromethane	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
cis-1,2-Dichloroethene	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
cis-1,3-Dichloropropene	NS	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Cyclohexane	NS	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9
Dibromochloromethane	1	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Dichlorodifluoromethane	1,000	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92
Ethylbenzene	700	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27
Freon 113	NS	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
Isopropylbenzene	700	< 0.57	< 0.57	1.6 J	< 0.57	< 0.57	< 0.57	< 0.57	< 0.57	< 0.57	< 0.57	< 0.57	< 0.57
Methyl acetate	7000	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Methyl tert butyl ether	70	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Methylcyclohexane	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
Methylene chloride	3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
o-Xylene	NS	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Styrene	100	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58
Tetrachloroethene	1	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27
Toluene	1000	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	0.66 J	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Trans-1,2-dichloroethene	100	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
trans-1,3-Dichloropropene	NS	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Trichloroethene	1	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Trichlorofluoromethane	2000	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54
Vinyl Chloride	1	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
Xylene, -m,p	NS	< 0.25	< 0.25	2.5	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Xylenes	1,000	< 0.25	< 0.25	2.5	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Total TIC, Volatile	NS	0	0	7.6 J	0	0	0	0	0	0	0	0	0

Table 8. Summary of Ground Water Analytical Results, F

Location ID		RW-5A	RW-6	RW-6A	RW-7	RW-8	RW-8	RW-8	RW-9	RW-9	RW-9	RW-9	RW-10
Sample ID	GWQS[1]	RW-5A(070709)	RW-6(070909)	RW-6A(070909)	RW-7(070709)	RW-8(42-62)	RW-8(158-178)	RW-8(199-219)	RW-9(20-40)	RW-9(80-100)	RW-9(134-154)	RW-9(201-221)	RW-10(22-42)
Sample Date		7/7/2009	7/9/2009	7/9/2009	7/7/2009	7/7/2009	7/7/2009	7/7/2009	7/15/2009	7/15/2009	7/16/2009	7/16/2009	7/8/2009
Validation Status		Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending
SVOC													
1,1'-Biphenyl	400	< 0.46	< 0.42	< 0.47	< 0.43	< 0.43	< 0.47	< 0.49	< 0.47	< 0.45	< 0.47	< 0.53	< 0.45
2,4,5-Trichlorophenol	700	< 1.4	< 1.3	< 1.5	< 1.4	< 1.3	< 1.5	< 1.5	< 1.5	< 1.4	< 1.5	< 1.7	< 1.4
2,4,6-Trichlorophenol	20	< 1.3	< 1.2	< 1.4	< 1.3	< 1.2	< 1.4	< 1.4	< 1.4	< 1.3	< 1.4	< 1.5	< 1.3
2,4-Dichlorophenol	20	< 1.3	< 1.2	< 1.4	< 1.3	< 1.2	< 1.4	< 1.4	< 1.4	< 1.3	< 1.4	< 1.5	< 1.3
2,4-Dimethylphenol	100	< 1.8	< 1.7	< 1.8	< 1.7	< 1.7	< 1.8	< 1.9	< 1.8	< 1.8	< 1.8	< 2.1	< 1.8
2,4-Dinitrophenol	40	< 0.8	< 0.74	< 0.82	< 0.76	< 0.75	< 0.82	< 0.86	< 0.82	< 0.79	< 0.82	< 0.92	< 0.79
2,4-Dinitrotoluene	NS	< 0.24	< 0.22	< 0.24	< 0.23	< 0.22	< 0.24	< 0.26	< 0.24	< 0.24	< 0.24	< 0.28	< 0.24
2,6-Dinitrotoluene	NS	< 0.35	< 0.33	< 0.36	< 0.34	< 0.33	< 0.36	< 0.38	< 0.36	< 0.35	< 0.36	< 0.41	< 0.35
2-Chloronaphthalene	600	< 0.45	< 0.42	< 0.46	< 0.43	< 0.42	< 0.46	< 0.48	< 0.46	< 0.45	< 0.46	< 0.52	< 0.45
2-Chlorophenol	40	< 1.2	< 1.1	< 1.2	< 1.1	< 1.1	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.3	< 1.2
2-Methylnaphthalene	NS	< 0.72	< 0.66	< 0.73	< 0.68	< 0.67	< 0.73	< 0.77	< 0.73	< 0.71	< 0.73	< 0.82	< 0.71
2-Methylphenol	NS	< 1.2	< 1.1	< 1.2	< 1.2	< 1.1	< 1.2	< 1.3	< 1.2	< 1.2	< 1.2	< 1.4	< 1.2
2-Nitroaniline	NS	< 0.26	< 0.24	< 0.26	< 0.24	< 0.24	< 0.26	< 0.27	< 0.26	< 0.25	< 0.26	< 0.29	< 0.25
2-Nitrophenol	NS	< 1.3	< 1.2	< 1.4	< 1.3	< 1.3	< 1.4	< 1.4	< 1.4	< 1.3	< 1.4	< 1.6	< 1.3
3&4-Methylphenol	NS	< 1.1	< 1	< 1.2	< 1.1	< 1.1	< 1.2	< 1.2	< 1.2	< 1.1	< 1.2	< 1.3	< 1.1
3,3'-Dichlorobenzidine	30	< 0.32	< 0.3	< 0.33	< 0.3	< 0.3	< 0.33	< 0.34	< 0.33	< 0.32	< 0.33	< 0.37	< 0.32
3-Nitroaniline	NS	< 0.31	< 0.29	< 0.32	< 0.3	< 0.29	< 0.32	< 0.33	< 0.32	< 0.31	< 0.32	< 0.36	< 0.31
4,6-Dinitro-2-methylphenol	NS	< 0.56	< 0.51	< 0.57	< 0.53	< 0.52	< 0.57	< 0.6	< 0.57	< 0.55	< 0.57	< 0.64	< 0.55
4-Bromophenyl phenyl ether	NS	< 0.38	< 0.35	< 0.39	< 0.36	< 0.36	< 0.39	< 0.41	< 0.39	< 0.38	< 0.39	< 0.44	< 0.38
4-Chloro-3-Methylphenol	NS	< 1.1	< 1.1	< 1.2	< 1.1	< 1.1	< 1.2	< 1.2	< 1.2	< 1.1	< 1.2	< 1.3	< 1.1
4-Chloroaniline	30	< 0.28	< 0.25	< 0.28	< 0.26	< 0.26	< 0.28	< 0.29	< 0.28	< 0.27	< 0.28	< 0.32	< 0.27
4-Chlorophenyl phenyl ether	NS	< 0.38	< 0.35	< 0.39	< 0.36	< 0.36	< 0.39	< 0.41	< 0.39	< 0.38	< 0.39	< 0.44	< 0.38
4-Nitroaniline	NS	< 0.19	< 0.18	< 0.2	< 0.18	< 0.18	< 0.2	< 0.21	< 0.2	< 0.19	< 0.2	< 0.22	< 0.19
4-Nitrophenol	NS	< 0.9	< 0.83	< 0.92	< 0.85	< 0.84	< 0.92	< 0.96	< 0.92	< 0.89	< 0.92	< 1	< 0.89
Acetophenone	700	< 0.43	< 0.4	< 0.44	< 0.41	< 0.41	< 0.44	< 0.46	< 0.44	< 0.43	< 0.44	< 0.5	< 0.43
Atrazine	3	< 0.43	< 0.39	< 0.43	< 0.4	< 0.4	< 0.43	< 0.45	< 0.43	< 0.42	< 0.43	< 0.49	< 0.42
Benzaldehyde	NS	< 0.44	< 0.4	< 0.45	< 0.42	< 0.41	< 0.45	< 0.47	< 0.45	< 0.43	< 0.45	< 0.51	< 0.43
Benzyl butyl phthalate	100	< 0.27	< 0.25	< 0.28	< 0.26	< 0.26	< 0.28	< 0.29	< 0.28	< 0.27	< 0.28	< 0.31	< 0.27
bis(2-Chloroethoxy)methane	NS	< 0.27	< 0.25	< 0.28	< 0.26	< 0.25	< 0.28	< 0.29	< 0.28	< 0.27	< 0.28	< 0.31	< 0.27
bis(2-Chloroethyl)ether	7	< 0.34	< 0.31	< 0.34	< 0.32	< 0.32	< 0.34	< 0.36	< 0.34	< 0.33	< 0.34	< 0.39	< 0.33
bis(2-Chloroisopropyl)ether	300	< 0.42	< 0.39	< 0.43	< 0.4	< 0.4	< 0.43	< 0.45	< 0.43	< 0.42	< 0.43	< 0.49	< 0.42
bis(2-Ethylhexyl)phthalate	3	< 0.36	1.5 JB	< 0.36	< 0.34	< 0.33	< 0.36	< 0.38	< 0.36	< 0.35	2.5	2.9	< 0.35
Caprolactam	NS	< 0.21	< 0.2	< 0.22	< 0.2	< 0.2	< 0.22	< 0.23	< 0.22	< 0.21	< 0.22	< 0.24	< 0.21
Carbazole	NS	< 0.18	< 0.17	< 0.18	< 0.17	< 0.17	< 0.18	< 0.19	< 0.18	< 0.18	< 0.18	< 0.21	< 0.18
Dibenzofuran	NS	< 0.33	< 0.3	< 0.34	< 0.31	< 0.31	< 0.34	< 0.35	< 0.34	< 0.33	< 0.34	< 0.38	< 0.33
Diethyl phthalate	6000	< 0.18	< 0.17	< 0.18	< 0.17	< 0.17	< 0.18	< 0.19	< 0.18	< 0.18	< 0.18	< 0.21	< 0.18
Dimethyl phthalate	NS	< 0.24	< 0.23	< 0.25	< 0.23	< 0.23	< 0.25	< 0.26	< 0.25	< 0.24	< 0.25	< 0.28	< 0.24
di-n-butyl phthalate	700	< 0.21	< 0.19	< 0.21	< 0.2	< 0.19	< 0.21	< 0.22	< 0.21	< 0.21	< 0.21	< 0.24	< 0.21
di-n-octylphthalate	100	< 0.43	< 0.4	< 0.44	< 0.41	< 0.4	< 0.44	< 0.46	< 0.44	< 0.42	< 0.44	< 0.49	< 0.42
Hexachlorobutadiene	1	< 0.4	< 0.37	< 0.41	< 0.38	< 0.38	< 0.41	< 0.43	< 0.41	< 0.4	< 0.41	< 0.47	< 0.4
Hexachlorocyclopentadiene	40	< 0.73	< 0.67	< 0.75	< 0.69	< 0.69	< 0.75	< 0.78	< 0.75	< 0.72	< 0.75	< 0.84	< 0.72
Hexachloroethane	7	< 0.29	< 0.26	< 0.29	< 0.27	< 0.27	< 0.29	< 0.31	< 0.29	< 0.28	< 0.29	< 0.33	< 0.28
Isophrone	40	< 0.27	< 0.25	< 0.28	< 0.26	< 0.25	< 0.28	< 0.29	< 0.28	< 0.27	< 0.28	< 0.31	< 0.27
Nitrobenzene	6	< 0.28	< 0.25	< 0.28	< 0.26	< 0.26	< 0.28	< 0.29	< 0.28	< 0.27	< 0.28	< 0.32	< 0.27
N-Nitroso-di-n-Propylamine	10	< 0.48	< 0.44	< 0.49	< 0.45	< 0.45	< 0.49	< 0.51	< 0.49	< 0.47	< 0.49	< 0.55	< 0.47
N-Nitrosodiphenylamine	10	< 0.23	0.4 J	< 0.24	< 0.22	< 0.22	< 0.24	< 0.25	< 0.24	< 0.23	< 0.24	< 0.27	< 0.23
Phenol	2000	< 0.63	< 0.58	< 0.64	< 0.59	< 0.59	< 0.64	< 0.67	< 0.64	< 0.62	< 0.64	< 0.72	< 0.62
Total TIC, Semi-Volatile	NS	37.4 J	12.6 J	33.6 J	0	100.6 J	13 J	23 J	5.5 J	0	0	0	38.8 J

Table 8. Summary of Ground Water Analytical Results, F

Location ID		**RW-5A**	**RW-6**	**RW-6A**	**RW-7**	**RW-8**	**RW-8**	**RW-8**	**RW-9**	**RW-9**	**RW-9**	**RW-9**	**RW-10**
Sample ID	**GWQS[1]**	**RW-5A(070709)**	**RW-6(070909)**	**RW-6A(070909)**	**RW-7(070709)**	**RW-8(42-62)**	**RW-8(158-178)**	**RW-8(199-219)**	**RW-9(20-40)**	**RW-9(80-100)**	**RW-9(134-154)**	**RW-9(201-221)**	**RW-10(22-42)**
Sample Date		**7/7/2009**	**7/9/2009**	**7/9/2009**	**7/7/2009**	**7/7/2009**	**7/7/2009**	**7/7/2009**	**7/15/2009**	**7/15/2009**	**7/16/2009**	**7/16/2009**	**7/8/2009**
Validation Status		**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**
SVOC BY SIM													
Acenaphthene	400	< 0.017	< 0.016	< 0.02	< 0.016	< 0.016	< 0.018	< 0.019	< 0.032	< 0.03	< 0.032	< 0.036	< 0.017
Acenaphthylene	NS	< 0.0076	< 0.007	< 0.0088	< 0.0072	< 0.0071	< 0.0078	< 0.0081	< 0.044	< 0.041	< 0.044	< 0.049	< 0.0075
Anthracene	2000	< 0.023	< 0.021	< 0.026	< 0.022	< 0.021	< 0.023	< 0.024	< 0.028	< 0.027	< 0.028	< 0.032	< 0.023
Benzo(a)anthracene	0.1 [0.2]	< 0.037	< 0.034	< 0.042	< 0.035	< 0.034	< 0.037	< 0.039	< 0.026	< 0.025	< 0.026	< 0.03	< 0.036
Benzo(a)pyrene	0.1 [0.2]	< 0.039	< 0.036	< 0.044	< 0.037	< 0.036	< 0.039	< 0.041	< 0.034	< 0.032	< 0.034	< 0.039	< 0.038
Benzo(b)fluoranthene	0.2 [10]	< 0.018	< 0.017	< 0.021	< 0.018	< 0.017	< 0.019	< 0.02	< 0.04	< 0.037	< 0.04	< 0.045	< 0.018
Benzo(g,h,i)perylene	NS	< 0.013	< 0.012	< 0.015	< 0.012	< 0.012	< 0.013	< 0.014	< 0.032	< 0.03	< 0.032	< 0.036	< 0.013
Benzo(k)fluoranthene	0.5	< 0.02	< 0.019	< 0.024	< 0.019	< 0.019	< 0.021	< 0.022	< 0.031	< 0.029	< 0.031	< 0.035	< 0.02
Chrysene	5	< 0.019	< 0.018	< 0.022	< 0.018	< 0.018	< 0.02	< 0.02	< 0.024	< 0.023	< 0.024	< 0.028	< 0.019
Dibenzo(a,h)anthracene	0.3 [0.5]	< 0.022	< 0.02	< 0.025	< 0.021	< 0.021	< 0.022	< 0.023	< 0.025	< 0.023	< 0.025	< 0.028	< 0.022
Fluoranthene	300	< 0.01	< 0.0096	< 0.012	< 0.0099	< 0.0098	< 0.011	< 0.011	< 0.027	< 0.025	< 0.027	< 0.03	< 0.01
Fluorene	300	< 0.021	< 0.02	< 0.025	< 0.02	< 0.02	< 0.022	< 0.023	< 0.03	< 0.028	< 0.03	< 0.034	< 0.021
Hexachlorobenzene	0.02 [10]	< 0.011	< 0.0099	< 0.012	< 0.01	< 0.01	< 0.011	< 0.012	< 0.011	< 0.01	< 0.011	< 0.012	< 0.011
Indeno(1,2,3-cd)pyrene	0.2 [10]	< 0.016	< 0.014	< 0.018	< 0.015	< 0.015	< 0.016	< 0.017	< 0.032	< 0.03	< 0.032	< 0.037	< 0.015
Naphthalene	300	< 0.015	< 0.014	1.79	< 0.014	< 0.014	< 0.015	< 0.016	< 0.021	< 0.019	< 0.021	< 0.023	< 0.015
Pentachlorophenol	0.3 [1]	< 0.24	< 0.22	< 0.28	< 0.23	< 0.23	< 0.25	< 0.26	< 0.25	< 0.23	< 0.25	< 0.28	< 0.24
Phenanthrene	NS	< 0.018	< 0.017	< 0.021	< 0.018	< 0.017	< 0.019	< 0.02	< 0.04	< 0.038	< 0.04	< 0.045	< 0.018
Pyrene	200	< 0.013	< 0.012	< 0.015	< 0.012	< 0.012	< 0.013	< 0.014	< 0.025	< 0.023	< 0.025	< 0.028	< 0.013
PCBs													
PCB 1016	0.5	< 0.19	< 0.19	< 0.22	< 0.19	< 0.19	< 0.24	< 0.24	< 0.52	< 0.51	< 0.2	< 0.24	< 0.2
PCB 1221	0.5	< 0.31	< 0.31	< 0.36	< 0.31	< 0.31	< 0.39	< 0.38	< 0.52	< 0.51	< 0.33	< 0.38	< 0.32
PCB 1232	0.5	< 0.21	< 0.21	< 0.24	< 0.21	< 0.21	< 0.26	< 0.26	< 0.52	< 0.51	< 0.22	< 0.26	< 0.22
PCB 1242	0.5	< 0.089	< 0.089	< 0.1	< 0.089	< 0.091	< 0.11	< 0.11	< 0.52	< 0.51	< 0.095	< 0.11	< 0.094
PCB 1248	0.5	< 0.25	< 0.25	< 0.3	< 0.25	< 0.26	< 0.32	< 0.32	< 0.52	< 0.51	< 0.27	< 0.32	< 0.27
PCB 1254	0.5	< 0.11	< 0.11	< 0.13	< 0.11	< 0.11	< 0.14	< 0.14	< 0.52	< 0.51	< 0.12	< 0.14	< 0.12
PCB 1260	0.5	< 0.14	< 0.14	< 0.17	< 0.14	< 0.15	< 0.18	< 0.18	< 0.52	< 0.51	< 0.15	< 0.18	< 0.15
Total PCBs	0.5	0	0	0	0	0	0	0	0	0	0	0	0
Metals - Total													
Aluminum	200	185 B	< 26	< 26	**4940**	36 B	116 B	107 B	< 26	< 26	110 B	50 B	104 B
Antimony	6	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Arsenic	3 [8]	< 2.4	**4.1**	2.7 B	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4
Barium	2000	13 B	272	19.6 B	6.7 B	11.3 B	15.3 B	20.9 B	3.2 B	2.7 B	7.7 B	5.6 B	7.7 B
Beryllium	1	< 0.4	0.8 B	0.9 B	0.6 B	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
Cadmium	4	0.8 B	< 0.4	< 0.4	2.3 B	2.8 B	1 B	1.1 B	< 0.4	< 0.4	< 0.4	< 0.4	0.9 B
Calcium	NS	27000	66900	70100	13500	16600	63600	68100	26600	33000	51200	51200	21100
Chromium	70	< 0.9	3.8 B	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	1.6 B	< 0.9	< 0.9
Cobalt	NS	< 0.4	6.1 B	9 B	< 0.4	0.6 B	< 0.4	< 0.4	< 0.4	< 0.4	0.4 B	< 0.4	< 0.4
Copper	1,300	1.9 B	2.2 B	2.8 B	11.9	2.5 B	< 1.6	1.8 B	5 B	< 1.6	< 1.6	< 1.6	2.1 B
Iron	300	**1420**	**37600**	**10000**	**2130**	**1570**	**759**	**895**	143	**317**	**1330**	**888**	269
Lead	5	< 1.7	< 1.7	< 1.7	**5.1**	**17.9**	**6**	2 B	2.8 B	< 1.7	**6.4**	< 1.7	< 1.7
Magnesium	NS	6610	10200	17500	5560	4710 B	15700	29100	4080 B	4460 B	9990	10800	7940
Manganese	50	**320**	**4860**	**10300**	**64.4**	**135**	**158**	**126**	15.3	10.4 B	**202**	**170**	11.8 B
Mercury	2	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049
Nickel	100	< 0.6	2.9 B	2.7 B	0.6 B	1 B	< 0.6	< 0.6	0.6 B	< 0.6	1 B	0.6 B	0.6 B
Potassium	NS	50400	8860 B	2780 B	1090 B	1750 B	2500 B	3690 B	1390 B	1470 B	3060 B	2490 B	1230 B
Selenium	40	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7
Silver	40	< 1	1.8 B	2.7 B	< 1	< 1	< 1	< 1	1.1 B	< 1	1 B	1 B	< 1
Sodium	50,000	36600	10700	7950 B	4250 B	5680 B	8710 B	26900	1990 B	1750 B	3120 B	3790 B	4770 B
Thallium	2 [10]	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Vanadium	NS	< 0.9	1 B	< 0.9	0.9 B	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	1.2 B	< 0.9	< 0.9
Zinc	2000	6.4 B	10.4 B	5.5 B	10.1 B	**9990**	1030	400	1100	701	1220	195	1020

Table 8. Summary of Ground Water Analytical Results, F

Location ID		**RW-5A**	**RW-6**	**RW-6A**	**RW-7**	**RW-8**	**RW-8**	**RW-8**	**RW-9**	**RW-9**	**RW-9**	**RW-9**	**RW-10**
Sample ID	**GWQS[1]**	**RW-5A(070709)**	**RW-6(070909)**	**RW-6A(070909)**	**RW-7(070709)**	**RW-8(42-62)**	**RW-8(158-178)**	**RW-8(199-219)**	**RW-9(20-40)**	**RW-9(80-100)**	**RW-9(134-154)**	**RW-9(201-221)**	**RW-10(22-42)**
Sample Date		**7/7/2009**	**7/9/2009**	**7/9/2009**	**7/7/2009**	**7/7/2009**	**7/7/2009**	**7/7/2009**	**7/15/2009**	**7/15/2009**	**7/16/2009**	**7/16/2009**	**7/8/2009**
Validation Status		**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**
Metals - Dissolved													
Aluminum	200	26.4 B	< 26	< 26	33.9 B	< 26	59.7 B	67.2 B	< 26	< 26	< 26	< 26	26.8 B
Antimony	6	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Arsenic	3 [8]	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4
Barium	2000	8.2 B	237	15.6 B	1.4 B	10.9 B	14.9 B	19.6 B	3.2 B	2.9 B	7.5 B	5.2 B	7 B
Beryllium	1	< 0.4	0.6 B	0.7 B	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
Cadmium	4	0.9 B	< 0.4	< 0.4	1.3 B	2.9 B	1.2 B	0.7 B	< 0.4	< 0.4	< 0.4	< 0.4	1 B
Calcium	NS	23700	64600	68100	11000	16500	64300	66400	26700	34100	48600	46800	20500
Chromium	70	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	1.1 B	< 0.9	< 0.9	2.7 B
Cobalt	NS	< 0.4	5.5 B	8.5 B	< 0.4	0.4 B	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
Copper	1,300	< 1.6	< 1.6	< 1.6	< 1.6	2.2 B	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	2.1 B
Iron	300	106	**27800**	**2760**	< 42	**653**	122	46.8 B	< 12	42.5 B	140	131	85.3 B
Lead	5	< 1.7	< 1.7	< 1.7	< 1.7	5	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
Magnesium	NS	6060	9900	16900	3940 B	4720 B	15700	28400	4120 B	4610 B	9850	10300	7450
Manganese	50	**244**	**4750**	**9960**	13 B	**137**	**158**	**121**	10.6 B	7.4 B	**119**	**135**	13.3 B
Mercury	2	< 0.049	< 0.049	< 0.049	0.056 B	< 0.049	< 0.049	< 0.049	< 0.049	0.15 B	< 0.049	0.071 B	< 0.049
Nickel	100	< 0.6	2.1 B	2.9 B	0.6 B	0.8 B	< 0.6	< 0.6	0.6 B	1.7 B	0.6 B	0.6 B	2.4 B
Potassium	NS	51500	8420 B	2590 B	1300 B	1760 B	2540 B	3930 B	1390 B	1500 B	3210 B	2530 B	1180 B
Selenium	40	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7
Silver	40	< 1	1.9 B	2.6 B	< 1	< 1	< 1	< 1	1 B	< 1	< 1	< 1	< 1
Sodium	50,000	37200	10400	7640 B	4610 B	5690 B	8860 B	26500	1990 B	1810 B	3120 B	3650 B	4570 B
Thallium	2 [10]	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Vanadium	NS	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9
Zinc	2000	4.1 B	66.6	7.7 B	7.3 B	**10100**	1010	248	1130	645	1000	139	1020
Other													
Alkalinity, total (as CaCO3)	NS	228000	279000	307000	41400	63500	192000	116000	90300	100000	173000	178000	38400
Chloride	250000	< 2000	3400	2100	< 2000	6100	42000	180000	< 2000	3300	2300	2300	2500
Sulfate	250000	18800	< 10000	< 10000	12500	14500	16800	17500	< 10000	< 10000	< 10000	< 10000	57100

Footnotes on page 33.

Table 8. Summary of Ground Water Analytical Results, F

Location ID		RW-10	RW-10	RW-10	RW-10	SC-01	SC-02	FB	FB	FB	FB	FB	FB	FB
Sample ID	GWQS[1]	RW-10(46-66)	RW-10(70-90)	RW-10(115-135)	RW-10(180-200)	SC-1(070909)	SC-2(063009)	FB(063009)	PFB(070109)	FB(070209)	PFB(070609)	FB(070709)	PFB(070809)	FB(070909)
Sample Date		7/9/2009	7/9/2009	7/9/2009	7/9/2009	7/9/2009	6/30/2009	6/30/2009	7/1/2009	7/2/2009	7/6/2009	7/7/2009	7/8/2009	7/9/2009
Validation Status		Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending
VOC														
1,1,1-Trichloroethane	30	< 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
1,1,2,2-Tetrachloroethane	1	< 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-Trichloroethane	3	< 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	50	< 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
1,1-Dichloroethene	1	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
1,2,4-Trichlorobenzene	9	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56
1,2-Dibromo-3-Chloropropane (DBCP)	0.02 [1]	< 1.1*	< 1.1*	< 1.1*	< 1.1*	< 1.1*	< 1.1*	< 1.1*	< 1.1*	< 1.1*	< 1.1*	< 1.1*	< 1.1*	< 1.1*
1,2-Dibromoethane	0.03 [0.5]	< 0.39*	< 0.39*	< 0.39*	< 0.39*	< 0.39*	< 0.39*	< 0.39*	< 0.39*	< 0.39*	< 0.39*	< 0.39*	< 0.39*	< 0.39*
1,2-Dichlorobenzene	600	< 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
1,2-Dichloroethane	2	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
1,2-Dichloropropane	1	< 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
1,3-Dichlorobenzene	600	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
1,4-Dichlorobenzene	75	< 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
2-Butanone (MEK)	300	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6
2-Hexanone	NS	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
4-methyl-2-pentanone (MIBK)	NS	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86
Acetone	6000	< 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
Benzene	1	< 0.23	< 0.23	< 0.23	< 0.23	0.94 J	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Bromodichloromethane	1	< 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
Bromoform	4	< 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
Bromomethane	10	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Carbon disulfide	700	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74
Carbon tetrachloride	1	< 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
Chlorobenzene	50	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39
Chloroethane	NS	< 0.37	< 0.37	< 0.37	< 0.37	0.64 J	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
Chloroform	70	< 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
Chloromethane	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
cis-1,2-Dichloroethene	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
cis-1,3-Dichloropropene	NS	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Cyclohexane	NS	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9
Dibromochloromethane	1	< 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
Dichlorodifluoromethane	1,000	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92
Ethylbenzene	700	< 0.27	< 0.27	< 0.27	< 0.27	2	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27
Freon 113	NS	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
Isopropylbenzene	700	< 0.57	< 0.57	< 0.57	< 0.57	1.4 J	< 0.57	< 0.57	< 0.57	< 0.57	< 0.57	< 0.57	< 0.57	< 0.57
Methyl acetate	7000	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Methyl tert butyl ether	70	< 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
Methylcyclohexane	NS	< 0.35	< 0.35	< 0.35	< 0.35	1.8 J	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
Methylene chloride	3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
o-Xylene	NS	< 0.25	< 0.25	< 0.25	< 0.25	3.2	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Styrene	100	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58
Tetrachloroethene	1	< 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
Toluene	1000	< 0.3	< 0.3	< 0.3	< 0.3	0.51 J	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Trans-1,2-dichloroethene	100	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
trans-1,3-Dichloropropene	NS	< 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
Trichloroethene	1	< 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
Trichlorofluoromethane	2000	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54
Vinyl Chloride	1	< 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
Xylene, -m,p	NS	< 0.25	< 0.25	< 0.25	< 0.25	26	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Xylenes	1,000	< 0.25	< 0.25	< 0.25	< 0.25	29.1	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Total TIC, Volatile	NS	0	0	0	0	30.3 J	0	0	0	0	0	0	0	0

Table 8. Summary of Ground Water Analytical Results, F

Location ID		RW-10	RW-10	RW-10	RW-10	SC-01	SC-02	FB	FB	FB	FB	FB	FB	FB
Sample ID	GWQS[1]	RW-10(46-66)	RW-10(70-90)	RW-10(115-135)	RW-10(180-200)	SC-1(070909)	SC-2(063009)	FB(063009)	PFB(070109)	FB(070209)	PFB(070609)	FB(070709)	PFB(070809)	FB(070909)
Sample Date		7/9/2009	7/9/2009	7/9/2009	7/9/2009	7/9/2009	6/30/2009	6/30/2009	7/1/2009	7/2/2009	7/6/2009	7/7/2009	7/8/2009	7/9/2009
Validation Status		Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending
SVOC														
1,1'-Biphenyl	400	< 0.45	< 0.47	< 0.5	< 0.47	< 0.42	< 0.47	< 0.42	< 0.47	< 0.42	< 0.42	< 0.42	< 0.43	< 0.42
2,4,5-Trichlorophenol	700	< 1.4	< 1.5	< 1.6	< 1.5	< 1.3	< 1.5	< 1.3	< 1.5	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3
2,4,6-Trichlorophenol	20	< 1.3	< 1.4	< 1.4	< 1.4	< 1.2	< 1.4	< 1.2	< 1.4	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
2,4-Dichlorophenol	20	< 1.3	< 1.4	< 1.4	< 1.4	< 1.2	< 1.4	< 1.2	< 1.4	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
2,4-Dimethylphenol	100	< 1.8	< 1.8	< 1.9	< 1.8	< 1.7	< 1.8	< 1.7	< 1.8	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
2,4-Dinitrophenol	40	< 0.79	< 0.82	< 0.87	< 0.82	< 0.74	< 0.82	< 0.74	< 0.82	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74
2,4-Dinitrotoluene	NS	< 0.24	< 0.24	< 0.26	< 0.24	< 0.22	< 0.24	< 0.22	< 0.24	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
2,6-Dinitrotoluene	NS	< 0.35	< 0.36	< 0.38	< 0.36	< 0.33	< 0.36	< 0.33	< 0.36	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
2-Chloronaphthalene	600	< 0.45	< 0.46	< 0.49	< 0.46	< 0.42	< 0.46	< 0.42	< 0.46	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42
2-Chlorophenol	40	< 1.2	< 1.2	< 1.3	< 1.2	< 1.1	< 1.2	< 1.1	< 1.2	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1
2-Methylnaphthalene	NS	< 0.71	< 0.73	< 0.77	< 0.73	< 0.66	< 0.73	< 0.66	< 0.73	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66
2-Methylphenol	NS	< 1.2	< 1.2	< 1.3	< 1.2	< 1.1	< 1.2	< 1.1	< 1.2	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1
2-Nitroaniline	NS	< 0.25	< 0.26	< 0.28	< 0.26	< 0.24	< 0.26	< 0.24	< 0.26	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
2-Nitrophenol	NS	< 1.3	< 1.4	< 1.5	< 1.4	< 1.2	< 1.4	< 1.2	< 1.4	< 1.2	< 1.2	< 1.2	< 1.3	< 1.2
3&4-Methylphenol	NS	< 1.1	< 1.2	< 1.2	< 1.2	< 1	< 1.2	< 1	< 1.2	< 1	< 1	< 1	< 1.1	< 1
3,3'-Dichlorobenzidine	30	< 0.32	< 0.33	< 0.35	< 0.33	< 0.3	< 0.33	< 0.3	< 0.33	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
3-Nitroaniline	NS	< 0.31	< 0.32	< 0.34	< 0.32	< 0.29	< 0.32	< 0.29	< 0.32	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29
4,6-Dinitro-2-methylphenol	NS	< 0.55	< 0.57	< 0.6	< 0.57	< 0.51	< 0.57	< 0.51	< 0.57	< 0.51	< 0.51	< 0.51	< 0.52	< 0.51
4-Bromophenyl phenyl ether	NS	< 0.38	< 0.39	< 0.41	< 0.39	< 0.35	< 0.39	< 0.35	< 0.39	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
4-Chloro-3-Methylphenol	NS	< 1.1	< 1.2	< 1.2	< 1.2	< 1.1	< 1.2	< 1.1	< 1.2	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1
4-Chloroaniline	30	< 0.27	< 0.28	< 0.3	< 0.28	< 0.25	< 0.28	< 0.25	< 0.28	< 0.25	< 0.25	< 0.25	< 0.26	< 0.25
4-Chlorophenyl phenyl ether	NS	< 0.38	< 0.39	< 0.42	< 0.39	< 0.35	< 0.39	< 0.35	< 0.39	< 0.35	< 0.35	< 0.35	< 0.36	< 0.35
4-Nitroaniline	NS	< 0.19	< 0.2	< 0.21	< 0.2	< 0.18	< 0.2	< 0.18	< 0.2	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
4-Nitrophenol	NS	< 0.89	< 0.92	< 0.97	< 0.92	< 0.83	< 0.92	< 0.83	< 0.92	< 0.83	< 0.83	< 0.83	< 0.84	< 0.83
Acetophenone	700	< 0.43	< 0.44	< 0.47	< 0.44	< 0.4	< 0.44	< 0.4	< 0.44	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
Atrazine	3	< 0.42	< 0.43	< 0.46	< 0.43	< 0.39	< 0.43	< 0.39	< 0.43	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39
Benzaldehyde	NS	< 0.43	< 0.45	< 0.48	< 0.45	< 0.4	< 0.45	< 0.4	< 0.45	< 0.4	< 0.4	< 0.4	< 0.41	< 0.4
Benzyl butyl phthalate	100	< 0.27	< 0.28	< 0.3	< 0.28	< 0.25	< 0.28	< 0.25	< 0.28	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
bis(2-Chloroethoxy)methane	NS	< 0.27	< 0.28	< 0.29	< 0.28	< 0.25	< 0.28	< 0.25	< 0.28	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
bis(2-Chloroethyl)ether	7	< 0.33	< 0.34	< 0.36	< 0.34	< 0.31	< 0.34	< 0.31	< 0.34	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
bis(2-Chloroisopropyl)ether	300	< 0.42	< 0.43	< 0.46	< 0.43	< 0.39	< 0.43	< 0.39	< 0.43	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39
bis(2-Ethylhexyl)phthalate	3	< 0.35	< 0.36	< 0.38	< 0.36	< 0.33	< 0.36	< 0.33	2.1 J	2.7	< 0.33	< 0.33	2.1	< 0.33
Caprolactam	NS	< 0.21	< 0.22	< 0.23	< 0.22	< 0.2	< 0.22	< 0.2	< 0.22	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Carbazole	NS	< 0.18	< 0.18	< 0.19	< 0.18	< 0.17	< 0.18	< 0.17	< 0.18	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Dibenzofuran	NS	< 0.33	< 0.34	< 0.36	< 0.34	< 0.3	< 0.34	< 0.3	< 0.34	< 0.3	< 0.3	< 0.3	< 0.31	< 0.3
Diethyl phthalate	6000	< 0.18	< 0.18	< 0.19	< 0.18	< 0.17	< 0.18	< 0.17	< 0.18	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Dimethyl phthalate	NS	< 0.24	< 0.25	< 0.26	< 0.25	< 0.23	< 0.25	< 0.23	< 0.25	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
di-n-butyl phthalate	700	< 0.21	< 0.21	< 0.22	< 0.21	< 0.19	< 0.21	< 0.19	< 0.21	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
di-n-octylphthalate	100	< 0.42	< 0.44	< 0.46	< 0.44	< 0.4	< 0.44	< 0.4	< 0.44	1.9 J	< 0.4	< 0.4	< 0.4	< 0.4
Hexachlorobutadiene	1	< 0.4	< 0.41	< 0.44	< 0.41	< 0.37	< 0.41	< 0.37	< 0.41	< 0.37	< 0.37	< 0.37	< 0.38	< 0.37
Hexachlorocyclopentadiene	40	< 0.72	< 0.75	< 0.79	< 0.75	< 0.67	< 0.75	< 0.67	< 0.75	< 0.67	< 0.67	< 0.67	< 0.68	< 0.67
Hexachloroethane	7	< 0.28	< 0.29	< 0.31	< 0.29	< 0.26	< 0.29	< 0.26	< 0.29	< 0.26	< 0.26	< 0.26	< 0.27	< 0.26
Isophrone	40	< 0.27	< 0.28	< 0.29	< 0.28	< 0.25	< 0.28	< 0.25	< 0.28	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Nitrobenzene	6	< 0.27	< 0.28	< 0.3	< 0.28	< 0.25	< 0.28	< 0.25	< 0.28	< 0.25	< 0.25	< 0.25	< 0.26	< 0.25
N-Nitroso-di-n-Propylamine	10	< 0.47	< 0.49	< 0.52	< 0.49	< 0.44	< 0.49	< 0.44	< 0.49	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
N-Nitrosodiphenylamine	10	< 0.23	< 0.24	< 0.25	< 0.24	< 0.22	< 0.24	< 0.22	< 0.24	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Phenol	2000	< 0.62	< 0.64	< 0.68	< 0.64	< 0.58	< 0.64	< 0.58	< 0.64	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58
Total TIC, Semi-Volatile	NS	0	36 J	27 J	21.5 J	20.7 J	0	0	0	0	0	0	4.3 J	0

Table 8. Summary of Ground Water Analytical Results, F

Location ID		RW-10	RW-10	RW-10	RW-10	SC-01	SC-02	FB	FB	FB	FB	FB	FB	FB
Sample ID	GWQS[1]	RW-10(46-66)	RW-10(70-90)	RW-10(115-135)	RW-10(180-200)	SC-1(070909)	SC-2(063009)	FB(063009)	PFB(070109)	FB(070209)	PFB(070609)	FB(070709)	PFB(070809)	FB(070909)
Sample Date		7/9/2009	7/9/2009	7/9/2009	7/9/2009	7/9/2009	6/30/2009	6/30/2009	7/1/2009	7/2/2009	7/6/2009	7/7/2009	7/8/2009	7/9/2009
Validation Status		Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending
SVOC BY SIM														
Acenaphthene	400	< 0.018	< 0.018	< 0.019	< 0.018	< 0.016	< 0.017	< 0.016	< 0.018	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016
Acenaphthylene	NS	< 0.0078	< 0.0078	< 0.0082	< 0.0078	< 0.007	< 0.0076	< 0.007	< 0.0078	< 0.007	< 0.007	< 0.007	< 0.0071	< 0.007
Anthracene	2000	< 0.023	< 0.023	< 0.025	< 0.023	< 0.021	< 0.023	< 0.021	< 0.023	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021
Benzo(a)anthracene	0.1 [0.2]	< 0.037	< 0.037	< 0.04	< 0.037	< 0.034	< 0.037	< 0.034	< 0.037	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034
Benzo(a)pyrene	0.1 [0.2]	< 0.039	< 0.039	< 0.042	< 0.039	< 0.036	< 0.039	< 0.036	< 0.039	< 0.036	< 0.036	< 0.036	< 0.036	< 0.036
Benzo(b)fluoranthene	0.2 [10]	< 0.019	< 0.019	< 0.02	< 0.019	< 0.017	< 0.018	< 0.017	< 0.019	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017
Benzo(g,h,i)perylene	NS	< 0.013	< 0.013	< 0.014	< 0.013	< 0.012	< 0.013	< 0.012	< 0.013	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Benzo(k)fluoranthene	0.5	< 0.021	< 0.021	< 0.022	< 0.021	< 0.019	< 0.02	< 0.019	< 0.021	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019
Chrysene	5	< 0.02	< 0.02	< 0.021	< 0.02	< 0.018	< 0.019	< 0.018	< 0.02	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018
Dibenzo(a,h)anthracene	0.3 [0.5]	< 0.022	< 0.022	< 0.024	< 0.022	< 0.02	< 0.022	< 0.02	< 0.022	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Fluoranthene	300	< 0.011	< 0.011	< 0.011	< 0.011	< 0.0096	< 0.01	< 0.0096	< 0.011	< 0.0096	< 0.0096	< 0.0096	< 0.0097	< 0.0096
Fluorene	300	< 0.022	< 0.022	< 0.023	< 0.022	< 0.02	< 0.021	< 0.02	< 0.022	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Hexachlorobenzene	0.02 [10]	< 0.011	< 0.011	< 0.012	< 0.011	< 0.0099	< 0.011	< 0.0099	< 0.011	< 0.0099	< 0.0099	< 0.0099	< 0.01	< 0.0099
Indeno(1,2,3-cd)pyrene	0.2 [10]	< 0.016	< 0.016	< 0.017	< 0.016	< 0.014	< 0.016	< 0.014	< 0.016	< 0.014	< 0.014	< 0.014	< 0.015	< 0.014
Naphthalene	300	< 0.015	< 0.015	< 0.016	< 0.015	4.56	< 0.015	< 0.014	< 0.015	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014
Pentachlorophenol	0.3 [1]	< 0.25	< 0.25	< 0.26	< 0.25	< 0.22	< 0.24	< 0.22	< 0.25	< 0.22	< 0.22	< 0.22	< 0.23	< 0.22
Phenanthrene	NS	< 0.019	< 0.019	< 0.02	< 0.019	< 0.017	< 0.018	< 0.017	< 0.019	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017
Pyrene	200	< 0.013	< 0.013	< 0.014	< 0.013	< 0.012	< 0.013	< 0.012	< 0.013	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
PCBs														
PCB 1016	0.5	< 0.22	< 0.22	< 0.22	< 0.21	< 0.19	< 0.19	< 0.19	< 0.21	< 0.19	< 0.19	< 0.19	< 0.22	< 0.19
PCB 1221	0.5	< 0.36	< 0.35	< 0.35	< 0.34	< 0.31	< 0.31	< 0.31	< 0.34	< 0.31	< 0.31	< 0.31	< 0.36	< 0.31
PCB 1232	0.5	< 0.24	< 0.24	< 0.24	< 0.23	< 0.21	< 0.21	< 0.21	< 0.23	< 0.21	< 0.21	< 0.21	< 0.24	< 0.21
PCB 1242	0.5	< 0.1	< 0.1	< 0.1	< 0.1	< 0.089	< 0.091	< 0.089	< 0.099	< 0.089	< 0.089	< 0.089	< 0.1	< 0.089
PCB 1248	0.5	< 0.3	< 0.29	< 0.29	< 0.29	< 0.25	< 0.26	< 0.25	< 0.28	< 0.25	< 0.25	< 0.25	< 0.3	< 0.25
PCB 1254	0.5	< 0.13	< 0.13	< 0.13	< 0.12	< 0.11	< 0.11	< 0.11	< 0.12	< 0.11	< 0.11	< 0.11	< 0.13	< 0.11
PCB 1260	0.5	< 0.17	< 0.16	< 0.16	< 0.16	< 0.14	< 0.15	< 0.14	< 0.16	< 0.14	< 0.14	< 0.14	< 0.17	< 0.14
Total PCBs	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0
Metals - Total														
Aluminum	200	36.9 B	37.5 B	**254**	**226**	90.6 B	26.9 B	< 26	< 26	< 26	< 26	< 26	< 26	< 26
Antimony	6	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Arsenic	3 [8]	< 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
Barium	2000	7.4 B	7.2 B	8 B	8.8 B	194 B	38.8 B	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3
Beryllium	1	0.4 B	0.4 B	0.5 B	0.5 B	< 0.4	0.6 B	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
Cadmium	4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	0.4 B	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
Calcium	NS	20400	20600	20800	56900	21300	61300	< 49	< 49	53.5 B	< 49	< 49	< 49	< 49
Chromium	70	< 0.9	< 0.9	1 B	1.6 B	3.7 B	3.2 B	1.8 B	8.1 B	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9
Cobalt	NS	0.4 B	0.4 B	0.6 B	1 B	1.8 B	3.2 B	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
Copper	1,300	< 1.6	< 1.6	2.4 B	< 1.6	3.4 B	4.4 B	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 2	< 1.6
Iron	300	**1090**	**1620**	**1540**	**1410**	**33100**	**551**	24.6 B	34.3 B	17.5 B	< 12	< 42	61 B	< 12
Lead	5	< 1.7	< 1.7	< 1.7	< 1.7	**7.2**	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
Magnesium	NS	7860	7880	8180	13100	2500 B	14100	< 37	< 37	53.8 B	< 37	< 37	< 37	< 37
Manganese	50	12.7 B	16.9	21.4	**309**	**343**	**227**	< 0.5	0.9 B	< 0.5	< 0.5	< 0.5	0.9 B	< 0.5
Mercury	2	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049
Nickel	100	1.2 B	1.4 B	1.1 B	1.6 B	4.7 B	5 B	< 0.6	5.4 B	1.3 B	< 0.6	< 0.6	4.9 B	< 0.6
Potassium	NS	1300 B	1210 B	1290 B	3250 B	1720 B	3370 B	< 170	< 170	< 170	< 170	< 170	< 170	< 170
Selenium	40	5.5 B	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	4.9 B	< 3.7
Silver	40	< 1	1.1 B	1.1 B	1.1 B	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Sodium	50,000	4530 B	4510 B	4620 B	5930 B	2740 B	8410 B	34.7 B	< 19	76.7 B	75.9 B	< 19	40.1 B	< 19
Thallium	2 [10]	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	1.5 B	< 1.5	1.9 B	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Vanadium	NS	< 0.9	< 0.9	< 0.9	< 0.9	2.5 B	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9
Zinc	2000	**7170**	**5610**	**3300**	1270	116	39.5	< 2.9	< 2.9	8.5 B	< 2.9	< 3.5	< 2.9	< 2.9

Table 8. Summary of Ground Water Analytical Results, F

Location ID		**RW-10**	**RW-10**	**RW-10**	**RW-10**	**SC-01**	**SC-02**	**FB**	**FB**	**FB**	**FB**	**FB**	**FB**	**FB**
Sample ID	**GWQS[1]**	**RW-10(46-66)**	**RW-10(70-90)**	**RW-10(115-135)**	**RW-10(180-200)**	**SC-1(070909)**	**SC-2(063009)**	**FB(063009)**	**PFB(070109)**	**FB(070209)**	**PFB(070609)**	**FB(070709)**	**PFB(070809)**	**FB(070909)**
Sample Date		**7/9/2009**	**7/9/2009**	**7/9/2009**	**7/9/2009**	**7/9/2009**	**6/30/2009**	**6/30/2009**	**7/1/2009**	**7/2/2009**	**7/6/2009**	**7/7/2009**	**7/8/2009**	**7/9/2009**
Validation Status		**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**
Metals - Dissolved														
Aluminum	200	< 26	< 26	< 26	< 26	< 26	< 26	NA	NA	NA	NA	NA	NA	NA
Antimony	6	< 4	< 4	< 4	< 4	< 4	< 4	NA	NA	NA	NA	NA	NA	NA
Arsenic	3 [8]	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	NA	NA	NA	NA	NA	NA	NA
Barium	2000	6.8 B	7.2 B	7.3 B	10.2 B	184 B	38.1 B	NA	NA	NA	NA	NA	NA	NA
Beryllium	1	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	0.6 B	NA	NA	NA	NA	NA	NA	NA
Cadmium	4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	NA	NA	NA	NA	NA	NA	NA
Calcium	NS	20700	19900	21400	57200	21100	62100	NA	NA	NA	NA	NA	NA	NA
Chromium	70	< 0.9	2.3 B	3.2 B	0.9 B	1.1 B	1.1 B	NA	NA	NA	NA	NA	NA	NA
Cobalt	NS	< 0.4	< 0.4	< 0.4	0.8 B	1.7 B	1.9 B	NA	NA	NA	NA	NA	NA	NA
Copper	1,300	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	3.6 B	NA	NA	NA	NA	NA	NA	NA
Iron	300	202	**524**	293	**409**	**27300**	34.1 B	NA	NA	NA	NA	NA	NA	NA
Lead	5	< 1.7	< 1.7	< 1.7	< 1.7	1.7 B	< 1.7	NA	NA	NA	NA	NA	NA	NA
Magnesium	NS	7970	7600	8250	12900	2450 B	14300	NA	NA	NA	NA	NA	NA	NA
Manganese	50	12.5 B	17.8	13.4 B	**307**	**344**	**183**	NA	NA	NA	NA	NA	NA	NA
Mercury	2	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	NA	NA	NA	NA	NA	NA	NA
Nickel	100	0.9 B	1.2 B	1.1 B	1.4 B	4.5 B	3.8 B	NA	NA	NA	NA	NA	NA	NA
Potassium	NS	1240 B	1180 B	1240 B	3190 B	1690 B	3540 B	NA	NA	NA	NA	NA	NA	NA
Selenium	40	5.6 B	4.5 B	< 3.7	< 3.7	< 3.7	< 3.7	NA	NA	NA	NA	NA	NA	NA
Silver	40	1.1 B	< 1	1 B	1.3 B	< 1	< 1	NA	NA	NA	NA	NA	NA	NA
Sodium	50,000	4520 B	4680 B	4820 B	5980 B	2780 B	8960 B	NA	NA	NA	NA	NA	NA	NA
Thallium	2 [10]	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	1.9 B	NA	NA	NA	NA	NA	NA	NA
Vanadium	NS	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	NA	NA	NA	NA	NA	NA	NA
Zinc	2000	**7290**	**5480**	**3450**	1200	17.2 B	37.4	NA	NA	NA	NA	NA	NA	NA
Other														
Alkalinity, total (as CaCO3)	NS	47200	44900	41400	161000	189000	203000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000
Chloride	250000	2500	2500	2500	3400	< 2000	18400	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000
Sulfate	250000	59100	58700	59400	64600	< 10000	33500	< 10000	< 10000	< 10000	< 10000	< 10000	< 10000	< 10000

Footnotes on page 33.

Table 8. Summary of Ground Water Analytical Results, F

Location ID		FB	FB	FB	FB	FB	FB	TB	TB	TB	TB	TB	TB	TB	TB
Sample ID	GWQS[1]	FB(071009)	PFB(071309)	PFB(071409)	PFB(071509)	PFB(071609)	PFB(071709)	TB(063009)	TB(070109)	TP(070209)	TB(070609)	TB(070709)	TB(070809)	TB-(070909)	TB 7.13.09
Sample Date		7/10/2009	7/13/2009	7/14/2009	7/15/2009	7/16/2009	7/17/2009	6/30/2009	7/1/2009	7/2/2009	7/6/2009	7/7/2009	7/8/2009	7/10/2009	7/13/2009
Validation Status		Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending
VOC															
1,1,1-Trichloroethane	30	< 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
1,1,2,2-Tetrachloroethane	1	< 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-Trichloroethane	3	< 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	50	< 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
1,1-Dichloroethene	1	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
1,2,4-Trichlorobenzene	9	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56
1,2-Dibromo-3-Chloropropane (DBCP)	0.02 [1]	< 1.1*	< 1.1*	< 1.1*	< 1.1*	< 1.1*	< 1.1*	< 1.1*	< 1.1*	< 1.1*	< 1.1*	< 1.1*	< 1.1*	< 1.1*	< 1.1*
1,2-Dibromoethane	0.03 [0.5]	< 0.39*	< 0.39*	< 0.39*	< 0.39*	< 0.39*	< 0.39*	< 0.39*	< 0.39*	< 0.39*	< 0.39*	< 0.39*	< 0.39*	< 0.39*	< 0.39*
1,2-Dichlorobenzene	600	< 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
1,2-Dichloroethane	2	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
1,2-Dichloropropane	1	< 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
1,3-Dichlorobenzene	600	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
1,4-Dichlorobenzene	75	< 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
2-Butanone (MEK)	300	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6
2-Hexanone	NS	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
4-methyl-2-pentanone (MIBK)	NS	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86
Acetone	6000	< 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
Benzene	1	< 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
Bromodichloromethane	1	< 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
Bromoform	4	< 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
Bromomethane	10	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Carbon disulfide	700	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74
Carbon tetrachloride	1	< 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
Chlorobenzene	50	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39
Chloroethane	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	70	< 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
Chloromethane	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
cis-1,2-Dichloroethene	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	NS	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Cyclohexane	NS	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9
Dibromochloromethane	1	< 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
Dichlorodifluoromethane	1,000	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92
Ethylbenzene	700	< 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
Freon 113	NS	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
Isopropylbenzene	700	< 0.57	< 0.57	< 0.57	< 0.57	< 0.57	< 0.57	< 0.57	< 0.57	< 0.57	< 0.57	< 0.57	< 0.57	< 0.57	< 0.57
Methyl acetate	7000	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Methyl tert butyl ether	70	< 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
Methylcyclohexane	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
Methylene chloride	3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
o-Xylene	NS	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Styrene	100	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58
Tetrachloroethene	1	< 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
Toluene	1000	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Trans-1,2-dichloroethene	100	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
trans-1,3-Dichloropropene	NS	< 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
Trichloroethene	1	< 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
Trichlorofluoromethane	2000	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54
Vinyl Chloride	1	< 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	< 0.44
Xylene, -m,p	NS	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Xylenes	1,000	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Total TIC, Volatile	NS	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 8. Summary of Ground Water Analytical Results, F

Location ID	GWQS[1]	FB	FB	FB	FB	FB	FB	TB	TB	TB	TB	TB	TB	TB	TB
Sample ID		FB(071009)	PFB(071309)	PFB(071409)	PFB(071509)	PFB(071609)	PFB(071709)	TB(063009)	TB(070109)	TP(070209)	TB(070609)	TB(070709)	TB(070809)	TB-(070909)	TB 7.13.09
Sample Date		7/10/2009	7/13/2009	7/14/2009	7/15/2009	7/16/2009	7/17/2009	6/30/2009	7/1/2009	7/2/2009	7/6/2009	7/7/2009	7/8/2009	7/10/2009	7/13/2009
Validation Status		Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending
SVOC															
1,1'-Biphenyl	400	< 0.42	< 0.42	< 0.47	< 0.42	< 0.48	< 0.42	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	700	< 1.3	< 1.3	< 1.5	< 1.3	< 1.5	< 1.3	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	20	< 1.2	< 1.2	< 1.4	< 1.2	< 1.4	< 1.2	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	20	< 1.2	< 1.2	< 1.4	< 1.2	< 1.4	< 1.2	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	100	< 1.7	< 1.7	< 1.8	< 1.7	< 1.9	< 1.7	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	40	< 0.74	< 0.74	< 0.82	< 0.74	< 0.84	< 0.74	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	NS	< 0.22	< 0.22	< 0.24	< 0.22	< 0.25	< 0.22	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	NS	< 0.33	< 0.33	< 0.36	< 0.33	< 0.37	< 0.33	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	600	< 0.42	< 0.42	< 0.46	< 0.42	< 0.47	< 0.42	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	40	< 1.1	< 1.1	< 1.2	< 1.1	< 1.2	< 1.1	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NS	< 0.66	< 0.66	< 0.73	< 0.66	< 0.75	< 0.66	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	NS	< 1.1	< 1.1	< 1.2	< 1.1	< 1.3	< 1.1	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	NS	< 0.24	< 0.24	< 0.26	< 0.24	< 0.27	< 0.24	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	NS	< 1.2	< 1.2	< 1.4	< 1.2	< 1.4	< 1.2	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	NS	< 1	< 1	< 1.2	< 1	< 1.2	< 1	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	30	< 0.3	< 0.3	< 0.33	< 0.3	< 0.34	< 0.3	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	NS	< 0.29	< 0.29	< 0.32	< 0.29	< 0.33	< 0.29	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	NS	< 0.51	< 0.51	< 0.57	< 0.51	< 0.58	< 0.51	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	NS	< 0.35	< 0.35	< 0.39	< 0.35	< 0.4	< 0.35	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	NS	< 1.1	< 1.1	< 1.2	< 1.1	< 1.2	< 1.1	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	30	< 0.25	< 0.25	< 0.28	< 0.25	< 0.29	< 0.25	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	NS	< 0.35	< 0.35	< 0.39	< 0.35	< 0.4	< 0.35	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	NS	< 0.18	< 0.18	< 0.2	< 0.18	< 0.2	< 0.18	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	NS	< 0.83	< 0.83	< 0.92	< 0.83	< 0.94	< 0.83	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	700	< 0.4	< 0.4	< 0.44	< 0.4	< 0.45	< 0.4	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	3	< 0.39	< 0.39	< 0.43	< 0.39	< 0.44	< 0.39	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	NS	< 0.4	< 0.4	< 0.45	< 0.4	< 0.46	< 0.4	NA	NA	NA	NA	NA	NA	NA	NA
Benzyl butyl phthalate	100	< 0.25	< 0.25	< 0.28	< 0.25	< 0.29	< 0.25	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	NS	< 0.25	< 0.25	< 0.28	< 0.25	< 0.28	< 0.25	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	7	< 0.31	< 0.31	< 0.34	< 0.31	< 0.35	< 0.31	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroisopropyl)ether	300	< 0.39	< 0.39	< 0.43	< 0.39	< 0.44	< 0.39	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	3	1.3 JB	< 0.33	1.4 J	< 0.33	< 0.37	< 0.33	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	NS	< 0.2	< 0.2	< 0.22	< 0.2	< 0.22	< 0.2	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	NS	< 0.17	< 0.17	< 0.18	< 0.17	< 0.19	< 0.17	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NS	< 0.3	< 0.3	< 0.34	< 0.3	< 0.35	< 0.3	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	6000	< 0.17	< 0.17	< 0.18	< 0.17	< 0.19	< 0.17	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	NS	< 0.23	< 0.23	< 0.25	< 0.23	< 0.26	< 0.23	NA	NA	NA	NA	NA	NA	NA	NA
di-n-butyl phthalate	700	< 0.19	< 0.19	< 0.21	< 0.19	< 0.22	< 0.19	NA	NA	NA	NA	NA	NA	NA	NA
di-n-octylphthalate	100	< 0.4	< 0.4	< 0.44	< 0.4	< 0.45	< 0.4	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	1	< 0.37	< 0.37	< 0.41	< 0.37	< 0.42	< 0.37	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	40	< 0.67	< 0.67	< 0.75	< 0.67	< 0.76	< 0.67	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	7	< 0.26	< 0.26	< 0.29	< 0.26	< 0.3	< 0.26	NA	NA	NA	NA	NA	NA	NA	NA
Isophrone	40	< 0.25	< 0.25	< 0.28	< 0.25	< 0.28	< 0.25	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	6	< 0.25	< 0.25	< 0.28	< 0.25	< 0.29	< 0.25	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-Propylamine	10	< 0.44	< 0.44	< 0.49	< 0.44	< 0.5	< 0.44	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	10	< 0.22	< 0.22	< 0.24	< 0.22	< 0.24	< 0.22	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	2000	< 0.58	< 0.58	< 0.64	< 0.58	< 0.66	< 0.58	NA	NA	NA	NA	NA	NA	NA	NA
Total TIC, Semi-Volatile	NS	0	0	0	0	0	0	NA	NA	NA	NA	NA	NA	NA	NA

Table 8. Summary of Ground Water Analytical Results, F

Location ID	GWQS[1]	FB	FB	FB	FB	FB	FB	TB	TB	TB	TB	TB	TB	TB	TB
Sample ID		FB(071009)	PFB(071309)	PFB(071409)	PFB(071509)	PFB(071609)	PFB(071709)	TB(063009)	TB(070109)	TP(070209)	TB(070609)	TB(070709)	TB(070809)	TB-(070909)	TB 7.13.09
Sample Date		7/10/2009	7/13/2009	7/14/2009	7/15/2009	7/16/2009	7/17/2009	6/30/2009	7/1/2009	7/2/2009	7/6/2009	7/7/2009	7/8/2009	7/10/2009	7/13/2009
Validation Status		Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending	Pending
SVOC BY SIM															
Acenaphthene	400	< 0.016	< 0.029	< 0.018	< 0.029	< 0.033	0.201	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	NS	< 0.007	< 0.039	< 0.0078	< 0.039	< 0.045	< 0.039	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	2000	< 0.021	< 0.026	< 0.023	< 0.026	< 0.029	< 0.026	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	0.1 [0.2]	< 0.034	< 0.024	< 0.037	< 0.024	< 0.027	< 0.024	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	0.1 [0.2]	< 0.036	< 0.031	< 0.039	< 0.031	< 0.035	< 0.031	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	0.2 [10]	< 0.017	< 0.036	< 0.019	< 0.036	< 0.041	< 0.036	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	NS	< 0.012	< 0.029	< 0.013	< 0.029	< 0.033	< 0.029	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	0.5	< 0.019	< 0.028	< 0.021	< 0.028	< 0.032	< 0.028	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	5	< 0.018	< 0.022	< 0.02	< 0.022	< 0.025	< 0.022	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	0.3 [0.5]	< 0.02	< 0.023	< 0.022	< 0.023	< 0.026	< 0.023	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	300	< 0.0096	< 0.024	< 0.011	< 0.024	< 0.028	< 0.024	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	300	< 0.02	< 0.027	< 0.022	< 0.027	< 0.031	0.189	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.02 [10]	< 0.0099	< 0.0099	< 0.011	< 0.0099	< 0.011	< 0.0099	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	0.2 [10]	< 0.014	< 0.029	< 0.016	< 0.029	< 0.033	< 0.029	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	300	< 0.014	< 0.019	< 0.015	< 0.019	< 0.021	0.18	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	0.3 [1]	< 0.22	< 0.22	< 0.25	< 0.22	< 0.25	< 0.22	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	NS	< 0.017	< 0.036	< 0.019	< 0.036	< 0.041	0.286	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	200	< 0.012	< 0.022	< 0.013	< 0.022	< 0.025	< 0.022	NA	NA	NA	NA	NA	NA	NA	NA
PCBs															
PCB 1016	0.5	< 0.19	< 0.56	< 0.54	< 0.52	< 0.2	< 0.19	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1221	0.5	< 0.31	< 0.56	< 0.54	< 0.52	< 0.33	< 0.31	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1232	0.5	< 0.21	< 0.56	< 0.54	< 0.52	< 0.22	< 0.21	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1242	0.5	< 0.089	< 0.56	< 0.54	< 0.52	< 0.095	< 0.089	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1248	0.5	< 0.25	< 0.56	< 0.54	< 0.52	< 0.27	< 0.25	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1254	0.5	< 0.11	< 0.56	< 0.54	< 0.52	< 0.12	< 0.11	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1260	0.5	< 0.14	< 0.56	< 0.54	< 0.52	< 0.15	< 0.14	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	0.5	0	0	0	0	0	0	NA	NA	NA	NA	NA	NA	NA	NA
Metals - Total															
Aluminum	200	< 26	63.1 B	< 26	< 26	< 26	< 26	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	6	< 4	< 4	< 4	< 4	< 4	< 4	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	3 [8]	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	NA	NA	NA	NA	NA	NA	NA	NA
Barium	2000	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	1	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NS	< 49	< 49	133 B	96.4 B	< 49	< 49	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	70	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NS	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	NA	NA	NA	NA	NA	NA	NA	NA
Copper	1,300	< 2	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	< 12	< 12	< 42	60.3 B	< 12	< 12	NA	NA	NA	NA	NA	NA	NA	NA
Lead	5	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	NS	< 37	< 37	< 37	< 37	< 37	< 37	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	50	< 0.5	0.5 B	7.8 B	0.8 B	< 0.5	< 0.5	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	2	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NS	< 170	< 170	< 170	< 170	< 170	< 170	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	40	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	NA	NA	NA	NA	NA	NA	NA	NA
Silver	40	< 1	< 1	< 1	< 1	< 1	< 1	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	50,000	23.3 B	97.3 B	145 B	24 B	< 19	< 19	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	2 [10]	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NS	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2000	< 2.9	< 2.9	48.5	7.9 B	3 B	< 2.9	NA	NA	NA	NA	NA	NA	NA	NA

Table 8. Summary of Ground Water Analytical Results, F

Location ID		**FB**	**FB**	**FB**	**FB**	**FB**	**FB**	**TB**	**TB**	**TB**	**TB**	**TB**	**TB**	**TB**	**TB**
Sample ID	**GWQS[1]**	**FB(071009)**	**PFB(071309)**	**PFB(071409)**	**PFB(071509)**	**PFB(071609)**	**PFB(071709)**	**TB(063009)**	**TB(070109)**	**TP(070209)**	**TB(070609)**	**TB(070709)**	**TB(070809)**	**TB-(070909)**	**TB 7.13.09**
Sample Date		**7/10/2009**	**7/13/2009**	**7/14/2009**	**7/15/2009**	**7/16/2009**	**7/17/2009**	**6/30/2009**	**7/1/2009**	**7/2/2009**	**7/6/2009**	**7/7/2009**	**7/8/2009**	**7/10/2009**	**7/13/2009**
Validation Status		**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**	**Pending**
Metals - Dissolved															
Aluminum	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	3 [8]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	70	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	50,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	2 [10]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other															
Alkalinity, total (as CaCO3)	NS	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	250000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	250000	< 10000	< 10000	< 10000	< 10000	< 10000	< 10000	NA	NA	NA	NA	NA	NA	NA	NA

Footnotes on page 33.

Table 8. Summary of Ground Water Analytical Results, F

Location ID		TB	TB	TB
Sample ID	GWQS[1]	TB(7/14/2009)	TB (7/15/2009)	TRIP BLANK
Sample Date		7/14/2009	7/15/2009	7/17/2009
Validation Status		Pending	Pending	Pending
VOC				
1,1,1-Trichloroethane	30	< 0.26	< 0.26	< 0.26
1,1,2,2-Tetrachloroethane	1	< 0.24	< 0.24	< 0.24
1,1,2-Trichloroethane	3	< 0.23	< 0.23	< 0.23
1,1-Dichloroethane	50	< 0.29	< 0.29	< 0.29
1,1-Dichloroethene	1	< 0.4	< 0.4	< 0.4
1,2,4-Trichlorobenzene	9	< 0.56	< 0.56	< 0.56
1,2-Dibromo-3-Chloropropane (DBCP)	0.02 [1]	< 1.1*	< 1.1*	< 1.1*
1,2-Dibromoethane	0.03 [0.5]	< 0.39*	< 0.39*	< 0.39*
1,2-Dichlorobenzene	600	< 0.26	< 0.26	< 0.26
1,2-Dichloroethane	2	< 0.33	< 0.33	< 0.33
1,2-Dichloropropane	1	< 0.27	< 0.27	< 0.27
1,3-Dichlorobenzene	600	< 0.25	< 0.25	< 0.25
1,4-Dichlorobenzene	75	< 0.28	< 0.28	< 0.28
2-Butanone (MEK)	300	< 1.6	< 1.6	< 1.6
2-Hexanone	NS	< 1.4	< 1.4	< 1.4
4-methyl-2-pentanone (MIBK)	NS	< 0.86	< 0.86	< 0.86
Acetone	6000	< 2.9	< 2.9	< 2.9
Benzene	1	< 0.23	< 0.23	< 0.23
Bromodichloromethane	1	< 0.22	< 0.22	< 0.22
Bromoform	4	< 0.23	< 0.23	< 0.23
Bromomethane	10	< 0.3	< 0.3	< 0.3
Carbon disulfide	700	< 0.74	< 0.74	< 0.74
Carbon tetrachloride	1	< 0.26	< 0.26	< 0.26
Chlorobenzene	50	< 0.39	< 0.39	< 0.39
Chloroethane	NS	< 0.37	< 0.37	< 0.37
Chloroform	70	< 0.23	< 0.23	< 0.23
Chloromethane	NS	< 0.29	< 0.29	< 0.29
cis-1,2-Dichloroethene	70	< 0.22	< 0.22	< 0.22
cis-1,3-Dichloropropene	NS	< 0.25	< 0.25	< 0.25
Cyclohexane	NS	< 1.9	< 1.9	< 1.9
Dibromochloromethane	1	< 0.22	< 0.22	< 0.22
Dichlorodifluoromethane	1,000	< 0.92	< 0.92	< 0.92
Ethylbenzene	700	< 0.27	< 0.27	< 0.27
Freon 113	NS	< 0.38	< 0.38	< 0.38
Isopropylbenzene	700	< 0.57	< 0.57	< 0.57
Methyl acetate	7000	< 1.5	< 1.5	< 1.5
Methyl tert butyl ether	70	< 0.23	< 0.23	< 0.23
Methylcyclohexane	NS	< 0.35	< 0.35	< 0.35
Methylene chloride	3	< 0.3	< 0.3	< 0.3
o-Xylene	NS	< 0.25	< 0.25	< 0.25
Styrene	100	< 0.58	< 0.58	< 0.58
Tetrachloroethene	1	< 0.27	< 0.27	< 0.27
Toluene	1000	< 0.3	< 0.3	< 0.3
Trans-1,2-dichloroethene	100	< 0.25	< 0.25	< 0.25
trans-1,3-Dichloropropene	NS	< 0.21	< 0.21	< 0.21
Trichloroethene	1	< 0.24	< 0.24	< 0.24
Trichlorofluoromethane	2000	< 0.54	< 0.54	< 0.54
Vinyl Chloride	1	< 0.44	< 0.44	< 0.44
Xylene, -m,p	NS	< 0.25	< 0.25	< 0.25
Xylenes	1,000	< 0.25	< 0.25	< 0.25
Total TIC, Volatile	NS	0	0	0

Table 8. Summary of Ground Water Analytical Results, F

Location ID		TB	TB	TB
Sample ID	GWQS[1]	TB(7/14/2009)	TB (7/15/2009)	TRIP BLANK
Sample Date		7/14/2009	7/15/2009	7/17/2009
Validation Status		Pending	Pending	Pending
SVOC				
1,1'-Biphenyl	400	NA	NA	NA
2,4,5-Trichlorophenol	700	NA	NA	NA
2,4,6-Trichlorophenol	20	NA	NA	NA
2,4-Dichlorophenol	20	NA	NA	NA
2,4-Dimethylphenol	100	NA	NA	NA
2,4-Dinitrophenol	40	NA	NA	NA
2,4-Dinitrotoluene	NS	NA	NA	NA
2,6-Dinitrotoluene	NS	NA	NA	NA
2-Chloronaphthalene	600	NA	NA	NA
2-Chlorophenol	40	NA	NA	NA
2-Methylnaphthalene	NS	NA	NA	NA
2-Methylphenol	NS	NA	NA	NA
2-Nitroaniline	NS	NA	NA	NA
2-Nitrophenol	NS	NA	NA	NA
3&4-Methylphenol	NS	NA	NA	NA
3,3'-Dichlorobenzidine	30	NA	NA	NA
3-Nitroaniline	NS	NA	NA	NA
4,6-Dinitro-2-methylphenol	NS	NA	NA	NA
4-Bromophenyl phenyl ether	NS	NA	NA	NA
4-Chloro-3-Methylphenol	NS	NA	NA	NA
4-Chloroaniline	30	NA	NA	NA
4-Chlorophenyl phenyl ether	NS	NA	NA	NA
4-Nitroaniline	NS	NA	NA	NA
4-Nitrophenol	NS	NA	NA	NA
Acetophenone	700	NA	NA	NA
Atrazine	3	NA	NA	NA
Benzaldehyde	NS	NA	NA	NA
Benzyl butyl phthalate	100	NA	NA	NA
bis(2-Chloroethoxy)methane	NS	NA	NA	NA
bis(2-Chloroethyl)ether	7	NA	NA	NA
bis(2-Chloroisopropyl)ether	300	NA	NA	NA
bis(2-Ethylhexyl)phthalate	3	NA	NA	NA
Caprolactam	NS	NA	NA	NA
Carbazole	NS	NA	NA	NA
Dibenzofuran	NS	NA	NA	NA
Diethyl phthalate	6000	NA	NA	NA
Dimethyl phthalate	NS	NA	NA	NA
di-n-butyl phthalate	700	NA	NA	NA
di-n-octylphthalate	100	NA	NA	NA
Hexachlorobutadiene	1	NA	NA	NA
Hexachlorocyclopentadiene	40	NA	NA	NA
Hexachloroethane	7	NA	NA	NA
Isophrone	40	NA	NA	NA
Nitrobenzene	6	NA	NA	NA
N-Nitroso-di-n-Propylamine	10	NA	NA	NA
N-Nitrosodiphenylamine	10	NA	NA	NA
Phenol	2000	NA	NA	NA
Total TIC, Semi-Volatile	NS	NA	NA	NA

Table 8. Summary of Ground Water Analytical Results, F

Location ID		TB	TB	TB
Sample ID	GWQS[1]	TB(7/14/2009)	TB (7/15/2009)	TRIP BLANK
Sample Date		7/14/2009	7/15/2009	7/17/2009
Validation Status		Pending	Pending	Pending
SVOC BY SIM				
Acenaphthene	400	NA	NA	NA
Acenaphthylene	NS	NA	NA	NA
Anthracene	2000	NA	NA	NA
Benzo(a)anthracene	0.1 [0.2]	NA	NA	NA
Benzo(a)pyrene	0.1 [0.2]	NA	NA	NA
Benzo(b)fluoranthene	0.2 [10]	NA	NA	NA
Benzo(g,h,i)perylene	NS	NA	NA	NA
Benzo(k)fluoranthene	0.5	NA	NA	NA
Chrysene	5	NA	NA	NA
Dibenzo(a,h)anthracene	0.3 [0.5]	NA	NA	NA
Fluoranthene	300	NA	NA	NA
Fluorene	300	NA	NA	NA
Hexachlorobenzene	0.02 [10]	NA	NA	NA
Indeno(1,2,3-cd)pyrene	0.2 [10]	NA	NA	NA
Naphthalene	300	NA	NA	NA
Pentachlorophenol	0.3 [1]	NA	NA	NA
Phenanthrene	NS	NA	NA	NA
Pyrene	200	NA	NA	NA
PCBs				
PCB 1016	0.5	NA	NA	NA
PCB 1221	0.5	NA	NA	NA
PCB 1232	0.5	NA	NA	NA
PCB 1242	0.5	NA	NA	NA
PCB 1248	0.5	NA	NA	NA
PCB 1254	0.5	NA	NA	NA
PCB 1260	0.5	NA	NA	NA
Total PCBs	0.5	NA	NA	NA
Metals - Total				
Aluminum	200	NA	NA	NA
Antimony	6	NA	NA	NA
Arsenic	3 [8]	NA	NA	NA
Barium	2000	NA	NA	NA
Beryllium	1	NA	NA	NA
Cadmium	4	NA	NA	NA
Calcium	NS	NA	NA	NA
Chromium	70	NA	NA	NA
Cobalt	NS	NA	NA	NA
Copper	1,300	NA	NA	NA
Iron	300	NA	NA	NA
Lead	5	NA	NA	NA
Magnesium	NS	NA	NA	NA
Manganese	50	NA	NA	NA
Mercury	2	NA	NA	NA
Nickel	100	NA	NA	NA
Potassium	NS	NA	NA	NA
Selenium	40	NA	NA	NA
Silver	40	NA	NA	NA
Sodium	50,000	NA	NA	NA
Thallium	2 [10]	NA	NA	NA
Vanadium	NS	NA	NA	NA
Zinc	2000	NA	NA	NA

Table 8. Summary of Ground Water Analytical Results, F

Location ID		**TB**	**TB**	**TB**
Sample ID	**GWQS[1]**	**TB(7/14/2009)**	**TB (7/15/2009)**	**TRIP BLANK**
Sample Date		**7/14/2009**	**7/15/2009**	**7/17/2009**
Validation Status		**Pending**	**Pending**	**Pending**
Metals - Dissolved				
Aluminum	200	NA	NA	NA
Antimony	6	NA	NA	NA
Arsenic	3 [8]	NA	NA	NA
Barium	2000	NA	NA	NA
Beryllium	1	NA	NA	NA
Cadmium	4	NA	NA	NA
Calcium	NS	NA	NA	NA
Chromium	70	NA	NA	NA
Cobalt	NS	NA	NA	NA
Copper	1,300	NA	NA	NA
Iron	300	NA	NA	NA
Lead	5	NA	NA	NA
Magnesium	NS	NA	NA	NA
Manganese	50	NA	NA	NA
Mercury	2	NA	NA	NA
Nickel	100	NA	NA	NA
Potassium	NS	NA	NA	NA
Selenium	40	NA	NA	NA
Silver	40	NA	NA	NA
Sodium	50,000	NA	NA	NA
Thallium	2 [10]	NA	NA	NA
Vanadium	NS	NA	NA	NA
Zinc	2000	NA	NA	NA
Other				
Alkalinity, total (as CaCO3)	NS	NA	NA	NA
Chloride	250000	NA	NA	NA
Sulfate	250000	NA	NA	NA

Footnotes on page 33.

Table 1. Summary of Ground Water Analytical Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

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.
[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.

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Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		OB-01								
Sample Name	**GWQS[1]**	**OB-1**	**OB-1**	**OB-1**	**OB-1**	**OB-1**	**OB-1**	**OB-1**	**OB-1**	**OB-01**
Sample Date		**8/2/1984**	**11/1/2004**	**12/30/2004**	**9/26/2006**	**4/6/2007**	**10/9/2007**	**4/30/2008**	**9/8/2008**	**7/2/2009**
VOC										
Benzene	1	< 10	< 1	< 0.31	< 0.21	< 0.21	< 0.19	<0.26	<0.26	< 0.23
Ethylbenzene	700	< 10	< 1	< 0.27	< 0.2	< 0.2	< 0.21	<0.27	<0.27	< 0.27
Toluene	1000	< 10	< 1	< 0.14	< 0.2	< 0.2	< 0.21	<0.15	<0.15	< 0.3
Xylene, -m	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	NA	< 1	< 0.36	< 0.42	< 0.42	< 0.35	<0.39	<0.39	< 0.25
Xylene. -o	NS	NA	< 1	< 0.17	< 0.31	< 0.31	< 0.2	<0.45	<0.45	< 0.25
Xylenes	1,000	NA	< 1	< 0.17	< 0.31	< 0.31	< 0.2	<0.39	<0.39	< 0.25
PCBs										
PCB 1016	0.5	< 0.5	< 0.5	< 0.075	< 0.094	< 0.1	< 0.094	< 0.1	< 0.096	< 0.19
PCB 1221	0.5	< 0.5	< 0.5	< 0.085	< 0.47	< 0.5	< 0.47	< 0.5	< 0.48	< 0.31
PCB 1232	0.5	< 0.5	< 0.5	< 0.12	< 0.39	< 0.41	< 0.39	< 0.41	< 0.4	< 0.21
PCB 1242	0.5	< 0.5	< 0.5	< 0.13	< 0.16	< 0.17	< 0.16	< 0.17	< 0.17	< 0.089
PCB 1248	0.5	< 0.5	< 0.5	< 0.072	< 0.15	< 0.16	< 0.15	< 0.16	< 0.16	< 0.25
PCB 1254	0.5	< 0.5	< 0.5	< 0.072	< 0.11	< 0.12	< 0.11	< 0.12	< 0.11	< 0.11
PCB 1260	0.5	< 0.5	< 0.5	< 0.1	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.14
Total PCBs		0	0	0	0	0	0	0	0	0
Metals -Total										
Arsenic	3	< 5	< 5	< 5	< 1.5 J	< 1.5	< 1.1	<1.7	<1.7	< 2.4
Iron	300	**1100**	< 100	**869**	155	80.3 B	201	**649**	< 7.4	123
Lead	5	< 50	< 3	< 3	< 2.6	< 2.8	< 0.94	<1.4	< 1.4	< 1.7
Manganese	50	**120**	< 15	< 15	2.9 BJ	1.4 B	2.4 B	2.6 BJ	< 0.24	3 B
Metals -Dissolved										
Arsenic	3	NA	< 5	< 5	1.8 BJ	< 1.5	< 1.1	<1.7	< 1.7	< 2.4
Iron	300	NA	< 100	< 100	< 67	< 25	< 6.3	12.5B	< 7.4	40 B
Lead	5	NA	< 3	< 3	< 2.6	< 2.8	< 0.94	<1.4	< 1.4	< 1.7
Manganese	50	NA	< 15	< 15	3.7 BJ	1.1 B	< 0.17	1.9 BJ	< 0.24	4 B

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

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Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		OB-02								
Sample Name	**GWQS[1]**	**OB-2**	**OB-2**	**OB-2**	**OB-2**	**OB-2**	**OB-2**	**OB-2**	**OB-2**	**OB-02**
Sample Date		**8/2/1984**	**6/16/1986**	**10/13/2004**	**10/2/2006**	**4/6/2007**	**10/8/2007**	**4/28/2008**	**9/17/2008**	**6/30/2009**
VOC										
Benzene	1	< 10	< 10	< 0.5	< 0.21	< 0.21	< 0.19	<0.26	<0.26	< 0.23
Ethylbenzene	700	< 10	< 10	< 0.5	< 0.2	< 0.2	< 0.21	<0.27	<0.27	< 0.27
Toluene	1000	< 10	< 10	< 0.5	< 0.2	< 0.2	< 0.21	<0.15	<0.15	< 0.3
Xylene, -m	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	NA	NA	NA	< 0.42	< 0.42	< 0.35	<0.39	<0.39	< 0.25
Xylene. -o	NS	NA	NA	NA	< 0.31	< 0.31	< 0.2	<0.45	<0.45	< 0.25
Xylenes	1,000	NA	NA	< 1	< 0.31	< 0.31	< 0.2	<0.39	<0.39	< 0.25
PCBs										
PCB 1016	0.5	< 0.5	NA	< 0.075 J	< 0.094	< 0.094	< 0.1	< 0.1	< 0.094	< 0.21
PCB 1221	0.5	< 0.5	NA	< 0.085	< 0.47	< 0.47	< 0.51	< 0.5	< 0.47	< 0.35
PCB 1232	0.5	< 0.5	NA	< 0.12	< 0.39	< 0.39	< 0.42	< 0.41	< 0.39	< 0.23
PCB 1242	0.5	< 0.5	NA	< 0.13	< 0.16	< 0.16	< 0.18	< 0.17	< 0.16	< 0.1
PCB 1248	0.5	< 0.5	NA	< 0.072	< 0.15	< 0.15	< 0.16	< 0.16	< 0.15	< 0.29
PCB 1254	0.5	< 0.5	NA	< 0.072	< 0.11	< 0.11	< 0.12	< 0.12	< 0.11	< 0.13
PCB 1260	0.5	< 0.5	NA	< 0.1	< 0.12	< 0.12	< 0.13	< 0.12	< 0.12	< 0.16
Total PCBs		0	NA	0	0	0	0	0	0	0
Metals -Total										
Arsenic	3	< 5	< 2	< 5	< 1.5	< 1.5	< 1.1	<1.7	< 1.7	< 2.4
Iron	300	**4600**	NA	156	95.8 B	< 25	200 J	38.6 B	52.6	28.3 B
Lead	5	< 50	< 50	< 3	< 2.6	3.2	< 0.94	1.8 B	< 1.4	< 1.7
Manganese	50	**440**	NA	< 15	1.5 B	0.72 B	8.7 BJ	1.3 B	2.2	1.9 B
Metals -Dissolved										
Arsenic	3	NA	NA	< 5	2	< 1.5	< 1.1	<1.7	< 1.7	< 2.4
Iron	300	NA	NA	< 100	67.3 B	< 25	14.9 BJ	8.8 BJ	8	14.4 B
Lead	5	NA	NA	< 3	< 2.6	< 2.8	< 0.94	<1.4	< 1.4	< 1.7
Manganese	50	NA	NA	< 15	1.5 B	0.83 B	3.3 BJ	0.5 B	1	0.8 B

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

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Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		OB-03												
Sample Name	**GWQS[1]**	**OB-3**	**OB-3**	**OB-3**	**OB-3**	**OB-3**	**OB-3**	**OB-3**	**OB-3**	**OB-3**	**OB-3**	**OB-3**	**OB-3**	**OB-03**
Sample Date		**8/2/1984**	**6/16/1986**	**10/30/1989**	**1/30/1990**	**4/24/1990**	**7/24/1990**	**10/13/2004**	**9/28/2006**	**4/3/2007**	**10/8/2007**	**4/28/2008**	**9/9/2008**	**6/30/2009**
VOC														
Benzene	1	< 10	< 10	< 2	< 2	< 2	< 2	< 0.5	< 0.21	< 0.21	< 0.19	<0.26	<0.26	< 0.23
Ethylbenzene	700	< 10	< 10	< 2	< 2	< 2	< 2	< 0.5	< 0.2	< 0.2	< 0.21	<0.27	<0.27	< 0.27
Toluene	1000	< 10	< 10	< 2	< 2	< 2	< 2	< 0.5	< 0.2	< 0.2	< 0.21	<0.15	<0.15	< 0.3
Xylene, -m	NS	NA	NA	< 2	< 2	< 2	< 2	NA	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	NA	NA	NA	NA	NA	NA	NA	< 0.42	< 0.42	< 0.35	<0.39	<0.39	< 0.25
Xylene. -o	NS	NA	NA	< 2	< 2	< 2	< 2	NA	< 0.31	< 0.31	< 0.2	<0.45	<0.45	< 0.25
Xylenes	1,000	NA	NA	NA	NA	NA	NA	< 1	< 0.31	< 0.31	< 0.2	<0.39	<0.39	< 0.25
PCBs														
PCB 1016	0.5	< 0.5	NA	NA	NA	NA	NA	< 0.075	< 0.098	< 0.11	< 0.1	< 0.099	< 0.11	< 0.21
PCB 1221	0.5	< 0.5	NA	NA	NA	NA	NA	< 0.085	< 0.49	< 0.53	< 0.5	< 0.49	< 0.53	< 0.34
PCB 1232	0.5	< 0.5	NA	NA	NA	NA	NA	< 0.12	< 0.41	< 0.44	< 0.41	< 0.41	< 0.44	< 0.23
PCB 1242	0.5	< 0.5	NA	NA	NA	NA	NA	< 0.13	< 0.17	< 0.18	< 0.17	< 0.17	< 0.18	< 0.099
PCB 1248	0.5	< 0.5	NA	NA	NA	NA	NA	< 0.072	< 0.16	< 0.17	< 0.16	< 0.16	< 0.17	< 0.28
PCB 1254	0.5	< 0.5	NA	NA	NA	NA	NA	< 0.072	< 0.11	< 0.12	< 0.12	< 0.11	< 0.12	< 0.12
PCB 1260	0.5	< 0.5	NA	NA	NA	NA	NA	< 0.1 J	< 0.12	< 0.13	< 0.12	< 0.12	< 0.13	< 0.16
Total PCBs		0	NA	NA	NA	NA	NA	0	0	0	0	0	0	0
Metals -Total														
Arsenic	3	< 5	< 2	< 2	< 2	< 5	< 5	< 5	< 1.5	< 1.5	< 1.1	<1.7	< 1.7	< 2.4
Iron	300	**9300**	NA	**35600 JMt**	**750**	**124000**	**17000**	**2000**	**1540**	250	**1860 J**	**1710**	**590**	**1390**
Lead	5	< 50	< 50	< 5	< 5	< 5	< 5	< 3	< 2.6	< 2.8	< 0.94	<1.4	< 1.4	< 1.7
Manganese	50	**140**	NA	**117**	< 10	**58**	**69**	16	8.3 B	2 B	9 BJ	10.2 B	3.9 B	35.2
Metals -Dissolved														
Arsenic	3	NA	NA	NA	NA	NA	NA	< 5	< 1.5	< 1.5	< 1.1	<1.7	< 1.7	< 2.4
Iron	300	NA	NA	NA	NA	NA	NA	< 100	81.1 B	96 B	47.7 BJ	91.1 B	< 7.4	290
Lead	5	NA	NA	NA	NA	NA	NA	< 3	< 2.6	< 2.8	< 0.94	<1.4	< 1.4	< 1.7
Manganese	50	NA	NA	NA	NA	NA	NA	< 15	3.8 BJ	2.1 B	6.5 BJ	9.4 B	3.8 B	32.9

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

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Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well Sample Name Sample Date	GWQS[1]
VOC	
Benzene	1
Ethylbenzene	700
Toluene	1000
Xylene, -m	NS
Xylene, -m,p	NS
Xylene. -o	NS
Xylenes	1,000
PCBs	
PCB 1016	0.5
PCB 1221	0.5
PCB 1232	0.5
PCB 1242	0.5
PCB 1248	0.5
PCB 1254	0.5
PCB 1260	0.5
Total PCBs	
Metals -Total	
Arsenic	3
Iron	300
Lead	5
Manganese	50
Metals -Dissolved	
Arsenic	3
Iron	300
Lead	5
Manganese	50

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

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Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		OB-04								
Sample Name	**GWQS[1]**	**OB-4**	**OB-4**	**OB-4**	**OB-4**	**OB-4**	**OB-4**	**OB-4**	**OB-4**	**OB-04**
Sample Date		**8/2/1984**	**6/16/1986**	**10/14/2004**	**9/29/2006**	**4/6/2007**	**10/9/2007**	**4/28/2008**	**9/9/2008**	**7/1/2009**
VOC										
Benzene	1	< 10	< 10	< 0.5	< 0.21	< 0.21	< 0.19	<0.26	<0.26	< 0.23
Ethylbenzene	700	< 10	< 10	< 0.5	< 0.2	< 0.2	< 0.21	<0.27	<0.27	< 0.27
Toluene	1000	< 10	< 10	< 0.5	< 0.2	< 0.2	< 0.21	<0.15	<0.15	< 0.3
Xylene, -m	NS	NA	NA	NA	NA	NA	NA	NA	NA	
Xylene, -m,p	NS	NA	NA	NA	< 0.42	< 0.42	< 0.35	<0.39	<0.39	< 0.25
Xylene. -o	NS	NA	NA	NA	< 0.31	< 0.31	< 0.2	<0.45	<0.45	< 0.25
Xylenes	1,000	NA	NA	< 1	< 0.31	< 0.31	< 0.2	<0.39	<0.39	< 0.25
PCBs										
PCB 1016	0.5	< 0.5	NA	< 0.084	< 0.1	< 0.094	< 0.1	< 0.094	< 0.094	< 0.2
PCB 1221	0.5	< 0.5	NA	< 0.094	< 0.52	< 0.47	< 0.52	< 0.47	< 0.47	< 0.32
PCB 1232	0.5	< 0.5	NA	< 0.14	< 0.43	< 0.39	< 0.43	< 0.39	< 0.39	< 0.21
PCB 1242	0.5	< 0.5	NA	< 0.15	< 0.18	< 0.16	< 0.18	< 0.16	< 0.16	< 0.093
PCB 1248	0.5	< 0.5	NA	< 0.08	< 0.17	< 0.15	< 0.17	< 0.15	< 0.15	< 0.26
PCB 1254	0.5	< 0.5	NA	< 0.08	< 0.12	< 0.11	< 0.12	< 0.11	< 0.11	< 0.12
PCB 1260	0.5	< 0.5	NA	< 0.11	< 0.13	< 0.12	< 0.13	< 0.12	< 0.12	< 0.15
Total PCBs		0	NA	0	0	0	0	0	0	0
Metals -Total										
Arsenic	3	< 5	< 2	< 5	< 1.5	< 1.5	< 1.1	<1.7	< 1.7	< 2.4
Iron	300	**33000**	NA	**7070**	**8480**	**19400**	**5700**	**3770**	**2540**	**7480**
Lead	5	< 50	< 50	< 3	< 2.6	4.1	< 0.94	1.6 B	< 1.4	< 1.7
Manganese	50	**4100**	NA	**2720 J**	**2390**	**2100**	**1820**	**1840**	**680**	**440**
Metals -Dissolved										
Arsenic	3	NA	NA	< 5	< 1.5	< 1.5	< 1.1	<1.7	< 1.7	< 2.4
Iron	300	NA	NA	**6080**	**6380**	**18000**	**675**	11 B	< 7.4	**467**
Lead	5	NA	NA	< 3	< 2.6	< 2.8	< 0.94	<1.4	< 1.4	< 1.7
Manganese	50	NA	NA	**2720 J**	**2370**	**2070**	**1870**	**1840**	< 0.24	**419**

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

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Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		OB-05								
Sample Name	**GWQS[1]**	**OB-5**	**OB-5**	**OB-5**	**OB-5**	**OB-5**	**OB-5**	**OB-5**	**OB-5**	**OB-05**
Sample Date		**8/2/1984**	**6/13/1986**	**10/15/2004**	**10/2/2006**	**4/4/2007**	**10/9/2007**	**4/28/2008**	**9/8/2008**	**7/1/2009**
VOC										
Benzene	1	< 10	< 10	< 0.5	< 0.21	< 0.21	< 0.19	<0.26	<0.26	< 0.23
Ethylbenzene	700	< 10	< 10	< 0.5	< 0.2	< 0.2	< 0.21	<0.27	<0.27	< 0.27
Toluene	1000	< 10	< 10	< 0.5	< 0.2	< 0.2	< 0.21	<0.15	<0.15	< 0.3
Xylene, -m	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	NA	NA	NA	< 0.42	< 0.42	< 0.35	<0.39	<0.39	< 0.25
Xylene. -o	NS	NA	NA	NA	< 0.31	< 0.31	< 0.2	<0.45	<0.45	< 0.25
Xylenes	1,000	NA	NA	< 1	< 0.31	< 0.31	< 0.2	<0.39	<0.39	< 0.25
PCBs										
PCB 1016	0.5	< 0.5	NA	< 0.075	< 0.099	< 0.1	< 0.1	< 0.1	< 0.11	< 0.19
PCB 1221	0.5	< 0.5	NA	< 0.085	< 0.49	< 0.51	< 0.51	< 0.5	< 0.54	< 0.31
PCB 1232	0.5	< 0.5	NA	< 0.12	< 0.41	< 0.42	< 0.42	< 0.41	< 0.45	< 0.21
PCB 1242	0.5	< 0.5	NA	< 0.13	< 0.17	< 0.18	< 0.18	< 0.17	< 0.19	< 0.091
PCB 1248	0.5	< 0.5	NA	< 0.072	< 0.16	< 0.17	< 0.16	< 0.16	< 0.18	< 0.26
PCB 1254	0.5	< 0.5	NA	< 0.072	< 0.11	< 0.12	< 0.12	< 0.12	< 0.13	< 0.11
PCB 1260	0.5	< 0.5	NA	< 0.1	< 0.12	< 0.13	< 0.13	< 0.12	< 0.13	< 0.15
Total PCBs		0	NA	0	0	0	0	0	0	0
Metals -Total										
Arsenic	3	< 5	< 2	< 5	< 1.5	< 1.5	< 1.1	< 1.7	< 1.7	< 2.4
Iron	300	**31000**	NA	**20500**	**24600**	**27900**	**20900**	**29300**	**21600**	**16900**
Lead	5	< 50	< 50	< 3	< 2.6	< 2.8	< 0.94	1.5 B	1.7 B	< 1.7
Manganese	50	**1100**	NA	**1490**	**2970**	**2020**	**1500**	**2100**	**1740**	**776**
Metals -Dissolved										
Arsenic	3	NA	NA	< 5	< 1.5	< 1.5	< 1.1	< 1.7	< 1.7	< 2.4
Iron	300	NA	NA	**17100**	**20700**	**24900**	**5100**	**16300**	**4000**	**524**
Lead	5	NA	NA	< 3	2.6 B	< 2.8	< 0.94	1.4 B	< 1.4 B	< 1.7
Manganese	50	NA	NA	**1520**	**2730**	**1960**	**1530**	**2110**	**2110**	**740**

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

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Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		OB-06									
Sample Name	**GWQS[1]**	**OB-6**	**OB-6 (DUP)**	**OB-6**	**OB-6**	**OB-6**	**OB-6**	**OB-6**	**OB-6**	**OB-6**	**OB-06**
Sample Date		**8/2/1984**	**8/2/1984**	**11/2/2004**	**12/30/2004**	**9/26/2006**	**4/6/2007**	**10/9/2007**	**5/1/2008**	**9/8/2008**	**7/2/2009**
VOC											
Benzene	1	< 10	NA	< 0.31	< 0.31	< 0.21	< 0.21	< 0.19	<0.26	<0.26	< 0.23
Ethylbenzene	700	< 10	NA	< 0.27	< 0.27	< 0.2	< 0.2	< 0.21	<0.27	<0.27	< 0.27
Toluene	1000	< 10	NA	< 0.14	< 0.14	< 0.2	< 0.2	< 0.21	<0.15	<0.15	< 0.3
Xylene, -m	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Xylene, -m,p	NS	NA	NA	< 0.36	< 0.36	< 0.42	< 0.42	< 0.35	<0.39	<0.39	< 0.25
Xylene. -o	NS	NA	NA	< 0.17	< 0.17	< 0.31	< 0.31	< 0.2	<0.45	<0.45	< 0.25
Xylenes	1,000	NA	NA	< 0.17	< 0.17	< 0.31	< 0.31	< 0.2	<0.39	<0.39	< 0.25
PCBs											
PCB 1016	0.5	< 0.5	NA	< 0.075	< 0.075	< 0.1	< 0.11	< 0.094	< 0.11	< 0.094	< 0.21
PCB 1221	0.5	< 0.5	NA	< 0.085	< 0.085	< 0.52	< 0.53	< 0.47	< 0.53	< 0.47	< 0.34
PCB 1232	0.5	< 0.5	NA	< 0.12	< 0.12	< 0.43	< 0.44	< 0.39	< 0.44	< 0.39	< 0.23
PCB 1242	0.5	< 0.5	NA	< 0.13	< 0.13	< 0.18	< 0.19	< 0.16	< 0.19	< 0.16	< 0.099
PCB 1248	0.5	< 0.5	NA	< 0.072	< 0.072	< 0.17	< 0.17	< 0.15	< 0.17	< 0.15	< 0.28
PCB 1254	0.5	< 0.5	NA	< 0.072	< 0.072	< 0.12	< 0.12	< 0.11	< 0.12	< 0.11	< 0.12
PCB 1260	0.5	< 0.5	NA	< 0.1	< 0.1	< 0.13	< 0.13	< 0.12	< 0.13	< 0.12	< 0.16
Total PCBs		0	NA	0	0	0	0	0	0	0	0
Metals -Total											
Arsenic	3	< 5	< 5	< 5	< 5	< 1.5	< 1.5	< 1.1	< 1.7	< 1.7	< 2.4
Iron	300	**3700**	**4100**	**30900**	**2290**	**4180**	**910**	**2090**	**2210**	**3030**	**5150**
Lead	5	< 50	NA	< 3	< 3	< 2.6	< 2.8	< 0.94	< 1.4	< 1.4	< 1.7
Manganese	50	**90**	**90**	**2040**	**1770**	**2480**	**1910**	**3000**	**2160**	**4670**	**2540**
Metals -Dissolved											
Arsenic	3	NA	NA	< 5	< 5	< 1.5	< 1.5	< 1.1	< 1.7	< 1.7	< 2.4
Iron	300	NA	NA	**24900**	**2180**	**3190**	**708**	219	273	1930	**2280**
Lead	5	NA	NA	< 3	< 3	< 2.6	< 2.8	< 0.94	1.9 B	< 1.4	< 1.7
Manganese	50	NA	NA	**2010**	**1780**	**2420**	**1870**	**2830**	**2170**	**4460**	**2520**

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

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Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		OB-07								
Sample Name	**GWQS[1]**	**OB-7**	**OB-7**	**OB-7**	**OB-7**	**OB-7**	**OB-7**	**OB-7**	**OB-7**	**OB-07**
Sample Date		**8/2/1984**	**6/1/1986**	**10/13/2004**	**9/28/2006**	**4/11/2007**	**10/9/2007**	**4/30/2008**	**9/10/2008**	**7/1/2009**
VOC										
Benzene	1	< 10	< 10	< 0.5	< 0.21	< 0.21	< 0.19	<0.26	<0.26	< 0.23
Ethylbenzene	700	< 10	< 10	< 0.5	< 0.2	< 0.2	< 0.21	<0.27	<0.27	< 0.27
Toluene	1000	< 10	< 10	< 0.5	< 0.2	< 0.2	< 0.21	<0.15	<0.15	< 0.3
Xylene, -m	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	NA	NA	NA	< 0.42	< 0.42	< 0.35	<0.39	<0.39	< 0.25
Xylene. -o	NS	NA	NA	NA	< 0.31	< 0.31	< 0.2	<0.45	<0.45	< 0.25
Xylenes	1,000	NA	NA	< 1	< 0.31	< 0.31	< 0.2	<0.39	<0.39	< 0.25
PCBs										
PCB 1016	0.5	< 0.5	NA	< 0.075 J	< 0.1	< 0.1	< 0.1	< 0.099	< 0.094	< 0.19
PCB 1221	0.5	< 0.5	NA	< 0.085	< 0.51	< 0.5	< 0.52	< 0.49	< 0.47	< 0.31
PCB 1232	0.5	< 0.5	NA	< 0.12	< 0.42	< 0.41	< 0.43	< 0.41	< 0.39	< 0.21
PCB 1242	0.5	< 0.5	NA	< 0.13	< 0.18	< 0.17	< 0.18	< 0.17	< 0.16	< 0.089
PCB 1248	0.5	< 0.5	NA	< 0.072	< 0.17	< 0.16	< 0.17	< 0.16	< 0.15	< 0.25
PCB 1254	0.5	< 0.5	NA	< 0.072	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11	< 0.11
PCB 1260	0.5	< 0.5	NA	< 0.1	< 0.13	< 0.12	< 0.13	< 0.12	< 0.12	< 0.14
Total PCBs		0	NA	0	0	0	0	0	0	0
Metals -Total										
Arsenic	3	< 5	< 2	< 5	< 1.5	< 1.5	< 1.1	< 1.7	< 1.7	< 2.4
Iron	300	**7000**	NA	**1360**	**2640**	**2340**	**1440**	**4840**	**1940**	**3480**
Lead	5	< 50	< 50	< 3	< 2.6	< 2.8	< 0.94	2.9 B	< 1.4	< 1.7
Manganese	50	**420**	NA	**3150**	**2710**	**1480**	**2880**	**2230 J**	**2510**	**2180**
Metals -Dissolved										
Arsenic	3	NA	NA	< 5	< 1.5	< 1.5	< 1.1	2 B	< 1.7	< 2.4
Iron	300	NA	NA	270	**1680**	**535**	30.5 BJ	181	**335**	**373**
Lead	5	NA	NA	< 3	< 2.6	< 2.8	< 0.94	1.9 B	< 1.4	< 1.7
Manganese	50	NA	NA	**3140**	**2700**	**1400**	**2350**	**2120 J**	**2460**	**2180**

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

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Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		OB-08	OB-09		
Sample Name	GWQS[1]	OB-8	OB-9	OB-9	OB-9
Sample Date		8/2/1984	8/2/1984	6/14/1986	3/23/1988
VOC					
Benzene	1	< 10	< 10	< 10	< 5
Ethylbenzene	700	< 10	< 10	< 10	< 5
Toluene	1000	< 10	< 10	19	< 5
Xylene, -m	NS	NA	NA	NA	< 5
Xylene, -m,p	NS	NA	NA	NA	NA
Xylene. -o	NS	NA	NA	NA	< 5
Xylenes	1,000	NA	NA	NA	NA
PCBs					
PCB 1016	0.5	< 0.5	< 1	NA	NA
PCB 1221	0.5	< 0.5	< 1	NA	NA
PCB 1232	0.5	< 0.5	< 1	NA	NA
PCB 1242	0.5	< 0.5	< 1	NA	NA
PCB 1248	0.5	< 0.5	< 1	NA	NA
PCB 1254	0.5	< 0.5	< 1	NA	NA
PCB 1260	0.5	< 0.5	< 1	NA	NA
Total PCBs		0	0	NA	NA
Metals -Total					
Arsenic	3	< 5	**7**	**10.6**	< 2
Iron	300	**13000**	**450**	NA	NA
Lead	5	< 50	< 50	< 50	< 50
Manganese	50	**1900**	**320**	NA	NA
Metals -Dissolved					
Arsenic	3	NA	NA	NA	< 2
Iron	300	NA	NA	NA	NA
Lead	5	NA	NA	NA	< 50
Manganese	50	NA	NA	NA	NA

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

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Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		OB-10						
Sample Name	**GWQS[1]**	**OB-10**	**OB-10**	**OB-10**	**OB-10**	**OB-10**	**OB-10**	**OB-10**
Sample Date		**8/2/1984**	**10/31/1989**	**1/30/1990**	**4/24/1990**	**7/23/1990**	**10/14/2004**	**10/2/2006**
VOC								
Benzene	1	< 10	< 2	< 2	< 2	< 2	< 0.5	< 0.21
Ethylbenzene	700	< 10	< 2	< 2	< 2	< 2	< 0.5	< 0.2
Toluene	1000	< 10	< 2	< 2	< 2	< 2	< 0.5	< 0.2
Xylene, -m	NS	NA	< 2	< 2	< 2	< 2	NA	NA
Xylene, -m,p	NS	NA	NA	NA	NA	NA	NA	< 0.42
Xylene. -o	NS	NA	< 2	< 2	< 2	< 2	NA	< 0.31
Xylenes	1,000	NA	NA	NA	NA	NA	< 1	< 0.31
PCBs								
PCB 1016	0.5	< 0.5	NA	NA	NA	NA	< 0.075	< 0.1
PCB 1221	0.5	< 0.5	NA	NA	NA	NA	< 0.085	< 0.5
PCB 1232	0.5	< 0.5	NA	NA	NA	NA	< 0.12	< 0.41
PCB 1242	0.5	< 0.5	NA	NA	NA	NA	< 0.13	< 0.17
PCB 1248	0.5	< 0.5	NA	NA	NA	NA	< 0.072	< 0.16
PCB 1254	0.5	< 0.5	NA	NA	NA	NA	< 0.072	< 0.12
PCB 1260	0.5	< 0.5	NA	NA	NA	NA	< 0.1	< 0.12
Total PCBs		0	NA	NA	NA	NA	0	0
Metals -Total								
Arsenic	3	**31**	< 2	**4.61**	< 5	< 5	< 5	< 1.5
Iron	300	**9500**	**4560**	**7240**	**2200**	**14200**	< 100	**4010**
Lead	5	< 50	< 5	< 5	< 5	< 5	< 3	< 2.6
Manganese	50	**5400**	**174**	**392**	**82**	**93**	< 15	**1600**
Metals -Dissolved								
Arsenic	3	NA	NA	NA	NA	NA	< 5	< 1.5
Iron	300	NA	NA	NA	NA	NA	< 100	**3700**
Lead	5	NA	NA	NA	NA	NA	< 3	< 2.6
Manganese	50	NA	NA	NA	NA	NA	< 15	**1570**

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

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Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		OB-10				
Sample Name	**GWQS[1]**	**OB-10**	**OB-10**	**OB-10**	**OB-10**	**OB-10**
Sample Date		**4/2/2007**	**10/12/2007**	**4/29/2008**	**9/10/2008**	**7/1/2009**
VOC						
Benzene	1	< 0.21	< 0.19	<0.26	<0.26	< 0.23
Ethylbenzene	700	< 0.2	< 0.21	<0.27	<0.27	< 0.27
Toluene	1000	< 0.2	< 0.21	<0.15	<0.15	< 0.3
Xylene, -m	NS	NA	NA	NA	NA	NA
Xylene, -m,p	NS	< 0.42	< 0.35	<0.39	<0.39	< 0.25
Xylene. -o	NS	< 0.31	< 0.2	<0.45	<0.45	< 0.25
Xylenes	1,000	< 0.31	< 0.2	<0.39	<0.39	< 0.25
PCBs						
PCB 1016	0.5	< 0.1	< 0.094	< 0.1	< 0.094	< 0.19
PCB 1221	0.5	< 0.51	< 0.47	< 0.51	< 0.47	< 0.31
PCB 1232	0.5	< 0.42	< 0.39	< 0.43	< 0.39	< 0.21
PCB 1242	0.5	< 0.18	< 0.16	< 0.18	< 0.16	< 0.089
PCB 1248	0.5	< 0.17	< 0.15	< 0.17	< 0.15	< 0.25
PCB 1254	0.5	< 0.12	< 0.11	< 0.12	< 0.11	< 0.11
PCB 1260	0.5	< 0.13	< 0.12	< 0.13	< 0.12	< 0.14
Total PCBs		0	0	0	0	0
Metals -Total						
Arsenic	3	< 1.5	< 1.1	< 1.7	< 1.7	< 2.4
Iron	300	**1110**	**598**	298	71.5 B	**4160**
Lead	5	< 2.8	< 0.94	< 1.4	< 1.4	< 1.7
Manganese	50	**882**	**214**	25.1	**87.5**	**2570**
Metals -Dissolved						
Arsenic	3	< 1.5	< 1.1	< 1.7	< 1.7	< 2.4
Iron	300	**788**	< 6.3	13.4 B	18.2 B	**774**
Lead	5	< 2.8	< 0.94	< 1.4	< 1.4	< 1.7
Manganese	50	**866**	**161**	3 B	84.4	**2540**

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

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Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		OB-11									
Sample Name	**GWQS[1]**	**OB-11**	**OB-11**	**OB-11**	**OB-11**	**OB-11**	**OB-11**	**OB-11**	**OB-11**	**OB-11**	**OB-11**
Sample Date		**8/1/1984**	**9/20/1984**	**6/14/1986**	**3/22/1988**	**10/31/1989**	**1/30/1990**	**4/24/1990**	**7/23/1990**	**1/16/1992**	**7/29/1992**
VOC											
Benzene	1	< 10	< 10	< 10	**2 J**	< 2	< 2	< 2	< 2	**2**	**3**
Ethylbenzene	700	< 10	< 10	< 10	0.2 J	2.7	< 2	< 2	< 2	< 5	4 J
Toluene	1000	< 10	< 10	< 10	< 5	< 2	< 2	< 2	< 2	< 5	2 J
Xylene, -m	NS	NA	NA	NA	< 5	< 2	< 2	< 2	< 2	NA	NA
Xylene, -m,p	NS	NA	NA	NA	NA	NA	NA	NA	NA	1 J	9
Xylene. -o	NS	NA	NA	NA	4 J	< 2	< 2	< 2	< 2	2 J	7
Xylenes	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs											
PCB 1016	0.5	NA	< 1	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1221	0.5	NA	< 1	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1232	0.5	NA	< 1	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1242	0.5	NA	< 1	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1248	0.5	NA	< 1	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1254	0.5	NA	< 1	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1260	0.5	NA	< 1	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs		NA	0	NA	NA	NA	NA	NA	NA	NA	NA
Metals -Total											
Arsenic	3	NA	**6**	< 2	NA	< 2	< 2	< 5	< 5	2.6R	**3.6 BR**
Iron	300	NA	**20000**	NA	NA	**19900**	**1160**	**4090**	**22300**	**24300**	**38200**
Lead	5	NA	**60**	< 50	NA	< 5	< 5	< 5	18.8	< 20.8	< 24.4
Manganese	50	NA	**2900**	NA	NA	**1680**	**1040**	**438**	**1440**	**1610**	**1150**
Metals -Dissolved											
Arsenic	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

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Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		OB-11						
Sample Name	**GWQS[1]**	**OB-11**	**OB-11**	**OB-11**	**OB-11**	**OB-11**	**OB-11**	**OB-11**
Sample Date		**2/17/1993**	**7/26/1993**	**2/20/1995**	**8/7/1995**	**8/16/1999**	**4/13/2000**	**10/14/2004**
VOC								
Benzene	1	< 1	< 1	< 1	< 1	NA	NA	**1.2**
Ethylbenzene	700	< 5	< 5	< 10	< 10	NA	NA	< 0.5
Toluene	1000	< 5	< 5	< 10	< 10	NA	NA	< 0.5
Xylene, -m	NS	NA	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	< 5	< 5	< 10	< 10	NA	NA	NA
Xylene. -o	NS	< 5	< 5	< 10	< 10	NA	NA	NA
Xylenes	1,000	NA	NA	NA	NA	NA	NA	< 1
PCBs								
PCB 1016	0.5	NA	NA	NA	NA	NA	NA	< 0.084
PCB 1221	0.5	NA	NA	NA	NA	NA	NA	< 0.094
PCB 1232	0.5	NA	NA	NA	NA	NA	NA	< 0.14
PCB 1242	0.5	NA	NA	NA	NA	NA	NA	< 0.15
PCB 1248	0.5	NA	NA	NA	NA	NA	NA	< 0.08
PCB 1254	0.5	NA	NA	NA	NA	NA	NA	< 0.08
PCB 1260	0.5	NA	NA	NA	NA	NA	NA	< 0.11
Total PCBs		NA	NA	NA	NA	NA	NA	0
Metals -Total								
Arsenic	3	3 B	**8.3 B**	< 2	**4.4 B**	NA	NA	< 5
Iron	300	**12900**	**21900**	**11700**	**23400**	NA	NA	**33300**
Lead	5	1.8 B	**14**	< 2	**31.9**	< 1.7	1.6	< 3
Manganese	50	**1080**	**2440**	**1060**	**1300**	NA	NA	**1200 J**
Metals -Dissolved								
Arsenic	3	NA	NA	NA	NA	NA	NA	< 5
Iron	300	NA	NA	NA	NA	NA	NA	**31900**
Lead	5	NA	NA	NA	NA	NA	< 1.3	< 3
Manganese	50	NA	NA	NA	NA	NA	NA	**1130 J**

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

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Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		OB-12										
Sample Name	**GWQS[1]**	**OB-12**	**OB-12**	**OB-12**	**OB-12**	**OB-12**	**OB-12**	**OB-12**	**OB-12**	**OB-12**	**OB-12**	**DUP(063009)**
Sample Date		**6/16/1986**	**3/22/1988**	**11/1/2004**	**12/30/2004**	**9/28/2006**	**4/3/2007**	**10/8/2007**	**4/28/2008**	**9/9/2008**	**6/30/2009**	**6/30/2009**
VOC												
Benzene	1	NA	< 5	< 1	< 0.31	< 0.21	< 0.21	< 0.19	<0.26	<0.26	< 0.23	< 0.23
Ethylbenzene	700	NA	< 5	< 1	< 0.27	< 0.2	< 0.2	< 0.21	<0.27	<0.27	< 0.27	< 0.27
Toluene	1000	NA	< 5	< 1	< 0.14	< 0.2	< 0.2	< 0.21	<0.15	<0.15	< 0.3	< 0.3
Xylene, -m	NS	NA	< 5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	NA	NA	< 1	< 0.36	< 0.42	< 0.42	< 0.35	<0.39	<0.39	< 0.25	< 0.25
Xylene. -o	NS	NA	< 5	< 1	< 0.17	< 0.31	< 0.31	< 0.2	<0.45	<0.45	< 0.25	< 0.25
Xylenes	1,000	NA	NA	< 1	< 0.17	< 0.31	< 0.31	< 0.2	<0.39	<0.39	< 0.25	< 0.25
PCBs												
PCB 1016	0.5	< 0.5	NA	< 0.5	< 0.075	< 0.1	< 0.11	< 0.1	< 0.094	< 0.096	< 0.2	< 0.21
PCB 1221	0.5	< 0.5	NA	< 0.5	< 0.085	< 0.52	< 0.53	< 0.52	< 0.47	< 0.48	< 0.32	< 0.34
PCB 1232	0.5	< 0.05	NA	< 0.5	< 0.12	< 0.43	< 0.44	< 0.43	< 0.39	< 0.4	< 0.21	< 0.23
PCB 1242	0.5	< 0.05	NA	< 0.5	< 0.13	< 0.18	< 0.18	< 0.18	< 0.16	< 0.17	< 0.093	< 0.099
PCB 1248	0.5	< 0.05	NA	< 0.5	< 0.072	< 0.17	< 0.17	< 0.17	< 0.15	< 0.16	< 0.26	< 0.28
PCB 1254	0.5	< 0.05	NA	< 0.5	< 0.072	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11	< 0.12	< 0.12
PCB 1260	0.5	< 0.05	NA	< 0.5	< 0.1	< 0.13	< 0.13	< 0.13	< 0.12	< 0.12	< 0.15	< 0.16
Total PCBs		0	NA	0	0	0	0	0	0	0	0	0
Metals -Total												
Arsenic	3	< 2	< 2	< 5	< 5	< 1.5	< 1.5	< 1.1	< 1.7	< 1.7	< 2.4	< 2.4
Iron	300	NA	NA	< 100	< 100	104	< 25	19.5 BJ	67.4 B	< 7.4	72.9 B	79.6 B
Lead	5	< 50	< 50	< 3	< 3	< 2.6	< 2.8	< 0.94	< 1.4	< 1.4	< 1.7	< 1.7
Manganese	50	NA	NA	< 15	< 15	2.4 BJ	1.3 B	1.6 BJ	1.9 B	0.7 B	2.5 B	2.6 B
Metals -Dissolved												
Arsenic	3	NA	NA	< 5	< 5	< 1.5	< 1.5	< 1.1	< 1.7	< 1.7	< 2.4	< 2.4
Iron	300	NA	NA	< 100	< 100	< 67	< 25	20.5 BJ	12 B	< 7.4	15.7 B	< 12
Lead	5	NA	NA	< 3	< 3	< 2.6	< 2.8	< 0.94	< 1.4	< 1.4	< 1.7	< 1.7
Manganese	50	NA	NA	< 15	< 15	2.4 BJ	1.4 B	1.8 BJ	1.3 B	< 0.24	1.4 B	1.3 B

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

ARCADIS

Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		OB-13							
Sample Name	GWQS[1]	OB-13	OB-13	OB-13	OB-13	OB-13	OB-13	OB-13	OB-13
Sample Date		6/17/1986	3/24/1988	10/30/1989	1/30/1990	4/24/1990	7/24/1990	10/13/2004	10/3/2006
VOC									
Benzene	1	NA	< 5	< 2	< 2	< 2 JS	< 2	< 0.5	< 0.21
Ethylbenzene	700	NA	< 5	< 2	< 2	< 2 JS	< 2	< 0.5	< 0.2
Toluene	1000	NA	< 5	< 2	< 2	< 2 JS	< 2	< 0.5	< 0.2
Xylene, -m	NS	NA	< 5	< 2	< 2	< 2 JS	< 2	NA	NA
Xylene, -m,p	NS	NA	NA	NA	NA	NA	NA	NA	< 0.42
Xylene. -o	NS	NA	< 5	< 2	< 2	< 2 JS	< 2	NA	< 0.31
Xylenes	1,000	NA	NA	NA	NA	NA	NA	< 1	< 0.31
PCBs									
PCB 1016	0.5	< 0.5	NA	NA	NA	NA	NA	< 0.075	< 0.1
PCB 1221	0.5	< 0.5	NA	NA	NA	NA	NA	< 0.085	< 0.51
PCB 1232	0.5	< 0.5	NA	NA	NA	NA	NA	< 0.12	< 0.42
PCB 1242	0.5	< 0.5	NA	NA	NA	NA	NA	< 0.13	< 0.18
PCB 1248	0.5	< 0.5	NA	NA	NA	NA	NA	< 0.072	< 0.16
PCB 1254	0.5	< 0.5	NA	NA	NA	NA	NA	< 0.072	< 0.12
PCB 1260	0.5	< 0.5	NA	NA	NA	NA	NA	< 0.1	< 0.13
Total PCBs		0	NA	NA	NA	NA	NA	0	0
Metals -Total									
Arsenic	3	< 2	NA	< 2	< 2	< 5	< 5	< 5	< 1.5
Iron	300	NA	NA	206 JMt	**1050**	**407**	**2200**	< 100	67.2 B
Lead	5	< 50	NA	< 5	< 5	< 5	31.4	< 3	< 2.6
Manganese	50	NA	NA	< 10	12	< 10	31	< 15 J	1.1 B
Metals -Dissolved									
Arsenic	3	NA	NA	NA	NA	NA	NA	< 5	< 1.5
Iron	300	NA	NA	NA	NA	NA	NA	< 100	< 67
Lead	5	NA	NA	NA	NA	NA	NA	< 3	< 2.6
Manganese	50	NA	NA	NA	NA	NA	NA	< 15 J	0.63 B

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

ARCADIS

Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		OB-13				
Sample Name	GWQS[1]	OB-13	OB-13	OB-13	OB-13	OB-13
Sample Date		4/3/2007	10/8/2007	4/28/2008	9/10/2008	7/1/2009
VOC						
Benzene	1	< 0.21	< 0.19	<0.26	<0.26	< 0.23
Ethylbenzene	700	< 0.2	< 0.21	<0.27	<0.27	< 0.27
Toluene	1000	< 0.2	< 0.21	<0.15	<0.15	< 0.3
Xylene, -m	NS	NA	NA	NA	NA	
Xylene, -m,p	NS	< 0.42	< 0.35	<0.39	<0.39	< 0.25
Xylene. -o	NS	< 0.31	< 0.2	<0.45	<0.45	< 0.25
Xylenes	1,000	< 0.31	< 0.2	<0.39	<0.39	< 0.25
PCBs						
PCB 1016	0.5	< 0.11	< 0.099	< 0.1	< 0.094	
PCB 1221	0.5	< 0.53	< 0.49	< 0.52	< 0.47	< 0.19
PCB 1232	0.5	< 0.44	< 0.41	< 0.43	< 0.49	< 0.31
PCB 1242	0.5	< 0.18	< 0.17	< 0.18	< 0.16	< 0.21
PCB 1248	0.5	< 0.17	< 0.16	< 0.17	< 0.15	< 0.089
PCB 1254	0.5	< 0.12	< 0.11	< 0.12	< 0.11	< 0.25
PCB 1260	0.5	< 0.13	< 0.12	< 0.13	< 0.12	< 0.11
Total PCBs		0	0	0	0	< 0.14
						0
Metals -Total						
Arsenic	3	< 1.5	< 1.1	< 1.7	< 1.7	< 2.4
Iron	300	< 25	10.3 BJ	40.4 B	20.1 B	63.1 B
Lead	5	< 2.8	< 0.94	< 1.4	< 1.4	< 1.7
Manganese	50	< 0.6	1.4 BJ	0.8 B	1.8 B	5.4 B
Metals -Dissolved						
Arsenic	3	< 1.5	< 1.1	< 1.7	< 1.7	< 2.4
Iron	300	< 25	< 6.3 J	16.7 B	< 7.4	14 B
Lead	5	< 2.8	< 0.94	< 1.4	< 1.4	< 1.7
Manganese	50	< 0.6	1.3 BJ	0.7 B	2.8 B	2 B

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

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Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		OB-14A						
Sample Name	**GWQS[1]**	**OB-14A**	**OB-14A**	**OB-14A**	**OB-14A**	**OB-14A**	**OB-14A**	**OB-14A**
Sample Date		**6/16/1986**	**3/22/1988**	**10/31/1989**	**1/30/1990**	**4/24/1990**	**7/24/1990**	**1/15/1992**
VOC								
Benzene	1	NA	< 5	< 2	< 2	< 2	< 2	< 1
Ethylbenzene	700	NA	< 5	< 2	< 2	< 2	< 2	< 5
Toluene	1000	NA	< 5	< 2	< 2	< 2	< 2	< 5
Xylene, -m	NS	NA	< 5	< 2	< 2	< 2	< 2	NA
Xylene, -m,p	NS	NA	NA	NA	NA	NA	NA	< 5
Xylene. -o	NS	NA	< 5	< 2	< 2	< 2	< 2	< 5
Xylenes	1,000	NA	NA	NA	NA	NA	NA	NA
PCBs								
PCB 1016	0.5	< 0.5	NA	NA	NA	NA	NA	NA
PCB 1221	0.5	< 0.5	NA	NA	NA	NA	NA	NA
PCB 1232	0.5	< 0.5	NA	NA	NA	NA	NA	NA
PCB 1242	0.5	< 0.5	NA	NA	NA	NA	NA	NA
PCB 1248	0.5	< 0.5	NA	NA	NA	NA	NA	NA
PCB 1254	0.5	< 0.5	NA	NA	NA	NA	NA	NA
PCB 1260	0.5	< 0.5	NA	NA	NA	NA	NA	NA
Total PCBs		0	NA	NA	NA	NA	NA	NA
Metals -Total								
Arsenic	3	**15**	**56.6**	**23.3**	**26.5**	**28.3**	**20.5**	**28.3**
Iron	300	NA	NA	**74400**	**86500**	**44300**	**51700**	**67200**
Lead	5	< 50	**85**	17.9	**17.9**	< 5	15.5	< 20.8
Manganese	50	NA	NA	**1360**	**3780**	**4860**	**2880**	**4140**
Metals -Dissolved								
Arsenic	3	NA	**29.4**	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	NA	NA
Lead	5	NA	< 50	NA	NA	NA	NA	NA
Manganese	50	NA	NA	NA	NA	NA	NA	NA

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

ARCADIS

Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well Sample Name Sample Date	GWQS[1]	OB-14A 7/29/1992	OB-14A 2/17/1993
VOC			
Benzene	1	< 0.5	< 1
Ethylbenzene	700	< 5	< 5
Toluene	1000	< 5	< 5
Xylene, -m	NS	NA	NA
Xylene, -m,p	NS	< 5	< 5
Xylene. -o	NS	< 5	< 5
Xylenes	1,000	NA	NA
PCBs			
PCB 1016	0.5	NA	NA
PCB 1221	0.5	NA	NA
PCB 1232	0.5	NA	NA
PCB 1242	0.5	NA	NA
PCB 1248	0.5	NA	NA
PCB 1254	0.5	NA	NA
PCB 1260	0.5	NA	NA
Total PCBs		NA	NA
Metals -Total			
Arsenic	3	**41.3 J**	**14.4**
Iron	300	**376000**	**86400**
Lead	5	**107**	1.7 B
Manganese	50	**6440**	**2670**
Metals -Dissolved			
Arsenic	3	NA	NA
Iron	300	NA	NA
Lead	5	NA	NA
Manganese	50	NA	NA

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

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Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		OB-14A						
Sample Name	**GWQS[1]**	**OB-14A**	**OB-14A**	**OB-14A**	**OB-14A**	**OB-14A**	**OB-14A**	**OB-14A**
Sample Date		**7/27/1993**	**2/21/1995**	**8/7/1995**	**8/16/1999**	**4/13/2000**	**10/12/2004**	**9/27/2006**
VOC								
Benzene	1	< 1	< 1	< 1	< 10	NA	< 0.5	< 0.21
Ethylbenzene	700	< 5	< 10	< 10	< 10	NA	< 0.5	< 0.2
Toluene	1000	< 5	< 10	< 10	< 10	NA	< 0.5	< 0.2
Xylene, -m	NS	NA	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	< 5	< 10	< 10	NA	NA	NA	< 0.42
Xylene. -o	NS	< 5	< 10	< 10	NA	NA	NA	< 0.31
Xylenes	1,000	NA	NA	NA	< 10	NA	< 1	< 0.31
PCBs								
PCB 1016	0.5	NA	NA	NA	NA	NA	< 0.075 J	< 0.1
PCB 1221	0.5	NA	NA	NA	NA	NA	< 0.085	< 0.51
PCB 1232	0.5	NA	NA	NA	NA	NA	< 0.12	< 0.42
PCB 1242	0.5	NA	NA	NA	NA	NA	< 0.13	< 0.18
PCB 1248	0.5	NA	NA	NA	NA	NA	< 0.072	< 0.17
PCB 1254	0.5	NA	NA	NA	NA	NA	< 0.072	< 0.12
PCB 1260	0.5	NA	NA	NA	NA	NA	< 0.1	< 0.13
Total PCBs		NA	NA	NA	NA	NA	0	0
Metals -Total								
Arsenic	3	**41.2**	**32.7**	**4.9 B**	**20.5**	**11.9**	**16.7**	**4.5 J**
Iron	300	**290000**	**64500**	**103000**	NA	NA	**55600**	**42300**
Lead	5	**117**	3.8	**47**	< 1.7	3.3	< 3	< 2.6
Manganese	50	**7350**	**4150**	**3320**	NA	NA	**2320**	**1050 J**
Metals -Dissolved								
Arsenic	3	NA	NA	NA	NA	**9.7 B**	**19.6**	**5.5 J**
Iron	300	NA	NA	NA	NA	NA	**59400**	**46100**
Lead	5	NA	NA	NA	NA	< 1.3	< 3	< 2.6
Manganese	50	NA	NA	NA	NA	NA	**2550**	**1230 J**

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

ARCADIS

Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well Sample Name Sample Date	GWQS[1]	OB-14A 4/9/2007
VOC		
Benzene	1	< 0.21
Ethylbenzene	700	< 0.2
Toluene	1000	< 0.2
Xylene, -m	NS	NA
Xylene, -m,p	NS	< 0.42
Xylene. -o	NS	< 0.31
Xylenes	1,000	< 0.31
PCBs		
PCB 1016	0.5	< 0.1
PCB 1221	0.5	< 0.51
PCB 1232	0.5	< 0.42
PCB 1242	0.5	< 0.18
PCB 1248	0.5	< 0.17
PCB 1254	0.5	< 0.12
PCB 1260	0.5	< 0.13
Total PCBs		0
Metals -Total		
Arsenic	3	2.4
Iron	300	**45500**
Lead	5	3.3
Manganese	50	**1040 J**
Metals -Dissolved		
Arsenic	3	< 1.5
Iron	300	**46200**
Lead	5	2.9 B
Manganese	50	**1070 J**

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

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Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		OB-14A				
Sample Name	**GWQS[1]**	**OB-14A**	**OB-14A (DUP)**	**OB-14A**	**OB-14A**	**OB-14A**
Sample Date		**10/11/2007**	**10/11/2007**	**4/30/2008**	**9/11/2008**	**7/6/2009**
VOC						
Benzene	1	< 0.19	< 0.19	<0.26	<0.26	< 0.23
Ethylbenzene	700	< 0.21	< 0.21	<0.27	<0.27	< 0.27
Toluene	1000	< 0.21	< 0.21	<0.15	.64 J	< 0.3
Xylene, -m	NS	NA	NA	NA	NA	NA
Xylene, -m,p	NS	< 0.35	< 0.35	<0.39	<0.39	< 0.25
Xylene. -o	NS	< 0.2	< 0.2	<0.45	<0.45	< 0.25
Xylenes	1,000	< 0.2	< 0.2	<0.39	<0.39	< 0.25
PCBs						
PCB 1016	0.5	< 0.099	< 0.094	< 0.1	< 0.098	< 0.2
PCB 1221	0.5	< 0.49	< 0.47	< 0.51	< 0.49	< 0.33
PCB 1232	0.5	< 0.41	< 0.39	< 0.42	< 0.41	< 0.22
PCB 1242	0.5	< 0.17	< 0.16	< 0.18	< 0.17	< 0.096
PCB 1248	0.5	< 0.16	< 0.15	< 0.17	< 0.16	< 0.27
PCB 1254	0.5	< 0.11	< 0.11	< 0.12	< 0.11	< 0.12
PCB 1260	0.5	< 0.12	< 0.12	< 0.13	< 0.12	< 0.15
Total PCBs		0	0	0	0	0
Metals -Total						
Arsenic	3	**23.1**	**21.6**	**14.4**	**2.3 B**	2.8 B
Iron	300	**61400**	**59600**	**52500**	**34700**	**50500**
Lead	5	1.4 B	1 B	4	< 1.4	< 1.7
Manganese	50	**2770**	**2640**	**1870 J**	**773**	**1360**
Metals -Dissolved						
Arsenic	3	**5.6**	**5**	**3.8**	< 1.7	2.5 B
Iron	300	**39900**	**32400**	**18800**	**15100**	**47100**
Lead	5	< 0.94	1.2 B	2.7 B	< 1.4	< 1.7
Manganese	50	**2710**	**2860**	**1810 J**	**722**	**1400**

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

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Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		OB-14B						
Sample Name	**GWQS[1]**	**OB-14B**	**OB-14B**	**OB-14B**	**OB-14B**	**OB-14B**	**OB-14B**	**OB-14B**
Sample Date		**6/16/1986**	**3/22/1988**	**10/31/1989**	**1/30/1990**	**4/24/1990**	**7/24/1990**	**1/15/1992**
VOC								
Benzene	1	NA	< 5	< 2	< 2	< 2	< 2	< 1
Ethylbenzene	700	NA	< 5	< 2	< 2	< 2	< 2	< 5
Toluene	1000	NA	< 5	< 2	< 2	< 2	< 2	4 J
Xylene, -m	NS	NA	< 5	< 2	< 2	< 2	< 2	NA
Xylene, -m,p	NS	NA	NA	NA	NA	NA	NA	< 5
Xylene. -o	NS	NA	< 5	< 2	< 2	< 2	< 2	< 5
Xylenes	1,000	NA	NA	NA	NA	NA	NA	NA
PCBs								
PCB 1016	0.5	< 0.5	NA	NA	NA	NA	NA	NA
PCB 1221	0.5	< 0.5	NA	NA	NA	NA	NA	NA
PCB 1232	0.5	< 0.05	NA	NA	NA	NA	NA	NA
PCB 1242	0.5	< 0.05	NA	NA	NA	NA	NA	NA
PCB 1248	0.5	< 0.05	NA	NA	NA	NA	NA	NA
PCB 1254	0.5	< 0.05	NA	NA	NA	NA	NA	NA
PCB 1260	0.5	< 0.05	NA	NA	NA	NA	NA	NA
Total PCBs		0	NA	NA	NA	NA	NA	NA
Metals -Total								
Arsenic	3	**3.6**	< 2	**5.14**	< 2	**19.2**	< 5	**7.9**
Iron	300	NA	NA	**14200**	**14700**	**37600**	**8710**	**15900**
Lead	5	< 50	< 50	< 5	< 5	19.8	14	**26.4**
Manganese	50	NA	NA	**2120**	**1760**	**2000**	**1400**	**1840**
Metals -Dissolved								
Arsenic	3	NA	< 2	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	NA	NA
Lead	5	NA	< 50	NA	NA	NA	NA	NA
Manganese	50	NA	NA	NA	NA	NA	NA	NA

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

ARCADIS

Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well Sample Name Sample Date	GWQS[1]	OB-14B 7/28/1992	OB-14B 2/17/1993	OB-14B 7/27/1993
VOC				
Benzene	1	< 0.5	< 1	< 1
Ethylbenzene	700	< 5	< 5	< 5
Toluene	1000	< 5	< 5	< 5
Xylene, -m	NS	NA	NA	NA
Xylene, -m,p	NS	< 5	< 5	< 5
Xylene. -o	NS	< 5	< 5	< 5
Xylenes	1,000	NA	NA	NA
PCBs				
PCB 1016	0.5	NA	NA	NA
PCB 1221	0.5	NA	NA	NA
PCB 1232	0.5	NA	NA	NA
PCB 1242	0.5	NA	NA	NA
PCB 1248	0.5	NA	NA	NA
PCB 1254	0.5	NA	NA	NA
PCB 1260	0.5	NA	NA	NA
Total PCBs		NA	NA	NA
Metals -Total				
Arsenic	3	< 3 R	1.6 B	**3.2 B**
Iron	300	**1780 E**	**1300**	**2040**
Lead	5	< 24.4	< 0.8	1.5 B
Manganese	50	**1390**	**1380**	**1360**
Metals -Dissolved				
Arsenic	3	NA	NA	NA
Iron	300	NA	NA	NA
Lead	5	NA	NA	NA
Manganese	50	NA	NA	NA

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

ARCADIS

Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		OB-14B							
Sample Name	**GWQS[1]**	**OB-14B**	**OB-14B**	**OB-14B**	**OB-14B**	**OB-14B**	**OB-14B**	**OB-14B**	**OB-14B**
Sample Date		**2/21/1995**	**8/7/1995**	**10/12/2004**	**9/27/2006**	**4/9/2007**	**10/11/2007**	**4/30/2008**	**9/11/2008**
VOC									
Benzene	1	< 1	< 1	< 0.5	< 0.21	< 0.21	< 0.19	<0.26	<0.26
Ethylbenzene	700	< 10	< 10	< 0.5	< 0.2	< 0.2	< 0.21	<0.27	<0.27
Toluene	1000	< 10	< 10	< 0.5	< 0.2	< 0.2	< 0.21	<0.15	<0.15
Xylene, -m	NS	NA	NA	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	< 10	< 10	NA	< 0.42	< 0.42	< 0.35	<0.39	<0.39
Xylene. -o	NS	< 10	< 10	NA	< 0.31	< 0.31	< 0.2	<0.45	<0.45
Xylenes	1,000	NA	NA	< 1	< 0.31	< 0.31	< 0.2	<0.39	<0.39
PCBs									
PCB 1016	0.5	NA	NA	< 0.075 J	< 0.1	< 0.12	< 0.11	< 0.1	< 0.096
PCB 1221	0.5	NA	NA	< 0.085	< 0.51	< 0.59	< 0.53	< 0.51	< 0.48
PCB 1232	0.5	NA	NA	< 0.12	< 0.42	< 0.49	< 0.44	< 0.42	< 0.4
PCB 1242	0.5	NA	NA	< 0.13	< 0.18	< 0.21	< 0.18	< 0.18	< 0.17
PCB 1248	0.5	NA	NA	< 0.072	< 0.17	< 0.19	< 0.17	< 0.17	< 0.16
PCB 1254	0.5	NA	NA	< 0.072	< 0.12	< 0.14	< 0.12	< 0.12	< 0.11
PCB 1260	0.5	NA	NA	< 0.1	< 0.13	< 0.15	< 0.13	< 0.13	< 0.12
Total PCBs		NA	NA	0	0	0	0	0	0
Metals -Total									
Arsenic	3	3 B	1.1 B	< 5	< 1.5	< 1.5	2.8 B	2.1 B	2 B
Iron	300	**1350**	**799**	**1740 J**	**959**	**962**	**642**	**890**	**516**
Lead	5	< 2	**7.2**	3.6	< 2.6	< 2.8	1.1 B	3.2	< 1.4
Manganese	50	**1270**	**834**	**1860**	**1900**	**2040 J**	**1500**	**1740 J**	**1560**
Metals -Dissolved									
Arsenic	3	NA	NA	< 5	< 1.5	< 1.5	1.6 B	< 1.7	< 1.7
Iron	300	NA	NA	**407**	**949**	**894**	26.5 J	38.2 B	38.2 B
Lead	5	NA	NA	< 3	< 2.6	< 2.8	< 0.94	2.1 B	2.1 B
Manganese	50	NA	NA	**1890**	**1910**	**2020 J**	**1430**	**1690 J**	**1690 J**

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

ARCADIS

Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well Sample Name Sample Date	GWQS[1]	OB-14B 7/6/2009
VOC		
Benzene	1	< 0.23
Ethylbenzene	700	< 0.27
Toluene	1000	< 0.3
Xylene, -m	NS	NA
Xylene, -m,p	NS	< 0.25
Xylene. -o	NS	< 0.25
Xylenes	1,000	< 0.25
PCBs		
PCB 1016	0.5	< 0.19
PCB 1221	0.5	< 0.31
PCB 1232	0.5	< 0.21
PCB 1242	0.5	< 0.089
PCB 1248	0.5	< 0.25
PCB 1254	0.5	< 0.11
PCB 1260	0.5	< 0.14
Total PCBs		0
Metals -Total		
Arsenic	3	< 2.4
Iron	300	**1040**
Lead	5	< 1.7
Manganese	50	**2100**
Metals -Dissolved		
Arsenic	3	< 2.4
Iron	300	70.5 B
Lead	5	< 1.7
Manganese	50	**2130**

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

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Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		OB-15A						
Sample Name	**GWQS[1]**	**OB-15A**	**OB-15A**	**OB-15A-2**	**OB15-A**	**OB-15B**	**OB-15B**	**OB-15B**
Sample Date		**6/1/1986**	**6/16/1986**	**6/16/1986**	**6/24/1986**	**6/16/1986**	**3/22/1988**	**10/30/1989**
VOC								
Benzene	1	< 10	NA	NA	NA	< 10	< 5	< 2
Ethylbenzene	700	< 10	NA	NA	NA	< 10	< 5	< 2
Toluene	1000	22	NA	NA	NA	< 10	< 5	< 2
Xylene, -m	NS	NA	NA	NA	NA	NA	< 5	< 2
Xylene, -m,p	NS	NA	NA	NA	700	NA	NA	NA
Xylene. -o	NS	NA	NA	NA	220	NA	< 5	< 2
Xylenes	1,000	NA	NA	NA	NA	NA	NA	NA
PCBs								
PCB 1016	0.5	NA	< 0.05	< 0.5	NA	< 0.5	NA	NA
PCB 1221	0.5	NA	< 0.05	< 0.5	NA	< 0.5	NA	NA
PCB 1232	0.5	NA	< 0.05	< 0.5	NA	< 0.5	NA	NA
PCB 1242	0.5	NA	< 0.05	< 0.5	NA	< 0.5	NA	NA
PCB 1248	0.5	NA	< 0.05	< 0.5	NA	< 0.5	NA	NA
PCB 1254	0.5	NA	< 0.05	< 0.5	NA	< 0.5	NA	NA
PCB 1260	0.5	NA	< 0.05	< 0.5	NA	< 0.5	NA	NA
Total PCBs		NA	0	0	NA	0	NA	NA
Metals -Total								
Arsenic	3	NA	**8**	**7.6**	NA	2.2	NA	< 2
Iron	300	NA	NA	NA	NA	NA	NA	**2100 JMt**
Lead	5	NA	**764**	**419**	NA	< 50	NA	47.3
Manganese	50	NA	NA	NA	NA	NA	NA	**898**
Metals -Dissolved								
Arsenic	3	NA	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	NA	NA
Lead	5	NA	NA	NA	NA	NA	NA	NA
Manganese	50	NA	NA	NA	NA	NA	NA	NA

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

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Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		OB-15B						
Sample Name	**GWQS[1]**	**OB-15B**	**OB-15B**	**OB-15B**	**OB-15B**	**OB-15B**	**OB-15B**	**OB-15B**
Sample Date		**1/30/1990**	**4/23/1990**	**7/23/1990**	**1/14/1992**	**7/30/1992**	**2/17/1993**	**7/27/1993**
VOC								
Benzene	1	< 2	< 2	< 2	< 1	< 0.5	< 1	< 1
Ethylbenzene	700	< 2	< 2	< 2	< 5	< 5	< 5	< 5
Toluene	1000	< 2	< 2	< 2	< 5	< 5	< 5	< 5
Xylene, -m	NS	< 2	< 2	< 2	NA	NA	NA	NA
Xylene, -m,p	NS	NA	NA	NA	< 5	< 5	< 5	< 5
Xylene. -o	NS	< 2	< 2	< 2	< 5	< 5	< 5	< 5
Xylenes	1,000	NA	NA	NA	NA	NA	NA	NA
PCBs								
PCB 1016	0.5	NA	NA	NA	NA	NA	NA	NA
PCB 1221	0.5	NA	NA	NA	NA	NA	NA	NA
PCB 1232	0.5	NA	NA	NA	NA	NA	NA	NA
PCB 1242	0.5	NA	NA	NA	NA	NA	NA	NA
PCB 1248	0.5	NA	NA	NA	NA	NA	NA	NA
PCB 1254	0.5	NA	NA	NA	NA	NA	NA	NA
PCB 1260	0.5	NA	NA	NA	NA	NA	NA	NA
Total PCBs		NA	NA	NA	NA	NA	NA	NA
Metals -Total								
Arsenic	3	< 2	< 5	< 5	**5.2**	**26.2**	2.9 B	**4.6 B**
Iron	300	**8910**	**21700**	**12600**	**26400**	**28000**	**7850**	**10300**
Lead	5	< 5	6.13	14.3	< 20.8	< 24.4	0.97 B	**7.5**
Manganese	50	**410**	**1050**	**592**	**2750**	**4910**	**2410**	**6140**
Metals -Dissolved								
Arsenic	3	NA	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	NA	NA
Lead	5	NA	NA	NA	NA	NA	NA	NA
Manganese	50	NA	NA	NA	NA	NA	NA	NA

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

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Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		OB-15B						
Sample Name	**GWQS[1]**	**OB-15B**	**OB-15B**	**OB-15B**	**OB-15B**	**OB-15B**	**OB-15B**	**OB-15B**
Sample Date		**2/21/1995**	**8/7/1995**	**10/12/2004**	**10/3/2006**	**4/12/2007**	**10/16/2007**	**5/2/2008**
VOC								
Benzene	1	< 1	< 1	< 0.5	< 0.21	< 0.21	< 0.19	<0.26
Ethylbenzene	700	< 10	< 10	< 0.5	< 0.2	< 0.2	< 0.21	<0.27
Toluene	1000	< 10	< 10	< 0.5	< 0.2	< 0.2	< 0.21	<0.15
Xylene, -m	NS	NA	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	< 10	< 10	NA	< 0.42	< 0.42	< 0.35	<0.39
Xylene. -o	NS	< 10	< 10	NA	< 0.31	< 0.31	< 0.2	<0.45
Xylenes	1,000	NA	NA	< 1	< 0.31	< 0.31	< 0.2	<0.39
PCBs								
PCB 1016	0.5	NA	NA	< 0.075 J	< 0.094	< 0.1	< 0.1	< 0.1
PCB 1221	0.5	NA	NA	< 0.085	< 0.47	< 0.52	< 0.52	< 0.5
PCB 1232	0.5	NA	NA	< 0.12	< 0.39	< 0.43	< 0.43	< 0.41
PCB 1242	0.5	NA	NA	< 0.13	< 0.16	< 0.18	< 0.18	< 0.17
PCB 1248	0.5	NA	NA	< 0.072	< 0.15	< 0.17	< 0.17	< 0.16
PCB 1254	0.5	NA	NA	< 0.072	< 0.11	< 0.12	< 0.12	< 0.12
PCB 1260	0.5	NA	NA	< 0.1	< 0.12	< 0.13	< 0.13	< 0.12
Total PCBs		NA	NA	0	0	0	0	0
Metals -Total								
Arsenic	3	< 2	< 1	< 5	< 1.5	< 1.5	< 1.1	< 1.7
Iron	300	**2040**	**1080**	**2720**	**1640**	194	158 J	**507**
Lead	5	< 2	1 B	< 3	< 2.6	< 2.8	1 B	2.6 B
Manganese	50	**3230**	**8580**	**488**	**1540**	**440**	**675**	**2370**
Metals -Dissolved								
Arsenic	3	NA	NA	< 5	< 1.5	< 1.5	< 1.1	< 1.7
Iron	300	NA	NA	< 100	< 67	< 25	12.8 BJ	8.4 B
Lead	5	NA	NA	< 3	< 2.6	< 2.8	< 0.94	2.1 B
Manganese	50	NA	NA	**408**	**235**	**81.1**	**162**	**51.3**

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

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Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well Sample Name Sample Date	GWQS[1]	OB-15B 5/2/2008	OB-15B 7/6/2009
VOC			
Benzene	1	<0.26	< 0.23
Ethylbenzene	700	<0.27	< 0.27
Toluene	1000	<0.15	< 0.3
Xylene, -m	NS	NA	NA
Xylene, -m,p	NS	<0.39	< 0.25
Xylene. -o	NS	<0.45	< 0.25
Xylenes	1,000	<0.39	< 0.25
PCBs			
PCB 1016	0.5	< 0.096	< 0.2
PCB 1221	0.5	< 0.48	< 0.32
PCB 1232	0.5	< 0.4	< 0.21
PCB 1242	0.5	< 0.17	< 0.093
PCB 1248	0.5	< 0.16	< 0.26
PCB 1254	0.5	< 0.11	< 0.12
PCB 1260	0.5	< 0.12	< 0.15
Total PCBs		0	0
Metals -Total			
Arsenic	3	< 1.7 B	2.4 B
Iron	300	64.8 B	**1070**
Lead	5	< 1.4	< 1.7
Manganese	50	**1300**	**1830**
Metals -Dissolved			
Arsenic	3	< 1.7	< 2.4
Iron	300	11.2	24.8 B
Lead	5	< 1.4	< 1.7
Manganese	50	**217**	**241**

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

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Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		OB-16							
Sample Name	**GWQS[1]**	**OB-16**	**OB-16**	**OB-16**	**OB-16**	**OB-16**	**OB-16**	**OB-16**	**OB-16**
Sample Date		**1/15/1992**	**7/29/1992**	**2/16/1993**	**7/26/1993**	**2/20/1995**	**8/6/1995**	**8/16/1999**	**4/13/2000**
VOC									
Benzene	1	< 1	< 0.5	< 1	< 1	NA	< 1	NA	NA
Ethylbenzene	700	< 5	< 5	< 5	< 5	NA	< 10	NA	NA
Toluene	1000	< 5	< 5	< 5	< 5	NA	< 10	NA	NA
Xylene, -m	NS	NA	NA	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	< 5	< 5	< 5	< 5	NA	< 10	NA	NA
Xylene. -o	NS	< 5	< 5	< 5	< 5	NA	< 10	NA	NA
Xylenes	1,000	NA	NA	NA	NA	NA	NA	NA	NA
PCBs									
PCB 1016	0.5	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1221	0.5	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1232	0.5	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1242	0.5	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1248	0.5	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1254	0.5	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1260	0.5	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs		NA	NA	NA	NA	NA	NA	NA	NA
Metals -Total									
Arsenic	3	**5.8R**	**3.5 BR**	**6.4 B**	**3.2 B**	**11**	**11.1**	**10.3**	**7.3 B**
Iron	300	**13400**	**14300**	**10600**	**8610**	**12800**	**16700**	NA	NA
Lead	5	< 20.8	< 24.4	0.94 B	1.8 B	< 2	< 0.48	NA	NA
Manganese	50	**3260**	**3610**	**3380**	**3500**	**2790**	**3960**	NA	NA
Metals -Dissolved									
Arsenic	3	NA	NA	NA	NA	NA	NA	NA	< 3.1
Iron	300	NA	NA	NA	NA	NA	NA	NA	NA
Lead	5	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	50	NA	NA	NA	NA	NA	NA	NA	NA

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

ARCADIS

Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		OB-16						
Sample Name	**GWQS[1]**	**OB-16**	**OB-16**	**OB-16**	**OB-16**	**OB-16**	**OB-16**	**OB-16**
Sample Date		**10/12/2004**	**9/27/2006**	**4/10/2007**	**10/10/2007**	**5/1/2008**	**9/11/2008**	**7/8/2009**
VOC								
Benzene	1	< 0.5	< 0.21	< 0.21	< 0.19	<0.26	<0.26	< 0.23
Ethylbenzene	700	< 0.5	< 0.2	< 0.2	< 0.21	<0.27	<0.27	< 0.27
Toluene	1000	< 0.5	< 0.2	< 0.2	< 0.21	<0.15	<0.15	< 0.3
Xylene, -m	NS	NA	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	NA	< 0.42	< 0.42	< 0.35	<0.39	<0.39	< 0.25
Xylene. -o	NS	NA	< 0.31	< 0.31	< 0.2	<0.45	<0.45	< 0.25
Xylenes	1,000	< 1	< 0.31	< 0.31	< 0.2	<0.39	<0.39	< 0.25
PCBs								
PCB 1016	0.5	< 0.075 J	< 0.1	< 0.1 R	< 0.099	< 0.099	< 0.1	< 0.21
PCB 1221	0.5	< 0.085	< 0.5	< 0.5 R	< 0.49	< 0.5	< 0.5	< 0.34
PCB 1232	0.5	< 0.12	< 0.41	< 0.41 R	< 0.41	< 0.41	< 0.41	< 0.23
PCB 1242	0.5	< 0.13	< 0.17	< 0.17 R	< 0.17	< 0.17	< 0.17	< 0.099
PCB 1248	0.5	< 0.072	< 0.16	< 0.16 R	< 0.16	< 0.16	< 0.16	< 0.28
PCB 1254	0.5	< 0.072	< 0.12	< 0.12 R	< 0.11	< 0.12	< 0.12	< 0.12
PCB 1260	0.5	< 0.1	< 0.12	< 0.12 R	< 0.12	< 0.12	< 0.12	< 0.16
Total PCBs		0	0	0	0	0	0	0
Metals -Total								
Arsenic	3	**7.6**	**6.2**	**4.4**	**8.8**	**4.6**	**7.4**	**5.1**
Iron	300	**11000 J**	**9890**	**8050**	**15400**	**11100**	**12200**	**12400**
Lead	5	< 3	< 2.6	< 2.8	< 0.94	3.7	< 1.4	< 1.7
Manganese	50	**3060**	**2840**	**2230**	**3940**	**2860**	**3250**	**3030**
Metals -Dissolved								
Arsenic	3	**6.3**	**4.2**	**3.3**	**3.6**	< 1.7	2.6 B	< 2.4
Iron	300	**10200**	**9620**	**9140**	**5400**	**912**	**3660**	**2610**
Lead	5	< 3	< 2.6	< 2.8	< 0.94	1.6 B	< 1.4	< 1.7
Manganese	50	**3080**	**2770**	**2470**	**3830**	**2740**	**57.6**	**2990**

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

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Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		OB-17							
Sample Name	**GWQS[1]**	**OB-17**	**OB-17**	**OB-17**	**OB-17**	**OB-17**	**OB-17**	**OB-17**	**OB-17**
Sample Date		**1/16/1992**	**7/29/1992**	**2/16/1993**	**7/26/1993**	**2/20/1995**	**2/21/1995**	**8/6/1995**	**8/16/1999**
VOC									
Benzene	1	< 1	< 0.5	< 1	< 1	NA	< 1	< 1	NA
Ethylbenzene	700	< 5	2 J	< 5	< 5	NA	< 10	< 10	NA
Toluene	1000	< 5	160	< 5	< 5	NA	< 10	< 10	NA
Xylene, -m	NS	NA	NA	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	< 5	< 5	< 5	< 5	NA	< 10	< 10	NA
Xylene. -o	NS	< 5	< 5	< 5	< 5	NA	< 10	< 10	NA
Xylenes	1,000	NA	NA	NA	NA	NA	NA	NA	NA
PCBs									
PCB 1016	0.5	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1221	0.5	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1232	0.5	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1242	0.5	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1248	0.5	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1254	0.5	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1260	0.5	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs		NA	NA	NA	NA	NA	NA	NA	NA
Metals -Total									
Arsenic	3	**11.7**	**28.9 J**	**25.2**	**8.9 B**	**20.9**	NA	**19.3**	**8.6 B**
Iron	300	**23600**	**54900**	**74100**	**32900**	**18900**	NA	**14300**	NA
Lead	5	< 20.8	< 24.4	**7.3**	**7.1**	< 2	NA	0.61 B	NA
Manganese	50	**15000**	**20200**	**10100**	**7430**	**4560**	NA	**3290**	NA
Metals -Dissolved									
Arsenic	3	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	NA	NA	NA
Lead	5	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	50	NA	NA	NA	NA	NA	NA	NA	NA

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

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Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		OB-17							
Sample Name	**GWQS[1]**	**OB-17**	**OB-17**	**OB-17**	**OB-17**	**OB-17**	**OB-17**	**OB-17**	**OB-17**
Sample Date		**4/13/2000**	**10/11/2004**	**9/27/2006**	**4/10/2007**	**10/10/2007**	**5/1/2008**	**5/1/2008**	**7/8/2009**
VOC									
Benzene	1	NA	< 0.5	< 0.21	< 0.21	< 0.19	<0.26	<0.26	< 0.23
Ethylbenzene	700	NA	< 0.5	< 0.2	< 0.2	< 0.21	<0.27	<0.27	< 0.27
Toluene	1000	NA	< 0.5	< 0.2	< 0.2	< 0.21	<0.15	<0.15	< 0.3
Xylene, -m	NS	NA	NA	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	NA	NA	< 0.42	< 0.42	< 0.35	<0.39	<0.39	< 0.25
Xylene. -o	NS	NA	NA	< 0.31	< 0.31	< 0.2	<0.45	<0.45	< 0.25
Xylenes	1,000	NA	< 1	< 0.31	< 0.31	< 0.2	<0.39	<0.39	< 0.25
PCBs									
PCB 1016	0.5	NA	< 0.075 J	< 0.1	< 0.1	< 0.094	< 0.099	< 0.094	< 0.2
PCB 1221	0.5	NA	< 0.085	< 0.52	< 0.5	< 0.47	< 0.49	< 0.47	< 0.32
PCB 1232	0.5	NA	< 0.12	< 0.43	< 0.41	< 0.39	< 0.41	< 0.39	< 0.22
PCB 1242	0.5	NA	< 0.13	< 0.18	< 0.17	< 0.16	< 0.17	< 0.16	< 0.094
PCB 1248	0.5	NA	< 0.072	< 0.17	< 0.16	< 0.15	< 0.16	< 0.15	< 0.27
PCB 1254	0.5	NA	< 0.072	< 0.12	< 0.12	< 0.11	< 0.11	< 0.11	< 0.12
PCB 1260	0.5	NA	< 0.1	< 0.13	< 0.12	< 0.12	< 0.12	< 0.12	< 0.15
Total PCBs		NA	0	0	0	0	0	0	0
Metals -Total									
Arsenic	3	**4.5 B**	< 5	< 1.5	< 1.5	2.5 B	< 1.7	< 1.7	< 2.4
Iron	300	NA	**2470**	**1770**	**1410**	**3830**	**1570**	79.9 B	**3130**
Lead	5	NA	< 3	< 2.6	3.5	1.7 B	2.3 B	1.4 B	< 1.7
Manganese	50	NA	**825**	**619**	**496**	**669**	**472**	**64.5**	**496**
Metals -Dissolved									
Arsenic	3	< 3.1	< 5	< 1.5	< 1.5	< 1.1	< 1.7	< 1.7	< 2.4
Iron	300	NA	**2150**	**1580**	**1080**	**419**	200	25 B	**1430**
Lead	5	NA	< 3	< 2.6	< 2.8	< 0.94	2.4 B	< 1.4	< 1.7
Manganese	50	NA	**804**	**586**	**482**	**610**	**463**	**57.6**	**493**

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

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Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		OB-18					
Sample Name	**GWQS[1]**	**OB-18**	**OB-18**	**OB-18**	**OB-18**	**OB-18**	**OB-18**
Sample Date		**1/16/1992**	**7/29/1992**	**2/16/1993**	**7/26/1993**	**2/21/1995**	**8/6/1995**
VOC							
Benzene	1	< 1	< 0.5	< 1	< 1	< 1	< 1
Ethylbenzene	700	< 5	< 5	< 5	< 5	< 10	< 10
Toluene	1000	< 5	< 5	< 5	< 5	3 J	< 10
Xylene, -m	NS	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	< 5	< 5	< 5	< 5	3 J	< 10
Xylene. -o	NS	< 5	< 5	< 5	< 5	< 10	< 10
Xylenes	1,000	NA	NA	NA	NA	NA	NA
PCBs							
PCB 1016	0.5	NA	NA	NA	NA	NA	NA
PCB 1221	0.5	NA	NA	NA	NA	NA	NA
PCB 1232	0.5	NA	NA	NA	NA	NA	NA
PCB 1242	0.5	NA	NA	NA	NA	NA	NA
PCB 1248	0.5	NA	NA	NA	NA	NA	NA
PCB 1254	0.5	NA	NA	NA	NA	NA	NA
PCB 1260	0.5	NA	NA	NA	NA	NA	NA
Total PCBs		NA	NA	NA	NA	NA	NA
Metals -Total							
Arsenic	3	**10.8**	**14.5**	1.7 B	**65**	< 2	< 1
Iron	300	**69900**	**20600**	**17800**	**263000**	**2650**	**3100**
Lead	5	**43.2**	< 24.4	2 B	**101**	< 2	1.6 B
Manganese	50	**2240**	**450**	**336**	**6200**	**80.1**	**68.5**
Metals -Dissolved							
Arsenic	3	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	NA
Lead	5	NA	NA	NA	NA	NA	NA
Manganese	50	NA	NA	NA	NA	NA	NA

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

ARCADIS

Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		OB-18							
Sample Name	**GWQS[1]**	**OB-18**	**OB-18**	**OB-18**	**OB-18 (DUP)**	**OB-18**	**OB-18**	**OB-18**	**OB-18**
Sample Date		**10/11/2004**	**9/26/2006**	**4/10/2007**	**4/10/2007**	**10/10/2007**	**5/1/2008**	**9/11/2008**	**7/8/2009**
VOC									
Benzene	1	< 0.5	< 0.21	< 0.21	< 0.21	< 0.19	<0.26	<0.26	< 0.23
Ethylbenzene	700	< 0.5	< 0.2	< 0.2	< 0.2	< 0.21	<0.27	<0.27	< 0.27
Toluene	1000	< 0.5	< 0.2	< 0.2	< 0.2	< 0.21	<0.15	<0.15	< 0.3
Xylene, -m	NS	NA	NA	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	NA	< 0.42	< 0.42	< 0.42	< 0.35	<0.39	<0.39	< 0.25
Xylene. -o	NS	NA	< 0.31	< 0.31	< 0.31	< 0.2	<0.45	<0.45	< 0.25
Xylenes	1,000	< 1	< 0.31	< 0.31	< 0.31	< 0.2	<0.39	<0.39	< 0.25
PCBs									
PCB 1016	0.5	< 0.075 J	< 0.099	< 0.1	< 0.094	< 0.094	< 0.099	< 0.094	< 0.19
PCB 1221	0.5	< 0.085	< 0.49	< 0.52	< 0.47	< 0.47	< 0.49	< 0.47	< 0.31
PCB 1232	0.5	< 0.12	< 0.41	< 0.43	< 0.39	< 0.39	< 0.41	< 0.39	< 0.21
PCB 1242	0.5	< 0.13	< 0.17	< 0.18	< 0.16	< 0.16	< 0.17	< 0.16	< 0.089
PCB 1248	0.5	< 0.072	< 0.16	< 0.17	< 0.15	< 0.15	< 0.16	< 0.15	< 0.25
PCB 1254	0.5	< 0.072	< 0.11	< 0.12	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
PCB 1260	0.5	< 0.1	< 0.12	< 0.13	< 0.12	< 0.12	< 0.12	< 0.12	< 0.14
Total PCBs		0	0	0	0	0	0	0	0
Metals -Total									
Arsenic	3	< 5	< 1.5	< 1.5	< 1.5	< 1.1	< 1.7	< 1.7	< 2.4
Iron	300	< 100	78.5 B	< 25	< 25	251	18.1 B	66.8 B	**490**
Lead	5	< 3	< 2.6	< 2.8	< 2.8	1.2 B	< 1.4	< 1.4	< 1.7
Manganese	50	< 15	< 0.4	1.5 BJ	0.77 BJ	9.4 B	0.8 B	4.9 B	9.8 B
Metals -Dissolved									
Arsenic	3	< 5	< 1.5	< 1.5	< 1.5	< 1.1	< 1.7	< 1.7	< 2.4
Iron	300	< 100	< 67	< 25	< 25	< 6.3	< 7.4	18 B	26.5 B
Lead	5	< 3	< 2.6	< 2.8	< 2.8	1 B	1.8 B	< 1.4	< 1.7
Manganese	50	< 15	< 0.4	< 0.6	< 0.6	< 0.17	0.5 B	1.4 B	1.1 B

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

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Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well					OB-19							OB-20A
Sample Name	**GWQS[1]**	**MW-19**	**OB-19**	**OB-19**	**OB-19 (DUP)**	**OB-19**	**OB-19**	**OB-19**	**MW-20**	**OB-20A**	**OB-20A**	**OB-20A**
Sample Date		**10/3/2006**	**4/9/2007**	**10/15/2007**	**10/15/2007**	**4/29/2008**	**9/12/2008**	**7/7/2009**	**10/4/2006**	**4/3/2007**	**10/11/2007**	**10/11/2007**
VOC												
Benzene	1	0.55 J	0.59 J	< 0.19	< 0.19	0.56 J	0.37 J	**1.2**	0.36 J	0.48 J	0.36 J	<0.26
Ethylbenzene	700	< 0.2	< 0.2	< 0.21	< 0.21	<0.27	<0.27	0.38 J	< 0.2	< 0.2	< 0.21	<0.27
Toluene	1000	< 0.2	< 0.2	< 0.21	< 0.21	<0.15	<0.15	< 0.3	0.56 J	< 0.2	< 0.21	<0.15
Xylene, -m	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	< 0.42	< 0.42	< 0.35	< 0.35	<0.39	<0.39	0.68 J	< 0.42	< 0.42	< 0.35	<0.39
Xylene. -o	NS	< 0.31	< 0.31	< 0.2	< 0.2	0.81 J	<0.45	0.84 J	< 0.31	< 0.31	< 0.2	<0.45
Xylenes	1,000	< 0.31	< 0.31	< 0.2	< 0.2	0.81 J	<0.39	1.5	< 0.31	< 0.31	< 0.2	<0.39
PCBs												
PCB 1016	0.5	< 0.1	< 0.1	< 0.1	< 0.1	< 0.094	< 0.094	< 0.21	< 0.1	< 0.1	< 0.094	< 0.1
PCB 1221	0.5	< 0.51	< 0.51	< 0.52	< 0.52	< 0.47	< 0.47	< 0.33	< 0.5	< 0.52	< 0.47	< 0.52
PCB 1232	0.5	< 0.42	< 0.42	< 0.43	< 0.43	< 0.39	< 0.39	< 0.22	< 0.41	< 0.43	< 0.39	< 0.43
PCB 1242	0.5	< 0.18	< 0.18	< 0.18	< 0.18	< 0.16	< 0.16	< 0.097	< 0.17	< 0.18	< 0.16	< 0.18
PCB 1248	0.5	< 0.16	< 0.16	< 0.17	< 0.17	< 0.15	< 0.15	< 0.28	< 0.16	< 0.17	< 0.15	< 0.17
PCB 1254	0.5	< 0.12	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11	< 0.12	< 0.12	< 0.12	< 0.11	< 0.12
PCB 1260	0.5	< 0.13	< 0.13	< 0.13	< 0.13	< 0.12	< 0.12	< 0.16	< 0.12	< 0.13	< 0.12	< 0.13
Total PCBs		0	0	0	0	0	0	0	0	0	0	0
Metals -Total												
Arsenic	3	**3.1**	< 1.5	1.9 B	1.8 B	< 1.7	**4**	< 2.4	**13.9**	**24.6**	**18.6**	**3.7**
Iron	300	**43600**	**18600**	**20000**	**20200**	**10100**	**20000**	**37500**	**42400**	**60100**	**49600**	**28200**
Lead	5	**9.4**	< 2.8	1.3 B	1 B	1.4 B	< 1.4	< 1.7	< 2.6	< 2.8	3	2.1 B
Manganese	50	**713**	**276 J**	**987 J**	**1150**	**180**	**755**	**447**	**3470**	**7740**	**5590**	**885**
Metals -Dissolved												
Arsenic	3	< 1.5	< 1.5	< 1.1	< 1.1	< 1.7	< 1.7	< 2.4	**13.1**	**20.8**	2.4 B	< 1.7
Iron	300	**28700**	**18800**	**3940**	**4170**	**1790**	**3920**	**24000**	**39800**	**58100**	**18600**	**9240**
Lead	5	< 2.6	< 2.8	1.1 B	< 0.94	< 1.4	< 1.4	< 1.7	< 2.6	< 2.8	< 0.94	1.8 B
Manganese	50	**532**	**282 J**	**1100 J**	**1070**	**177**	**710**	**433**	**3350**	**7520**	**5310**	**857**

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

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Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well Sample Name Sample Date	GWQS[1]	OB-20A 9/15/2007	OB-20A 7/9/2009
VOC			
Benzene	1	<0.26	< 0.23
Ethylbenzene	700	<0.27	< 0.27
Toluene	1000	<0.15	< 0.3
Xylene, -m	NS	NA	NA
Xylene, -m,p	NS	<0.39	< 0.25
Xylene. -o	NS	<0.45	< 0.25
Xylenes	1,000	<0.39	< 0.25
PCBs			
PCB 1016	0.5	< 0.094	< 0.19
PCB 1221	0.5	< 0.47	< 0.31
PCB 1232	0.5	< 0.39	< 0.21
PCB 1242	0.5	< 0.16	< 0.089
PCB 1248	0.5	< 0.15	< 0.25
PCB 1254	0.5	< 0.11	< 0.11
PCB 1260	0.5	< 0.12	< 0.14
Total PCBs		0	0
Metals -Total			
Arsenic	3	**7.8**	2.8 B
Iron	300	**24400**	**26800**
Lead	5	< 1.4	< 1.7
Manganese	50	**1300**	**685**
Metals -Dissolved			
Arsenic	3	**5.3**	2.8 B
Iron	300	**15600**	**30000**
Lead	5	< 1.4	< 1.7
Manganese	50	**1250**	**679**

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

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Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well					OB-20B			
Sample Name	**GWQS[1]**	**MW-20 OB-34**	**OB-20B**	**OB-20B (DUP)**	**OB-20B**	**OB-20B**	**OB-20B**	**OB-20B**
Sample Date		**10/4/2006**	**4/5/2007**	**4/5/2007**	**10/11/2007**	**4/29/2008**	**9/15/2008**	**7/9/2009**
VOC								
Benzene	1	**2**	**1.4**	**1.5**	**1.5**	**1.4**	**0.9 J**	0.83 J
Ethylbenzene	700	< 0.2	< 0.2	< 0.2	< 0.21	<0.27	<0.27	< 0.27
Toluene	1000	0.62 J	< 0.2	< 0.2	< 0.21	<0.15	<0.15	< 0.3
Xylene, -m	NS	NA	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	< 0.42	< 0.42	< 0.42	< 0.35	3.2	0.39	< 0.25
Xylene. -o	NS	< 0.31	< 0.31	< 0.31	< 0.2	<0.45	0.45	< 0.25
Xylenes	1,000	< 0.31	< 0.31	< 0.31	< 0.2	3.2	0.39	< 0.25
PCBs								
PCB 1016	0.5	< 0.1	< 0.099	< 0.1	< 0.094	< 0.1	< 0.094	< 0.19
PCB 1221	0.5	< 0.5	< 0.49	< 0.51	< 0.47	< 0.52	< 0.47	< 0.31
PCB 1232	0.5	< 0.41	< 0.41	< 0.42	< 0.39	< 0.43	< 0.39	< 0.21
PCB 1242	0.5	< 0.17	< 0.17	< 0.18	< 0.16	< 0.18	< 0.16	< 0.089
PCB 1248	0.5	< 0.16	< 0.16	< 0.17	< 0.15	< 0.17	< 0.15	< 0.25
PCB 1254	0.5	< 0.12	< 0.11	< 0.12	< 0.11	< 0.12	< 0.11	< 0.11
PCB 1260	0.5	< 0.12	< 0.12	< 0.13	< 0.12	< 0.13	< 0.12	< 0.14
Total PCBs		0	0	0	0	0	0	0
Metals -Total								
Arsenic	3	1.5 B	1.5 B	< 1.5	1.2 B	< 1.7	**3.8**	2.4 B
Iron	300	**35000**	**31500**	**31200**	**34900**	**26400**	**29200**	**32000**
Lead	5	3.1	< 2.8	< 2.8	1.1 B	3.8	< 1.4	< 1.7
Manganese	50	**9430**	**8680**	**8520**	**9120**	**6800**	**7060**	**7850**
Metals -Dissolved								
Arsenic	3	< 1.5	< 1.5	< 1.5	< 1.1	< 1.7	< 1.7	< 2.4
Iron	300	**32400**	**30100**	**30400**	**11400**	**19600**	**823**	**14700**
Lead	5	< 2.6	2.9 B	3.6	1 B	2.4 B	< 1.4	< 1.7
Manganese	50	**9150**	**8300**	**8450**	**8970**	**6480**	**6690**	**7720**

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

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Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well					OB-21			
Sample Name	**GWQS[1]**	**MW-21**	**OB-21**	**OB-21**	**OB-21**	**OB-21**	**OB-21**	**DUP(070709)**
Sample Date		**10/5/2006**	**4/9/2007**	**10/15/2007**	**4/29/2008**	**9/12/2008**	**7/7/2009**	**7/7/2009**
VOC								
Benzene	1	< 0.21	< 0.21	< 0.19	<0.26	<0.26	< 0.23	< 0.23
Ethylbenzene	700	< 0.2	< 0.2	< 0.21	<0.27	<0.27	< 0.27	< 0.27
Toluene	1000	< 0.2	< 0.2	< 0.21	<0.15	<0.15	< 0.3	< 0.3
Xylene, -m	NS	NA	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	< 0.42	< 0.42	< 0.35	<0.39	<0.39	< 0.25	< 0.25
Xylene. -o	NS	< 0.31	< 0.31	< 0.2	<0.45	<0.45	< 0.25	< 0.25
Xylenes	1,000	< 0.31	< 0.31	< 0.2	<0.39	<0.39	< 0.25	< 0.25
PCBs								
PCB 1016	0.5	< 0.11	< 0.1	< 0.1	< 0.094	< 0.094	< 0.19	< 0.19
PCB 1221	0.5	< 0.53	< 0.51	< 0.52	< 0.47	< 0.47	< 0.31	< 0.31
PCB 1232	0.5	< 0.44	< 0.42	< 0.43	< 0.39	< 0.39	< 0.21	< 0.21
PCB 1242	0.5	< 0.19	< 0.18	< 0.18	< 0.16	< 0.16	< 0.089	< 0.089
PCB 1248	0.5	< 0.17	< 0.17	< 0.17	< 0.15	< 0.15	< 0.25	< 0.25
PCB 1254	0.5	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11	< 0.11	< 0.11
PCB 1260	0.5	< 0.13	< 0.13	< 0.13	< 0.12	< 0.12	< 0.14	< 0.14
Total PCBs		0	0	0	0	0	0	0
Metals -Total								
Arsenic	3	< 1.5	**10.4**	**9 B**	< 1.7	< 1.7	< 2.4	< 2.4
Iron	300	**2090**	**68100**	**54600**	**2520**	**3150**	**1550**	**1790**
Lead	5	< 2.6	**29.2**	**27**	2.1 B	< 1.4	< 1.7	< 1.7
Manganese	50	**93.8**	**2840 J**	**2540**	**113**	**241**	**85.9**	**84.2**
Metals -Dissolved								
Arsenic	3	< 1.5	< 1.5	< 1.1	< 1.7	< 1.7	< 2.4	< 2.4
Iron	300	< 67	< 25	164 J	28.9 B	34.3 B	< 42	< 42
Lead	5	< 2.6	< 2.8	< 0.94	< 1.4	< 1.4	< 1.7	< 1.7
Manganese	50	3.2 B	2.3 BJ	24.3	2.7 B	2.2 B	2.1 B	2.4 B

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

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Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		OB-22					OB-23				
Sample Name	**GWQS[1]**	**OB-22**	**OB-22**	**OB-22**	**OB-22**	**OB-22**	**OB-23**	**OB-23**	**OB-23**	**OB-23**	**OB-23**
Sample Date		**11/30/2006**	**4/4/2007**	**5/1/2008**	**9/18/2008**	**7/8/2009**	**11/28/2006**	**4/11/2007**	**5/2/2008**	**9/18/2008**	**7/8/2009**
VOC											
Benzene	1	< 0.21	< 0.21	<0.26	DRY	< 0.23	< 0.21	< 0.21	<0.26	DRY	< 0.23
Ethylbenzene	700	< 0.2	< 0.2	<0.27	DRY	< 0.27	8.4	0.38 J	<0.27	DRY	< 0.27
Toluene	1000	< 0.2	< 0.2	<0.15	DRY	< 0.3	2.3	< 0.2	<0.15	DRY	< 0.3
Xylene, -m	NS	NA	NA	NA	DRY	NA	NA	NA	NA	DRY	NA
Xylene, -m,p	NS	< 0.42	< 0.42	<0.39	DRY	< 0.25	23.2	1	<0.39	DRY	< 0.25
Xylene. -o	NS	< 0.31	< 0.31	<0.45	DRY	< 0.25	35.6	3.2	<0.45	DRY	< 0.25
Xylenes	1,000	< 0.31	< 0.31	<0.39	DRY	< 0.25	58.8	4.3	<0.39	DRY	< 0.25
PCBs											
PCB 1016	0.5	< 0.1	< 0.1	< 0.1	DRY	< 0.22	< 0.11	< 0.094	< 0.1	DRY	< 0.21
PCB 1221	0.5	< 0.52	< 0.51	< 0.52	DRY	< 0.36	< 0.53	< 0.47	< 0.5	DRY	< 0.34
PCB 1232	0.5	< 0.43	< 0.42	< 0.43	DRY	< 0.24	< 0.44	< 0.39	< 0.41	DRY	< 0.23
PCB 1242	0.5	< 0.18	< 0.18	< 0.18	DRY	< 0.1	< 0.18	< 0.16	< 0.17	DRY	< 0.099
PCB 1248	0.5	< 0.17	< 0.17	< 0.17	DRY	< 0.3	< 0.17	< 0.15	< 0.16	DRY	< 0.28
PCB 1254	0.5	< 0.12	< 0.12	< 0.12	DRY	< 0.13	< 0.12	< 0.11	< 0.12	DRY	< 0.12
PCB 1260	0.5	< 0.13	< 0.13	< 0.13	DRY	< 0.17	< 0.13	< 0.12	< 0.12	DRY	< 0.16
Total PCBs		0	0	0	DRY	0	0	0	0	DRY	0
Metals -Total											
Arsenic	3	**9.5 J**	**5.2**	< 1.7	DRY	< 2.4	1.8 B	< 1.5	< 1.7	DRY	< 2.4
Iron	300	**35200 J**	**19900**	**1600**	DRY	**2960**	**24600**	**14100**	**7760**	DRY	**42300**
Lead	5	**19.5 J**	**9.1**	2.3 B	DRY	< 1.7	< 2.8 J	**24.1**	2.5 B	DRY	**7.5**
Manganese	50	**2060 J**	**805**	39.4	DRY	**64.2**	**1450**	**1650**	**1130**	DRY	**1400**
Metals -Dissolved											
Arsenic	3	< 1.5 J	< 1.5	< 1.7	DRY	< 2.4	< 1.5	< 1.5	< 1.7	DRY	< 2.4
Iron	300	157 J	< 25	15 B	DRY	69.2 B	**24300**	**329**	**401**	DRY	**19000**
Lead	5	< 2.8 J	< 2.8	< 1.4	DRY	< 1.7	3 J	< 2.8	< 1.4	DRY	< 1.7
Manganese	50	**1040 J**	**484**	2.4 B	DRY	6 B	**1470**	**1530**	**1120**	DRY	**1330**

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

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Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		OB-24						
Sample Name	**GWQS[1]**	**OB-24**	**OB-24**	**OB-24**	**OB-24**	**DUP-02(080430) (OB-24)**	**OB-24**	**OB-24**
Sample Date		**11/28/2006**	**4/11/2007**	**10/12/2007**	**10/12/2007**	**4/30/2008**	**9/11/2008**	**7/8/2009**
VOC								
Benzene	1	< 0.21	< 0.21	< 0.19	<0.26	<0.26	<0.26	< 0.23
Ethylbenzene	700	< 0.2	< 0.2	< 0.21	<0.27	<0.27	<0.27	< 0.27
Toluene	1000	< 0.2	< 0.2	< 0.21	<0.15	<0.15	<0.15	< 0.3
Xylene, -m	NS	NA	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	< 0.42	< 0.42	< 0.35	<0.39	<0.39	<0.39	< 0.25
Xylene. -o	NS	< 0.31	< 0.31	< 0.2	<0.45	<0.45	<0.45	< 0.25
Xylenes	1,000	< 0.31	< 0.31	< 0.2	<0.39	<0.39	<0.39	< 0.25
PCBs								
PCB 1016	0.5	< 0.11	< 0.12	< 0.094	< 0.096	< 0.1	< 0.096	< 0.2
PCB 1221	0.5	< 0.53	< 0.59	< 0.47	< 0.48	< 0.5	< 0.48	< 0.32
PCB 1232	0.5	< 0.44	< 0.49	< 0.39	< 0.4	< 0.41	< 0.4	< 0.22
PCB 1242	0.5	< 0.18	< 0.21	< 0.16	< 0.17	< 0.17	< 0.17	< 0.094
PCB 1248	0.5	< 0.17	< 0.19	< 0.15	< 0.16	< 0.16	< 0.16	< 0.27
PCB 1254	0.5	< 0.12	< 0.14	< 0.11	< 0.11	< 0.12	< 0.11	< 0.12
PCB 1260	0.5	< 0.13	< 0.15	< 0.12	< 0.12	< 0.12	< 0.12	< 0.15
Total PCBs		0	0	0	0	0	0	0
Metals -Total								
Arsenic	3	< 1.5	< 1.5	1.9 B	1.7 B	< 1.7	2.5 B	< 2.4
Iron	300	124	129	< 6.3	287 J	223 J	**1520**	**2130**
Lead	5	2.8 B	< 2.8	1.2 BJ	1.5 B	1.6 B	< 1.4	< 1.7
Manganese	50	**487**	**343**	**352**	**262 J**	**272 J**	**742**	**789**
Metals -Dissolved								
Arsenic	3	< 1.5	< 1.5	< 1.1	< 1.7	1.7 B	< 1.7	< 2.4
Iron	300	124	< 25	< 6.3	89.3 BJ	< 7.4 J	17.9 B	26.7 B
Lead	5	< 2.8	< 2.8	1.5 BJ	< 1.4	< 1.4	< 1.4	< 1.7
Manganese	50	**487**	**335**	**333**	**242 J**	**238 J**	**538**	**93**

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

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Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		OB-25							
Sample Name	**GWQS[1]**	**OB-25**	**OB-25**	**OB-25**	**OB-25**	**OB-25**	**OB-25**	**OB-25**	**OB-25**
Sample Date		**11/30/2006**	**4/12/2007**	**10/12/2007**	**10/12/2007**	**10/12/2007**	**4/29/2008**	**9/18/2008**	**7/6/2009**
VOC									
Benzene	1	< 0.21	< 0.21	< 0.19	<0.26	<0.26	<0.26	<0.26	< 0.23
Ethylbenzene	700	< 0.2	< 0.2	< 0.21	<0.27	<0.27	<0.27	<0.27	< 0.27
Toluene	1000	< 0.2	< 0.2	< 0.21	<0.15	<0.15	<0.15	<0.15	< 0.3
Xylene, -m	NS	NA	NA	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	< 0.42	< 0.42	< 0.35	<0.39	<0.39	<0.39	<0.39	< 0.25
Xylene. -o	NS	< 0.31	< 0.31	< 0.2	<0.45	<0.45	<0.45	<0.45	< 0.25
Xylenes	1,000	< 0.31	< 0.31	< 0.2	<0.39	<0.39	<0.39	<0.39	< 0.25
PCBs									
PCB 1016	0.5	< 0.11	< 0.1	< 0.11	< 0.1	< 0.1	< 0.1	< 0.1	< 0.25
PCB 1221	0.5	< 0.54	< 0.52	< 0.53	< 0.51	< 0.51	< 0.51	< 0.51	< 0.4
PCB 1232	0.5	< 0.45	< 0.43	< 0.44	< 0.42	< 0.42	< 0.42	< 0.42	< 0.27
PCB 1242	0.5	< 0.19	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.12
PCB 1248	0.5	< 0.18	< 0.17	< 0.17	< 0.16	< 0.16	< 0.16	< 0.16	< 0.33
PCB 1254	0.5	< 0.13	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.15
PCB 1260	0.5	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.19
Total PCBs		0	0	0	0	0	0	0	0
Metals -Total									
Arsenic	3	**9.1**	**7.1**	1.1 B	< 1.7 B	< 1.7 B	< 1.7 B	**19.8**	**8.4**
Iron	300	**45800**	**2280**	**942**	**894**	**894**	**894**	**69500**	**28300**
Lead	5	**31.5**	**594**	3.1	1.7 B	1.7 B	1.7 B	**45.7**	**19.9**
Manganese	50	**3290**	**8270**	23.6	**124**	**124**	**124**	**2110**	**735**
Metals -Dissolved									
Arsenic	3	< 1.5	< 1.5	< 1.1	< 1.7 B	< 1.7 B	< 1.7 B	< 1.7	< 2.4
Iron	300	81.5 B	43.4 B	< 6.3	< 36.9 B	< 36.9 B	< 36.9 B	8.1 B	53.4 B
Lead	5	< 2.8	< 2.8	1.5 B	1.5 B	1.5 B	1.5 B	< 1.4	< 1.7
Manganese	50	**1530**	**247**	9.1 B	**97.2**	**97.2**	**97.2**	**79.4**	28.5

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

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Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		OB-26			Peter's Mine Air Shaft					
Sample Name	**GWQS[1]**	**OB-26**	**OB-26**	**OB-26**	**PMPAS-180(080507)**	**PMPAS-230(080507)**	**PMPAS-180(080507)**	**PMPAS-230(080507)**	**M AIRSHAFT(180**	**M AIRSHAFT(230**
Sample Date		**5/9/2008**	**9/16/2008**	**7/2/2009**	**5/7/2008**	**5/7/2008**	**9/18/2008**	**9/18/2008**	**7/10/2009**	**7/10/2009**
VOC										
Benzene	1	<0.26	<0.26	< 0.23	< 0.26	**31.8**	**26.4**	**29.1**	**7.4**	**7.6**
Ethylbenzene	700	<0.27	<0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	1.2	1.3
Toluene	1000	<0.15	<0.15	< 0.3	< 0.15	< 0.15	< 0.15	< 0.15	< 0.3	< 0.3
Xylene, -m	NS	NA	NA		NA	NA	NA	NA		
Xylene, -m,p	NS	<0.39	<0.39	< 0.25	< 0.39	4.7	< 0.39	3.7	22.6	25.1
Xylene. -o	NS	<0.45	<0.45	< 0.25	< 0.45	1.1	< 0.45	< 0.45	2.2	2.4
Xylenes	1,000	<0.39	<0.39	< 0.25	< 0.39	5.8	< 0.39	3.9	24.8	27.5
PCBs										
PCB 1016	0.5	< 0.094	< 0.099	< 0.21	< 0.1	< 0.098	< 0.098	< 0.099	< 0.21	< 0.19
PCB 1221	0.5	< 0.47	< 0.49	< 0.33	< 0.52	< 0.49	< 0.49	< 0.49	< 0.34	< 0.31
PCB 1232	0.5	< 0.39	< 0.41	< 0.22	< 0.43	< 0.41	< 0.41	< 0.41	< 0.23	< 0.21
PCB 1242	0.5	< 0.16	< 0.17	< 0.097	< 0.18	< 0.17	< 0.17	< 0.17	< 0.098	< 0.089
PCB 1248	0.5	< 0.15	< 0.16	< 0.28	< 0.17	< 0.16	< 0.16	< 0.16	< 0.28	< 0.25
PCB 1254	0.5	< 0.11	< 0.11	< 0.12	< 0.12	< 0.11	< 0.11	< 0.11	< 0.12	< 0.11
PCB 1260	0.5	< 0.12	< 0.12	< 0.16	< 0.13	< 0.12	< 0.12	< 0.12	< 0.16	< 0.14
Total PCBs		0	0	0	0	0	0	0	0	0
Metals -Total										
Arsenic	3	< 1.7	2.7 B	< 2.4	< 1.7	< 1.7	< 1.7	< 1.7	< 2.4	< 2.4
Iron	300	**339**	**511**	**403**	**339**	**148000**	**147000**	**169000**	**68900**	**68300**
Lead	5	< 1.4	< 1.4	2 B	< 1.4	**6.4**	< 1.4	< 1.4	2.7 B	2.2 B
Manganese	50	19.2	20.7	9.9 B	19.2	**2490**	**2400**	**2810**	**672**	**671**
Metals -Dissolved										
Arsenic	3	< 1.7	< 1.7	< 2.4	< 1.7	< 1.7	< 1.7	< 1.7	< 2.4	< 2.4
Iron	300	72.1 B	18.3 B	60.2 B	72.1 B	**132000**	**90800**	**98100**	**51500**	**44600**
Lead	5	< 1.4	< 1.4	< 1.7	< 1.4	**5.4**	< 1.4	< 1.4	< 1.7	< 1.7
Manganese	50	9.8 B	12.4 B		9.8 B	**2460**	**2380**	**2590**	**650**	**646**

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

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Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		RW-1				
Sample Name	**GWQS[1]**	**RW-1 (110104)**	**RW-1(125.5-151) (3/30/05)**	**RW-1(10-30)(4/1/05)**	**RW-1(58-78)(4/1/05)**	**RW-1(97-117)(4/1/05)**
Sample Date		**11/1/2004**	**3/30/2005**	**4/1/2005**	**4/1/2005**	**4/1/2005**
VOC						
Benzene	1	< 1	< 0.31	< 0.31	< 0.31	< 0.31
Ethylbenzene	700	< 1	< 0.27	< 0.27	< 0.27	< 0.27
Toluene	1000	< 1	1.4	< 0.14	0.86 J	1.3
Xylene, -m	NS	< 1	< 0.17	< 0.17	< 0.17	< 0.17
Xylene, -m,p	NS	NA	NA	NA	NA	NA
Xylene. -o	NS	< 1	< 0.36	< 0.36	< 0.36	< 0.36
Xylenes	1,000	< 1	< 0.17	< 0.17	< 0.17	< 0.17
PCBs						
PCB 1016	0.5	< 0.53	< 0.075	< 0.083	< 0.076	< 0.079
PCB 1221	0.5	< 0.53	< 0.085	< 0.093	< 0.086	< 0.089
PCB 1232	0.5	< 0.53	< 0.12	< 0.14	< 0.13	< 0.13
PCB 1242	0.5	< 0.53	< 0.13	< 0.15	< 0.13	< 0.14
PCB 1248	0.5	< 0.53	< 0.072	< 0.079	< 0.073	< 0.076
PCB 1254	0.5	< 0.53	< 0.072	< 0.079	< 0.073	< 0.076
PCB 1260	0.5	< 0.53	< 0.1	< 0.11	< 0.1	< 0.11
Total PCBs	0.5	0	0	0	0	0
Metals -Total						
Arsenic	3	< 5	< 5	< 5	< 5	< 5
Iron	300	**5140**	101	**1050**	**662**	**346**
Lead	5	< 3	< 3	< 3	< 3	< 3
Manganese	50	32.2	16	21.1	18.9	23.8
Metals -Dissolved						
Arsenic	3	< 5	< 5	< 5	< 5	< 5
Iron	300	< 100	< 100	< 100	< 100	< 100
Lead	5	< 3	< 3	< 3	< 3	< 3
Manganese	50	< 15	< 15	< 15	< 15	< 15

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

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Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		RW-1					
Sample Name	**GWQS[1]**	**RW-1 (10-30)**	**RW-1 (58-78)**	**RW-1 (97-117)**	**RW-1 (125-145)**	**RW-1(10-31)(041807)**	**RW-1(58-79)(041807)**
Sample Date		**10/9/2006**	**10/9/2006**	**10/10/2006**	**10/10/2006**	**4/18/2007**	**4/18/2007**
VOC							
Benzene	1	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Ethylbenzene	700	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Toluene	1000	2.8	3.7	0.81 J	0.74 J	2.3	2.2
Xylene, -m	NS	< 0.31	< 0.31	< 0.31	< 0.31	NA	NA
Xylene, -m,p	NS	NA	NA	NA	NA	< 0.42	< 0.42
Xylene. -o	NS	< 0.42	< 0.42	< 0.42	< 0.42	< 0.31	< 0.31
Xylenes	1,000	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
PCBs							
PCB 1016	0.5	< 0.1	< 0.1	< 0.094	< 0.1	< 0.11	< 0.098
PCB 1221	0.5	< 0.52	< 0.51	< 0.47	< 0.52	< 0.56	< 0.49
PCB 1232	0.5	< 0.43	< 0.42	< 0.39	< 0.43	< 0.46	< 0.41
PCB 1242	0.5	< 0.18	< 0.18	< 0.16	< 0.18	< 0.2	< 0.17
PCB 1248	0.5	< 0.17	< 0.17	< 0.15	< 0.17	< 0.18	< 0.16
PCB 1254	0.5	< 0.12	< 0.12	< 0.11	< 0.12	< 0.13	< 0.11
PCB 1260	0.5	< 0.13	< 0.13	< 0.12	< 0.13	< 0.14	< 0.12
Total PCBs	0.5	0	0	0	0	0	0
Metals -Total							
Arsenic	3	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Iron	300	**3910**	**641**	**1410 J**	211 J	42.5 B	152
Lead	5	< 2.6	< 2.6	< 2.6 J	< 2.6	3.8	3.1
Manganese	50	**113**	18.9	**124**	44	19.4	28
Metals -Dissolved							
Arsenic	3	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Iron	300	**5030**	< 67	< 67	< 67	< 25	< 25
Lead	5	< 2.6	< 2.6	4.5 J	< 2.6	< 2.8	< 2.8
Manganese	50	**118**	4 B	27.4	34.7	10.4 B	5 B

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

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Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well					RW-1			
Sample Name	**GWQS[1]**	**RW-1(97-118)(041807)**	**RW-1(125-146)(041807)**	**RW1(58-79)**	**RW1(97-118)**	**RW1(125-146)**	**RW1(11-31)**	**RW-1(126-146)**
Sample Date		**4/18/2007**	**4/18/2007**	**10/10/2007**	**10/10/2007**	**10/10/2007**	**5/6/2008**	**5/7/2008**
VOC								
Benzene	1	< 0.21	< 0.21	< 0.19	< 0.19	< 0.19	< 0.26	< 0.26
Ethylbenzene	700	< 0.2	< 0.2	< 0.21	< 0.21	< 0.21	< 0.27	< 0.27
Toluene	1000	1.3	1.3	0.88 J	0.69 J	0.54 J	10.8	5.6
Xylene, -m	NS	NA	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	< 0.42	< 0.42	< 0.35	< 0.35	< 0.35	< 0.39	< 0.39
Xylene. -o	NS	< 0.31	< 0.31	< 0.2	< 0.2	< 0.2	< 0.45	< 0.45
Xylenes	1,000	< 0.31	< 0.31	< 0.2	< 0.2	< 0.2	< 0.39	< 0.39
PCBs								
PCB 1016	0.5	< 0.094	< 0.11	< 0.094	< 0.094	< 0.094	< 0.094	< 0.1
PCB 1221	0.5	< 0.47	< 0.55	< 0.47	< 0.47	< 0.47	< 0.47	< 0.5
PCB 1232	0.5	< 0.39	< 0.46	< 0.39	< 0.39	< 0.39	< 0.39	< 0.41
PCB 1242	0.5	< 0.16	< 0.19	< 0.16	< 0.16	< 0.16	< 0.16	< 0.17
PCB 1248	0.5	< 0.15	< 0.18	< 0.15	< 0.15	< 0.15	< 0.15	< 0.16
PCB 1254	0.5	< 0.11	< 0.13	< 0.11	< 0.11	< 0.11	< 0.11	< 0.12
PCB 1260	0.5	< 0.12	< 0.14	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
Total PCBs	0.5	0	0	0	0	0	0	0
Metals -Total								
Arsenic	3	< 1.5	< 1.5	< 1.1	< 1.1	< 1.1	< 1.7	< 1.7
Iron	300	< 25	< 25	45.8 B	117	147	**699**	85.9 B
Lead	5	< 2.8	< 2.8	< 0.94	< 0.94	1.2 B	3.4	2.1 B
Manganese	50	2.5 BJ	15.7	3.2 B	7.8 B	26.3	24.9	23.4
Metals -Dissolved								
Arsenic	3	< 1.5	< 1.5	< 1.1	< 1.1	< 1.1	< 1.7	< 1.7
Iron	300	< 25	< 25	10.3 B	10.3 B	12.6 B	< 7.4	28 B
Lead	5	< 2.8	< 2.8	< 0.94	< 0.94	< 0.94	1.5 B	2.2 B
Manganese	50	0.99 B	11.6 B	2.2 B	1.9 B	19.4	6.1 B	22

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

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Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well						RW-1			
Sample Name	**GWQS[1]**	**RW1(59-79)**	**RW-1(98-118)**	**JP-03(080507) (RW-1(98-11**	**RW-1 (126-146)**	**RW1(11-31)**	**RW1(59-79)**	**RW1(98-118)**	**RW-1(10-30)**
Sample Date		**5/6/2008**	**5/7/2008**	**5/7/2008**	**9/22/2008**	**9/18/2008**	**9/19/2008**	**9/19/2008**	**7/17/2009**
VOC									
Benzene	1	< 0.26	< 0.26	< 0.26	**6.2**	**9.8**	**8.6**	**2**	< 0.23
Ethylbenzene	700	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27
Toluene	1000	3.5	8.1	6.9	13.8	15.7	14.7	5.9	< 0.3
Xylene, -m	NS	NA	NA	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.25
Xylene. -o	NS	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.25
Xylenes	1,000	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.25
PCBs									
PCB 1016	0.5	< 0.096	< 0.1	< 0.1	< 0.096	< 0.099	< 0.1	< 0.1	< 0.22
PCB 1221	0.5	< 0.48	< 0.5	< 0.52	< 0.48	< 0.49	< 0.51	< 0.52	< 0.36
PCB 1232	0.5	< 0.4	< 0.41	< 0.43	< 0.4	< 0.41	< 0.42	< 0.43	< 0.24
PCB 1242	0.5	< 0.17	< 0.17	< 0.18	< 0.17	< 0.17	< 0.18	< 0.18	< 0.1
PCB 1248	0.5	< 0.16	< 0.16	< 0.17	< 0.16	< 0.16	< 0.16	< 0.17	< 0.3
PCB 1254	0.5	< 0.11	< 0.12	< 0.12	< 0.11	< 0.11	< 0.12	< 0.12	< 0.13
PCB 1260	0.5	< 0.12	< 0.12	< 0.13	< 0.12	< 0.12	< 0.13	< 0.13	< 0.17
Total PCBs	0.5	0	0	0	0	0	0	0	0
Metals -Total									
Arsenic	3	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 2.4
Iron	300	150	32.7 B	97.9 B	14.5 B	**323**	15.4 B	48.4 B	174
Lead	5	2 B	< 1.4	1.9 B	< 1.4	< 1.4	< 1.4	< 1.4	< 1.7
Manganese	50	6.9 B	2.1 B	6.7 B	11.9 B	11.5 B	2.4 B	2 B	14.5 B
Metals -Dissolved									
Arsenic	3	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 2.4
Iron	300	38.6 B	12.8 B	11.6 B	< 7.4	< 7.4	< 7.4	< 7.4	33.4 B
Lead	5	2.2 B	< 1.4	2.6 B	< 1.4	< 1.4	< 1.4	< 1.4	< 1.7
Manganese	50	3.4 B	2.2 B	1.7 B	3850 B	2320 B	4960 B	4540 B	12.7 B

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

ARCADIS

Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well				
Sample Name	**GWQS[1]**	**RW-1(58-78)**	**RW-1(97-117)**	**RW-1(126-146)**
Sample Date		**7/17/2009**	**7/17/2009**	**7/17/2009**
VOC				
Benzene	1	< 0.23	< 0.23	< 0.23
Ethylbenzene	700	< 0.27	< 0.27	< 0.27
Toluene	1000	< 0.3	< 0.3	< 0.3
Xylene, -m	NS	NA	NA	NA
Xylene, -m,p	NS	< 0.25	< 0.25	< 0.25
Xylene. -o	NS	< 0.25	< 0.25	< 0.25
Xylenes	1,000	< 0.25	< 0.25	< 0.25
PCBs				
PCB 1016	0.5	< 0.21	< 0.63	< 0.63
PCB 1221	0.5	< 0.34	< 0.63	< 0.63
PCB 1232	0.5	< 0.23	< 0.63	< 0.63
PCB 1242	0.5	< 0.099	< 0.63	< 0.63
PCB 1248	0.5	< 0.28	< 0.63	< 0.63
PCB 1254	0.5	< 0.12	< 0.63	< 0.63
PCB 1260	0.5	< 0.16	< 0.63	< 0.63
Total PCBs	0.5	0	0	0
Metals -Total				
Arsenic	3	< 2.4	< 2.4	< 2.4
Iron	300	252	**304**	**2450**
Lead	5	< 1.7	< 1.7	2.3 B
Manganese	50	7.4 B	35.2	**318**
Metals -Dissolved				
Arsenic	3	< 2.4	< 2.4	< 2.4
Iron	300	31 B	151	248
Lead	5	< 1.7	< 1.7	< 1.7
Manganese	50	7.2 B	31.2	**265**

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

ARCADIS

Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		RW-2				
Sample Name	**GWQS[1]**	**RW2(100-110)(081384)**	**RW2(110-120)(081384)**	**RW2(170-180)(081484)**	**RW2(220-230)(081584)**	**RW2(220-230)(081584)DUP**
Sample Date		**8/13/1984**	**8/13/1984**	**8/14/1984**	**8/15/1984**	**8/15/1984**
VOC						
Benzene	1	< 1	**3**	**9.1**	< 1	< 1
Ethylbenzene	700	< 1	< 1	< 1	< 1	< 1
Toluene	1000	< 1	< 1	< 1	< 1	< 1
Xylene, -m	NS	< 1	< 1	< 1	< 1	< 1
Xylene, -m,p	NS	< 1	< 1	< 1	< 1	< 1
Xylene. -o	NS	< 1	< 1	< 1	< 1	< 1
Xylenes	1,000	NA	NA	NA	NA	NA
PCBs						
PCB 1016	0.5	NA	NA	NA	NA	NA
PCB 1221	0.5	NA	NA	NA	NA	NA
PCB 1232	0.5	NA	NA	NA	NA	NA
PCB 1242	0.5	NA	NA	NA	NA	NA
PCB 1248	0.5	NA	NA	NA	NA	NA
PCB 1254	0.5	NA	NA	NA	NA	NA
PCB 1260	0.5	NA	NA	NA	NA	NA
Total PCBs	0.5	NA	NA	NA	NA	NA
Metals -Total						
Arsenic	3	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA
Lead	5	NA	NA	NA	NA	NA
Manganese	50	NA	NA	NA	NA	NA
Metals -Dissolved						
Arsenic	3	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA
Lead	5	NA	NA	NA	NA	NA
Manganese	50	NA	NA	NA	NA	NA

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

ARCADIS

Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		RW-2					
Sample Name	**GWQS[1]**	**RW2-265-275(081684)**	**RW2-315-325(081684)**	**RW2-360-370(081684)**	**RW2-360-370(081684)Dup**	**RW2-370-380(081684)**	**RW2-400-410(081684)**
Sample Date		**8/16/1984**	**8/16/1984**	**8/16/1984**	**8/16/1984**	**8/16/1984**	**8/16/1984**
VOC							
Benzene	1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	700	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	1000	< 1	< 1	< 1	< 1	< 1	< 1
Xylene, -m	NS	< 1	< 1	< 1	< 1	< 1	< 1
Xylene, -m,p	NS	< 1	< 1	< 1	< 1	< 1	< 1
Xylene. -o	NS	< 1	< 1	< 1	< 1	< 1	< 1
Xylenes	1,000	NA	NA	NA	NA	NA	NA
PCBs							
PCB 1016	0.5	NA	NA	NA	NA	NA	NA
PCB 1221	0.5	NA	NA	NA	NA	NA	NA
PCB 1232	0.5	NA	NA	NA	NA	NA	NA
PCB 1242	0.5	NA	NA	NA	NA	NA	NA
PCB 1248	0.5	NA	NA	NA	NA	NA	NA
PCB 1254	0.5	NA	NA	NA	NA	NA	NA
PCB 1260	0.5	NA	NA	NA	NA	NA	NA
Total PCBs	0.5	NA	NA	NA	NA	NA	NA
Metals -Total							
Arsenic	3	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	NA
Lead	5	NA	NA	NA	NA	NA	NA
Manganese	50	NA	NA	NA	NA	NA	NA
Metals -Dissolved							
Arsenic	3	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	NA
Lead	5	NA	NA	NA	NA	NA	NA
Manganese	50	NA	NA	NA	NA	NA	NA

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

ARCADIS

Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		RW-2				
Sample Name	**GWQS[1]**	**RW2-450-460(081684)**	**RW2(360-370)(082984)**	**RW2(360-370)(082984)DUP**	**RW2(360-370)(082984)-DUF**	**RW2(370-380)(082984)**
Sample Date		**8/16/1984**	**8/29/1984**	**8/29/1984**	**8/29/1984**	**8/29/1984**
VOC						
Benzene	1	< 1	< 1	NA	< 1	< 1
Ethylbenzene	700	< 1	< 1	< 1	NA	< 1
Toluene	1000	< 1	< 1	< 1	NA	< 1
Xylene, -m	NS	< 1	< 1	< 1	NA	< 1
Xylene, -m,p	NS	< 1	< 1	< 1	NA	< 1
Xylene. -o	NS	< 1	< 1	< 1	NA	< 1
Xylenes	1,000	NA	NA	NA	NA	NA
PCBs						
PCB 1016	0.5	NA	NA	NA	NA	NA
PCB 1221	0.5	NA	NA	NA	NA	NA
PCB 1232	0.5	NA	NA	NA	NA	NA
PCB 1242	0.5	NA	NA	NA	NA	NA
PCB 1248	0.5	NA	NA	NA	NA	NA
PCB 1254	0.5	NA	NA	NA	NA	NA
PCB 1260	0.5	NA	NA	NA	NA	NA
Total PCBs	0.5	NA	NA	NA	NA	NA
Metals -Total						
Arsenic	3	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA
Lead	5	NA	NA	NA	NA	NA
Manganese	50	NA	NA	NA	NA	NA
Metals -Dissolved						
Arsenic	3	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA
Lead	5	NA	NA	NA	NA	NA
Manganese	50	NA	NA	NA	NA	NA

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

ARCADIS

Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		RW-2					
Sample Name	**GWQS[1]**	**RW2(400-410)(082984)**	**RW2(450-460)(082984)**	**RW2(250)(092084)**	**RW2(061386)**	**RW2(032488)**	**RW-2(103089)**
Sample Date		**8/29/1984**	**8/29/1984**	**9/20/1984**	**6/13/1986**	**3/24/1988**	**10/30/1989**
VOC							
Benzene	1	< 1	< 1	< 1	< 10	< 5	< 2
Ethylbenzene	700	< 1	< 1	NA	< 10	< 5	< 2
Toluene	1000	< 1	< 1	NA	< 10	< 5	< 2
Xylene, -m	NS	< 1	< 1	NA	NA	< 5	< 2
Xylene, -m,p	NS	< 1	< 1	NA	NA	< 5	< 2
Xylene. -o	NS	< 1	< 1	NA	NA	NA	NA
Xylenes	1,000	NA	NA	NA	NA	NA	NA
PCBs							
PCB 1016	0.5	NA	NA	NA	NA	NA	NA
PCB 1221	0.5	NA	NA	NA	NA	NA	NA
PCB 1232	0.5	NA	NA	NA	NA	NA	NA
PCB 1242	0.5	NA	NA	NA	NA	NA	NA
PCB 1248	0.5	NA	NA	NA	NA	NA	NA
PCB 1254	0.5	NA	NA	NA	NA	NA	NA
PCB 1260	0.5	NA	NA	NA	NA	NA	NA
Total PCBs	0.5	NA	NA	NA	NA	NA	NA
Metals -Total							
Arsenic	3	NA	NA	NA	< 2	NA	< 2
Iron	300	NA	NA	NA	NA	NA	**10800 JMt**
Lead	5	NA	NA	NA	< 50	NA	NA
Manganese	50	NA	NA	NA	NA	NA	**549**
Metals -Dissolved							
Arsenic	3	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	NA
Lead	5	NA	NA	NA	NA	NA	NA
Manganese	50	NA	NA	NA	NA	NA	NA

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

ARCADIS

Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		RW-2							
Sample Name	**GWQS[1]**	**RW-2(012990)**	**RW-2(042390)**	**RW-2(072390)**	**RW-2 (102.5-132.0')**	**RW-2 (19.0-48.5')**	**RW-2 (161.0'-190.5')**	**RW-2 (278'-307.5')**	**RW-2 (441-470.5')**
Sample Date		**1/29/1990**	**4/23/1990**	**7/23/1990**	**10/26/2004**	**10/26/2004**	**10/27/2004**	**10/27/2004**	**10/28/2004**
VOC									
Benzene	1	< 2	< 2	< 2	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	700	< 2	< 2	< 2	< 1	< 1	< 1	< 1	< 1
Toluene	1000	< 2	< 2	< 2	12.5	3.4	10.5	2.8	2.4
Xylene, -m	NS	< 2	< 2	< 2	< 1	< 1	< 1	< 1	< 1
Xylene, -m,p	NS	< 2	< 2	< 2	NA	NA	NA	NA	NA
Xylene. -o	NS	NA	NA	NA	< 1	< 1	< 1	< 1	< 1
Xylenes	1,000	NA	NA	NA	< 1	< 1	< 1	< 1	< 1
PCBs									
PCB 1016	0.5	NA	NA	NA	< 0.51	< 0.5	< 0.5	< 0.5	< 0.59
PCB 1221	0.5	NA	NA	NA	< 0.51	< 0.5	< 0.5	< 0.5	< 0.59
PCB 1232	0.5	NA	NA	NA	< 0.51	< 0.5	< 0.5	< 0.5	< 0.59
PCB 1242	0.5	NA	NA	NA	< 0.51	< 0.5	< 0.5	< 0.5	< 0.59
PCB 1248	0.5	NA	NA	NA	< 0.51	< 0.5	< 0.5	< 0.5	< 0.59
PCB 1254	0.5	NA	NA	NA	< 0.51	< 0.5	< 0.5	< 0.5	< 0.59
PCB 1260	0.5	NA	NA	NA	< 0.51	< 0.5	< 0.5	< 0.5	< 0.59
Total PCBs	0.5	NA	NA	NA	0	0	0	0	0
Metals -Total									
Arsenic	3	< 2	< 5	< 5	< 5	< 5	< 5	< 5	**6.8**
Iron	300	**15900 R**	**48700**	**15600**	**1540**	**466**	**25300**	**3270**	**2020**
Lead	5	< 5	NA	NA	**7.3**	< 3	**64.6**	**7.6 J**	**45.5**
Manganese	50	**1010**	**719**	**725**	**2370**	**900**	**18900**	**3290**	**2700**
Metals -Dissolved									
Arsenic	3	NA	NA	NA	< 5	< 5	< 5	< 5	< 5
Iron	300	NA	NA	NA	< 100	< 100	260 CJ	168 CJ	201
Lead	5	NA	NA	NA	< 3	< 3	< 3	< 3	**9.3**
Manganese	50	NA	NA	NA	**1140**	**754**	**1600**	**1310**	**1830**

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

ARCADIS

Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		RW-2						
Sample Name	**GWQS[1]**	**RW2-(19-49)**	**RW2-(102-132)**	**RW-2 (161-191)**	**RW-2 (278-308)**	**RW-2(19-50)((041007)**	**RW-2(102-133)(041007)**	**RW-2(161-192)**
Sample Date		**10/4/2006**	**10/4/2006**	**10/5/2006**	**10/6/2006**	**4/10/2007**	**4/10/2007**	**4/16/2007**
VOC								
Benzene	1	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Ethylbenzene	700	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Toluene	1000	1.1	2.1	3.2	1.4	3.3	23	21.5
Xylene, -m	NS	< 0.31	< 0.31	< 0.31	< 0.31	NA	NA	NA
Xylene, -m,p	NS	NA	NA	NA	NA	< 0.42	< 0.42	< 0.42
Xylene. -o	NS	< 0.42	< 0.42	< 0.42	< 0.42	< 0.31	< 0.31	< 0.31
Xylenes	1,000	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
PCBs								
PCB 1016	0.5	< 0.11	< 0.1	< 0.11	< 0.1	< 0.099	< 0.094	< 0.094
PCB 1221	0.5	< 0.53	< 0.52	< 0.56	< 0.52	< 0.49	< 0.47	< 0.47
PCB 1232	0.5	< 0.44	< 0.43	< 0.46	< 0.43	< 0.41	< 0.39	< 0.39
PCB 1242	0.5	< 0.19	< 0.18	< 0.2	< 0.18	< 0.17	< 0.16	< 0.16
PCB 1248	0.5	< 0.17	< 0.17	< 0.18	< 0.17	< 0.16	< 0.15	< 0.15
PCB 1254	0.5	< 0.12	< 0.12	< 0.13	< 0.12	< 0.11	< 0.11	< 0.11
PCB 1260	0.5	< 0.13	< 0.13	< 0.14	< 0.13	< 0.12	< 0.12	< 0.12
Total PCBs	0.5	0	0	0	0	0	0	0
Metals -Total								
Arsenic	3	< 1.5	< 1.5	**3.6**	< 1.5	< 1.5	< 1.5	< 1.5
Iron	300	**720**	**1260**	**12400**	**971**	**4580**	**7880**	**4690**
Lead	5	< 2.6	< 2.6	**16.5 J**	2.8 B	4.1	**11.2**	**14**
Manganese	50	**630**	**1610**	**4170**	**1060**	**843**	**2590**	**3290**
Metals -Dissolved								
Arsenic	3	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Iron	300	233	**303**	206	163	205	216	179
Lead	5	< 2.6	3.2	< 2.6	3.6	< 2.8	< 2.8	< 2.8
Manganese	50	**591**	**619**	**702**	**517**	**816**	**298**	**463**

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

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Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		RW-2						
Sample Name	**GWQS[1]**	**RW-2(278-309)(041707)**	**RW-2(441-472)**	**RW2(161-192)**	**RW2(278-309)**	**RW2(441-472)**	**RW-2 (442-472)**	**RW-2(103-133)**
Sample Date		**4/17/2007**	**4/17/2007**	**10/16/2007**	**10/16/2007**	**10/17/2007**	**5/5/2008**	**5/1/2008**
VOC								
Benzene	1	< 0.21	< 0.21	< 0.19	< 0.19	< 0.19	< 0.26	< 0.26
Ethylbenzene	700	< 0.2	< 0.2	< 0.21	< 0.21	< 0.21	< 0.27	< 0.27
Toluene	1000	15.3	5.1	55.2	10	21	12.5	72.4
Xylene, -m	NS	NA	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	< 0.42	< 0.42	< 0.35	< 0.35	< 0.35	< 0.39	< 0.39
Xylene. -o	NS	< 0.31	< 0.31	< 0.2	< 0.2	< 0.2	< 0.45	< 0.45
Xylenes	1,000	< 0.31	< 0.31	< 0.2	< 0.2	< 0.2	< 0.39	< 0.39
PCBs								
PCB 1016	0.5	< 0.094	< 0.094	< 0.1	< 0.1	< 0.099	NA	< 0.094
PCB 1221	0.5	< 0.47	< 0.47	< 0.5	< 0.52	< 0.49	NA	< 0.47
PCB 1232	0.5	< 0.39	< 0.39	< 0.41	< 0.43	< 0.41	NA	< 0.39
PCB 1242	0.5	< 0.16	< 0.16	< 0.17	< 0.18	< 0.17	NA	< 0.16
PCB 1248	0.5	< 0.15	< 0.15	< 0.16	< 0.17	< 0.16	NA	< 0.15
PCB 1254	0.5	< 0.11	< 0.11	< 0.12	< 0.12	< 0.11	NA	< 0.11
PCB 1260	0.5	< 0.12	< 0.12	< 0.12	< 0.13	< 0.12	NA	< 0.12
Total PCBs	0.5	0	0	0	0	0	NA	0
Metals -Total								
Arsenic	3	< 1.5	< 1.5	< 1.1	< 1.1	1.3 B	< 1.7	< 1.7
Iron	300	**1740**	**2170**	**653 J**	**1650 J**	**1140 J**	**2150**	**655**
Lead	5	**5.9**	< 2.8	1.4 B	3.2	3.3	**22.2**	**5.4**
Manganese	50	**1350**	**1150**	**1510 J**	**1750 J**	**1510 J**	**1570**	**442**
Metals -Dissolved								
Arsenic	3	< 1.5	< 1.5	< 1.1	< 1.1	< 1.1	< 1.7	< 1.7
Iron	300	55.4 B	< 25	16.5 BJ	22.5 BJ	34 BJ	< 9.7 B	19.3 B
Lead	5	**5.2**	< 2.8	< 0.94	< 0.94	< 0.94	3.9	2.1 B
Manganese	50	**311**	**201**	**1230 J**	**1040 J**	**1120 J**	< 731 B	**164**

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

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Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		RW-2						RW	
Sample Name	**GWQS[1]**	**RW-2(20-50)**	**RW-2 (103-133)**	**RW2(20-50)**	**RW-2(279-309)**	**RW-2(20-50)**	**DUP(071009)**	**RW-2 (102-133)**	**RW-2 (162-192)**
Sample Date		**5/1/2008**	**9/17/2008**	**9/16/2008**	**9/11/2008**	**7/10/2009**	**7/10/2009**	**7/13/2009**	**7/13/2009**
VOC									
Benzene	1	< 0.26	**43.8**	**7.4**	**6**	< 0.23	< 0.23	< 0.23	< 0.23
Ethylbenzene	700	< 0.27	0.66 J	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27
Toluene	1000	28.5	51.8	8.2	45	< 0.3	< 0.3	< 0.3	< 0.3
Xylene, -m	NS	NA	NA	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	< 0.39	0.95 J	< 0.39	< 0.39	< 0.25	< 0.25	< 0.25	< 0.25
Xylene. -o	NS	< 0.45	< 0.45	< 0.45	< 0.45	< 0.25	< 0.25	< 0.25	< 0.25
Xylenes	1,000	< 0.39	0.95 J	< 0.39	< 0.39	< 0.25	< 0.25	< 0.25	< 0.25
PCBs									
PCB 1016	0.5	< 0.1	< 0.098	< 0.096	< 0.099	< 0.21	< 0.21	< 0.56	< 0.57
PCB 1221	0.5	< 0.52	< 0.49	< 0.48	< 0.49	< 0.35	< 0.34	< 0.56	< 0.57
PCB 1232	0.5	< 0.43	< 0.41	< 0.4	< 0.41	< 0.23	< 0.23	< 0.56	< 0.57
PCB 1242	0.5	< 0.18	< 0.17	< 0.17	< 0.17	< 0.1	< 0.099	< 0.56	< 0.57
PCB 1248	0.5	< 0.17	< 0.16	< 0.16	< 0.16	< 0.29	< 0.28	< 0.56	< 0.57
PCB 1254	0.5	< 0.12	< 0.11	< 0.11	< 0.11	< 0.13	< 0.12	< 0.56	< 0.57
PCB 1260	0.5	< 0.13	< 0.12	< 0.12	< 0.12	< 0.16	< 0.16	< 0.56	< 0.57
Total PCBs	0.5	0	0	0	0	0	0	0	0
Metals -Total									
Arsenic	3	< 1.7	1.7 B	< 1.7	< 1.7	< 2.4	< 2.4	< 2.4	< 2.4
Iron	300	**2710**	**349**	73.4 B	**1300**	**3520**	**3810**	**4160**	**4120**
Lead	5	4.3	< 1.4	< 1.4	**21.2**	< 1.7	< 1.7	3.7	2 B
Manganese	50	**369**	**215**	**199**	**980**	**215**	**239**	**165**	**303**
Metals -Dissolved									
Arsenic	3	< 1.7	< 1.7	< 1.7	< 1.7	< 2.4	< 2.4	< 2.4	< 2.4
Iron	300	37.1 B	27.4 B	24.7 B	17 B	244	232	154	< 42
Lead	5	2.9 B	< 1.4	< 1.4	< 1.4	< 1.7	< 1.7	< 1.7	< 1.7
Manganese	50	**275**	**188**	**193**	**226**	**280**	**217**	**125**	**160**

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

ARCADIS

Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		V-2	
Sample Name	**GWQS[1]**	**RW-2 (279-309)**	**RW-2(441-472)**
Sample Date		**7/13/2009**	**7/14/2009**
VOC			
Benzene	1	< 0.23	< 0.23
Ethylbenzene	700	< 0.27	< 0.27
Toluene	1000	< 0.3	< 0.3
Xylene, -m	NS	NA	NA
Xylene, -m,p	NS	< 0.25	< 0.25
Xylene. -o	NS	< 0.25	< 0.25
Xylenes	1,000	< 0.25	< 0.25
PCBs			
PCB 1016	0.5	< 0.56	< 2
PCB 1221	0.5	< 0.56	< 2
PCB 1232	0.5	< 0.56	< 2
PCB 1242	0.5	< 0.56	< 2
PCB 1248	0.5	< 0.56	< 2
PCB 1254	0.5	< 0.56	< 2
PCB 1260	0.5	< 0.56	< 2
Total PCBs	0.5	0	0
Metals -Total			
Arsenic	3	< 2.4	< 2.4
Iron	300	**1390**	**930**
Lead	5	< 1.7	< 1.7
Manganese	50	**198**	**334**
Metals -Dissolved			
Arsenic	3	< 2.4	< 2.4
Iron	300	98.3 B	< 42
Lead	5	< 1.7	< 1.7
Manganese	50	**108**	**226**

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

ARCADIS

Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		RW-3					
Sample Name	**GWQS[1]**	**RW-3(092084)**	**RW3(061486)**	**RW3(032488)**	**RW-3(103089)**	**RW-3(012990)**	**RW-3(042390)**
Sample Date		**9/20/1984**	**6/14/1986**	**3/24/1988**	**10/30/1989**	**1/29/1990**	**4/23/1990**
VOC							
Benzene	1	< 10	< 10	< 5	< 2	< 2	< 2
Ethylbenzene	700	< 10	< 10	< 5	< 2	< 2	< 2
Toluene	1000	< 10	< 10	< 5	< 2	< 2	< 2
Xylene, -m	NS	NA	NA	< 5	< 2	< 2	< 2
Xylene, -m,p	NS	NA	NA	< 5	< 2	< 2	< 2
Xylene. -o	NS	NA	NA	NA	NA	NA	NA
Xylenes	1,000	NA	NA	NA	NA	NA	NA
PCBs							
PCB 1016	0.5	< 1	NA	NA	NA	NA	NA
PCB 1221	0.5	< 1	NA	NA	NA	NA	NA
PCB 1232	0.5	< 1	NA	NA	NA	NA	NA
PCB 1242	0.5	< 1	NA	NA	NA	NA	NA
PCB 1248	0.5	< 1	NA	NA	NA	NA	NA
PCB 1254	0.5	< 1	NA	NA	NA	NA	NA
PCB 1260	0.5	< 1	NA	NA	NA	NA	NA
Total PCBs	0.5	0	NA	NA	NA	NA	NA
Metals -Total							
Arsenic	3	< 5	< 2	NA	< 2	< 2	< 5
Iron	300	160	NA	NA	**5990 JMt**	**14500**	**40000**
Lead	5	**50**	< 50	NA	NA	< 5	NA
Manganese	50	**130**	NA	NA	**218**	**255**	**891**
Metals -Dissolved							
Arsenic	3	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	NA
Lead	5	NA	NA	NA	NA	NA	NA
Manganese	50	NA	NA	NA	NA	NA	NA

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

ARCADIS

Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		RW-3							
Sample Name	**GWQS[1]**	**RW-3(072390)**	**RW3(011492)**	**RW003(073092)**	**RW003(021893)**	**RW-3(021893)**	**RW-3(072793)**	**RW3(022295)**	**RW3(022695)**
Sample Date		**7/23/1990**	**1/14/1992**	**7/30/1992**	**2/18/1993**	**2/18/1993**	**7/27/1993**	**2/22/1995**	**2/26/1995**
VOC									
Benzene	1	< 2	< 1	**6**	NA	< 1	< 1	< 1	NA
Ethylbenzene	700	< 2	< 5	< 5	NA	< 5	< 5	< 10	NA
Toluene	1000	< 2	< 5	< 5	NA	< 5	< 5	< 10	NA
Xylene, -m	NS	< 2	< 5	< 5	NA	< 5	< 5	< 10	NA
Xylene, -m,p	NS	< 2	NA	NA	NA	NA	NA	NA	NA
Xylene. -o	NS	NA	< 5	< 5	NA	< 5	< 5	< 10	NA
Xylenes	1,000	NA	NA	NA	NA	NA	NA	NA	NA
PCBs									
PCB 1016	0.5	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1221	0.5	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1232	0.5	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1242	0.5	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1248	0.5	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1254	0.5	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1260	0.5	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	0.5	NA	NA	NA	NA	NA	NA	NA	NA
Metals -Total									
Arsenic	3	< 5	**5**	**34.4**	2.6 B	NA	< 2	NA	< 2
Iron	300	**11100**	**47200**	**87700**	**23900**	NA	**5200**	NA	**8010**
Lead	5	NA	< 20.8	**34.1**	**6.3**	NA	< 1.3	NA	< 2
Manganese	50	**206**	**1100**	**2160**	**551**	NA	**184**	NA	**110**
Metals -Dissolved									
Arsenic	3	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	NA	NA	NA
Lead	5	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	50	NA	NA	NA	NA	NA	NA	NA	NA

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

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Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		RW-3							
Sample Name	**GWQS[1]**	**RW3(080795)**	**RW-3 (65-100')**	**RW-3(65-100)**	**RW-3(62-98)(040507)**	**RW3(62-98)**	**RW-3(62-98)**	**RW3 (62-98)**	**RW-3(62-98)**
Sample Date		**8/7/1995**	**10/29/2004**	**9/29/2006**	**4/5/2007**	**10/12/2007**	**4/30/2008**	**9/8/2008**	**7/6/2009**
VOC									
Benzene	1	< 1	< 1	< 0.21	< 0.21	< 0.19	< 0.26	< 0.26	< 0.23
Ethylbenzene	700	< 10	< 1	< 0.2	< 0.2	< 0.21	< 0.27	< 0.27	< 0.27
Toluene	1000	< 10	0.62 J	1.4	3.1	< 0.21	3.1	20.6	< 0.3
Xylene, -m	NS	< 10	< 1	< 0.31	NA	NA	NA	NA	NA
Xylene, -m,p	NS	NA	NA	NA	0.61 J	< 0.35	< 0.39	< 0.39	< 0.25
Xylene. -o	NS	< 10	< 1	< 0.42	< 0.31	< 0.2	< 0.45	< 0.45	< 0.25
Xylenes	1,000	NA	< 1	< 0.31	0.61 J	< 0.2	< 0.39	< 0.39	< 0.25
PCBs									
PCB 1016	0.5	NA	< 0.5	< 0.1	< 0.1	< 0.094	< 0.1	< 0.099	< 0.21
PCB 1221	0.5	NA	< 0.5	< 0.52	< 0.52	< 0.47	< 0.51	< 0.49	< 0.34
PCB 1232	0.5	NA	< 0.5	< 0.43	< 0.43	< 0.39	< 0.42	< 0.41	< 0.23
PCB 1242	0.5	NA	< 0.5	< 0.18	< 0.18	< 0.16	< 0.18	< 0.17	< 0.099
PCB 1248	0.5	NA	< 0.5	< 0.17	< 0.17	< 0.15	< 0.17	< 0.16	< 0.28
PCB 1254	0.5	NA	< 0.5	< 0.12	< 0.12	< 0.11	< 0.12	< 0.11	< 0.12
PCB 1260	0.5	NA	< 0.5	< 0.13	< 0.13	< 0.12	< 0.13	< 0.12	< 0.16
Total PCBs	0.5	NA	0	0	0	0	0	0	0
Metals -Total									
Arsenic	3	< 1	< 5	< 1.5	< 1.5	< 1.1	< 1.7	< 1.7	< 2.4
Iron	300	**2460**	**3450 J**	**407**	240	**3470**	**1520**	253	**1830**
Lead	5	< 0.48	< 3	< 2.6	3	< 0.94	4.7	1.6 B	< 1.7
Manganese	50	**71**	**140**	**150**	**101**	**172**	**149 J**	**167**	**275**
Metals -Dissolved									
Arsenic	3	NA	< 5	< 1.5	< 1.5	< 1.1	< 1.7	< 1.7	< 2.4
Iron	300	NA	166	157	25.3 B	32.7 B	42.1 B	< 7.4	86.1 B
Lead	5	NA	< 3	< 2.6	< 2.8	< 0.94	2.3 B	< 1.4	< 1.7
Manganese	50	NA	**128**	**144**	**103**	**146**	**116 J**	**143**	**266**

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

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Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		RW-4						
Sample Name	**GWQS[1]**	**RW-4(092084)**	**RW-4(092084) Dup**	**RW4(115)(092084)**	**RW4(250)(092084)**	**RW4(330)(092084)**	**RW4(400)(092084)**	**RW4(061486)**
Sample Date		**9/3/1984**	**9/3/1984**	**9/3/1984**	**9/3/1984**	**9/3/1984**	**9/3/1984**	**6/14/1986**
VOC								
Benzene	1	< 10	< 10	< 1	< 1	< 1	< 1	< 10
Ethylbenzene	700	< 10	< 10	< 1	< 1	< 1	< 1	< 10
Toluene	1000	< 10	< 10	< 1	< 1	< 1	< 1	< 10
Xylene, -m	NS	NA	NA	< 1	< 1	< 1	< 1	NA
Xylene, -m,p	NS	NA	NA	< 1	< 1	< 1	< 1	NA
Xylene. -o	NS	NA	NA	< 1	< 1	< 1	< 1	NA
Xylenes	1,000	NA	NA	NA	NA	NA	NA	NA
PCBs								
PCB 1016	0.5	< 1	< 1	NA	NA	NA	NA	NA
PCB 1221	0.5	< 1	< 1	NA	NA	NA	NA	NA
PCB 1232	0.5	< 1	< 1	NA	NA	NA	NA	NA
PCB 1242	0.5	< 1	< 1	NA	NA	NA	NA	NA
PCB 1248	0.5	< 1	< 1	NA	NA	NA	NA	NA
PCB 1254	0.5	< 1	< 1	NA	NA	NA	NA	NA
PCB 1260	0.5	< 1	< 1	NA	NA	NA	NA	NA
Total PCBs	0.5	0	0	NA	NA	NA	NA	NA
Metals -Total								
Arsenic	3	< 5	< 5	NA	NA	NA	NA	< 2
Iron	300	**420**	**390**	NA	NA	NA	NA	NA
Lead	5	< 50	< 50	NA	NA	NA	NA	< 50
Manganese	50	< 20	< 20	NA	NA	NA	NA	NA
Metals -Dissolved								
Arsenic	3	NA	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	NA	NA
Lead	5	NA	NA	NA	NA	NA	NA	NA
Manganese	50	NA	NA	NA	NA	NA	NA	NA

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

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Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well				RW-4		
Sample Name	**GWQS[1]**	**RW4(032488)**	**RW-4 (56.5-75.5')**	**RW-4 (108-127')**	**RW-4 (328-347')**	**RW-4 (388-407')**
Sample Date		**3/24/1988**	**10/22/2004**	**10/22/2004**	**10/25/2004**	**10/25/2004**
VOC						
Benzene	1	< 5	< 0.31	< 0.31	< 0.31	< 0.31
Ethylbenzene	700	< 5	< 0.27	< 0.27	1.4	1.3
Toluene	1000	< 5	2.6	0.49 J	21.2	17.8
Xylene, -m	NS	< 5	< 0.17	< 0.17	0.61 J	0.59 J
Xylene, -m,p	NS	< 5	NA	NA	NA	NA
Xylene. -o	NS	NA	< 0.36	< 0.36	3.9	3.4
Xylenes	1,000	NA	< 0.17	< 0.17	4.6	4
PCBs						
PCB 1016	0.5	NA	< 0.075	< 0.075	< 0.076	< 0.076
PCB 1221	0.5	NA	< 0.085	< 0.085	< 0.086	< 0.086
PCB 1232	0.5	NA	< 0.12	< 0.12	< 0.13	< 0.13
PCB 1242	0.5	NA	< 0.13	< 0.13	< 0.13	< 0.13
PCB 1248	0.5	NA	< 0.072	< 0.072	< 0.073	< 0.073
PCB 1254	0.5	NA	< 0.072	< 0.072	< 0.073	< 0.073
PCB 1260	0.5	NA	< 0.1	< 0.1	< 0.1	< 0.1
Total PCBs	0.5	NA	0	0	0	0
Metals -Total						
Arsenic	3	NA	< 5	< 5	< 5	< 5
Iron	300	NA	**1520**	**1060**	**20000**	**15900**
Lead	5	NA	4.4	**18.6**	**12.6**	**12.5**
Manganese	50	NA	16.3 J	< 15 J	**80.5 J**	**62.5 J**
Metals -Dissolved						
Arsenic	3	NA	< 5	< 5	< 5	< 5
Iron	300	NA	< 100	< 100	< 100	< 100
Lead	5	NA	< 3	< 3	< 3	3
Manganese	50	NA	< 15 J	< 15 J	23.4 J	18.8 J

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

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Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		RW-4					
Sample Name	**GWQS[1]**	**RW-4 (57-77)**	**RW-4 (108-128)**	**RW-4 (328-348)**	**RW-4 (388-408)**	**RW-4(56-77)(040607)**	**RW-4(108-129)**
Sample Date		**10/2/2006**	**10/2/2006**	**10/3/2006**	**10/3/2006**	**4/6/2007**	**4/9/2007**
VOC							
Benzene	1	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Ethylbenzene	700	< 0.2	< 0.2	< 0.2	< 0.2	0.29 J	< 0.2
Toluene	1000	2.1	< 0.2	< 0.2	0.45 J	21.7	1.1
Xylene, -m	NS	< 0.31	< 0.31	< 0.31	< 0.31	NA	NA
Xylene, -m,p	NS	NA	NA	NA	NA	0.88 J	< 0.42
Xylene. -o	NS	< 0.42	< 0.42	< 0.42	< 0.42	< 0.31	< 0.31
Xylenes	1,000	< 0.31	< 0.31	< 0.31	< 0.31	1.1	< 0.31
PCBs							
PCB 1016	0.5	< 0.11	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
PCB 1221	0.5	< 0.56	< 0.52	< 0.52	< 0.52	< 0.51	< 0.52
PCB 1232	0.5	< 0.46	< 0.43	< 0.43	< 0.43	< 0.42	< 0.43
PCB 1242	0.5	< 0.2	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
PCB 1248	0.5	< 0.18	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
PCB 1254	0.5	< 0.13	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
PCB 1260	0.5	< 0.14	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
Total PCBs	0.5	0	0	0	0	0	0
Metals -Total							
Arsenic	3	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Iron	300	**33000**	**786**	**475**	**725**	**12400**	**487**
Lead	5	**6.3**	< 2.6	< 2.6	3.7	5	< 2.8
Manganese	50	**130**	3.6 B	4.3 BJ	4 BJ	**55.9**	3.1 B
Metals -Dissolved							
Arsenic	3	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Iron	300	154	67.7 B	< 67	< 67	62.1 B	< 25
Lead	5	< 2.6	< 2.6	< 2.6	< 2.6	< 2.8	< 2.8
Manganese	50	39.4	2.4 B	4.1 BJ	2.4 BJ	24.9	2.3 B

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

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Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		RW-4					
Sample Name	**GWQS[1]**	**RW-4(328-349)(040907)**	**RW-4(388-409)(040907)**	**RW4 (56-77)**	**RW4 (108-129)**	**RW4 (328-349)**	**RW4 (388-409)**
Sample Date		**4/9/2007**	**4/9/2007**	**10/11/2007**	**10/11/2007**	**10/11/2007**	**10/11/2007**
VOC							
Benzene	1	< 0.21	< 0.21	< 0.19	< 0.19	< 0.19	< 0.19
Ethylbenzene	700	< 0.2	< 0.2	1.3	< 0.21	< 0.21	< 0.21
Toluene	1000	2.1	1.2	97.1	0.95 J	1.1	0.54 J
Xylene, -m	NS	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	< 0.42	< 0.42	4.5	< 0.35	< 0.35	< 0.35
Xylene. -o	NS	< 0.31	< 0.31	0.95 J	< 0.2	< 0.2	< 0.2
Xylenes	1,000	< 0.31	< 0.31	5.4	< 0.2	< 0.2	< 0.2
PCBs							
PCB 1016	0.5	< 0.1	< 0.099	< 0.099	< 0.094	< 0.1	< 0.094
PCB 1221	0.5	< 0.51	< 0.49	< 0.49	< 0.47	< 0.51	< 0.47
PCB 1232	0.5	< 0.42	< 0.41	< 0.41	< 0.39	< 0.42	< 0.39
PCB 1242	0.5	< 0.18	< 0.17	< 0.17	< 0.16	< 0.18	< 0.16
PCB 1248	0.5	< 0.17	< 0.16	< 0.16	< 0.15	< 0.16	< 0.15
PCB 1254	0.5	< 0.12	< 0.11	< 0.11	< 0.11	< 0.12	< 0.11
PCB 1260	0.5	< 0.13	< 0.12	< 0.12	< 0.12	< 0.13	< 0.12
Total PCBs	0.5	0	0	0	0	0	0
Metals -Total							
Arsenic	3	< 1.5	< 1.5	< 1.1	< 1.1	< 1.1	< 1.1
Iron	300	**1350**	**651**	**1170**	**765**	**798**	**2890**
Lead	5	< 2.8	3 B	1.6 B	< 0.94	2.1 B	2.4 B
Manganese	50	6.4 B	3.3 B	35.6	2.2 B	4.7 B	9.9 B
Metals -Dissolved							
Arsenic	3	< 1.5	< 1.5	< 1.1	1.5 B	< 1.1	< 1.1
Iron	300	< 25	< 25	36.9 B	< 6.3	31.6 J	26.9 J
Lead	5	< 2.8	< 2.8	< 0.94	< 0.94	< 0.94	< 0.94
Manganese	50	3 B	1.7 B	32.9	1 BJ	3.8 B	4.3 B

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

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Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		RW-4							
Sample Name	**GWQS[1]**	**RW-4(108-128)**	**RW-4(328-348)**	**RW-4(388-408)**	**RW-4(57-77)**	**RW4(08-128)**	**RW-4(328-348)**	**RW-4(388-408)**	**RW4(57-77)**
Sample Date		**4/29/2008**	**4/29/2008**	**4/29/2008**	**4/28/2008**	**9/16/2008**	**9/9/2008**	**9/10/2008**	**9/15/2008**
VOC									
Benzene	1	< 0.26	< 0.26	< 0.26	< 0.26	**3.3**	0.3 J	< 0.26	**14.3**
Ethylbenzene	700	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27
Toluene	1000	7.8	2.2	1.4	24.9	5.1	21.4	4.2	20.3
Xylene, -m	NS	NA	NA	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39
Xylene. -o	NS	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45
Xylenes	1,000	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39
PCBs									
PCB 1016	0.5	< 0.1	< 0.1	< 0.1	< 0.099	< 0.1	< 0.1	< 0.094	< 0.1
PCB 1221	0.5	< 0.51	< 0.5	< 0.51	< 0.49	< 0.5	< 0.5	< 0.47	< 0.52
PCB 1232	0.5	< 0.42	< 0.42	< 0.42	< 0.41	< 0.41	< 0.41	< 0.39	< 0.43
PCB 1242	0.5	< 0.18	< 0.18	< 0.18	< 0.17	< 0.17	< 0.17	< 0.16	< 0.18
PCB 1248	0.5	< 0.16	< 0.16	< 0.17	< 0.16	< 0.16	< 0.16	< 0.15	< 0.17
PCB 1254	0.5	< 0.12	< 0.12	< 0.12	< 0.11	< 0.12	< 0.12	< 0.11	< 0.12
PCB 1260	0.5	< 0.13	< 0.13	< 0.13	< 0.12	< 0.12	< 0.12	< 0.12	< 0.13
Total PCBs	0.5	0	0	0	0	0	0	0	0
Metals -Total									
Arsenic	3	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
Iron	300	**602**	**316**	**1170**	**1180**	105	**336**	**352**	**3360**
Lead	5	3.1	2.5 B	3.3	3.4	< 1.4	1.8 B	< 1.4	< 1.4
Manganese	50	5.8 B	1.8 B	5.3 B	17.2	5.7 B	6.5 B	3.3 B	**75.8**
Metals -Dissolved									
Arsenic	3	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	2.7 B	< 1.7	< 1.7
Iron	300	11.3 B	9.7 B	12 B	54.1 B	< 7.4	**521**	8.1 B	**507**
Lead	5	< 1.4	1.8 B	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
Manganese	50	4.5 B	1.1 B	2 B	12.5 B	5.2 B	**1380**	2 B	**78.4**

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

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Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		RW-4			
Sample Name	**GWQS[1]**	**RW-4(56-77)**	**RW-4(108-128)**	**RW-4(328-349)**	**RW-4(388-408)**
Sample Date		**6/30/2009**	**6/30/2009**	**7/2/2009**	**7/2/2009**
VOC					
Benzene	1	< 0.23	< 0.23	< 0.23	< 0.23
Ethylbenzene	700	< 0.27	< 0.27	< 0.27	< 0.27
Toluene	1000	< 0.3	< 0.3	0.4 J	0.32 J
Xylene, -m	NS				
Xylene, -m,p	NS	< 0.25	< 0.25	< 0.25	< 0.25
Xylene. -o	NS	< 0.25	< 0.25	< 0.25	< 0.25
Xylenes	1,000	< 0.25	< 0.25	< 0.25	< 0.25
PCBs					
PCB 1016	0.5	< 0.19	< 0.19	< 0.19	< 0.2
PCB 1221	0.5	< 0.31	< 0.31	< 0.31	< 0.33
PCB 1232	0.5	< 0.21	< 0.21	< 0.21	< 0.22
PCB 1242	0.5	< 0.091	< 0.089	< 0.089	< 0.096
PCB 1248	0.5	< 0.26	< 0.25	< 0.25	< 0.27
PCB 1254	0.5	< 0.11	< 0.11	< 0.11	< 0.12
PCB 1260	0.5	< 0.15	< 0.14	< 0.14	< 0.15
Total PCBs	0.5	0	0	0	0
Metals -Total					
Arsenic	3	< 2.4	< 2.4	< 2.4	< 2.4
Iron	300	**7060**	**4430**	**2610**	**2970**
Lead	5	3.4	< 1.7	3	1.8 B
Manganese	50	**111**	44.8	**67.4**	30.7
Metals -Dissolved					
Arsenic	3	< 2.4	< 2.4	< 2.4	< 2.4
Iron	300	99.4 B	72.9 B	57.1 B	41.3 B
Lead	5	< 1.7	< 1.7	< 1.7	< 1.7
Manganese	50	**82.5**	28.1	**56.5**	24.9

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well					RW-5		
Sample Name	**GWQS[1]**	**19BR-(65-75)**	**19BR-(100-120)**	**RW-05(40-51)**	**RW-05(53-64)**	**RW-5(64-75)**	**RW-5 (100-120)**
Sample Date		**5/16/2006**	**5/17/2006**	**9/27/2006**	**9/27/2006**	**9/29/2006**	**10/5/2006**
VOC							
Benzene	1	**3.4**	**3**	1	**3**	< 0.21	**1.8**
Ethylbenzene	700	5.8	< 0.2	0.67 J	0.38 J	< 0.2	< 0.2
Toluene	1000	28.2	6.4	21.8	2	0.71 J	7.2
Xylene, -m	NS	13.1	0.67 J	0.86 J	< 0.31	< 0.31	< 0.31
Xylene, -m,p	NS	NA	NA	NA	NA	NA	NA
Xylene. -o	NS	35.1	3	2.1	6	< 0.42	< 0.42
Xylenes	1,000	48.3	3.7	2.9	6	< 0.31	< 0.31
PCBs							
PCB 1016	0.5	NA	< 0.094	< 0.15	< 0.11	< 0.11	< 0.11
PCB 1221	0.5	NA	< 0.47	< 0.76	< 0.55	< 0.53	< 0.54
PCB 1232	0.5	NA	< 0.39	< 0.63	< 0.45	< 0.44	< 0.45
PCB 1242	0.5	NA	< 0.16	< 0.26	< 0.19	< 0.18	< 0.19
PCB 1248	0.5	NA	< 0.15	< 0.25	< 0.18	< 0.17	< 0.18
PCB 1254	0.5	NA	< 0.11	< 0.18	< 0.13	< 0.12	< 0.13
PCB 1260	0.5	NA	< 0.12	< 0.19	< 0.14	< 0.13	< 0.13
Total PCBs	0.5	NA	0	0	0	0	0
Metals -Total							
Arsenic	3	**17.7**	< 3.1	1.7 B	< 1.5	< 1.5	**4.7**
Iron	300	**14900 J**	**2510 J**	**7050**	**39300**	**4860**	**5350**
Lead	5	**39.8**	3.3	**68.4**	< 2.6	**24.7**	**32.7**
Manganese	50	**8270**	**2460**	**1610**	**12400**	**4140**	**1890**
Metals -Dissolved							
Arsenic	3	NA	< 3.1	< 1.5	< 1.5	< 1.5	< 1.5
Iron	300	NA	235 J	**2490**	**39700**	67.4 B	118
Lead	5	NA	< 2.6	< 2.6	< 2.6	< 7.8	< 2.6
Manganese	50	NA	**2160 J**	**1610**	**12600**	**4070**	**1980**

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well					RW-5		
Sample Name	**GWQS[1]**	**RW-5(65-76)(041207)**	**RW-5(97-118)**	**RW-5(40-51)(041307)**	**RW-5(071015)**	**RW-5(080502)**	**RW-5 DUP(080917)**
Sample Date		**4/12/2007**	**4/12/2007**	**4/13/2007**	**10/15/2007**	**5/2/2008**	**9/17/2008**
VOC							
Benzene	1	**1.5**	**2.6**	**1.9**	**1.8**	0.89 J	0.42J
Ethylbenzene	700	0.32 J	< 0.2	0.33 J	< 0.21	< 0.27	< 0.27
Toluene	1000	27.1 J	89.7	31.5	< 0.21	< 0.15	< 0.15
Xylene, -m	NS	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	0.97 J	0.44 J	1.2	< 0.35	< 0.39	< 0.39
Xylene. -o	NS	< 0.31	< 0.31	0.34 J	< 0.2	< 0.45	< 0.45
Xylenes	1,000	0.97	0.44 J	1.5	< 0.2	< 0.39	< 0.39
PCBs							
PCB 1016	0.5	< 0.094	< 0.1	< 0.094	< 0.1	< 0.1	< 0.094
PCB 1221	0.5	< 0.47	< 0.51	< 0.47	< 0.51	< 0.5	< 0.47
PCB 1232	0.5	< 0.39	< 0.42	< 0.39	< 0.42	< 0.41	< 0.39
PCB 1242	0.5	< 0.16	< 0.18	< 0.16	< 0.18	< 0.17	< 0.16
PCB 1248	0.5	< 0.15	< 0.16	< 0.15	< 0.16	< 0.16	< 0.15
PCB 1254	0.5	< 0.11	< 0.12	< 0.11	< 0.12	< 0.12	< 0.11
PCB 1260	0.5	< 0.12	< 0.13	< 0.12	< 0.13	< 0.12	< 0.12
Total PCBs	0.5	0	0	0	0	0	0
Metals -Total							
Arsenic	3	< 1.5	< 1.5	< 1.5	< 1.1	**4.1**	2.3 B
Iron	300	**12200**	**1980**	**21400**	**4700**	**15200**	**7290**
Lead	5	**13.9**	**7**	**44.3**	1.5 B	< 1.4	< 1.4
Manganese	50	**3550**	**5340**	**3970**	**5050**	**4890**	**3990**
Metals -Dissolved							
Arsenic	3	NA	< 1.5	< 0.94	< 1.1	< 1.7	< 1.7
Iron	300	NA	**950**	< 25	**1280**	**1210**	**700**
Lead	5	NA	4.6	< 2.8	1 B	< 1.4	< 1.4
Manganese	50	NA	**5330**	**2920**	**4860**	**4720**	**3980**

All results are in micrograms per liter (u

See footnotes for additional information

Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well				RW-5A		
Sample Name	**GWQS[1]**	**RW-5(070709)**	**RW-5A(071015)**	**RW-5A(080429)**	**RW-5A(080912)**	**RW-5A(070709)**
Sample Date		**7/7/2009**	**10/15/2007**	**4/29/2008**	**9/12/2008**	**7/7/2009**
VOC						
Benzene	1	0.26 J	< 0.19	< 0.26	< 0.26	< 0.23
Ethylbenzene	700	< 0.27	< 0.21	< 0.27	< 0.27	< 0.27
Toluene	1000	< 0.3	< 0.21	< 0.15	< 0.15	< 0.3
Xylene, -m	NS	NA	NA	NA	NA	NA
Xylene, -m,p	NS	< 0.25	< 0.35	< 0.39	< 0.39	< 0.25
Xylene. -o	NS	< 0.25	< 0.2	< 0.45	< 0.45	< 0.25
Xylenes	1,000	< 0.25	< 0.2	< 0.39	< 0.39	< 0.25
PCBs						
PCB 1016	0.5	< 0.19	< 0.1	< 0.094	< 0.099	< 0.19
PCB 1221	0.5	< 0.31	< 0.51	< 0.47	< 0.49	< 0.31
PCB 1232	0.5	< 0.21	< 0.42	< 0.39	< 0.41	< 0.21
PCB 1242	0.5	< 0.089	< 0.18	< 0.16	< 0.17	< 0.089
PCB 1248	0.5	< 0.25	< 0.17	< 0.15	< 0.16	< 0.25
PCB 1254	0.5	< 0.11	< 0.12	< 0.11	< 0.11	< 0.11
PCB 1260	0.5	< 0.14	< 0.13	< 0.12	< 0.12	< 0.14
Total PCBs	0.5	0	0	0	0	0
Metals -Total						
Arsenic	3	< 2.4	< 1.1	**8.6**	**10**	< 2.4
Iron	300	**8700**	**524**	**704**	**605**	**1420**
Lead	5	< 1.7	1.9 B	2.9 B	2.2 B	< 1.7
Manganese	50	**3670**	**364**	**123**	**234**	**320**
Metals -Dissolved						
Arsenic	3	< 2.4	< 1.1	**11.8**	**9.7**	< 2.4
Iron	300	**2240**	< 6.3	50.6 B	162	106
Lead	5	< 1.7	< 0.94	2.5 B	< 1.4	< 1.7
Manganese	50	**3520**	**396**	7.2 B	**201**	**244**

All results are in micrograms per liter (u
See footnotes for additional information

Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well				RW-6			
Sample Name	**GWQS[1]**	**20BR-(53-64)**	**20BR-(70-81)**	**20BR-(100-120)**	**RW-06(70-81)**	**RW-6 (100-120)**	**RW-06(53-64) (040207)**
Sample Date		**5/11/2006**	**5/11/2006**	**5/12/2006**	**9/27/2006**	**10/10/2006**	**4/2/2007**
VOC							
Benzene	1	**2.9**	**2.6**	**3.8**	**2.6**	**4**	**2.6**
Ethylbenzene	700	0.56 J	0.88 J	0.28 J	< 0.2	< 0.2	< 0.2
Toluene	1000	2.4	0.95 J	25.7	3.8	2.2	0.54 J
Xylene, -m	NS	0.44 J	< 0.31	< 0.31	< 0.31	< 0.31	NA
Xylene, -m,p	NS	NA	NA	NA	NA	NA	6.5
Xylene. -o	NS	7.1	6.2	2.2	3.3	< 0.42	< 0.31
Xylenes	1,000	7.6	6.2	2.2	3.3	< 0.31	6.5
PCBs							
PCB 1016	0.5	< 0.098	< 0.094	NA	< 0.11	< 0.12	< 0.11
PCB 1221	0.5	< 0.49	< 0.47	NA	< 0.53	< 0.59	< 0.53
PCB 1232	0.5	< 0.41	< 0.39	NA	< 0.44	< 0.49	< 0.44
PCB 1242	0.5	< 0.17	< 0.16	NA	< 0.19	< 0.21	< 0.18
PCB 1248	0.5	< 0.16	< 0.15	NA	< 0.17	< 0.19	< 0.17
PCB 1254	0.5	< 0.11	< 0.11	NA	< 0.12	< 0.14	< 0.12
PCB 1260	0.5	< 0.12	< 0.12	NA	< 0.13	< 0.15	< 0.13
Total PCBs	0.5	0	0	NA	0	0	0
Metals -Total							
Arsenic	3	< 8	< 8	< 8	< 1.5	< 1.5	1.7 B
Iron	300	**30200**	**9600**	**30500**	**14900**	**33200 J**	**44100**
Lead	5	3.2	< 3	**16.1**	< 2.6	**6.9 J**	4.5
Manganese	50	**12000**	**12000**	**7340**	**12400**	**7440**	**11700**
Metals -Dissolved							
Arsenic	3	< 8	< 8	NA	< 1.5	< 1.5	< 1.5
Iron	300	**22200**	**6530**	NA	**11900**	**30000 J**	**42800**
Lead	5	< 3	< 3	NA	< 2.6	3.1 J	2.9 B
Manganese	50	**11700**	**11200**	NA	**12000**	**7410**	**11700**

All results are in micrograms per liter (u

See footnotes for additional information

Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		RW-6					
Sample Name	**GWQS[1]**	**RW-06(70-81)(040307)**	**RW-6(98-119)(040507)**	**RW-6 (071011)**	**RW-6(080502)**	**RW-6(080915)**	**RW-6(070909)**
Sample Date		**4/3/2007**	**4/6/2007**	**10/11/2007**	**5/2/2008**	**9/15/2008**	**7/9/2009**
VOC							
Benzene	1	**1.9**	**2.7**	**2.6**	**1.7**	**2.1**	**2**
Ethylbenzene	700	< 0.2	< 0.2	< 0.21	< 0.27	< 0.27	< 0.27
Toluene	1000	0.69 J	88.4	< 0.21	< 0.15	< 0.15	< 0.3
Xylene, -m	NS	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	0.55 J	2	< 0.35	< 0.39	< 0.39	< 0.25
Xylene. -o	NS	< 0.31	< 0.31	< 0.2	< 0.45	< 0.45	< 0.25
Xylenes	1,000	0.55 J	2	< 0.2	< 0.39	< 0.39	< 0.25
PCBs							
PCB 1016	0.5	< 0.1	< 0.1	< 0.094	< 0.1	< 0.1	< 0.19
PCB 1221	0.5	< 0.52	< 0.51	< 0.47	< 0.52	< 0.51	< 0.31
PCB 1232	0.5	< 0.43	< 0.42	< 0.39	< 0.43	< 0.42	< 0.21
PCB 1242	0.5	< 0.18	< 0.18	< 0.16	< 0.18	< 0.18	< 0.089
PCB 1248	0.5	< 0.17	< 0.16	< 0.15	< 0.17	< 0.17	< 0.25
PCB 1254	0.5	< 0.12	< 0.12	< 0.11	< 0.12	< 0.12	< 0.11
PCB 1260	0.5	< 0.13	< 0.13	< 0.12	< 0.13	< 0.13	< 0.14
Total PCBs	0.5	0	0	0	0	0	0
Metals -Total							
Arsenic	3	< 1.5	< 1.5	2.5 B	**3.8**	2.4 B	**4.1**
Iron	300	**16000**	**39200**	**50800**	**36400**	**43200**	**37600**
Lead	5	**32.3 J**	4.6	< 0.94	1.5 B	< 1.4	< 1.7
Manganese	50	**11300**	**6620**	**5210**	**6640**	**4500**	**4860**
Metals -Dissolved							
Arsenic	3	< 1.5	< 1.5	1.2 B	2.5 B	2.1 B	< 2.4
Iron	300	**15200**	**36800**	**29700**	**7550**	**29600**	**27800**
Lead	5	< 2.8	< 2.8	1.3 B	< 1.4	< 1.4	< 1.7
Manganese	50	**11300**	**6460**	**5360**	**6140**	**4340**	**4750**

All results are in micrograms per liter (u

See footnotes for additional information

Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		RW-6A				
Sample Name	**GWQS[1]**	**RW-6A(071016)**	**RW-6A(080502)**	**RW-6A(080915)**	**RW-6A(070909)**	**21BR-(34-45)**
Sample Date		**10/16/2007**	**5/2/2008**	**9/15/2008**	**7/9/2009**	**5/9/2006**
VOC						
Benzene	1	**5.5**	**1.7**	**2.9**	**1.3**	< 0.21
Ethylbenzene	700	15.2	< 0.27	< 0.27	< 0.27	< 0.2
Toluene	1000	< 0.21	< 0.15	< 0.15	< 0.3	0.98 J
Xylene, -m	NS	NA	NA	NA		< 0.31
Xylene, -m,p	NS	240	1.8	49.6	2.5	NA
Xylene. -o	NS	2.6	< 0.45	< 0.45	< 0.25	< 0.42
Xylenes	1,000	242	1.8	49.6	2.5	< 0.31
PCBs						
PCB 1016	0.5	< 0.1	< 0.1	< 0.094	< 0.22	< 0.1
PCB 1221	0.5	< 0.5	< 0.52	< 0.47	< 0.36	< 0.51
PCB 1232	0.5	< 0.41	< 0.43	< 0.39	< 0.24	< 0.42
PCB 1242	0.5	< 0.17	< 0.18	< 0.16	< 0.1	< 0.18
PCB 1248	0.5	< 0.16	< 0.17	< 0.15	< 0.3	< 0.17
PCB 1254	0.5	< 0.12	< 0.12	< 0.11	< 0.13	< 0.12
PCB 1260	0.5	< 0.12	< 0.13	< 0.12	< 0.17	< 0.13
Total PCBs	0.5	0	0	0	0	0
Metals -Total						
Arsenic	3	< 1.1	2.9 B	1.9B	2.7 B	< 8
Iron	300	**11700 J**	**9290**	**9460**	**10000**	**8360**
Lead	5	< 0.94	2.8 B	< 1.4	< 1.7	< 3 J
Manganese	50	**11200**	**10200 J**	**9770**	**10300**	**92.4 J**
Metals -Dissolved						
Arsenic	3	< 1.1	1.8 B	< 1.7	< 2.4	< 8
Iron	300	**5520 J**	**331**	**2070**	**2760**	< 100
Lead	5	< 0.94	1.8 B	< 1.4	< 1.7	< 3 J
Manganese	50	**11100**	**10000 J**	**9510**	**9960**	26.6 J

All results are in micrograms per liter (u
See footnotes for additional information

Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well				RW-7			
Sample Name	**GWQS[1]**	**21BR-(49-60)**	**21BR(80-100)**	**21BR(105-120)**	**RW-07(34-35)**	**RW-07(49-60)**	**RW-07(80-100)**
Sample Date		**5/9/2006**	**5/10/2006**	**5/10/2006**	**9/26/2006**	**9/26/2006**	**9/28/2006**
VOC							
Benzene	1	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Ethylbenzene	700	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Toluene	1000	1.1	0.79 J	3.4	20.6	3.7	1
Xylene, -m	NS	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
Xylene, -m,p	NS	NA	NA	NA	NA	NA	NA
Xylene. -o	NS	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42
Xylenes	1,000	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
PCBs							
PCB 1016	0.5	< 0.094	< 0.094	< 0.094	< 0.094	< 0.094	< 0.098
PCB 1221	0.5	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.49
PCB 1232	0.5	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.41
PCB 1242	0.5	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.17
PCB 1248	0.5	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.16
PCB 1254	0.5	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
PCB 1260	0.5	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
Total PCBs	0.5	0	0	0	0	0	0
Metals -Total							
Arsenic	3	< 8	< 8	< 8	< 1.5	< 1.5 J	< 1.5
Iron	300	**2160**	**416**	147	**1570**	**997**	**378**
Lead	5	< 3 J	< 3	< 3	< 2.6	< 2.6	< 2.6
Manganese	50	18.7 J	< 15	< 15	23	6.6 BJ	8.5 B
Metals -Dissolved							
Arsenic	3	< 8	< 8	< 8	< 1.5	1.8 BJ	< 1.5
Iron	300	< 100	< 100	< 100	108	90.9 B	85.9 B
Lead	5	< 3 J	< 3	3.8	< 2.6	< 2.6	< 2.6
Manganese	50	< 15 J	< 15	< 15	12.9 B	4.6 BJ	5.5 B

All results are in micrograms per liter (u
See footnotes for additional information

Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		RW-7					
Sample Name	**GWQS[1]**	**RW-07(105-120)**	**RW-07(34-45)(040307)**	**RW-07(80-101)(040307)**	**RW-7(49-60) (040407)**	**RW-7(103-119) (040407)**	**RW-7(071015)**
Sample Date		**9/28/2006**	**4/3/2007**	**4/3/2007**	**4/4/2007**	**4/4/2007**	**10/15/2007**
VOC							
Benzene	1	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.19
Ethylbenzene	700	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.21
Toluene	1000	1.8	0.54 J	2.6	2.7	1.8	< 0.21
Xylene, -m	NS	< 0.31	NA	NA	NA	NA	NA
Xylene, -m,p	NS	NA	< 0.42	< 0.42	< 0.42	< 0.42	< 0.35
Xylene. -o	NS	< 0.42	< 0.31	< 0.31	< 0.31	< 0.31	< 0.2
Xylenes	1,000	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.2
PCBs							
PCB 1016	0.5	< 0.1	< 0.11	< 0.1	< 0.1 J	< 0.094	< 0.094
PCB 1221	0.5	< 0.51	< 0.53	< 0.52	< 0.51 J	< 0.47	< 0.47
PCB 1232	0.5	< 0.42	< 0.44	< 0.43	< 0.42 J	< 0.39	< 0.39
PCB 1242	0.5	< 0.18	< 0.18	< 0.18	< 0.18 J	< 0.16	< 0.16
PCB 1248	0.5	< 0.17	< 0.17	< 0.17	< 0.16 J	< 0.15	< 0.15
PCB 1254	0.5	< 0.12	< 0.12	< 0.12	< 0.12 J	< 0.11	< 0.11
PCB 1260	0.5	< 0.13	< 0.13	< 0.13	< 0.13 J	< 0.12	< 0.12
Total PCBs	0.5	0	0	0	0	0	0
Metals -Total							
Arsenic	3	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.1
Iron	300	175	**3150**	**490**	**489**	213	**342**
Lead	5	< 2.6	< 2.8	< 2.8	< 2.8	< 2.8	< 0.94
Manganese	50	6.8 B	**63.9**	7.6 B	8 B	4.3 B	6.9 B
Metals -Dissolved							
Arsenic	3	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.1
Iron	300	< 67	55.5 B	< 25	< 25	35 B	< 6.3
Lead	5	< 2.6	< 2.8	< 2.8	< 2.8	< 2.8	< 0.94
Manganese	50	5.6 B	8.2 B	4.1 B	3.4 B	2.8 B	6 BJ

All results are in micrograms per liter (u

See footnotes for additional information

Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		RW-7						RW-8
Sample Name	**GWQS[1]**	**RW-7 (080505)**	**RW-7(080912)**	**RW-7(070709)**	**RW8(42-62)**	**RW8(158-178)**	**RW8(199-219)**	**RW-8(42-62)**
Sample Date		**5/5/2008**	**9/12/2008**	**7/7/2009**	**7/31/2008**	**7/21/2008**	**7/22/2008**	**7/7/2009**
VOC								
Benzene	1	< 0.26	< 0.26	< 0.23	0.62 J	< 0.26	0.38 J	< 0.23
Ethylbenzene	700	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27
Toluene	1000	< 0.15	<0.15	< 0.3	27.8	50.9	140	< 0.3
Xylene, -m	NS	NA	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	< 0.39	< 0.39	< 0.25	< 0.39	< 0.39	< 0.39	< 0.25
Xylene. -o	NS	< 0.45	< 0.45	< 0.25	< 0.45	< 0.45	< 0.45	< 0.25
Xylenes	1,000	< 0.39	< 0.39	< 0.25	< 0.39	< 0.39	< 0.39	< 0.25
PCBs								
PCB 1016	0.5	< 0.094	< 0.094	< 0.19	< 0.1	< 0.094	< 0.094	< 0.19
PCB 1221	0.5	< 0.47	< 0.47	< 0.31	< 0.51	< 0.47	< 0.47	< 0.31
PCB 1232	0.5	< 0.39	< 0.39	< 0.21	< 0.42	< 0.39	< 0.39	< 0.21
PCB 1242	0.5	< 0.16	< 0.16	< 0.089	< 0.18	< 0.16	< 0.16	< 0.091
PCB 1248	0.5	< 0.15	< 0.15	< 0.25	< 0.17	< 0.15	< 0.15	< 0.26
PCB 1254	0.5	< 0.11	< 0.11	< 0.11	< 0.12	< 0.11	< 0.11	< 0.11
PCB 1260	0.5	< 0.12	< 0.12	< 0.14	< 0.13	< 0.12	< 0.12	< 0.15
Total PCBs	0.5	0	0	0	0	0	0	0
Metals -Total								
Arsenic	3	< 1.7	< 1.7	< 2.4	< 1.7	**4.3**	2.5 B	< 2.4
Iron	300	< 186 B	**1350**	**2130**	169	158	**405**	**1570**
Lead	5	1.5 B	< 1.4	**5.1**	4	< 1.4	< 1.4	**17.9**
Manganese	50	< 1.7 B	9.3 B	**64.4**	**75.4**	**65.8**	**94.9**	**135**
Metals -Dissolved								
Arsenic	3	< 1.7	< 1.7	< 2.4	< 1.7	**3.2**	**3.6**	< 2.4
Iron	300	< 21 B	15.1 B	< 42	23.7 B	12.4 B	37.9 B	**653**
Lead	5	< 1.4	< 1.4	< 1.7	1.9 B	< 1.4	< 1.4	5
Manganese	50	< 1 B	1.1 B	13 B	**72.3**	**61.6**	**89.9**	**137**

All results are in micrograms per liter (u

See footnotes for additional information

Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well								RW-9		
Sample Name	**GWQS[1]**	**RW-8(158-178)**	**RW-8(199-219)**	**RW9(20-40)**	**RW9 (80-100)**	**RW9 (134-154)**	**RW-9 (201-221)**	**DUP 1**	**RW-9(20-40)**	**RW-9(80-100)**
Sample Date		**7/7/2009**	**7/7/2009**	**7/30/2008**	**7/23/2008**	**7/23/2008**	**7/24/2008**	**7/23/2008**	**7/15/2009**	**7/15/2009**
VOC										
Benzene	1	< 0.23	< 0.23	**7**	0.93 J	0.7 J	**1.5**	**1.1**	< 0.23	< 0.23
Ethylbenzene	700	< 0.27	< 0.27	0.43 J	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27
Toluene	1000	< 0.3	0.66 J	198	34.3	32.8	65.1	32.9	< 0.3	< 0.3
Xylene, -m	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	< 0.25	< 0.25	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.25	< 0.25
Xylene. -o	NS	< 0.25	< 0.25	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.25	< 0.25
Xylenes	1,000	< 0.25	< 0.25	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.25	< 0.25
PCBs										
PCB 1016	0.5	< 0.24	< 0.24	< 0.11	< 0.094	< 0.094	< 0.1	< 0.094	< 0.52	< 0.51
PCB 1221	0.5	< 0.39	< 0.38	< 0.54	< 0.47	< 0.47	< 0.52	< 0.47	< 0.52	< 0.51
PCB 1232	0.5	< 0.26	< 0.26	< 0.45	< 0.39	< 0.39	< 0.43	< 0.39	< 0.52	< 0.51
PCB 1242	0.5	< 0.11	< 0.11	< 0.19	< 0.16	< 0.16	< 0.18	< 0.16	< 0.52	< 0.51
PCB 1248	0.5	< 0.32	< 0.32	< 0.18	< 0.15	< 0.15	< 0.17	< 0.15	< 0.52	< 0.51
PCB 1254	0.5	< 0.14	< 0.14	< 0.13	< 0.11	< 0.11	< 0.12	< 0.11	< 0.52	< 0.51
PCB 1260	0.5	< 0.18	< 0.18	< 0.13	< 0.12	< 0.12	< 0.13	< 0.12	< 0.52	< 0.51
Total PCBs	0.5	0	0	0	0	0	0	0	0	0
Metals -Total										
Arsenic	3	< 2.4	< 2.4	< 1.7	1.7 B	< 1.7	< 1.7	2.1 B	< 2.4	< 2.4
Iron	300	**759**	**895**	210	**466**	**365**	**490**	**327**	143	**317**
Lead	5	**6**	2 B	**5.2**	< 1.4	< 1.4	< 1.4	< 1.4	2.8 B	< 1.7
Manganese	50	**158**	**126**	20.2	33.3	**50.1**	**65.5**	27.5	15.3	10.4 B
Metals -Dissolved										
Arsenic	3	< 2.4	< 2.4	< 1.7	< 1.7	2.1 B	2.4 B	2 B	< 2.4	< 2.4
Iron	300	122	46.8 B	13.1 B	22.5 B	44 B	147	31.8 B	< 12	42.5 B
Lead	5	< 1.7	< 1.7	2.1 B	< 1.4	< 1.4	< 1.4	< 1.4	< 1.7	< 1.7
Manganese	50	**158**	**121**	17.1	12.7 B	22.9	**50.1**	12.5 B	10.6 B	7.4 B

All results are in micrograms per liter (u

See footnotes for additional information

Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well									RW-10
Sample Name	**GWQS[1]**	**DUP**	**RW-9(134-154)**	**RW-9(201-221)**	**RW-10 (46-66)**	**RW10(70-90)**	**RW10 (115-135)**	**RW-10 (180-200)**	**RW-10**
Sample Date		**DUP(071609)**	**7/16/2009**	**7/16/2009**	**7/25/2008**	**7/28/2008**	**7/28/2008**	**7/29/2008**	**RW-10(22-42)**
VOC									
Benzene	1	< 0.23	< 0.23	< 0.23	< 0.26	0.26 J	< 0.26	0.57 J	< 0.23
Ethylbenzene	700	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27
Toluene	1000	< 0.3	< 0.3	< 0.3	37.5	94	75.5	66.4	< 0.3
Xylene, -m	NS	NA	NA	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	< 0.25	< 0.25	< 0.25	< 0.39	0.77 J	0.54 J	0.75 J	< 0.25
Xylene. -o	NS	< 0.25	< 0.25	< 0.25	< 0.45	< 0.45	< 0.45	< 0.45	< 0.25
Xylenes	1,000	< 0.25	< 0.25	< 0.25	< 0.39	0.77 J	0.54 J	0.75 J	< 0.25
PCBs									
PCB 1016	0.5	< 0.24	< 0.2	< 0.24	< 0.1	< 0.094	< 0.094	< 0.094	< 0.2
PCB 1221	0.5	< 0.38	< 0.33	< 0.38	< 0.5	< 0.47	< 0.47	< 0.47	< 0.32
PCB 1232	0.5	< 0.26	< 0.22	< 0.26	< 0.41	< 0.39	< 0.39	< 0.39	< 0.22
PCB 1242	0.5	< 0.11	< 0.095	< 0.11	< 0.17	< 0.16	< 0.16	< 0.16	< 0.094
PCB 1248	0.5	< 0.32	< 0.27	< 0.32	< 0.16	< 0.15	< 0.15	< 0.15	< 0.27
PCB 1254	0.5	< 0.14	< 0.12	< 0.14	< 0.12	< 0.11	< 0.11	< 0.11	< 0.12
PCB 1260	0.5	< 0.18	< 0.15	< 0.18	< 0.12	< 0.12	< 0.12	< 0.12	< 0.15
Total PCBs	0.5	0	0	0	0	0	0	0	0
Metals -Total									
Arsenic	3	< 2.4	< 2.4	< 2.4	2.2 B	2.4 B	2 B	< 1.7	< 2.4
Iron	300	**1240**	**1330**	**888**	**435**	**1270**	**1020**	**1720**	269
Lead	5	**6.4**	**6.4**	< 1.7	2.8 B	**7.3**	**6**	4.9	< 1.7
Manganese	50	**188**	**202**	**170**	**76**	**174**	**161**	**158**	11.8 B
Metals -Dissolved									
Arsenic	3	< 2.4	< 2.4	< 2.4	2.2 B	< 1.7	< 1.7	< 1.7	< 2.4
Iron	300	232	140	131	12.5 B	15.6 B	38.6 B	20 B	85.3 B
Lead	5	< 1.7	< 1.7	< 1.7	1.6 B	1.6 B	1.4 B	1.5 B	< 1.7
Manganese	50	**117**	**119**	**135**	**70.4**	**159**	**120**	**120**	13.3 B

All results are in micrograms per liter (u

See footnotes for additional information

Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well					
Sample Name	**GWQS[1]**	**RW-10**	**RW-10**	**RW-10**	**RW-10**
Sample Date		**RW-10(46-66)**	**RW-10(70-90)**	**RW-10(115-135)**	**RW-10(180-200)**
VOC					
Benzene	1	< 0.23	< 0.23	< 0.23	< 0.23
Ethylbenzene	700	< 0.27	< 0.27	< 0.27	< 0.27
Toluene	1000	< 0.3	< 0.3	< 0.3	< 0.3
Xylene, -m	NS	NA	NA	NA	NA
Xylene, -m,p	NS	< 0.25	< 0.25	< 0.25	< 0.25
Xylene. -o	NS	< 0.25	< 0.25	< 0.25	< 0.25
Xylenes	1,000	< 0.25	< 0.25	< 0.25	< 0.25
PCBs					
PCB 1016	0.5	< 0.22	< 0.22	< 0.22	< 0.21
PCB 1221	0.5	< 0.36	< 0.35	< 0.35	< 0.34
PCB 1232	0.5	< 0.24	< 0.24	< 0.24	< 0.23
PCB 1242	0.5	< 0.1	< 0.1	< 0.1	< 0.1
PCB 1248	0.5	< 0.3	< 0.29	< 0.29	< 0.29
PCB 1254	0.5	< 0.13	< 0.13	< 0.13	< 0.12
PCB 1260	0.5	< 0.17	< 0.16	< 0.16	< 0.16
Total PCBs	0.5	0	0	0	0
Metals -Total					
Arsenic	3	< 2.4	< 2.4	< 2.4	< 2.4
Iron	300	**1090**	**1620**	**1540**	**1410**
Lead	5	< 1.7	< 1.7	< 1.7	< 1.7
Manganese	50	12.7 B	16.9	21.4	**309**
Metals -Dissolved					
Arsenic	3	< 2.4	< 2.4	< 2.4	< 2.4
Iron	300	202	**524**	293	**409**
Lead	5	< 1.7	< 1.7	< 1.7	< 1.7
Manganese	50	12.5 B	17.8	13.4 B	**307**

All results are in micrograms per liter (u
See footnotes for additional information

Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		SC-1							
Sample Name	**GWQS[1]**	**SC-1**	**SC1(041107)**	**SC-1(071016)**	**SC-1(080430)**	**DUP-01(080430) (SC-1)**	**SC-1 (080917)**	**SC-1(070909)**	**SC-2 (080505)**
Sample Date		**10/5/2006**	**4/11/2007**	**10/16/2007**	**4/30/2008**	**4/30/2008**	**9/17/2008**	**7/9/2009**	**5/5/2008**
VOC									
Benzene	1	< 0.21	**1.4**	**1.5**	**1.1**	0.93 J	0.81 J	0.94 J	< 0.26
Ethylbenzene	700	< 0.2	6.7	2.7	6.5	5.5	1.6	2	< 0.27
Toluene	1000	< 0.2	1.7	1.3	0.93 J	0.84 J	0.36 J	0.51 J	< 0.15
Xylene, -m	NS	< 0.31	NA	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	NA	76.7	51	34.8	30.2	16.6	26	< 0.39
Xylene. -o	NS	< 0.42	6	3.8	0.93 J	5.2	3.3	3.2	< 0.45
Xylenes	1,000	< 0.31	82.8	54.8	40.7	35.4	19.9	29.1	< 0.39
PCBs									
PCB 1016	0.5	< 0.094	< 0.1	< 0.094	< 0.094	< 0.094	< 0.094	< 0.19	< 0.094
PCB 1221	0.5	< 0.47	< 0.52	< 0.47	< 0.47	< 0.47	< 0.47	< 0.31	< 0.47
PCB 1232	0.5	< 0.39	< 0.43	< 0.39	< 0.39	< 0.39	< 0.39	< 0.21	< 0.39
PCB 1242	0.5	< 0.16	< 0.18	< 0.16	< 0.16	< 0.16	< 0.16	< 0.089	< 0.16
PCB 1248	0.5	< 0.15	< 0.17	< 0.15	< 0.15	< 0.15	< 0.15	< 0.25	< 0.15
PCB 1254	0.5	< 0.11	< 0.12	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
PCB 1260	0.5	< 0.12	< 0.13	< 0.12	< 0.12	< 0.12	< 0.12	< 0.14	< 0.12
Total PCBs	0.5	0	0	0	0	0	0	0	0
Metals -Total									
Arsenic	3	< 1.5	< 1.5	< 1.1	< 1.7	< 1.7	< 1.7	< 2.4	< 1.7
Iron	300	265	**39800**	**60800 J**	**29700**	**28200**	**47100**	**33100**	**5240**
Lead	5	< 2.6	**6.3**	**8.8**	**5.4**	**6.6**	**6.2**	**7.2**	2.8 B
Manganese	50	46.7	**411**	**655**	**307 J**	**323 J**	**518**	**343**	**658**
Metals -Dissolved									
Arsenic	3	1.7 B	< 1.5	< 1.1	< 1.7	< 1.7	< 1.7	< 2.4	< 1.7
Iron	300	269	**38400**	**45300 J**	9.3 B	< 7.4	**27300**	**27300**	< 213 B
Lead	5	< 2.6	< 2.8	1.6 B	< 1.4	1.9 B	< 1.4	1.7 B	< 1.4
Manganese	50	44.1	**410**	**630**	**303 J**	**284 J**	**497**	**344**	< 634 B

All results are in micrograms per liter (ug/L).
See footnotes for additional information.

Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		SC-2	
Sample Name	**GWQS[1]**	**SC-2 (080917)**	**SC-2(063009)**
Sample Date		**9/17/2008**	**6/30/2009**
VOC			
Benzene	1	< 0.26	< 0.23
Ethylbenzene	700	< 0.27	< 0.27
Toluene	1000	< 0.15	< 0.3
Xylene, -m	NS	NA	NA
Xylene, -m,p	NS	< 0.39	< 0.25
Xylene. -o	NS	< 0.45	< 0.25
Xylenes	1,000	< 0.39	< 0.25
PCBs			
PCB 1016	0.5	< 0.1	< 0.19
PCB 1221	0.5	< 0.51	< 0.31
PCB 1232	0.5	< 0.42	< 0.21
PCB 1242	0.5	< 0.18	< 0.091
PCB 1248	0.5	< 0.17	< 0.26
PCB 1254	0.5	< 0.12	< 0.11
PCB 1260	0.5	< 0.13	< 0.15
Total PCBs	0.5	0	0
Metals -Total			
Arsenic	3	2.1 B	< 2.4
Iron	300	**8040**	**551**
Lead	5	< 1.4	< 1.7
Manganese	50	**619**	**227**
Metals -Dissolved			
Arsenic	3	< 1.7	< 2.4
Iron	300	96.3 B	34.1 B
Lead	5	< 1.4	< 1.7
Manganese	50	**599**	**183**

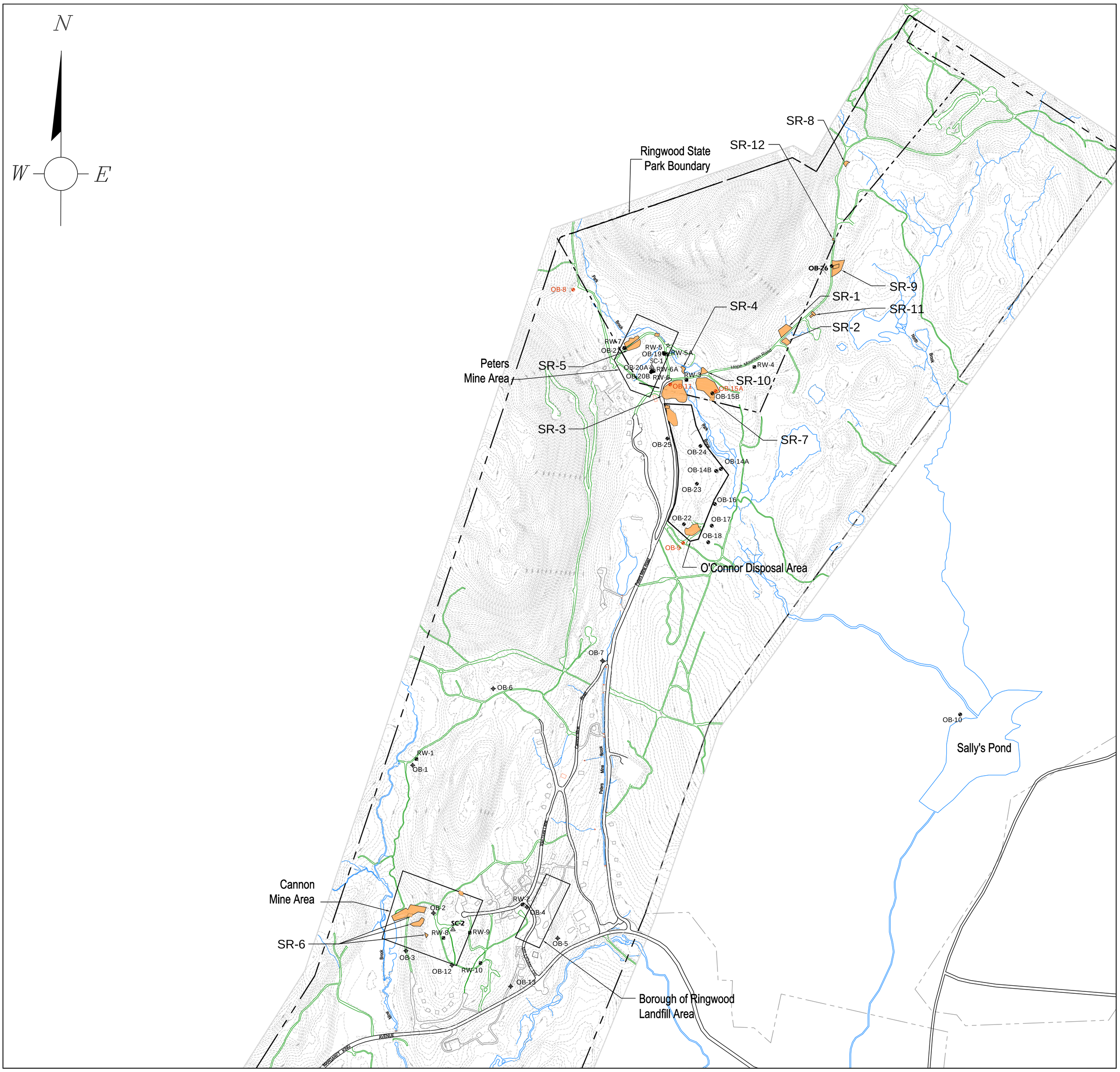
All results are in micrograms per
See footnotes for additional info

Table 9. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Footnotes:

Results are presented in microgram per liter (ug/L).

<	Not detected.
NA	Not analyzed.
NS	No standard.
B	Organic: analyte was detected in one or more of the associated blanks.
B	Inorganic: estimated result is between the detection limit and quantification limit.
J	Estimated result.
R	Rejected result.
SVOC	Semi-volatile organic compound.
VOC	Volatile organic compound.
PCBs	Polychlorinated biphenyls.
[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



LEGEND

- BEDROCK WELL
- DEEP BEDROCK WELL
- DIRECTIONAL WELL
- UNCONSOLIDATED WELL
- MONITORING WELL DAMAGED OR NOT AVAILABLE FOR SAMPLING
- PAINT SLUDGE REMOVAL AREA

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0 300 600 900
SCALE IN FEET

REV. ISSUED DATE DESCRIPTION

KEYPLAN

SEAL

SEAL

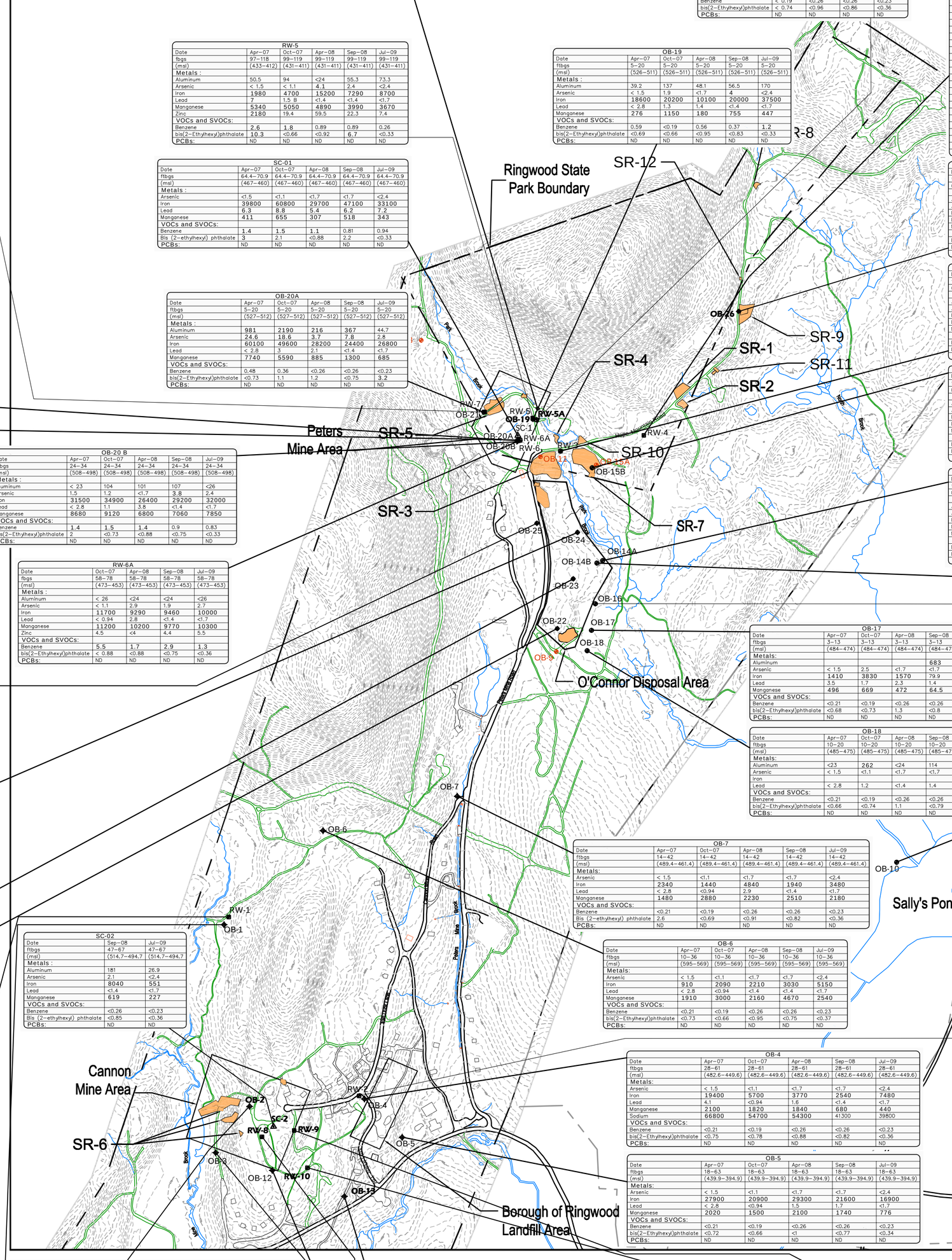
ARCADIS
1 International Boulevard
Mahwah, NJ 07495
Tel: 201-684-1410 Fax: 201-684-1420
www.arcadis-us.com

PROJECT TITLE
RINGWOOD MINE/LANDFILL SITE
RINGWOOD, NEW JERSEY

PROJECT MANAGER	DEPARTMENT MANAGER	LEAD DESIGN PROF.	CHECKED BY
E. ZIMMERMAN	C. MOTTA	J. ROCKLIN	E. ZIMMERMAN
SHEET TITLE		TASK/PHASE NUMBER	DRAWN BY
MONITORING WELL LOCATIONS		00001	J. GONZALEZ
		PROJECT NUMBER	DRAWING NUMBER
		NJ000604.0034	1

Acad Version : R17.1s (LMS Tech)
User Name : jrgonzalez

Date\Time : Tue, 15 Sep 2009 - 4:33pm
Path\Name : G:\Drafting\RINGWOOD\RAR-RI-SI\NJ000604\0035\00034\GWC\July 2009\6043534C2_07-09.dwg - Layout Tab : 2



PM AIRSHAFT					
Date	Apr-07	Oct-07	Apr-08	Sep-08	Jul-09
fbgs	180	180	180	180	180
(msl)	348.3	348.3	348.3	348.3	348.3
Metals :					
Aluminum	1380	37.2	< 200	76.2	129
Arsenic	<0.94	< 1.1	< 3	<1.7	<2.4
Iron	69100	152000	339	147000	68900
Lead	22.6	2.8	< 3	<1.4	2.7
Manganese	771	2680	19.2	2400	672
VOCs and SVOCs:					
Benzene	9.9	30.1	< 1	26.4	7.4
bis(2-Ethylhexyl)phthalate	<0.72	< 0.93	< 2	<0.75	<0.33
PCBs:	ND	ND	ND	ND	ND
--					
fbgs	220	220	220	220	230
(msl)	308.3	308.3	308.3	308.3	298.3
Metals :					
Arsenic	<0.94	1.4	< 3	91.5	<2.4
Iron	154000	158000	148000	<1.7	68300
Lead	<2.8	2.5	6.4	169000	2.2
Manganese	2680	2580	2490	2810	671
VOCs and SVOCs:					
Benzene	30.9	29.9	31.8	29.1	7.6
bis(2-Ethylhexyl)phthalate	<0.66	1.1	< 2	<0.75	1.6
PCBs:	ND	ND	ND	ND	ND

RW-5A				
Date	Oct-07	Apr-08	Sep-08	Jul-09
fbgs	54-74	54-74	54-74	54-74
(msl)	(477-457)	(477-457)	(477-457)	(477-457)
Metals :				
Aluminum	1010	834	625	185
Arsenic	< 1.1	8.6	10	<2.4
Iron	524	704	605	1420
Lead	1.9	2.9	2.2	<1.7
Manganese	364	123	234	320
Sodium	7020	63100	34200	36600
Zinc	<2.7	13.5	10.3	6.4
VOCs and SVOCs:				
Benzene	< 0.19	<0.26	<0.26	<0.23
bis(2-Ethylhexyl)phthalate	< 0.74	<0.96	<0.86	<0.36
PCBs:	ND	ND	ND	ND

RW-4					
Date	Apr-07	Oct-07	Apr-08	Sep-08	Jul-09
fbgs	56-77	56-77	57-77	57-77	56-77
(msl)	(484-463)	(484-463)	(483-463)	(483-463)	(484-463)
Metals:					
Aluminum	628	27.7	58.5	24	<26
Antimony					17.8
Arsenic	< 1.5	<1.1	<1.7	<1.7	<2.4
Iron	12400	1170	1180	3360	7060
Lead	5	1.6	3.4	<1.4	3.4
Manganese	55.9	35.6	17.2	75.8	111
VOCs and SVOCs:					
Benzene	<0.21	<0.19	<0.26	14.3	<0.23
bis (2-ethylhexyl) phthalate	3.8	2.4	2	2.3	<0.37
PCBs:	ND	ND	ND	ND	ND
--					
fbgs	108-129	108-129	108-128	108-128	108-128
(msl)	(432-411)	(432-411)	(432-412)	(432-412)	(432-412)
Metals:					
Antimony					6.2
Arsenic	< 1.5	<1.1	<1.7	<1.7	<2.4
Iron	487	765	602	105	4430
Lead	<2.8	<0.94	3.1	<1.4	<1.7
VOCs and SVOCs:					
Benzene	<0.21	<0.19	<0.26	3.3	<0.23
bis (2-ethylhexyl) phthalate	<0.66	<0.67	2.4	<0.75	1.2
PCBs:	ND	ND	ND	ND	ND
--					
fbgs	328-349	328-349	328-348	328-348	328-349
(msl)	(212-191)	(212-191)	(212-192)	(212-192)	(212-191)
Metals:					
Arsenic	< 1.5	<1.1	<1.7	<1.7	<2.4
Cadmium					4.9
Iron	1350	798	316	336	2610
Lead	<2.8	2.1	2.5	1.8	3
Manganese					67.4
Zinc					3770
VOCs and SVOCs:					
Benzene	<0.21	<0.19	<0.26	0.3	<0.23
bis (2-ethylhexyl) phthalate	1.5	1.3	1.1	<0.82	<0.36
PCBs:	ND	ND	ND	ND	ND
--					
fbgs	388-409	388-409	388-408	388-408	388-408
(msl)	(152-131)	(152-131)	(152-132)	(152-132)	(152-132)
Metals:					
Arsenic	< 1.5	<1.1	<1.7	<1.7	<2.4
Iron	651	2890	1170	352	2970
Lead	3	2.4	3.3	<1.4	1.8
Manganese					
Zinc					
VOCs and SVOCs:					
Benzene	<0.21	<0.19	<0.26	<0.26	<0.23
bis (2-ethylhexyl) phthalate	1.1	2.2	1.4	< 83	1.1
PCBs:	ND	ND	ND	ND	ND

RW-5					
Date	Apr-07	Oct-07	Apr-08	Sep-08	Jul-09
fbgs	97-118	99-119	99-119	99-119	99-119
(msl)	(433-412)	(431-411)	(431-411)	(431-411)	(431-411)
Metals :					
Aluminum	50.5	94	<24	55.3	73.3
Arsenic	< 1.5	< 1.1	4.1	2.4	<2.4
Iron	1980	4700	15200	7290	8700
Lead	7	1.5 B	<1.4	<1.4	<1.7
Manganese	5340	5050	4890	3990	3670
Zinc	2180	19.4	59.5	22.3	7.4
VOCs and SVOCs:					
Benzene	2.6	1.8	0.89	0.89	0.26
bis(2-Ethylhexyl)phthalate	10.3	<0.66	<0.92	6.7	<0.33
PCBs:	ND	ND	ND	ND	ND

OB-19					
Date	Apr-07	Oct-07	Apr-08	Sep-08	Jul-09
ftbgs	5-20	5-20	5-20	5-20	5-20
(msl)	(526-511)	(526-511)	(526-511)	(526-511)	(526-511)
Metals :					
Aluminum	39.2	137	48.1	56.5	170
Arsenic	< 1.5	1.9	<1.7	4	<2.4
Iron	18600	20200	10100	20000	37500
Lead	< 2.8	1.3	1.4	<1.4	<1.7
Manganese	276	1150	180	755	447
VOCs and SVOCs:					
Benzene	0.59	<0.19	0.56	0.37	1.2
bis(2-Ethylhexyl)phthalate	<0.69	<0.66	<0.95	<0.83	<0.33
PCBs:	ND	ND	ND	ND	ND

OB-26		
Date	Sep-08	Jul-09
ftbgs	9-24	9-24
(msl)	(533.3-518.3)	(533.3-518.3)
Metals :		
Aluminum	504	376
Arsenic	2.7	<2.4
Iron	511	403
Lead	<1.4	2
Manganese	20.7	9.9
VOCs and SVOCs:		
Benzene	<0.26	<0.23
Bis (2-ethylhexyl) phthalate	<0.75	<0.33
PCBs:	ND	ND

RW-3					
Date	Apr-07	Oct-07	Apr-08	Sep-08	Jul-09
fbgs	62-98	62-98	62-98	62-98	62-98
(msl)	(466-430)	(466-430)	(466-430)	(466-430)	(466-430)
Metals:					
Aluminum	<23	134	280	<24	<26
Arsenic	<1.5	<1.1	<1.7	<1.7	<2.4
Iron	240	3470	1520	253	1830
Lead	3	3.3	4.7	1.6	<1.7
Manganese	101	172	149	167	275
VOCs and SVOCs:					
Benzene	<0.21	<0.19	<0.26	<0.26	<0.23
bis (2-ethylhexyl) phthalate	1.6	1.4	2.2	8.5	<0.36
PCBs:	ND	ND	ND	ND	ND

SC-01					
Date	Apr-07	Oct-07	Apr-08	Sep-08	Jul-09
ftbgs	64.4-70.9	64.4-70.9	64.4-70.9	64.4-70.9	64.4-70.9
(msl)	(467-460)	(467-460)	(467-460)	(467-460)	(467-460)
Metals :					
Arsenic	<1.5	<1.1	<1.7	<1.7	<2.4
Iron	39800	60800	29700	47100	33100
Lead	6.3	8.8	5.4	6.2	7.2
Manganese	411	655	307	518	343
VOCs and SVOCs:					
Benzene	1.4	1.5	1.1	0.81	0.94
Bis (2-ethylhexyl) phthalate	3	2.1	<0.88	2.2	<0.33
PCBs:	ND	ND	ND	ND	ND

OB-20A					
Date	Apr-07	Oct-07	Apr-08	Sep-08	Jul-09
ftbgs	5-20	5-20	5-20	5-20	5-20
(msl)	(527-512)	(527-512)	(527-512)	(527-512)	(527-512)
Metals :					
Aluminum	981	2190	216	367	44.7
Arsenic	24.6	18.6	3.7	7.8	2.8
Iron	60100	49600	28200	24400	26800
Lead	< 2.8	3	2.1	<1.4	<1.7
Manganese	7740	5590	885	1300	685
VOCs and SVOCs:					
Benzene	0.48	0.36	<0.26	<0.26	<0.23
bis(2-Ethylhexyl)phthalate	<0.73	1.1	1.2	<0.75	3.2
PCBs:	ND	ND	ND	ND	ND

OB-15B					
Date	Apr-07	Oct-07	Apr-08	Sep-08	Jul-09
ftbgs	25-35	25-35	25-35	25-35	25-35
(msl)	(490-480)	(490-480)	(490-480)	(490-480)	(490-480)
Metals:					
Aluminum	231	104	425	<24	700
Arsenic	< 1.5	<1.1	<1.7	1.7	2.4
Iron	194	158	507	64.8	1070
Lead	< 2.8	1	2.6	<1.4	<1.7
Manganese	440	675	2370	1300	1830
VOCs and SVOCs:					
Benzene	<0.21	<0.19	<0.26	<0.26	<0.23
bis(2-Ethylhexyl)phthalate	<0.73	<0.88	2.3	<0.75	<0.36
PCBs:	ND	ND	ND	ND	ND

RW-7					
Date	Apr-07	Oct-07	Apr-08	Sep-08	Jul-09
fbgs	103-119	99-119	99-119	99-119	99-119
(msl)	(434-418)	(438-418)	(438-418)	(438-418)	(438-418)
Metals :					
Aluminum		405	244	648	4940
Arsenic	< 1.5	< 1.1	<1.7	<1.7	<2.4
Iron		342	186	1350	2130
Lead	< 2.8	< 0.94	1.5	<1.4	5.1
Manganese					64.4
VOCs and SVOCs:					
Benzene	<0.21	< 0.19	<0.26	<0.26	<0.23
bis(2-Ethylhexyl)phthalate	<0.66	< 0.66	<0.98	<0.77	<0.34
PCBs:	ND	ND	ND	ND	ND

RW-6					
Date	Apr-07	Oct-07	Apr-08	Sep-08	Jul-09
fbgs	98-119	99-119	99-119	99-119	99-119
(msl)	(434-413)	(433-413)	(433-413)	(433-413)	(433-413)
Metals :					
Aluminum	83.4	< 26	<24	<24	<26
Arsenic	< 1.5	2.5	3.8	2.4	4.1
Iron	39200	50800	36400	43200	37600
Lead	4.6	< 0.94	1.5	<1.4	<1.7
Manganese	6620	5210	6640	4500	4860
Zinc	6280	11.4	<4	11.1	10.4
VOCs and SVOCs:					
Benzene	2.7	2.6	1.7	2.1	2
bis(2-Ethylhexyl)phthalate	7.8	4.2	<.95	3.7	1.5
PCBs:	ND	ND	ND	ND	ND

OB-21					
Date	Apr-07	Oct-07	Apr-08	Sep-08	Jul-09
ftbgs	6-21	6-21	6-21	6-21	6-21
(msl)	(532-517)	(532-517)	(532-517)	(532-517)	(532-517)
Metals :					
Aluminum	38500	36300	1820	2760	1240
Arsenic	10.4	9	<1.7	<1.7	<2.4
Beryllium	1.6	1.7	<0.15	<0.15	<0.4
Iron	68100	54600	2520	3150	1790
Lead	29.2	27	2.1	1.4	<1.7
Manganese	2840	2540	113	241	85.9
VOCs and SVOCs:	ND				
Benzene	<0.21	<0.19	<0.26	<0.26	<0.23
bis(2-Ethylhexyl)phthalate	<0.73	<0.73	1.4	<0.79	<0.33
PCBs:	ND	ND	ND	ND	ND

OB-20 B					
Date	Apr-07	Oct-07	Apr-08	Sep-08	Jul-09
ftbgs	24-34	24-34	24-34	24-34	24-34
(msl)	(508-498)	(508-498)	(508-498)	(508-498)	(508-498)
Metals :					
Aluminum	< 23	104	101	107	<26
Arsenic	1.5	1.2	<1.7	3.8	2.4
Iron	31500	34900	26400	29200	32000
Lead	< 2.8	1.1	3.8	<1.4	<1.7
Manganese	8680	9120	6800	7060	7850
VOCs and SVOCs:					
Benzene	1.4	1.5	1.4	0.9	0.83
bis(2-Ethylhexyl)phthalate	2	<0.73	<0.88	<0.75	<0.33
PCBs:	ND	ND	ND	ND	ND

OB-14A					
Date	Apr-07	Oct-07	Apr-08	Sep-08	Jul-09
ftbgs	4-14	4-14	4-14	4-14	4-14
(msl)	(497-487)	(497-487)	(497-487)	(497-487)	(497-487)
Metals:					
Aluminum	78.4	<26	<24	<24	<26
Arsenic	2.4	23.1	14.4	2.3	2.8
Iron	45500	61400	52500	34700	50500
Lead	3.3	1.4	4	<1.4	<1.7
Manganese	1040	2770	1870	773	1360
VOCs and SVOCs:					
Benzene	<0.21	<0.19	<0.26	<0.26	<0.23
bis(2-Ethylhexyl)phthalate	<0.7	1.4	<0.9	<0.78	<0.34
PCBs:	ND	ND	ND	ND	ND

OB-25					
Date	Apr-07	Oct-07	Apr-08	Sep-08	Jul-09
ftbgs	10-20	10-20	10-20	10-20	10-20
(msl)	(521-501)	(521-501)	(521-501)	(521-501)	(521-501)
Metals :					
Aluminum	212000	1440	8080	43100	17700
Arsenic	7.1	1.1	2.1	19.8	8.4
Beryllium	3.7	<0.15	0.4	1.4	3.3
Cadmium	29.8	<0.24	<0.28	2.1	<0.4
Chromium	53.3	3	9.4	51.1	24.1
Iron	2280	942	11000	69500	28300
Lead	594	3.1	13.8	45.7	19.9
Manganese	8270	23.6	321	2110	735
Mercury	2.1	<0.15	<0.15	0.15	0.071
Nickel	48.2	3.8	12.8	72.2	29
VOCs and SVOCs:					
Benzene	<0.21	<0.19	<0.26	<0.26	<0.23
Methyl tert butyl ether					171
bis(2-Ethylhexyl)phthalate	3.7	<0.73	1.1	<0.79	<0.36
PCBs:	ND	ND	ND	ND	ND

RW-6A				
Date	Oct-07	Apr-08	Sep-08	Jul-09
fbgs	58-78	58-78	58-78	58-78
(msl)	(473-453)	(473-453)	(473-453)	(473-453)
Metals :				
Aluminum	< 26	<24	<24	<26
Arsenic	< 1.1	2.9	1.9	2.7
Iron	11700	9290	9460	10000
Lead	< 0.94	2.8	<1.4	<1.7
Manganese	11200	10200	9770	10300
Zinc	4.5	<4	4.4	5.5
VOCs and SVOCs:				
Benzene	5.5	1.7	2.9	1.3
bis(2-Ethylhexyl)phthalate	< 0.88	<0.88	<0.75	<0.36
PCBs:	ND	ND	ND	ND

OB-14B					
Date	Apr-07	Oct-07	Apr-08	Sep-08	Jul-09
ftbgs	25-35	25-35	25-35	25-35	25-35
(msl)	(478-468)	(478-468)	(478-468)	(478-468)	(478-468)
Metals:					
Arsenic	< 1.5	2.8	2.1	2	<2.4
Beryllium				2.6	1.1
Iron	962	642	890	516	1040
Lead	< 2.8	1.1	3.2	<1.41.4	<1.7
Manganese	2040	1500	1740	1560	2100
VOCs and SVOCs:					
Benzene	<0.21	<0.19	<0.26	<0.26	<0.23
bis(2-Ethylhexyl)phthalate	<0.76	<0.79	<0.92	<0.79	<0.33
PCBs:	ND	ND	ND	ND	ND

OB-17					
Date	Apr-07	Oct-07	Apr-08	Sep-08	Jul-09
ftbgs	3-13	3-13	3-13	3-13	3-13
(msl)	(484-474)	(484-474)	(484-474)	(484-474)	(484-474)
Metals:					
Aluminum				683	85.5
Arsenic	< 1.5	2.5	<1.7	<1.7	<2.4
Iron	1410	3830	1570	79.9	3130
Lead	3.5	1.7	2.3	1.4	<1.7
Manganese	496	669	472	64.5	496
VOCs and SVOCs:					
Benzene	<0.21	<0.19	<0.26	<0.26	<0.23
bis(2-Ethylhexyl)phthalate	<0.68	<0.73	1.3	<0.8	<0.33
PCBs:	ND	ND	ND	ND	ND

OB-16					
Date	Apr-07	Oct-07	Apr-08	Sep-08	Jul-09
ftbgs	5-15	5-15	5-15	5-15	5-15
(msl)	(484-474)	(484-474)	(484-474)	(484-474)	(484-474)
Metals:					
Arsenic	4.4	8.8	4.6	7.4	5.1
Iron	8050	15400	11100	12200	12400
Lead	< 2.8	<0.94	3.7	<1.4	<1.7
Manganese	2230	3940	2860	3250	3030
VOCs and SVOCs:					
Benzene	<0.21	<0.19	<0.26	<0.26	<0.23
bis(2-Ethylhexyl)phthalate	<0.73	<0.66	<0.92	<0.81	<0.36
PCBs:	ND	ND	ND	ND	ND

OB-24					
Date	Apr-07	Oct-07	Apr-08	Sep-08	Jul-09
ftbgs	5-15	5-15	5-15	5-15	5-15
(msl)	(493-483)	(493-483)	(493-483)	(493-483)	(493-483)
Metals :					
Aluminum				686	1020
Arsenic	< 1.5	1.9	1.7	2.5	<2.4
Iron				1520	2130
Lead	< 2.8	1.2	1.5	<1.4	<1.7
Manganese	343	352	262	742	789
VOCs and SVOCs:					
Benzene	<0.21	<0.19	<0.26	<0.26	<0.23
bis(2-Ethylhexyl)phthalate	<0.74	<0.66	<0.88	<0.79	<0.36
PCBs:	ND	ND	ND	ND	ND

OB-18					
Date	Apr-07	Oct-07	Apr-08	Sep-08	Jul-09
ftbgs	10-20	10-20	10-20	10-20	10-20
(msl)	(485-475)	(485-475)	(485-475)	(485-475)	(485-475)
Metals:					
Aluminum	<23	262	<24	114	420
Arsenic	< 1.5	<1.1	<1.7	<1.7	<2.4
Iron					490
Lead	< 2.8	1.2	<1.4	1.4	<1.7
VOCs and SVOCs:					
Benzene	<0.21	<0.19	<0.26	<0.26	<0.23
bis(2-Ethylhexyl)phthalate	<0.66	<0.74	1.1	<0.79	<0.37
PCBs:	ND	ND	ND	ND	ND

OB-10					
Date	Apr-07	Oct-07	Apr-08	Sep-08	Jul-09
ftbgs	10-20	10-20	10-20	10-20	10-20
(msl)	(340-330)	(340-330)	(340-330)	(340-330)	(340-330)
Metals:					
Arsenic	< 1.5	<1.1	<1.7	<1.7	<2.4
Iron	1110	598	298	71.5	4160
Lead	< 2.8	<0.94	<1.4	<1.4	<1.7
Manganese	882	214	25.1	87.2	2570
VOCs and SVOCs:					
Benzene	<0.21	<0.19	<0.26	<0.26	<0.23
bis(2-Ethylhexyl)phthalate	1.6	<0.66	<0.88	<0.79	<0.35
PCBs:	ND	ND	ND	ND	ND

OB-23					
Date	Apr-07	Oct-07	Apr-08	Sep-08	Jul-09
ftbgs	10-20	10-20	10-20	10-20	10-20
(msl)	(502-492)	(502-492)	(502-492)	(502-492)	(502-492)
Metals :					
Arsenic	< 1.5	DRY	<1.7	DRY	<2.4
Iron	14100	DRY	7760	DRY	42300
Lead	24.1	DRY	2.5	DRY	7.5
Manganese	1650	DRY	1130	DRY	1400
Sodium	170000	DRY	368000	DRY	86900
VOCs and SVOCs:					
benzene	<0.21	DRY	<.26	DRY	<0.23
bis(2-Ethylhexyl)phthalate	6.6	DRY	<.95	DRY	1.1
PCBs:	ND	DRY	ND	DRY	ND

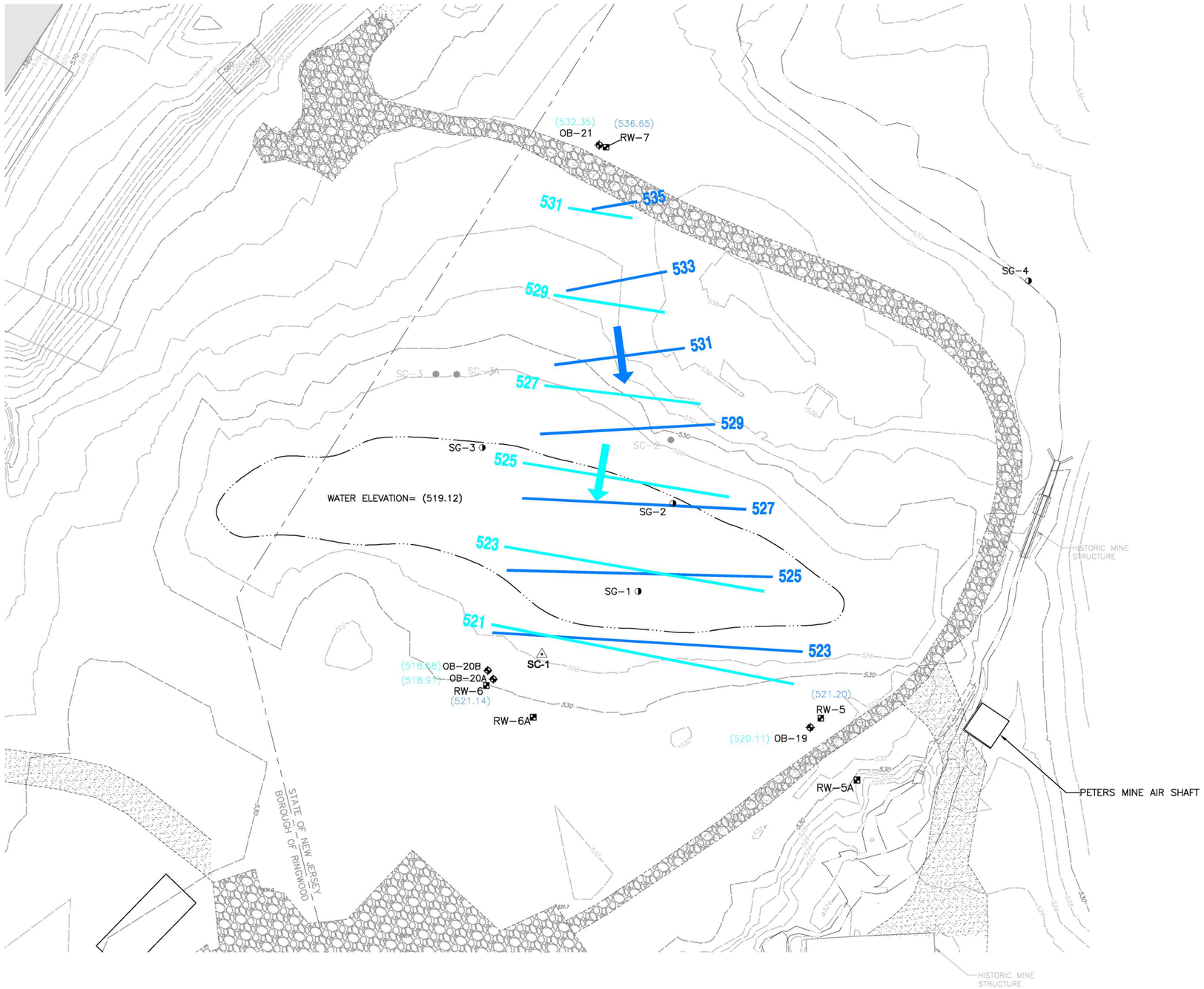
OB-7					
Date	Apr-07	Oct-07	Apr-08	Sep-08	Jul-09
ftbgs	14-42	14-42	14-42	14-42	14-42
(msl)	(489.4-461.4)	(489.4-461.4)	(489.4-461.4)	(489.4-461.4)	(489.4-461.4)
Metals:					
Arsenic	< 1.5	<1.1	<1.7	<1.7	<2.4
Iron	2340	1440	4840	1940	3480
Lead	< 2.8	<0.94	2.9	<1.4	<1.7
Manganese	1480	2880	2230	2510	2180
VOCs and SVOCs:					
Benzene	<0.21	<0.19	<0.26	<0.26	<0.23
Bis (2-ethylhexyl) phthalate	2.6	<0.69	<0.91	<0.82	<0.36
PCBs:	ND	ND	ND	ND	ND

OB-22					
Date	Apr-07	Oct-07	Apr-08	Sep-08	Jul-09
ftbgs	10-20	10-20	10-20	10-20	10-20
(msl)	(505-495)	(505-495)	(505-495)	(505-495)	(505-495)
Metals :					
Aluminum	13200	DRY	1560	DRY	2280
Arsenic	5.2	DRY	<1.7	DRY	<2.4
Iron	19900	DRY	1600	DRY	2960
Lead	9.1	DRY	2.3	DRY	<1.7
Manganese	805	DRY	39.4	DRY	64.2
VOCs and SVOCs:					
Benzene	<0.21	DRY	<.26	DRY	<0.23
bis(2-Ethylhexyl)phthalate	<0.73	DRY	<.99	DRY	<0.37
PCBs:	ND	DRY	ND	DRY	ND

SC-02		
Date	Sep-08	Jul-09
ftbgs	47-67	47-67
(msl)	(514.7-494.7	(514.7-494.7
Metals :		
Aluminum	181	26.9
Arsenic	2.1	<2.4
Iron	8040	551
Lead	<1.4	<1.7
Manganese	619	227
VOCs and SVOCs:		
Benzene	<0.26	<0.23
Bis (2-ethylhexyl) phthalate	<0.85	<0.36
PCBs:	ND	ND

OB-6					
Date	Apr-07	Oct-07	Apr-08	Sep-08	Jul-09
ftbgs	10-36	10-36	10-36	10-36	10-36
(msl)	(595-569)	(595-569)	(595-569)	(595-569)	(595-569)
Metals:					
Arsenic	< 1.5	<1.1	<1.7	<1.7	<2.4
Iron	910	2090	2210	3030	5150
Lead	< 2.8	<0.94	<1.4	<1.4	<1.7
Manganese	1910	3000	2160	4670	2540
VOCs and SVOCs:					
Benzene	<0.21	<0.19	<0.26	<0.26	<0.23
bis(2-Ethylhexyl)phthalate	<0.73	<0.66	<0.95	<0.75	<0.37
PCBs:	ND	ND	ND	ND	ND

RW-2					
Date	Apr-07	Oct-07	Apr-08	Sep-08	Jul-09
fbgs	19-50	19-50	20-50	20-50	20-50
(msl)	(494-463)	(494-463)	(495-465)	(495-465)	(495-465)
Metals:					
Aluminum	1810	161	979	<24	1100
Arsenic	<1.5	<1.1	<1.7	<1.7	<2.4
Iron	4580	511	2710	73.4	3810
Lead	4.1	1.2	4.3	<1.4	<1.7
Manganese	843	718	369	199	239
Sodium	124000	95100	120000	97800	134000
VOCs and SVOCs:					
Benzene	<0.21	<0.19	<0.26	7.4	<0.23
bis (2-ethylhexyl) phthalate	<0.7	<0.66	5	<0.77	<0.38
PCBs:	ND	ND	ND	ND	ND
--					
fbgs	102-133	102-133	103-133	103-133	102-133
(msl)	(411-380)	(411-380)	(410-380)	(410-380)	(411-380)
Metals:					
Aluminum	2290	117	109	35.4	616
Arsenic	<1.5	<1.1	<1.7	1.7	<2.4
Iron	7880	616	655	349	4160
Lead	11.2	<0.94	5.4	<1.4	3.7
Manganese	2590	381	442	5215	165
Sodium	159000	75900	120000	85100	121000
Zinc	747	423	1700	2690	2970
VOCs and SVOCs:					
Benzene	<0.21	<0.19	<0.26	43.8	<0.23
bis (2-ethylhexyl) phthalate	16.4	2.1	6.6	3.2	<0.38
PCBs:	ND	ND	ND	ND	ND
--					
fbgs	161-192	161-192	161-192	162-192	162-192
(msl)	(352-321)	(352-321)	(352-321)	(351-321)	(351-321)
Metals:					
Aluminum	1530	<26	NA	NS	650
Arsenic	<1.5	<1.1	NA	NS	<2.4
Iron	4690	653	NA	NS	4120
Lead	14	1.4	NA	NS	2
Manganese	3290	1510	NA	NS	303
Sodium	135000	49000	NA	NS	112000
Zinc	11300	762	NA	NS	1520
VOCs and SVOCs:					
Benzene	<0.21	<0.19	NA	NS	<0.23
bis (2-ethylhexyl) phthalate	33.6	1.9	NA	NS	<0.38
PCBs:	ND	ND	NA	NS	ND
--					
fbgs	278-309	278-309	278-309	279-309	279-309
(msl)	(235-204)	(235-204)	(235-204)	(234-204)	(234-204)
Metals:					
Aluminum	451	282	NA	295	30.3
Arsenic	<1.5	<1.1	NA	<1.7	<2.4
Iron	1740	1650	NA	1300	1390
Lead	5.9	3.2	NA	21.2	<1.7
Manganese	1350	1750	NA	980	198
Sodium	117000	61500	NA	79100	109000
Zinc	2600	2230	NA	5670	680
VOCs and SVOCs:					
Benzene	<0.21	<0.19	NA	6	<0.23
bis (2-ethylhexyl) phthalate	27.3	5.5	NA	<0.80	<0.36
PCBs:	ND	ND	NA	ND	ND



0 30 60 90
SCALE IN FEET

LEGEND:

- 530 — EXISTING CONTOUR
- 533 — GROUNDWATER ELEVATION CONTOUR – OVERBURDEN
- GROUNDWATER FLOW DIRECTION OF OVERBURDEN (1–FT CONTOUR INTERVAL)
- 536 — GROUNDWATER ELEVATION CONTOUR – BEDROCK (100' – 120')
- GROUNDWATER FLOW DIRECTION OF BEDROCK INTERVAL 100' – 120' APRIL 2007 (FT. MSL.) (1–FT CONTOUR INTERVAL)
- (521.20) — GROUNDWATER/SURFACE WATER ELEVATION (FEET AMSL)
- LIMIT OF SURFACE WATER
- OVERHEAD UTILITY LINES
- EXISTING DIRT TRAIL/ROAD
- STABILIZED ACCESS ROAD
- SC–2 — SOIL BORING LOCATION
- OB–19 — OVERBURDEN MONITORING WELL
- SG–1 — STAFF GAUGE
- RW–5 — BEDROCK MONITORING WELL
- SC-1 — DIRECTIONAL MONITORING WELL
- 601 — BLOCK
- 12 — LOT

NOTE:

1. WETLAND BOUNDARY ESTABLISHED BY TRIDENT ENVIRONMENTAL CONSULTANTS (2005).
2. BEDROCK CONTOURS BASED ON INTERVAL 100 TO 120 FEET BELOW GROUND SURFACE.

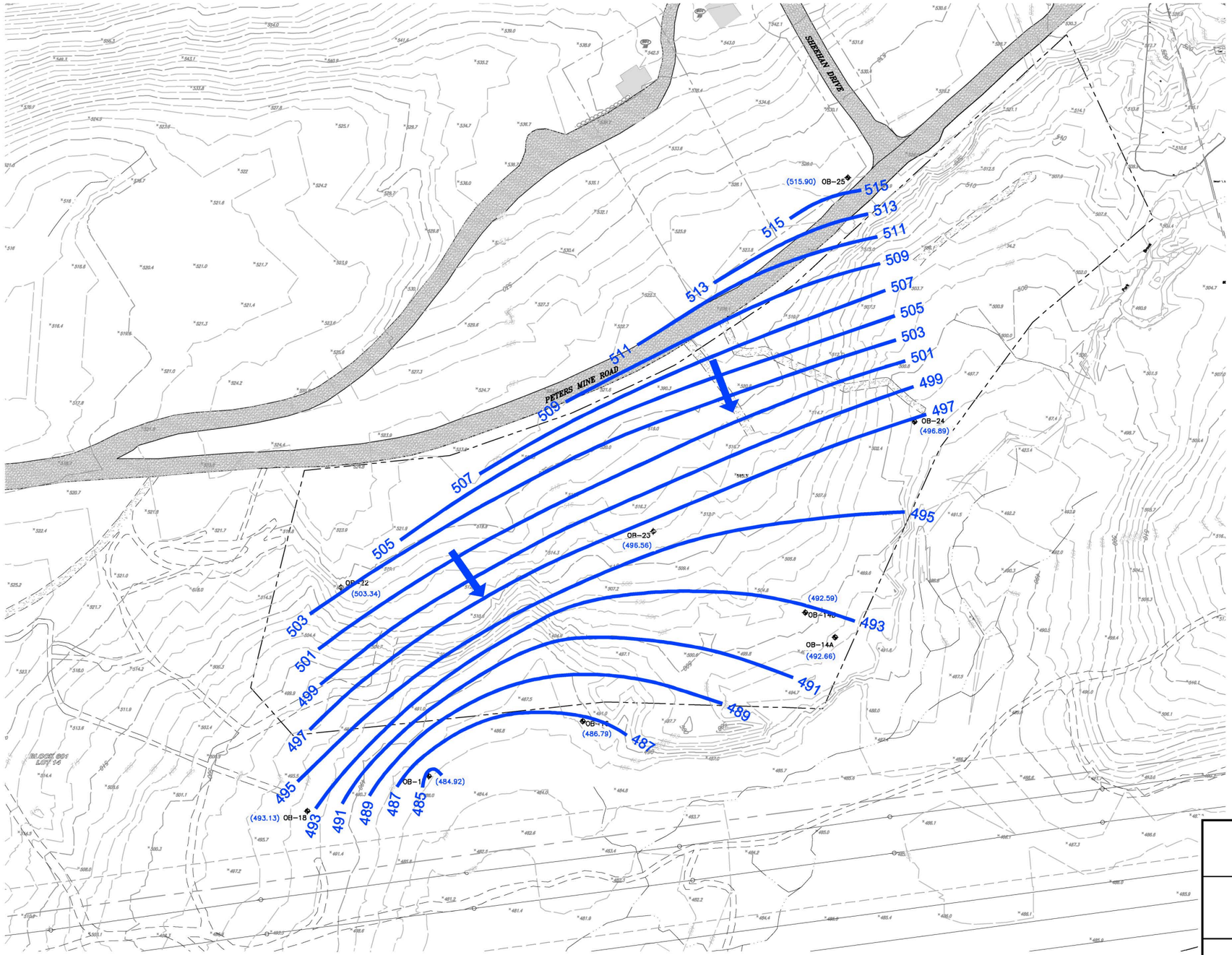
PETERS MINE PIT AREA
RINGWOOD, NEW JERSEY
RINGWOOD MINE/LANDFILL SITE REMEDIATION PROJECT

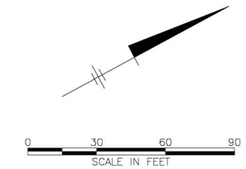
OVERBURDEN & BEDROCK INTERVAL (100' - 200') GROUNDWATER ELEVATIONS JULY 2009

ARCADIS

FIGURE 3

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:\Drafting\RINGWOOD\RAR-RI-SIM\J0008400\09\0008400GWC-July 2009\0400SS-HYD_07-09.dwg LAYOUT: SSAVED: 9/16/2009 10:31 AM ACADVER: 17.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ARCADIS.CTB PLOTTED: 9/16/2009 10:31 AM BY: GONZALEZ, JAMES
XREFS:
BASEMAP
NWOD202
BASEMAP-KEY
IMAGES:
PROJECTNAME: ----





LEGEND:

- 530 — EXISTING CONTOUR
- 492 — GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION
- (486.79) GROUNDWATER WATER LEVEL
- LIMIT OF SURFACE WATER
- OVERHEAD UTILITY LINES
- PROPERTY BOUNDARY
- OUTLINE OF O'CONNOR DISPOSAL AREA
- EXISTING DIRT ROAD/TRAIL
- OB-16 OVERBURDEN MONITORING WELL LOCATION

FORMER O'CONNOR DISPOSAL AREA
RINGWOOD, NEW JERSEY
RINGWOOD MINE/LANDFILL SITE REMEDIATION PROJECT

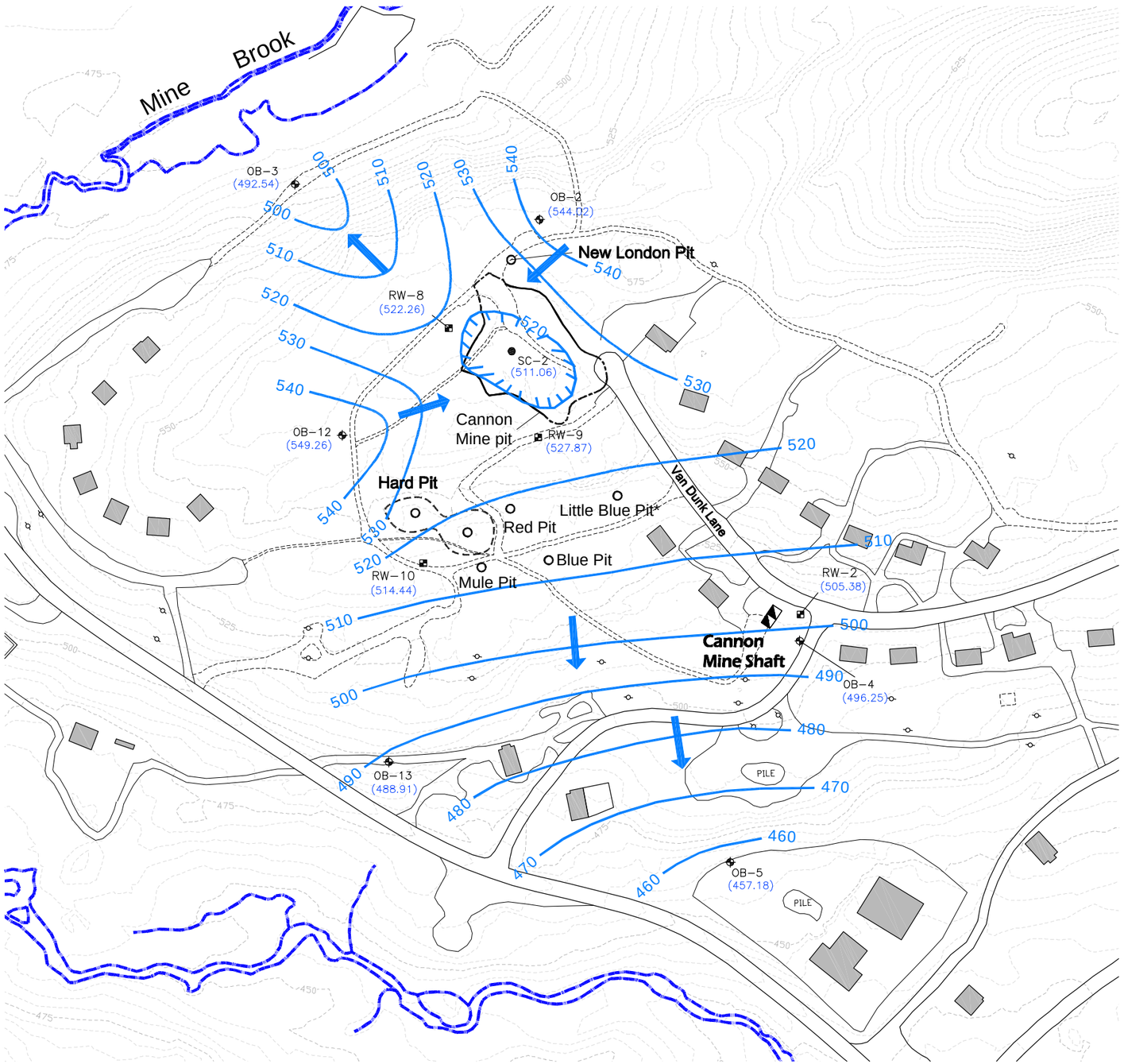
GROUNDWATER CONTOURS & FLOW DIRECTION JULY 2009

ARCADIS

FIGURE
4

CITY:MAHWAH DIV/GROUP:ENVIRONMENTAL DB:J.GONZALEZ LD:J.SEIER PIC:M.MOHIUDDIN PM:E.ZIMMERMAN TM:(Opt) LYR:(On)ON=*;OFF=*REF*
G:\Drafting\RINGWOOD\DRAFR\SITM\J0090A\0025\0024GW\J.July 2009\0425SSWM_07-09.dwg LAYOUT: 4SAVED: 9/17/2009 1:34 PM ACADVER: 17.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ARCADIS.CTB PLOTTED: 9/17/2009 1:52 PM BY: GONZALEZ, JAMES
XREFS:
BASEMAP-KEY
OCDA-AR-00
IMAGES:
PROJECTNAME: ----

R2-0001372



0 100 200 300
SCALE IN FEET

LEGEND

- RESIDENCE
- TRAILS
- ROADWAYS
- WATERWAYS, BROOKS
- GROUND SURFACE ELEVATION CONTOUR
- SC-2 SOIL BORING LOCATION
- RW-2 BEDROCK MONITORING WELL
- OB-2 OVERBURDEN MONITORING WELL
- (496.25) GROUNDWATER/SURFACE WATER ELEVATION (FEET AMSL)
- 500 GROUNDWATER CONTOUR LINE RELATIVE TO MEAN SEA LEVEL
- GROUNDWATER FLOW DIRECTION OF SHALLOW BEDROCK INTERVAL OCTOBER 2007 (FT. MSL.) (10-FT CONTOUR INTERVAL)
- BGS BELOW GROUND SURFACE

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

SHALLOW BEDROCK GROUNDWATER ELEVATIONS JULY 2009

ARCADIS

FIGURE
5

R2-0001373

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:\Drafting\RINGWOOD\RAR-RI-SI\NJ000604\0350003A\GWC\July 2009\604353AW5_07-09.dwg LAYOUT: 5SAVED: 9/17/2009 3:12 PM ACADVER: 17.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ARCADIS.CTB PLOTTED: 9/17/2009 3:28 PM BY: GONZALEZ, JAMES
XREFS: IMAGES: PROJECTNAME: ----
2182BRKL

ARCADIS Well ID: **RW-1(11-31)**

Packer Sampling Form

Project Number: NJ000604.0035
Date: 7/17/2009
Sampling Time: 9:20
Weather: Sunny, 70's

Task: .00034
Sampled By: C.C/C.L
Recorded By: C.C/C.L

Instrument Identification

Water Level Meter: Solinist
PID: MiniRAE
Water Quality Meter (s): YSI and LaMotte 2020 turbidimeter
Pump: Bladder

Purging Information

Purge Method: 3 volume purge
Casing Material: Steel
Casing Diameter: 6"
Total Depth: 150
Depth to Water: 12.69
Water Column: 137.31
Gallons/Foot: 1.47
Gallons in Well: 201.8457

Purge Volume Information

Sample Zone: 11-31
Volumes to be Purged: 84
Packer PSI: 100

Starting Totalizer: * Final Totalizer: * * Volume measuring using buckets (totalizer not dependable)

Volume Purged prior to sampling: N/A
Total Volume Purged: N/A

Hermit Test Information (Time)

Packer Inflation: 8:10 Pump On: 8:25 Pump On: Pump On:
Packer Deflation: 9:40 Pump Off: 9:38 Pump Off: Pump Off:

Field Parameter Measurements Taken During Isolated Zone Packer Testing

Time	Minutes Elapsed	Rate (ml/m)	Turbidity (NTUs)	REDOX (ORP)	pH	Conductivity (mS/cm^c)	Temp (ºC)	Dissolved Oxygen mg/L
8:30	5	300	1.40	204.2	6.09	0.049	12.74	4.98
8:35	10	300	0.32	221.7	5.81	0.043	12.56	5.15
8:40	15	300	0.48	232.2	5.70	0.043	12.75	5.39
8:45	20	300	0.55	234.2	5.76	0.043	12.66	5.49
8:50	25	300	0.39	239.2	5.78	0.044	12.67	5.69
8:55	30	300	0.47	242.1	5.74	0.044	12.71	5.87
9:00	35	300	0.42	250.9	5.73	0.044	12.69	5.94
9:05	40	300	0.39	251.9	5.74	0.045	12.70	6.12
9:10	45	300	0.47	256.9	5.73	0.045	12.64	6.15
9:15	50	300	0.39	257.1	5.71	0.045	12.73	6.16

Observations During Sampling

Well Condition: Good
Odor: None
Color: Clear
Comments: Water Disposed to Frac Tank (Onsite)

ARCADIS Well ID: **RW-1(59-79)**

Packer Sampling Form

Project Number: NJ000604.0035
Date: 7/17/2009
Sampling Time: 10:55
Weather: Sunny, 70's

Task: .00034
Sampled By: C.C/C.L
Recorded By: C.C/C.L

Instrument Identification

Water Level Meter: Solinist
PID: MiniRAE
Water Quality Meter (s): YSI and LaMotte 2020 turbidimeter
Pump: Bladder

Purging Information

Purge Method: 3 volume purge
Casing Material: Steel
Casing Diameter: 6"
Total Depth: 150
Depth to Water: 12.12
Water Column: 137.88
Gallons/Foot: 1.47
Gallons in Well: 202.6836

Purge Volume Information

Sample Zone: 59-79
Volumes to be Purged: 100
Packer PSI: 125

Starting Totalizer: * Final Totalizer: * * Volume measuring using buckets (totalizer not dependable)

Volume Purged prior to sampling: N/A
Total Volume Purged: N/A

Hermit Test Information (Time)

Packer Inflation: 10:00 Pump On: 10:14 Pump On: Pump On:
Packer Deflation: 11:25 Pump Off: 11:21 Pump Off: Pump Off:

Field Parameter Measurements Taken During Isolated Zone Packer Testing

Time	Minutes Elapsed	Rate (ml/m)	Turbidity (NTUs)	REDOX (ORP)	pH	Conductivity (mS/cm^c)	Temp (ºC)	Dissolved Oxygen mg/L
10:20	6	200	0.77	191.1	6.45	0.114	14.51	4.40
10:25	11	200	0.45	144.1	6.82	0.151	14.02	2.09
10:30	16	200	0.26	147.0	7.09	0.159	13.94	1.70
10:35	21	200	0.23	13.1	7.14	0.160	13.88	1.61
10:40	26	200	0.53	-2.8	7.21	0.161	13.92	1.54
10:45	31	200	0.00	-12.6	7.27	0.161	14.07	1.51
10:50	36	200	0.34	-19.4	7.30	0.161	14.01	1.48

Observations During Sampling

Well Condition: Good
Odor: None
Color: Clear
Comments: Water Disposed to Frac Tank (Onsite)

ARCADIS

Well ID: **RW-1(98-118)**

Packer Sampling Form

Project Number: NJ000604.0035
Date: 7/17/2009
Sampling Time: 13:10
Weather: Sunny, 80's

Task: .00034
Sampled By: C.C/C.L
Recorded By: C.C/C.L

Instrument Identification

Water Level Meter: Solinist
PID: MiniRAE
Water Quality Meter (s): YSI and LaMotte 2020 turbidimeter
Pump: Bladder

Purging Information

Purge Method: 3 volume purge
Casing Material: Steel
Casing Diameter: 6"
Total Depth: 150
Depth to Water: 11
Water Column: 139
Gallons/Foot: 1.47
Gallons in Well: 204.33

Purge Volume Information

Sample Zone: 98-118
Volumes to be Purged: 105
Packer PSI: 180

Starting Totalizer: * Final Totalizer: * * Volume measuring using buckets (totalizer not dependable)

Volume Purged prior to sampling: N/A
Total Volume Purged: N/A

Hermit Test Information (Time)

Packer Inflation: 11:45 Pump On: 12:29 Pump On: Pump On:
Packer Deflation: 13:30 Pump Off: 13:26 Pump Off: Pump Off:

Field Parameter Measurements Taken During Isolated Zone Packer Testing

Time	Minutes Elapsed	Rate (ml/m)	Turbidity (NTUs)	REDOX (ORP)	pH	Conductivity (mS/cm^c)	Temp (ºC)	Dissolved Oxygen mg/L
12:32	3	400	0.21	134.1	7.29	0.174	14.42	1.80
12:37	8	300	0.50	35.1	7.29	0.170	13.43	0.55
12:42	13	300	0.22	-45.5	7.34	0.171	13.78	0.41
12:47	18	300	0.18	-53.4	7.38	0.171	13.65	0.40
12:52	23	300	0.24	-59.3	7.40	0.171	13.75	0.38
12:57	28	300	0.30	-58.1	7.41	0.172	13.90	0.35
13:02	33	300	0.85	-60.1	7.40	0.171	13.75	0.34
13:07	38	300	0.30	-61.7	7.37	0.171	13.75	0.33

Observations During Sampling

Well Condition: Good
Odor: None
Color: Clear
Comments: Water Disposed to Frac Tank (Onsite)

ARCADIS

Well ID: **RW-1(126-146)**

Packer Sampling Form

Project Number: NJ000604.0035
Date: 7/17/2009
Sampling Time: 15:15
Weather: Cloudy, 80's

Task: .00034
Sampled By: C.C/C.L
Recorded By: C.C/C.L

Instrument Identification

Water Level Meter: Solinist
PID: MiniRAE
Water Quality Meter (s): YSI and LaMotte 2020 turbidimeter
Pump: Bladder

Purging Information

Purge Method: 3 volume purge
Casing Material: Steel
Casing Diameter: 6"
Total Depth: 150
Depth to Water: 11.45
Water Column: 138.55
Gallons/Foot: 1.47
Gallons in Well: 38

Purge Volume Information

Sample Zone: 126-146
Volumes to be Purged: 110
Packer PSI: 165

Starting Totalizer: * Final Totalizer: * * Volume measuring using buckets (totalizer not dependable)

Volume Purged prior to sampling: N/A
Total Volume Purged: N/A

Hermit Test Information (Time)

Packer Inflation: 13:40 Pump On: 14:36 Pump On: Pump On:
Packer Deflation: 15:40 Pump Off: 15:35 Pump Off: Pump Off:

Field Parameter Measurements Taken During Isolated Zone Packer Testing

Time	Minutes Elapsed	Rate (ml/m)	Turbidity (NTUs)	REDOX (ORP)	pH	Conductivity (mS/cm^c)	Temp (ºC)	Dissolved Oxygen mg/L
14:40	4	200	2.90	-13.1	6.88	0.163	16.56	1.16
14:45	9	200	2.06	-8.2	6.90	0.181	14.32	0.65
14:50	14	200	1.90	-32.6	6.83	0.191	13.78	0.42
14:55	19	200	1.60	-39.0	6.80	0.193	13.56	0.36
15:00	24	200	1.49	-51.5	6.80	0.194	13.55	0.31
15:05	29	200	1.49	-54.6	6.83	0.195	13.52	0.30
15:10	34	200	1.47	-60.1	6.84	0.195	13.51	0.28

Observations During Sampling

Well Condition: Good
Odor: None
Color: Clear
Comments: Water Disposed to Frac Tank (Onsite)

ARCADIS

Well ID: **RW-2(20-50)**

Packer Sampling Form

Project Number: NJ000604.0035
Date: 7/10/2009
Sampling Time: 13:40
Weather: Sunny, 80's

Task: .00034
Sampled By: C.C/C.L
Recorded By: C.C/C.L
Rep. Code: DUP(071009)

Instrument Identification

Water Level Meter: Solinist
PID: MiniRAE
Water Quality Meter (s): YSI and LaMotte 2020 turbidimeter
Pump: Bladder

Purging Information

Purge Method: 3 volume purge
Casing Material: Steel
Casing Diameter: 6"
Total Depth: 503
Depth to Water: 13.22
Water Column: 489.78
Gallons/Foot: 1.47
Gallons in Well: 719.9766

Purge Volume Information

Sample Zone: 20-50
Volumes to be Purged: 175
Packer PSI: 115

Starting Totalizer: * Final Totalizer: * * Volume measuring using buckets (totalizer not dependable)

Volume Purged prior to sampling: N/A
Total Volume Purged: N/A

Hermit Test Information (Time)

Packer Inflation: 12:45 Pump On: 13:04 Pump On: Pump On:
Packer Deflation: 15:35 Pump Off: 15:31 Pump Off: Pump Off:

Field Parameter Measurements Taken During Isolated Zone Packer Testing

Time	Minutes Elapsed	Rate (ml/m)	Turbidity (NTUs)	REDOX (ORP)	pH	Conductivity (mS/cm^c)	Temp (ºC)	Dissolved Oxygen mg/L
13:10	6	200	22.20	54.2	6.09	0.998	16.79	2.61
13:15	11	200	22.20	91.2	5.86	0.983	15.98	1.41
13:20	16	200	13.00	92.2	5.88	0.985	15.76	1.21
13:25	21	200	10.80	90.2	5.87	0.983	15.68	1.18
13:30	26	200	9.28	88.8	5.86	0.972	15.48	1.11
13:35	31	200	9.34	87.9	5.88	0.974	15.26	1.09
13:40	36	200	9.21	88.2	5.86	0.975	15.38	1.09

Observations During Sampling

Well Condition: Good
Odor: None
Color: Clear
Comments: Water Disposed to Frac Tank (Onsite)

ARCADIS

Well ID: **RW-2(103-133)**

Packer Sampling Form

Project Number: NJ000604.0035
Date: 7/13/2009
Sampling Time: 10:45
Weather: Sunny, 70's

Task: .00034
Sampled By: C.C/C.L
Recorded By: C.C/C.L

Instrument Identification

Water Level Meter: Solinist
PID: MiniRAE
Water Quality Meter (s): YSI and LaMotte 2020 turbidimeter
Pump: Bladder

Purging Information

Purge Method: 3 volume purge
Casing Material: Steel
Casing Diameter: 6"
Total Depth: 503
Depth to Water: 11.9
Water Column: 491.1
Gallons/Foot: 1.47
Gallons in Well: 721.917

Purge Volume Information

Sample Zone: 103-133
Volumes to be Purged: 130
Packer PSI: 130

Starting Totalizer: * Final Totalizer: * * Volume measuring using buckets (totalizer not dependable)

Volume Purged prior to sampling: N/A
Total Volume Purged: N/A

Hermit Test Information (Time)

Packer Inflation: 9:45 Pump On: 10:08 Pump On: Pump On:
Packer Deflation: 12:20 Pump Off: 11:09 Pump Off: Pump Off:

Field Parameter Measurements Taken During Isolated Zone Packer Testing

Time	Minutes Elapsed	Rate (ml/m)	Turbidity (NTUs)	REDOX (ORP)	pH	Conductivity (mS/cm^c)	Temp (ºC)	Dissolved Oxygen mg/L
10:00	5	150	No Flow					
10:05	10	150	9.03	70.1	6.41	1.108	20.06	3.51
10:10	15	150	9.33	48.0	6.20	1.075	17.88	1.50
10:15	20	150	6.89	53.9	6.14	1.073	17.69	0.93
10:20	25	150	6.01	57.7	6.11	1.068	17.47	0.75
10:25	30	150	5.37	57.7	6.12	1.064	17.25	0.68
10:30	35	150	5.80	53.3	6.16	1.063	17.20	0.63
10:35	40	150	5.29	50.5	6.19	1.062	17.14	0.59

Observations During Sampling

Well Condition: Good
Odor: None
Color: Clear
Comments: Water Disposed to Frac Tank (Onsite)

ARCADIS

Well ID: **RW-2(162-192)**

Packer Sampling Form

Project Number: NJ000604.0035
Date: 7/13/2009
Sampling Time: 12:50
Weather: Sunny, 80's

Task: .00034
Sampled By: C.C/C.L
Recorded By: C.C/C.L

Instrument Identification

Water Level Meter: Solinist
PID: MiniRAE
Water Quality Meter (s): YSI and LaMotte 2020 turbidimeter
Pump: Bladder

Purging Information

Purge Method: 3 volume purge
Casing Material: Steel
Casing Diameter: 6"
Total Depth: 503
Depth to Water: 7.21
Water Column: 495.79
Gallons/Foot: 1.47
Gallons in Well: 728.8113

Purge Volume Information

Sample Zone: 162-192
Volumes to be Purged: 130
Packer PSI: 170

Starting Totalizer: * Final Totalizer: *

Volume Purged prior to sampling: N/A
Total Volume Purged: N/A

**Volume in Pipe

Hermit Test Information (Time)

Packer Inflation: 11:44 Pump On: 12:01 Pump On: Pump On:
Packer Deflation: 13:30 Pump Off: 13:26 Pump Off: Pump Off:

Field Parameter Measurements Taken During Isolated Zone Packer Testing

Time	Minutes Elapsed	Rate (ml/m)	Turbidity (NTUs)	REDOX (ORP)	pH	Conductivity (mS/cm^c)	Temp (ºC)	Dissolved Oxygen mg/L
12:10	9	225	9.61	42.7	6.47	1.099	19.07	2.25
12:15	14	100	6.05	43.7	6.29	1.057	17.50	1.26
12:20	19	100	4.22	49.2	6.31	1.050	17.10	0.87
12:25	24	100	2.75	49.10	6.36	1.057	17.51	0.79
12:30	29	100	2.44	51.1	6.36	1.069	17.79	0.75
12:35	34	100	3.57	51.6	6.32	1.046	16.73	0.71
12:40	39	100	3.19	50.4	6.34	1.057	17.42	0.66
12:45	44	100	3.02	47.8	6.34	1.054	17.14	0.63

Observations During Sampling

Well Condition: Good
Odor: None
Color: Clear
Comments: Water Disposed to Frac Tank (Onsite)

ARCADIS

Well ID: **RW-2(279-309)**

Packer Sampling Form

Project Number: NJ000604.0035
Date: 7/13/2009
Sampling Time: 15:55
Weather: Sunny, 80's

Task: .00034
Sampled By: C.C/C.L
Recorded By: C.C/C.L

Instrument Identification

Water Level Meter: Solinist
PID: MiniRAE
Water Quality Meter (s): YSI and LaMotte 2020 turbidimeter
Pump: Bladder

Purging Information

Purge Method: 3 volume purge
Casing Material: Steel
Casing Diameter: 6"
Total Depth: 503
Depth to Water: 15.58
Water Column: 487.42
Gallons/Foot: 1.47
Gallons in Well: 716.5074

Purge Volume Information

Sample Zone: 279-309
Volumes to be Purged: 44
Packer PSI: 220

Starting Totalizer: * Final Totalizer: * * Volume measuring using buckets (totalizer not dependable)

Volume Purged prior to sampling: N/A
Total Volume Purged: N/A

Hermit Test Information (Time)

Packer Inflation: 14:20
Packer Deflation: 16:19

Pump On: 14:25
Pump Off: 14:45
Bladder Leak

Pump On: 15:15
Pump Off: 16:15

Pump On:
Pump Off:

Pump On:
Pump Off:

Pump On:
Pump Off:

Field Parameter Measurements Taken During Isolated Zone Packer Testing

Time	Minutes Elapsed	Rate (ml/m)	Turbidity (NTUs)	REDOX (ORP)	pH	Conductivity (mS/cm^c)	Temp (ºC)	Dissolved Oxygen mg/L
15:20	5	200	11.80	59.3	6.64	1.069	17.47	1.73
15:25	10	200	7.71	159.2	6.42	1.043	16.38	0.57
15:30	15	200	4.21	68.3	6.39	1.041	16.24	0.56
15:35	20	200	6.71	41.3	6.38	1.039	16.14	0.65
15:40	25	200	6.21	12.2	6.42	1.055	16.74	0.70
15:45	30	200	2.99	15.4	6.42	1.051	16.60	0.80
15:50	35	200	3.17	19.2	6.42	1.055	16.75	0.74
15:55	40	200	3.44	52.1	6.39	1.055	16.73	0.78

Observations During Sampling

Well Condition: Good
Odor: None
Color: Clear
Comments: Water Disposed to Frac Tank (Onsite)

ARCADIS

Well ID: **RW-2(441-472)**

Packer Sampling Form

Project Number: NJ000604.0035
Date: 7/14/2009
Sampling Time: 11:45
Weather: Sunny, 70's

Task: .00034
Sampled By: C.C/C.L
Recorded By: C.C/C.L

Instrument Identification

Water Level Meter: Solinist
PID: MiniRAE
Water Quality Meter (s): YSI and LaMotte 2020 turbidimeter
Pump: Bladder

Purging Information

Purge Method: 3 volume purge
Casing Material: Steel
Casing Diameter: 6"
Total Depth: 503
Depth to Water: 7.25
Water Column: 495.75
Gallons/Foot: 1.47
Gallons in Well: 728.7525

Purge Volume Information

Sample Zone: 441-472
Volumes to be Purged: 134
Packer PSI: 310

Starting Totalizer: N/A Final Totalizer: N/A * Volume measuring using buckets (totalizer not dependable)

Volume Purged prior to sampling: N/A
Total Volume Purged: N/A **Not enough water to clear piping

Hermit Test Information (Time)

Packer Inflation: 9:55
Packer Deflation: 12:07

Pump On: 10:42
Pump Off: 12:07

Pump On:
Pump Off:

Pump On:
Pump Off:

Pump On:
Pump Off:

Pump On:
Pump Off:

Pump On:
Pump Off:

Field Parameter Measurements Taken During Isolated Zone Packer Testing (Con't below)

Time	Minutes Elapsed	Rate (ml/m)	Turbidity (NTUs)	REDOX (ORP)	pH	Conductivity (mS/cm^c)	Temp (ºC)	Dissolved Oxygen mg/L
10:50	8	300	6.95	34.7	6.19	1.134	12.28	1.16
10:55	13	300	2.97	93.0	5.97	1.148	14.50	0.91
11:00	18	300	2.42	121.8	5.76	1.802	16.20	0.98
11:05	23	300	2.16	92.4	5.76	2.328	17.95	0.78
11:10	28	300	1.10	81.7	5.75	2.432	18.90	0.59
11:15	33	300	0.85	82.1	5.92	2.652	18.10	0.54
11:30	48	300	0.19	95.5	5.84	2.581	14.10	0.58
11:35	53	300	0.53	96.1	5.76	2.523	11.60	0.69
11:40	58	300	0.05	100.3	5.62	2.488	11.20	0.78
11:45	63	300	0.32	98.8	5.64	2.494	11.32	0.71

Observations During Sampling

Well Condition: Good
Odor: None
Color: Clear
Comments: Packer had a nitrogen leak at regulator, temp psi drop to 280psi.

ARCADIS

Well ID: **RW-3(62-98)**

Packer Sampling Form

Project Number: NJ000604.0035
Date: 7/6/2009
Sampling Time: 12:55
Weather: Sunny, 80's

Task: .00034
Sampled By: C.C/C.L
Recorded By: C.C/C.L

Instrument Identification

Water Level Meter: Solinist
PID: MiniRAE
Water Quality Meter (s): YSI and LaMotte 2020 turbidimeter
Pump: Bladder

Purging Information

Purge Method: 3 volume purge
Casing Material: Steel
Casing Diameter: 6"
Total Depth: 100
Depth to Water: 15.3
Water Column: 84.7
Gallons/Foot: 1.47
Gallons in Well: 124.509

Purge Volume Information

Sample Zone: 62-98
Volumes to be Purged: 159.0
Packer PSI: 120

Starting Totalizer: * Final Totalizer: * * Volume measuring using buckets (totalizer not dependable)

Volume Purged prior to sampling: N/A
Total Volume Purged: N/A

Hermit Test Information (Time)

Packer Inflation: 11:45 Pump On: 12:10 Pump On: Pump On:
Packer Deflation: 13:35 Pump Off: 13:35 Pump Off: Pump Off:

Field Parameter Measurements Taken During Isolated Zone Packer Testing

Time	Minutes Elapsed	Rate (ml/m)	Turbidity (NTUs)	REDOX (ORP)	pH	Conductivity (mS/cm^c)	Temp (ºC)	Dissolved Oxygen mg/L
12:15	5	200	28.50	-79.5	7.32	0.272	16.29	2.82
12:20	10	300	26.40	-27.0	6.95	0.282	14.74	1.40
12:25	15	300	25.00	27.6	6.76	0.279	13.34	0.98
12:30	20	250	21.80	45.3	6.73	0.278	13.05	0.74
12:35	25	250	20.10	50.2	6.74	0.280	13.32	0.55
12:40	30	250	18.90	46.6	6.78	0.281	13.40	0.60
12:45	35	250	17.60	43.4	6.80	0.281	13.42	0.54
12:50	40	250	16.50	38.7	6.82	0.282	13.59	0.50

Observations During Sampling

Well Condition: Good
Odor: None
Color: Clear
Comments: Water Disposed to Frac Tank (Onsite)

ARCADIS

Well ID: **RW-4(57-77)**

Packer Sampling Form

Project Number: NJ000604.0035
Date: 6/30/2009
Sampling Time: 11:55
Weather: Sunny, 80's

Task: .00034
Sampled By: C.C/C.L
Recorded By: C.C/C.L

Instrument Identification

Water Level Meter: Solinist
PID: MiniRAE
Water Quality Meter (s): YSI and LaMotte 2020 turbidimeter
Pump: Bladder

Purging Information

Purge Method: 3 volume purge
Casing Material: Steel
Casing Diameter: 6"
Total Depth: 543
Depth to Water: 11.72
Water Column: 531.28
Gallons/Foot: 1.47
Gallons in Well: 780.9816

Purge Volume Information

Sample Zone: 57-77
Volumes to be Purged: 3
Packer PSI: 110

Starting Totalizer: * Final Totalizer: * * Volume measuring using buckets (totalizer not dependable)

Volume Purged prior to sampling: N/A
Total Volume Purged: N/A

Hermit Test Information (Time)

Packer Inflation: 6/29/2009 11:45 Pump On: 9:38 Pump On: Pump On:
Packer Deflation: 6/30/2009 12:25 Pump Off: 12:20 Pump Off: Pump Off:

Field Parameter Measurements Taken During Isolated Zone Packer Testing

Time	Minutes Elapsed	Rate (ml/m)	Turbidity (NTUs)	REDOX (ORP)	pH	Conductivity (mS/cm^c)	Temp (ºC)	Dissolved Oxygen mg/L
9:45	7	350	37.1	79.9	7.40	0.092	13.30	3.81
10:00	22	350	33.6	86.0	6.60	0.091	11.48	3.63
10:05	27	350	27.2	115.5	6.61	0.091	11.60	3.71
10:10	32	350	26.6	130.4	6.65	0.091	11.60	3.77
10:15	37	350	25.5	168.0	6.67	0.091	11.60	3.77
10:20	42	350	22.1	197.3	6.67	0.091	11.55	3.80
10:25	47	350	20.3	226.8	6.65	0.091	11.51	3.84
10:30	52	350	17.0	249.6	6.65	0.091	11.62	3.85
10:35	57	350	17.8	271.0	6.68	0.090	11.88	3.76
10:40	62	350	18.2	291.0	6.66	0.089	11.80	3.44
10:45	67	350	20.8	306.1	6.65	0.088	11.76	3.10
10:50	72	350	23.6	320.7	6.63	0.087	11.59	2.84
10:55	77	350	26.0	336.1	6.60	0.087	11.60	2.54
11:00	82	350	30.3	345.1	6.59	0.086	11.53	2.25
11:20	102	350	37.0	364.8	6.80	0.090	12.99	2.04
11:25	107	350	32.3	364.1	6.67	0.087	12.10	2.06
11:30	112	350	31.9	365.6	6.59	0.088	11.78	2.05
11:35	117	350	29.6	377.0	6.60	0.088	12.66	1.96
11:40	122	350	26.9	381.2	6.64	0.088	12.96	1.93
11:45	127	350	28.1	387.4	6.67	0.088	12.93	1.90
11:50	132	350	26.2	394.7	6.65	0.087	12.91	1.87

Observations During Sampling

Well Condition: OK
Odor: None
Color: Clear
Comments: Purge Water Disposed in FRAC tank on-site

ARCADIS

Well ID: **RW-4(108-128)**

Packer Sampling Form

Project Number: NJ000604.0035
Date: 6/30/2009
Sampling Time: 14:40
Weather: Cloudy, 80's

Task: .00034
Sampled By: C.C/C.L
Recorded By: C.C/C.L

Instrument Identification

Water Level Meter: Solinist
PID: MiniRAE
Water Quality Meter (s): YSI and LaMotte 2020 turbidimeter
Pump: Bladder

Purging Information

Purge Method: 3 volume purge
Casing Material: Steel
Casing Diameter: 6"
Total Depth: 200
Depth to Water: 28
Water Column: 172
Gallons/Foot: 1.47
Gallons in Well: 252.84

Purge Volume Information

Sample Zone: 108-128
Volumes to be Purged: 90
Packer PSI: 120

Starting Totalizer: * Final Totalizer: * * Volume measuring using buckets (totalizer not dependable)

Volume Purged prior to sampling: N/A
Total Volume Purged: N/A

Hermit Test Information (Time)

Packer Inflation: 13:05 Pump On: 13:26 Pump On: Pump On:
Packer Deflation: 14:26 Pump Off: 14:22 Pump Off: Pump Off:

Field Parameter Measurements Taken During Isolated Zone Packer Testing

Time	Minutes Elapsed	Rate (ml/m)	Turbidity (NTUs)	REDOX (ORP)	pH	Conductivity (mS/cm^c)	Temp (ºC)	Dissolved Oxygen mg/L
13:40	14	350	22.7	182.1	7.19	0.106	16.68	4.60
13:45	19	350	20.7	114.0	6.81	0.101	13.74	6.50
13:50	24	350	21.2	99.7	6.60	0.097	12.61	6.12
13:55	29	350	21.6	101.9	6.55	0.096	12.41	5.62
14:00	34	350	22.4	102.8	6.54	0.095	12.31	5.10
14:05	39	350	20.9	109.9	6.55	0.097	12.46	4.50
14:10	44	350	22.4	114.0	6.55	0.096	12.47	4.37
14:15	49	350	21.6	123.2	6.55	0.095	12.65	3.98
14:20	54	350	20.6	126.9	6.55	0.095	12.63	4.14
14:25	59	350	20.9	133.4	6.57	0.096	12.72	3.78
14:30	64	350	20.5	139.9	6.59	0.096	12.74	3.60
14:35	69	350	20.5	145.80	6.60	0.096	12.96	3.46

Observations During Sampling

Well Condition: Good
Odor: None
Color: Clear
Comments: Purge Water Disposed in FRAC tank on-site

ARCADIS

Well ID: **RW-4(328-348)**

Packer Sampling Form

Project Number: NJ000604.0035
Date: 7/2/2009
Sampling Time: 11:40
Weather: Sunny, 80's

Task: .00034
Sampled By: C.C/C.L
Recorded By: C.C/C.L

Instrument Identification

Water Level Meter: Solinist
PID: MiniRAE
Water Quality Meter (s): YSI and LaMotte 2020 turbidimeter
Pump: Bladder

Purging Information

Purge Method: 3 volume purge
Casing Material: Steel
Casing Diameter: 6"
Total Depth: 543
Depth to Water: 29.45
Water Column: 513.55
Gallons/Foot: 1.47
Gallons in Well: 754.9185

Purge Volume Information

Sample Zone: 328-348
Volumes to be Purged: 88.2
Packer PSI: 220

Starting Totalizer: * Final Totalizer: * * Volume measuring using buckets (totalizer not dependable)

Volume Purged prior to sampling: N/A
Total Volume Purged: N/A

Hermit Test Information (Time)

Packer Inflation: 10:35 Pump On: 10:51 Pump On: Pump On:
Packer Deflation: 12:09 Pump Off: 12:05 Pump Off: Pump Off:

Field Parameter Measurements Taken During Isolated Zone Packer Testing

Time	Minutes Elapsed	Rate (ml/m)	Turbidity (NTUs)	REDOX (ORP)	pH	Conductivity (mS/cm^c)	Temp (ºC)	Dissolved Oxygen mg/L
10:55	4	100	17.3	169.8	6.78	0.108	13.53	8.72
11:00	9	100	17.9	198.1	6.74	0.104	12.50	10.18
11:05	14	100	33.3	218.8	6.71	0.099	12.20	8.31
11:10	19	100	28.2	232.4	6.67	0.098	12.60	7.11
11:15	24	100	27.5	241.3	6.70	0.099	13.69	6.80
11:20	29	100	25.6	245.5	6.73	0.101	13.74	6.49
11:25	34	100	25.6	254.9	6.69	0.098	12.76	6.39
11:30	39	100	23.3	263.1	6.63	0.097	12.84	6.21
11:35	44	100	22.9	267.8	6.61	0.097	12.66	6.13

Observations During Sampling

Well Condition: Well stick up is slightly bent, previously struck
Odor: None
Color: Turbid, Rust/Brown Color
Comments: Purge Water Disposed in FRAC tank on-site

ARCADIS Well ID: **RW-4(388-408)**

Packer Sampling Form

Project Number: NJ000604.0035
Date: 7/2/2009
Sampling Time: 15:15
Weather: 70's Clear

Task: .00034
Sampled By: C.C/C.L
Recorded By: C.C/C.L

Instrument Identification

Water Level Meter: Solinist
PID: MiniRAE
Water Quality Meter (s): YSI and LaMotte 2020 turbidimeter
Pump: Bladder

Purging Information

Purge Method: 3 volume purge
Casing Material: Steel
Casing Diameter: 6"
Total Depth: 543
Depth to Water: 28.69
Water Column: 514.31
Gallons/Foot: 1.47
Gallons in Well: 756.0357

Purge Volume Information

Sample Zone: 388-408
Volumes to be Purged: N/A
Packer PSI: 240

Starting Totalizer: N/A
Final Totalizer: N/A

Volume Purged prior to sampling: N/A
Total Volume Purged: N/A

Hermit Test Information (Time)

Packer Inflation: 13:42
Packer Deflation: 15:40
Pump On: 14:15
Pump Off: 15:37
Pump On:
Pump Off:
Pump On:
Pump Off:

Field Parameter Measurements Taken During Isolated Zone Packer Testing

Time	Minutes Elapsed	Rate (ml/m)	Turbidity (NTUs)	REDOX (ORP)	pH	Conductivity (mS/cm^c)	Temp (ºC)	Dissolved Oxygen mg/L
14:30	15	400	26	156.3	6.98	0.111	13.52	3.19
14:35	20	400	29	217.7	6.79	0.104	13.27	4.33
14:40	25	400	30	246.9	6.64	0.096	13.11	5.49
14:45	30	400	30	271.6	6.47	0.093	12.87	6.28
14:50	35	400	29	290.9	6.38	0.092	12.87	6.68
14:55	40	400	28.8	307.8	6.35	0.091	12.78	6.93
15:00	45	400	30.0	321.5	6.32	0.091	12.64	7.05
15:05	50	400	30.7	330.6	6.31	0.091	12.95	7.14
15:10	55	400	30.2	338.9	6.35	0.091	13.14	7.19

Observations During Sampling

Well Condition: OK
Odor: Clear
Color: None
Comments: Purge Water Disposed in FRAC tank on-site

ARCADIS Well ID: **RW-8(42-62)**

Packer Sampling Form

Project Number: NJ000604.0035.00034
Date: 7/7/2009
Sampling Time: 9:35
Weather: Sunny, 80s

Task: .00034
Sampled By: C.C/C.L
Recorded By: C.C/C.L

Instrument Identification

Water Level Meter: Solinist
PID: MiniRAE
Water Quality Meter (s): YSI and LaMotte 2020 turbidimeter
Pump: Bladder

Purging Information

Purge Method: Low-Flow
Casing Material: Steel
Casing Diameter: 6"
Total Depth: 219
Depth to Water: 48.8
Water Column: 170.2
Gallons/Foot: 1.47
Gallons in Well: 250.19

Purge Volume Information

Sample Zone: 42-62
Volumes to be Purged: N/A
Packer PSI: 120

Starting Totalizer: N/A Final Totalizer: N/A * Volume measured using buckets (totalizer not dependable)

Volume Purged prior to sampling: N/A
Total Volume Purged: N/A

Hermit Test Information (Time)

Packer Inflation:	*	Pump On:	8:41	Pump On:	N/A	Pump On:	N/A
Packer Deflation:	9:56	Pump Off:	9:50	Pump Off:	N/A	Pump Off:	N/A

Field Parameter Measurements Taken During Isolated Zone Packer Testing

Time	Minutes Elapsed	Rate (ml/m)	Turbidity (NTUs)	REDOX (ORP)	pH	Conductivity (mS/cm^c)	Temp (ºC)	Dissolved Oxygen mg/L
8:45	4	450	4.68	26.6	6.01	0.201	15.34	3.75
8:50	9	400	4.54	57.00	5.6	0.181	13.96	2.02
8:55	14	400	3.77	74.8	5.53	0.173	14.12	2.27
9:00	19	400	3.31	85.7	5.51	0.171	14.2	2.6
9:05	24	400	3.18	89.5	5.54	0.169	14.21	2.89
9:10	29	400	3.08	94.2	5.54	0.167	14.18	3.15
9:15	34	400	3.52	98.6	5.53	0.166	14.17	3.38
9:20	39	300	3.35	101.3	5.52	0.167	14.94	3.49
9:25	44	300	3.62	104.0	5.55	0.167	15.07	3.62
9:30	49	300	3.11	108.4	5.53	0.166	14.92	3.69

Observations During Sampling * Packer inflated overnight.

Well Condition: OK
Odor: None
Color: clear
Comments: Purge Water Disposed in FRAC tank on-site

ARCADIS Well ID: **RW-8(158-178)**

Packer Sampling Form

Project Number: NJ000604.0035.00034
Date: 7/7/2009
Sampling Time: 13:30
Weather: Sunny, 80's

Task: .00034
Sampled By: C.C/C.L
Recorded By: C.C/C.L

Instrument Identification

Water Level Meter: Solinist
PID: MiniRAE
Water Quality Meter (s): YSI and LaMotte 2020 turbidimeter
Pump: Bladder

Purging Information

Purge Method: Low-Flow
Casing Material: Steel
Casing Diameter: 6"
Total Depth: 219
Depth to Water: 41.9
Water Column: 177.1
Gallons/Foot: 1.47
Gallons in Well: 260.34

Purge Volume Information

Sample Zone: 158-178
Volumes to be Purged: 1
Packer PSI: 150

Starting Totalizer: N/A Final Totalizer: N/A * Volume measured using buckets (totalizer not dependable)

Volume Purged prior to sampling: N/A
Total Volume Purged: N/A

Hermit Test Information (Time)

Packer Inflation:	10:40	Pump On:	10:56	Pump On:	11:17	Pump On:	N/A
Packer Deflation:	14:20	Pump Off:	12:31	Pump Off:	14:16	Pump Off:	N/A

Field Parameter Measurements Taken During Isolated Zone Packer Testing

Time	Minutes Elapsed	Rate (ml/m)	Turbidity (NTUs)	REDOX (ORP)	pH	Conductivity (mS/cm^c)	Temp (ºC)	Dissolved Oxygen mg/L
Delay due to problems pumping								
12:35	4	300	5.24	93.9	6.14	0.311	17.26	8.52
12:40	9	300	2.41	-13.9	6.54	0.406	15.5	3.06
12:45	14	200	4.13	-45.3	6.69	0.43	15.25	1.28
12:50	19	200	2.58	-51.9	6.78	0.448	17.1	0.98
12:55	24	200	1.61	-52.9	6.86	0.466	18.46	0.98
13:00	29	100	0.96	-55.00	6.86	0.471	18.92	0.35
13:05	34	100	0.62	-57.00	6.87	0.479	19.48	0.32
13:10	39	100	1.06	-55.00	6.85	0.482	19.76	0.88
13:15	44	100	1.47	-58.8	6.85	0.475	19.07	0.87
13:20	49	100	1.46	-61.00	6.86	0.469	18.41	0.85
13:25	54	100	1.51	-59.2	6.86	0.471	18.44	0.84
13:30	59	100	1.47	-60.10	6.87	0.469	18.29	0.82

Observations During Sampling

Well Condition: OK
Odor: None
Color: Clear
Comments: Purge Water Disposed in FRAC tank on-site. Thunder/Lightning delay.

ARCADIS

Well ID: **RW-8(199-219)**

Packer Sampling Form

Project Number: NJ000604.0035.00034
Date: 7/7/2009
Sampling Time: 16:05
Weather: High 80s, Sunny

Task: .00034
Sampled By: C.C/C.L
Recorded By: C.C/C.L

Instrument Identification

Water Level Meter: Solinist
PID: MiniRAE
Water Quality Meter (s): YSI and LaMotte 2020 turbidimeter
Pump: Bladder

Purging Information

Purge Method: Low-Flow
Casing Material: Steel
Casing Diameter: 6"
Total Depth: 219
Depth to Water: 50.4
Water Column: 168.6
Gallons/Foot: 1.47
Gallons in Well: 247.84

Purge Volume Information

Sample Zone: 199-219
Volumes to be Purged: 40
Packer PSI: 180

Starting Totalizer: N/A Final Totalizer: N/A * Volume measured using buckets (totalizer not dependable)

Volume Purged prior to sampling: N/A
Total Volume Purged: N/A

Hermit Test Information (Time)

Packer Inflation:	14:50	Pump On:	15:15	Pump On:	N/A	Pump On:	N/A
Packer Deflation:	17:10	Pump Off:	17:00	Pump Off:	N/A	Pump Off:	N/A

Field Parameter Measurements Taken During Isolated Zone Packer Testing

Time	Minutes Elapsed	Rate (ml/m)	Turbidity (NTUs)	REDOX (ORP)	pH	Conductivity (mS/cm^c)	Temp (ºC)	Dissolved Oxygen mg/L
15:20	5	200	3.28	259.9	6.32	0.490	19.11	1.71
15:25	10	200	3.39	289.4	6.44	0.647	18.31	1.52
15:30	15	100	2.24	21.5	6.68	0.710	18.40	1.27
15:35	20	100	2.65	-19.6	6.85	0.757	20.22	1.13
15:40	25	100	2.65	-51.2	6.93	0.787	21.43	1.06
15:45	30	100	2.13	-68.3	6.97	0.796	21.64	1.05
15:50	35	100	2.26	-95.0	7.06	0.797	21.14	1.08
15:55	40	100	2.17	-102.9	7.12	0.788	20.52	1.12
16:00	45	100	2.22	-102.4	7.13	0.784	20.54	1.16
16:05	50	100	2.11	-103.8	7.13	0.784	20.48	1.17

Observations During Sampling

Well Condition: OK
Odor: None
Color: Clear
Comments: Purge Water Disposed in FRAC tank on-site

ARCADIS

Well ID: **RW-9(20-40)**

Packer Sampling Form

Project Number: NJ000604.0035.00034
Date: 7/15/2009
Sampling Time: 11:40
Weather: Sunny 70's

Task: .00034
Sampled By: C.C/C.L
Recorded By: C.C/C.L

Instrument Identification

Water Level Meter: Solinist
PID: MiniRAE
Water Quality Meter (s): YSI and LaMotte 2020 turbidimeter
Pump: Bladder

Purging Information

Purge Method: Low-Flow
Casing Material: Steel
Casing Diameter: 6"
Total Depth: 221
Depth to Water: 34.85
Water Column: 186.15
Gallons/Foot: 1.47
Gallons in Well: 273.64

Purge Volume Information

Sample Zone: 20-40
Volumes to be Purged: N/A
Packer PSI: 100

Starting Totalizer: N/A Final Totalizer: N/A * Volume measured using buckets (totalizer not dependable)

Volume Purged prior to sampling: N/A
Total Volume Purged: N/A

Hermit Test Information (Time)

Packer Inflation:	10:40	Pump On:	10:55	Pump On:	N/A	Pump On:	N/A
Packer Deflation:	12:20	Pump Off:	12:12	Pump Off:	N/A	Pump Off:	N/A

Field Parameter Measurements Taken During Isolated Zone Packer Testing

Time	Minutes Elapsed	Rate (ml/m)	Turbidity (NTUs)	REDOX (ORP)	pH	Conductivity (mS/cm^c)	Temp (ºC)	Dissolved Oxygen mg/L
11:00	5	200	1.43	258.7	6.8	0.169	13.74	8.51
11:05	10	200	1.88	280.7	6.65	0.16	14.63	5.06
11:10	15	200	0.89	310.1	6.58	0.155	15.04	7.96
11:15	20	200	0.30	333.6	6.55	0.154	15.13	7.97
11:20	25	200	0.46	352.8	6.51	0.153	14.72	8.10
11:25	30	200	0.48	366.7	6.49	0.152	14.7	8.07
11:30	35	200	0.23	375.6	6.48	0.152	14.72	8.15
11:35	40	200	0.23	385.1	6.48	0.153	14.72	8.13

Observations During Sampling

Well Condition: OK
Odor: None
Color: Clear
Comments: Purge Water Disposed in FRAC tank on-site

ARCADIS

Well ID: **RW-9(80-100)**

DUP-01

Packer Sampling Form

Project Number: NJ000604.0035.00034
Date: 7/15/2009
Sampling Time: 15:15
Weather: Sunny 80's

Task: .00034
Sampled By: V. Romagnuolo, C. Laprus
Recorded By: V. Romagnuolo, C. Laprus

Instrument Identification

Water Level Meter: Solinist
PID: MiniRAE
Water Quality Meter (s): YSI and LaMotte 2020 turbidimeter
Pump: Bladder

Purging Information

Purge Method: Low-Flow
Casing Material: Steel
Casing Diameter: 6"
Total Depth: 221
Depth to Water: 32.76
Water Column: 188.24
Gallons/Foot: 1.47
Gallons in Well: 276.71

Purge Volume Information

Sample Zone: 20-50
Volumes to be Purged: 1 vol
Packer PSI: 125

Starting Totalizer: N/A Final Totalizer: N/A * Volume measuring using buckets (totalizer not dependable)

Volume Purged prior to sampling: N/A
Total Volume Purged: N/A

Hermit Test Information (Time)

Packer Inflation:	13:05	Pump On:	11:10	Pump On:	N/A	Pump On:	N/A
Packer Deflation:	16:00	Pump Off:	12:40	Pump Off:	N/A	Pump Off:	N/A

Field Parameter Measurements Taken During Isolated Zone Packer Testing

Time	Minutes Elapsed	Rate (ml/m)	Turbidity (NTUs)	REDOX (ORP)	pH	Conductivity (mS/cm^c)	Temp (ºC)	Dissolved Oxygen mg/L
13:35	5	100	3.67	155.1	6.2	0.204	21.98	8.26
13:40	10	100	2.98	288.1	6.21	0.22	21.10	7.77
13:45	15	100	1.79	321.9	6.33	0.223	20.30	7.65
13:50	20	100	0.21	362.1	6.34	0.221	20.08	7.59
13:55	25	100	0.03	379.1	6.37	0.221	20.06	7.56
14:00	30	100	1.41	365.1	6.37	0.221	19.89	7.56
14:05	35	100	2.92	330.1	6.42	0.221	19.92	8.04
14:10	40	100	0.62	300.00	6.47	0.217	19.16	8.04
14:15	45	100	0	283.1	6.53	0.215	18.87	8.01
14:20	50	100	0.19	258.9	6.62	0.213	18.52	8.01
14:25	55	100	0	222.1	6.64	0.212	18.58	8
14:30	60	100	0	198.2	6.66	0.212	16.64	7.99
14:35	65	100	0.23	150.2	6.68	0.212	18.63	7.95
14:40	70	100	0	129.4	6.69	0.210	18.43	7.94
14:45	75	100	0	128.9	6.70	0.210	18.43	7.94
14:50	80	100	0	107.3	6.70	0.209	18.3	7.90
14:55	85	100	***	Emptied	Flow	Cell	***	
15:00	90	100	0	98.9	6.65	0.202	17.34	8.04
15:05	95	100	0	99.9	6.67	0.205	18.08	7.82
15:10	100	100	0	102.3	6.64	0.204	18.08	7.78
15:15	105	100	0	107.4	6.64	0.204	18.13	7.73

Observations During Sampling

Well Condition: OK
Odor: None
Color: Clear
Comments: Purge Water Disposed in FRAC tank on-site

ARCADIS

Well ID: **RW-9(134-154)**

Packer Sampling Form

Project Number: NJ000604.0035.00034
Date: 7/16/2009
Sampling Time: 10:15
Weather: Cloudy 70's

Task: .00034
Sampled By: C.C/C.L
Recorded By: C.C/C.L

Instrument Identification

Water Level Meter: Solinist
PID: MiniRAE
Water Quality Meter (s): YSI and LaMotte 2020 turbidimeter
Pump: Bladder

Purging Information

Purge Method: Low-Flow
Casing Material: Steel
Casing Diameter: 6"
Total Depth: 221
Depth to Water: 33.85
Water Column: 187.15
Gallons/Foot: 1.47
Gallons in Well: 275.11

Purge Volume Information

Sample Zone: 134-154
Volumes to be Purged: 1 vol
Packer PSI: 160

Starting Totalizer: N/A
Final Totalizer: N/A (Prior to sampling)
N/A (After Sampling)
Volume Purged prior to sampling: N/A
Total Volume Purged: N/A

Hermit Test Information (Time)

Packer Inflation:	8:30	Pump On:	8:58	Pump On:	N/A	Pump On:	N/A
Packer Deflation:	10:50	Pump Off:	10:40	Pump Off:	N/A	Pump Off:	N/A

Field Parameter Measurements Taken During Isolated Zone Packer Testing

Time	Minutes Elapsed	Rate (ml/m)	Turbidity (NTUs)	REDOX (ORP)	pH	Conductivity (mS/cm^c)	Temp (ºC)	Dissolved Oxygen mg/L
9:05	7	350	3.5	-84	7.45	0.262	13.89	1.46
9:15	17	350	9.71	-93.1	7.77	0.255	15.84	2.02
9:20	22		Pump Issues. Pump leaking air, incorrect readings, flow not stable. Remove pump and fix.					
9:25	27							
9:30	32							
9:50	52	250	7.64	-105.6	7.64	0.277	14.29	0.86
9:55	57	250	6.66	-107.2	7.62	0.278	14.28	0.65
10:00	62	250	6.4	-104.4	7.61	0.276	13.98	0.54
10:05	67	250	5.76	-100.3	7.62	0.276	14.02	0.52
10:10	72	250	5.9	-97.1	7.63	0.255	13.97	0.49

Observations During Sampling

Well Condition: OK
Odor: None
Color: Clear
Comments: Purge Water Disposed in FRAC tank on-site

ARCADIS

Well ID: **RW-9(201-221)**

Packer Sampling Form

Project Number: NJ000604.0035.00034
Date: 7/16/2009
Sampling Time: 13:30
Weather: Sunny, 80's

Task: .00034
Sampled By: C.C/C.L
Recorded By: C.C/C.L

Instrument Identification

Water Level Meter: Solinist
PID: MiniRAE
Water Quality Meter (s): YSI and LaMotte 2020 turbidimeter
Pump: Bladder

Purging Information

Purge Method: Low-Flow
Casing Material: Steel
Casing Diameter: 6"
Total Depth: 221
Depth to Water: 34.8
Water Column: 186.2
Gallons/Foot: 1.47
Gallons in Well: 273.71

Purge Volume Information

Sample Zone: 201-221
Volumes to be Purged: 1 vol
Packer PSI: 200

Starting Totalizer: N/A Final Totalizer: N/A * Volume measuring using buckets (totalizer not dependable)

Volume Purged prior to sampling: N/A
Total Volume Purged: N/A

Hermit Test Information (Time)

Packer Inflation:	12:20	Pump On:	12:45	Pump On:	N/A	Pump On:	N/A
Packer Deflation:	14:30	Pump Off:	14:25 (dry, 14 g out)	Pump Off:	N/A	Pump Off:	N/A

Field Parameter Measurements Taken During Isolated Zone Packer Testing

Time	Minutes Elapsed	Rate (ml/m)	Turbidity (NTUs)	REDOX (ORP)	pH	Conductivity (mS/cm^c)	Temp (ºC)	Dissolved Oxygen mg/L
12:50	5	150	6.86	24.5	7.61	0.296	23.58	1.65
12:55	10	150	5.21	161.2	7.44	0.313	22.52	1.41
13:00	15	150	4.91	229.1	7.40	0.326	21.54	1.25
13:05	20	150	4.52	20.9	7.40	0.333	21.54	0.92
13:10	25	150	4.21	-60.0	7.39	0.334	21.25	0.70
13:15	30	150	4.67	-69.9	7.37	0.336	21.32	0.67
13:20	35	150	4.24	-84.4	7.31	0.333	20.92	0.63
13:25	40	150	3.98	-88.5	7.29	0.329	20.82	0.59
13:30	45	150	4.11	-83.2	7.27	0.329	20.21	0.57

Observations During Sampling

Well Condition: OK
Odor: None
Color: Very light brown
Comments: Purge Water Disposed in FRAC tank on-site

ARCADIS

Well ID: **RW-10(22-42)**

Packer Sampling Form

Project Number: NJ000604.0035.00034
Date: 7/8/2009
Sampling Time: 14:20
Weather: Sunny, 80's

Task: .00034
Sampled By: C.C/C.L
Recorded By: C.C/C.L

Instrument Identification

Water Level Meter: Solinist
PID: MiniRAE
Water Quality Meter (s): YSI and LaMotte 2020 turbidimeter
Pump: Bladder

Purging Information

Purge Method: Low-Flow
Casing Material: Steel
Casing Diameter: 6"
Total Depth: 200
Depth to Water: 29.83
Water Column: 170.17
Gallons/Foot: 1.47
Gallons in Well: 250.1499

Purge Volume Information

Sample Zone: 22-42
Volumes to be Purged: 1 vol, 3 gal
Packer PSI: 80

Starting Totalizer: N/A Final Totalizer: N/A * Volume measuring using buckets (totalizer not dependable)

Volume Purged prior to sampling: N/A
Total Volume Purged: N/A

Hermit Test Information (Time)

Packer Inflation:	13:22	Pump On:	13:34	Pump On:	N/A	Pump On:	N/A
Packer Deflation:	14:45	Pump Off:	14:40	Pump Off:	N/A	Pump Off:	N/A

Field Parameter Measurements Taken During Isolated Zone Packer Testing

Time	Minutes Elapsed	(ml/m) (ml/m)	Turbidity (NTUs)	REDOX (ORP)	pH	Conductivity (mS/cm^c)	Temp (ºC)	Dissolved Oxygen mg/L
13:40	6	200	1.82	172.8	5.65	0.175	13.79	7.43
13:45	11	200	0.46	198.5	5.48	0.171	13.5	7.18
13:50	16	200	1.44	219.8	5.38	0.168	13.23	7.15
13:55	21	200	1.55	229.5	5.35	0.167	13.01	7.16
14:00	26	200	1.62	237.9	5.34	0.166	12.81	7.28
14:05	31	200	1.49	242.2	5.34	0.165	12.69	7.26
14:10	36	200	1.45	245.8	5.34	0.165	12.60	7.44
14:15	41	200	1.42	249.3	5.33	0.164	12.43	7.53

Observations During Sampling

Well Condition: OK
Odor: None
Color: Very light brown
Comments: Purge Water Disposed in FRAC tank on-site

ARCADIS

Well ID: **RW-10(46-66)**

Packer Sampling Form

Project Number: NJ000604.0035.00034
Date: 7/9/2009
Sampling Time: 10:00
Weather: Cloudy, 70's

Task: .00034
Sampled By: C.C/C.L
Recorded By: C.C/C.L

Instrument Identification

Water Level Meter: Solinist
PID: MiniRAE
Water Quality Meter (s): YSI and LaMotte 2020 turbidimeter
Pump: Bladder

Purging Information

Purge Method: Low-Flow
Casing Material: Steel
Casing Diameter: 6"
Total Depth: 200
Depth to Water: 29.83
Water Column: 170.17
Gallons/Foot: 1.47
Gallons in Well: 250.1499

Purge Volume Information

Sample Zone: 46-66
Volumes to be Purged: 1 vol, 32 gal.
Packer PSI: 110

Starting Totalizer: N/A Final Totalizer: N/A * Volume measuring using buckets (totalizer not dependable)

Volume Purged prior to sampling: N/A
Total Volume Purged: N/A

Hermit Test Information (Time)

Packer Inflation:	9:00	Pump On:	9:18	Pump On:	N/A	Pump On:	N/A
Packer Deflation:	10:24	Pump Off:	10:20	Pump Off:	N/A	Pump Off:	N/A

Field Parameter Measurements Taken During Isolated Zone Packer Testing (Con't below)

Time	Minutes Elapsed	Rate (ml/m)	Turbidity (NTUs)	REDOX (ORP)	pH	Conductivity (mS/cm^c)	Temp (ºC)	Dissolved Oxygen mg/L
9:25	7	200	3.15	242.1	6.36	0.193	12.09	5.06
9:30	12	200	3.14	181.8	6.16	0.181	11.16	4.99
9:35	17	200	3.63	165.7	6.10	0.176	11.00	4.97
9:40	22	200	3.78	168.0	6.10	0.176	10.98	4.92
9:45	27	200	3.29	167.5	6.08	0.176	10.99	4.90
9:50	32	200	3.29	170.1	6.07	0.176	11.00	4.89
9:55	37	200	3.11	169.5	6.06	0.176	10.96	4.90

Observations During Sampling

Well Condition: OK
Odor: None
Color: Light brown
Comments: Purge Water Disposed in FRAC tank on-site.

ARCADIS

Well ID: **RW-10(70-90)**

Packer Sampling Form

Project Number: NJ000604.0035.00034
Date: 7/9/2009
Sampling Time: 11:46
Weather: Cloudy, 70's

Task: .00034
Sampled By: C.C/C.L
Recorded By: C.C/C.L

Instrument Identification

Water Level Meter: Solinist
PID: MiniRAE
Water Quality Meter (s): YSI and LaMotte 2020 turbidimeter
Pump: Bladder

Purging Information

Purge Method: Low-Flow
Casing Material: Steel
Casing Diameter: 6"
Total Depth: 200
Depth to Water: 29.35
Water Column: 170.65
Gallons/Foot: 1.47
Gallons in Well: 250.8555

Purge Volume Information

Sample Zone: 70-90
Volumes to be Purged: 1 vol, 34 gal.
Packer PSI: 120

Starting Totalizer: N/A
Final Totalizer: N/A (Prior to sampling)
N/A (After sampling)
Volume Purged prior to sampling: N/A
Total Volume Purged: N/A

Hermit Test Information (Time)

Packer Inflation:	10:55	Pump On:	11:10	Pump On:	N/A	Pump On:	N/A
Packer Deflation:	12:16	Pump Off:	12:13	Pump Off:	N/A	Pump Off:	N/A

Field Parameter Measurements Taken During Isolated Zone Packer Testing

Time	Minutes Elapsed	Rate (ml/m)	Turbidity (NTUs)	REDOX (ORP)	pH	Conductivity (mS/cm^c)	Temp (ºC)	Dissolved Oxygen mg/L
11:15	0:05:00	250	4.95	201.0	6.40	0.215	15.03	5.39
11:20	0:10:00	250	5.18	163.1	6.15	0.190	13.03	5.42
11:25	0:15:00	250	5.43	140.8	6.00	0.180	12.32	5.41
11:30	0:20:00	250	5.62	145.3	5.97	0.175	12.18	5.32
11:35	0:25:00	250	6.11	151.2	5.98	0.175	12.03	5.33
11:40	0:30:00	250	5.98	154.9	5.98	0.175	11.92	5.29
11:45	0:35:00	250	6.10	154.9	5.99	0.175	12.02	5.23

Observations During Sampling

Well Condition: OK
Odor: None
Color: Light brown
Comments: Purge Water Disposed in FRAC tank on-site.

ARCADIS

Well ID: **RW-10(115-135)**

Packer Sampling Form

Project Number: NJ000604.0035.00034
Date: 7/9/2009
Sampling Time: 14:05
Weather: Cloudy, 70's

Task: .00034
Sampled By: C.C/C.L
Recorded By: C.C/C.L

Instrument Identification

Water Level Meter: Solinist
PID: MiniRAE
Water Quality Meter (s): YSI and LaMotte 2020 turbidimeter
Pump: Bladder

Purging Information

Purge Method: Low-Flow
Casing Material: Steel
Casing Diameter: 6"
Total Depth: 200
Depth to Water: 26.58
Water Column: 173.42
Gallons/Foot: 1.47
Gallons in Well: 254.9274

Purge Volume Information

Sample Zone: 115-135
Volumes to be Purged: 1 vol, 42 gal.
Packer PSI: 135

Starting Totalizer: N/A Final Totalizer: N/A * Volume measured using buckets (totalizer not dependable)

Volume Purged prior to sampling: N/A
Total Volume Purged: N/A

Hermit Test Information (Time)

Packer Inflation: 12:40 Pump On: 12:52 Pump On: Pump On:
Packer Deflation: 14:52 Pump Off: 14:48 Pump Off: Pump Off:

Field Parameter Measurements Taken During Isolated Zone Packer Testing

Time	Minutes Elapsed	Rate (ml/m)	Turbidity (NTUs)	REDOX (ORP)	pH	Conductivity (mS/cm^c)	Temp (ºC)	Dissolved Oxygen mg/L
13:10	0:18:00	200	4	186.1	6.14	0.193	14.25	6.09
13:15	0:23:00	200	5.42	169.4	5.99	0.180	13.77	5.48
13:20	0:28:00	200	4.38	175.6	5.92	0.173	12.88	4.31
13:25	0:33:00	200	4.36	182.6	5.93	0.172	12.78	3.68
13:30	0:38:00	200	4.91	189.1	5.95	0.172	12.79	3.09
13:35	0:43:00	200	5.68	192.8	5.97	0.172	12.86	2.80
13:40	0:48:00	200	5.35	198.0	5.99	0.173	12.92	2.37
13:45	0:53:00	200	5.47	200.3	6.00	0.174	13.14	2.32
13:50	0:58:00	200	5.3	204.4	6.02	0.175	13.35	1.98
13:55	1:03:00	200	5.61	206.3	6.04	0.175	13.36	1.77
14:00	1:08:00	200	5.72	209.6	6.04	0.175	13.25	1.67

Observations During Sampling

Well Condition: OK
Odor: None
Color: Clear
Comments: Purge Water Disposed in FRAC tank on-site

ARCADIS

Well ID: **RW-10(180-200)**

Packer Sampling Form

Project Number: NJ000604.0035.00034
Date: 7/9/2009
Sampling Time: 16:35
Weather: Cloudy,70's

Task: .00034
Sampled By: C.C/C.L
Recorded By: C.C/C.L

Instrument Identification

Water Level Meter: Solinist
PID: MiniRAE
Water Quality Meter (s): YSI and LaMotte 2020 turbidimeter
Pump: Bladder

Purging Information

Purge Method: Low-Flow
Casing Material: Steel
Casing Diameter: 6"
Total Depth: 200
Depth to Water: 29.8
Water Column: 170.2
Gallons/Foot: 1.47
Gallons in Well: 250.194

Purge Volume Information

Sample Zone: 180-200
Volumes to be Purged: 1 vol, 50 gal.
Packer PSI: 180

Starting Totalizer: N/A
Final Totalizer: N/A

Volume Purged prior to sampling: N/A
Total Volume Purged: N/A

Hermit Test Information (Time)

Packer Inflation: 15:40
Packer Deflation: 17:00

Pump On: 15:55
Pump Off: 16:56

Pump On:
Pump Off:

Pump On:
Pump Off:

Field Parameter Measurements Taken During Isolated Zone Packer Testing

Time	Minutes Elapsed	Rate (ml/m)	Turbidity (NTUs)	REDOX (ORP)	pH	Conductivity (mS/cm^c)	Temp (ºC)	Dissolved Oxygen mg/L
16:00	0:05:00	200	4.70	222.8	6.40	0.217	14.24	1.83
16:05	0:10:00	200	5.81	81.6	6.82	0.297	12.68	1.75
16:10	0:15:00	200	6.08	0.1	6.97	0.335	12.59	1.35
16:15	0:20:00	200	5.26	-7.4	7.00	0.330	12.45	1.09
16:20	0:25:00	200	5.46	-9.8	7.01	0.336	12.57	1.01
16:25	0:30:00	200	5.48	-9.1	7.02	0.335	12.61	0.97
16:30	0:35:00	200	5.13	-8.0	7.03	0.335	12.73	0.96

Observations During Sampling

Well Condition: OK
Odor: None
Color: Clear
Comments: Purge Water Disposed in FRAC tank on-site

ARCADIS-US
Groundwater Sampling Form

Project Number:	NJ000604.0035	Task:	00034	Well ID:	SC-1
Date:	7/9/09	Sampled By:	V. Myers/D. Kirschner		
Sampling Time:	13:57	Recorded By:	V. Myers/D. Kirschner		
Weather:	Sun, 80's	Replicate/Split:	None		

INSTRUMENT IDENTIFICATION

	PID	Water-Level Meter	Water Quality Meter(s)
Serial #:	MiniRAE	Solinst	YSI- 600 XL

PURGING INFORMATION

Casing Material:	PVC	Purge Method:	**Low Flow Bladder Pump**		
Casing Diameter:	2"	Screen Interval:	From 99'	to	109' (angled)
Total Depth:	70.90	Pump intake depth:	105' (at an angle)		
Depth to Water:	14.79				
Water Column:	56.11	Total Volume Purged:	1.59 gallons		
Gallons/Foot:	0.16	Pump on:	13:20	Off:	14:31
Gallons in Well:	9.0				

FIELD PARAMETERS

Time	Minutes Elapsed	Rate (ml/m)	Gallons Purged	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Depth to Water	Diss. Oxygen	Comments
13:25	5	200	0.27	41.7	32.2	6.15	0.194	14.44	14.85	0.65	
13:30	10	200	0.27	24.7	51.5	6.01	0.192	14.27	14.85	0.52	
13:35	15	200	0.27	24.1	50.9	5.99	0.194	14.31	14.86	0.49	
13:40	20	200	0.27	19.1	50.4	5.98	0.194	14.05	19.86	0.48	
13:45	25	200	0.27	14.4	49.9	5.98	0.196	14.11	19.86	0.43	
13:50	30	200	0.27	14.1	49.1	5.97	0.198	14.03	19.86	0.42	

OBSERVATIONS DURING SAMPLING

Well Condition:	Good	Purge Water Disposal:	250-gallon poly tank on-site
Color:	Clear	Turbidity(qualitative):	Clear
Odor:	No Odor	Other (OVA, HNU,etc.):	None

ARCADIS-US
Groundwater Sampling Form

Project Number:	NJ000604.0035	Task:	00034	Well ID:	SC-2
Date:	6/30/09	Sampled By:	V. Myers		
Sampling Time:	13:12	Recorded By:	V. Myers		
Weather:	Sun, 80's	Replicate/Split:	EPA Split		

INSTRUMENT IDENTIFICATION

	PID	Water-Level Meter	Water Quality Meter(s)
Serial #:	MiniRAE	Solinst	YSI- 600 XL

PURGING INFORMATION

Casing Material:	PVC	Purge Method:	**Low Flow Bladder Pump**				
Casing Diameter:	2"	Screen Interval:	From	47'	to	67'	
Total Depth:	70.40	Pump intake depth:	65'				
Depth to Water:	53.41						
Water Column:	16.99	Total Volume Purged:	2.12 gallons				
Gallons/Foot:	0.16	Pump on:	12:30	Off:	13:20		
Gallons in Well:	2.7						

FIELD PARAMETERS

Time	Minutes Elapsed	Rate (ml/m)	Gallons Purged	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Depth to Water	Diss. Oxygen	Comments
12:35	5	200	0.27	84.3	150.3	6.33	0.476	18.82	53.72	2.80	
12:40	10	200	0.27	85.9	158.7	6.21	0.476	18.49	53.70	2.32	
12:45	15	200	0.27	71.3	160.4	6.10	0.471	17.93	54.16	1.51	
12:50	20	200	0.27	58.6	161.1	6.06	0.471	17.76	54.39	1.28	
12:55	25	200	0.27	51.6	161.8	6.09	0.473	16.50	54.55	1.01	
13:00	30	200	0.27	39.8	163.2	6.14	0.493	16.49	54.24	0.86	
13:05	35	200	0.27	37.8	161.1	6.17	0.504	16.84	54.87	0.79	
13:10	40	200	0.27	32.8	166.1	6.17	0.519	16.34	55.07	0.73	

OBSERVATIONS DURING SAMPLING

Well Condition:	Good	Purge Water Disposal:	250-gallon poly tank on-site
Color:	Clear	Turbidity(qualitative):	Slight Sheen
Odor:	No Odor	Other (OVA, HNU,etc.):	None

ARCADIS-US
Groundwater Sampling Form

Project Number:	NJ000604.0035	Task:	00034	Well ID:	OB-1
Date:	7/2/2009	Sampled By:	D. Kirscnher		
Sampling Time:	13:17	Recorded By:	D. Kirscnher		
Weather:	Sun, 80's	Replicate/Split:	None		

INSTRUMENT IDENTIFICATION

	PID	Water-Level Meter	Water Quality Meter(s)
Serial #:	MiniRAE	Solinst	YSI- 600 XL

PURGING INFORMATION

Casing Material:	Stainless Steel	Purge Method:	**Low Flow Bladder Pump**				
Casing Diameter:	6"	Screen Interval:	From	5'	to	31'	
Total Depth:	26.01	Pump intake depth:	10'				
Depth to Water:	5.31						
Water Column:	20.7	Total Volume Purged:	1.59 gallons				
Gallons/Foot:	1.47	Pump on:	12:45	Off:	13:28		
Gallons in Well:	30.43						

FIELD PARAMETERS

Time	Minutes Elapsed	Rate (ml/m)	Gallons Purged	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Depth to Water	Diss. Oxygen	Comments
12:50	5	200	0.27	1.88	258.9	5.83	0.053	12.76	5.43	5.97	
12:55	10	200	0.27	2.28	270.5	5.66	0.052	12.72	5.45	5.91	
13:00	15	200	0.27	1.54	287.0	5.64	0.052	12.62	5.45	5.89	
13:05	20	200	0.27	1.31	301.0	5.63	0.051	12.57	5.68	5.88	
13:10	25	200	0.27	1.21	304.9	5.61	0.051	12.56	5.70	5.86	
13:15	30	200	0.27	1.10	309.3	5.60	0.051	12.57	5.71	5.84	

OBSERVATIONS DURING SAMPLING

Well Condition:	Good	Purge Water Disposal:	250-gallon poly tank on-site
Color:	Clear	Turbidity(qualitative):	Clean
Odor:	No Odor	Other (OVA, HNU,etc.):	None

ARCADIS-US
Groundwater Sampling Form

Project Number:	NJ000604.0035	Task:	00034	Well ID:	OB-2
Date:	6/30/09	Sampled By:	D. Kieschner		
Sampling Time:	9:57	Recorded By:	D. Kieschner		
Weather:	Sun, 80's	Replicate/Split:	EPA Split		

INSTRUMENT IDENTIFICATION

	PID	Water-Level Meter	Water Quality Meter(s)
Serial #:	MiniRAE	Solinst	YSI- 600 XL

PURGING INFORMATION

Casing Material:	Stainless Steel	Purge Method:	**Low Flow Bladder Pump**				
Casing Diameter:	6"	Screen Interval:	From	8'	to	42'	
Total Depth:	42.60	Pump intake depth:	25 '				
Depth to Water:	18.48						
Water Column:	24.12	Total Volume Purged:	1.86 gallons				
Gallons/Foot:	1.47	Pump on:	9:20	Off:	10:42		
Gallons in Well:	35.5						

FIELD PARAMETERS

Time	Minutes Elapsed	Rate (ml/m)	Gallons Purged	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Depth to Water	Diss. Oxygen	Comments
9:25	5	200	0.27	0.22	158.7	6.18	0.114	10.51	18.48	8.28	
9:30	10	200	0.27	0.22	162.8	6.03	0.109	10.07	18.48	7.85	
9:35	15	200	0.27	0.43	166.8	6.00	0.105	9.97	18.48	7.68	
9:40	20	200	0.27	0.43	169.3	5.98	0.102	10.08	18.48	7.59	
9:45	25	200	0.27	0.06	175.3	5.93	0.100	10.12	18.48	7.52	
9:50	30	200	0.27	0.65	181.2	5.90	0.100	10.07	18.48	7.49	
9:55	35	200	0.27	0.65	183.1	5.91	0.099	10.20	18.48	7.47	

OBSERVATIONS DURING SAMPLING

Well Condition:	Good	Purge Water Disposal:	250-gallon poly tank on-site
Color:	Clear	Turbidity(qualitative):	Clear
Odor:	No Odor	Other (OVA, HNU,etc.):	None

ARCADIS-US
Groundwater Sampling Form

Project Number:	NJ000604.0035	Task:	00034	Well ID:	OB-3
Date:	6/30/09	Sampled By:	D. Kirschner		
Sampling Time:	13:13	Recorded By:	D. Kirschner		
Weather:	Sun, 80's	Replicate/Split:	EPA Split		

INSTRUMENT IDENTIFICATION

	PID	Water-Level Meter	Water Quality Meter(s)
Serial #:	MiniRAE	Solinst	YSI- 600 XL

PURGING INFORMATION

Casing Material:	Steel	Purge Method:	**Low Flow Bladder Pump**				
Casing Diameter:	4'	Screen Interval:	From	9'	to	24'	
Total Depth:	20.11	Pump intake depth:	19'				
Depth to Water:	4.21						
Water Column:	15.9	Total Volume Purged:	2.37 gallons				
Gallons/Foot:	1.47	Pump on:	12:40	Off:	13:20		
Gallons in Well:	23.4						

FIELD PARAMETERS

Time	Minutes Elapsed	Rate (ml/m)	Gallons Purged	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Depth to Water	Diss. Oxygen	Comments
12:45	5	300	0.40	161.0	107.5	6.33	0.137	10.76	4.36	3.65	
12:50	10	300	0.40	60.5	107.0	6.31	0.133	10.36	4.36	3.72	
12:55	15	300	0.40	38.6	108.9	6.37	0.129	10.40	4.36	3.80	
13:00	20	300	0.40	29.8	109.7	6.35	0.120	10.35	4.36	4.15	
13:05	25	300	0.40	17.6	112.2	6.31	0.112	10.40	4.36	4.10	
13:10	30	300	0.40	17.6	115.0	6.21	0.110	10.43	4.36	4.09	

OBSERVATIONS DURING SAMPLING

Well Condition:	Good	Purge Water Disposal:	250-gallon poly tank on-site
Color:	Very Light Orange	Turbidity(qualitative):	Some silt
Odor:	No Odor	Other (OVA, HNU,etc.):	None

ARCADIS-US
Groundwater Sampling Form

Project Number:	NJ000604.0035	Task:	00034	Well ID:	OB-4
Date:	7/1/09	Sampled By:	V. Myers		
Sampling Time:	13:12	Recorded By:	V. Myers		
Weather:	Sun, 80's	Replicate/Split:	EPA Split		

INSTRUMENT IDENTIFICATION

	PID	Water-Level Meter	Water Quality Meter(s)
Serial #:	MiniRAE	Solinst	YSI- 600 XL

PURGING INFORMATION

Casing Material:	Stainless Steel	Purge Method:	**Low Flow Bladder Pump**			
Casing Diameter:	6"	Screen Interval:	From	28'	to	61'
Total Depth:	50.05	Pump intake depth:	40'			
Depth to Water:	14.71					
Water Column:	35.34	Total Volume Purged:	2.77 gallons			
Gallons/Foot:	1.47	Pump on:	12:35	Off:	14:09	
Gallons in Well:	59.96					

FIELD PARAMETERS

Time	Minutes Elapsed	Rate (ml/m)	Gallons Purged	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Depth to Water	Diss. Oxygen	Comments
12:40	5	300	0.40	13.10	-109.9	6.97	0.375	12.61	14.85	0.65	
12:45	10	300	0.40	11.90	-98.1	6.82	0.347	12.61	14.99	0.23	
12:50	15	300	0.40	17.30	-91.1	6.79	0.338	12.50	15.21	0.12	
12:55	20	300	0.40	14.80	-87.8	6.78	0.338	12.59	15.35	0.10	
13:00	25	300	0.40	11.80	-82.9	6.74	0.336	12.37	15.50	0.07	
13:05	30	300	0.40	10.76	-81.5	6.73	0.336	12.45	10.54	0.07	
13:10	35	300	0.40	9.56	-80.0	6.73	0.338	12.66	10.60	0.06	

OBSERVATIONS DURING SAMPLING

Well Condition:	Good	Purge Water Disposal:	250-gallon poly tank on-site
Color:	Clear	Turbidity(qualitative):	Clear with black suspended particles
Odor:	No Odor	Other (OVA, HNU,etc.):	None

ARCADIS-US
Groundwater Sampling Form

Project Number:	NJ000604.0035	Task:	00034	Well ID:	OB-5
Date:	7/1/09	Sampled By:	V. Myers		
Sampling Time:	9:42	Recorded By:	V. Myers		
Weather:	Sun, 80's	Replicate/Split:	MS,MDS/EPA Split		

INSTRUMENT IDENTIFICATION

	PID	Water-Level Meter	Water Quality Meter(s)
Serial #:	MiniRAE	Solinst	YSI- 600 XL

PURGING INFORMATION

Casing Material:	Steel	Purge Method:	**Low Flow Bladder Pump**			
Casing Diameter:	6"	Screen Interval:	From	18'	to	63'
Total Depth:	43.90	Pump intake depth:	40'			
Depth to Water:	1.76					
Water Column:	42.14	Total Volume Purged:	3.16 gallons			
Gallons/Foot:	1.47	Pump on:	9:00	Off:	10:47	
Gallons in Well:	61.95					

FIELD PARAMETERS

Time	Minutes Elapsed	Rate (ml/m)	Gallons Purged	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Depth to Water	Diss. Oxygen	Comments
9:05	5	300	0.40	16.9	-32.0	6.7	0.544	11.07	1.96	0.98	
9:10	10	300	0.40	9.9	-60.8	6.85	0.552	10.80	2.13	0.34	
9:15	15	300	0.40	11.7	-79.9	6.93	0.555	10.72	2.38	0.27	
9:20	20	300	0.40	25.4	-90.9	6.97	0.555	10.67	2.41	0.18	
9:25	25	300	0.40	19.6	-97.7	6.99	0.555	10.73	2.50	0.15	
9:30	30	300	0.40	13.7	-103.1	7.00	0.555	10.67	2.55	0.12	
9:35	35	300	0.40	15.1	108.6	7.01	0.555	10.69	2.64	0.12	
9:40	40	300	0.40	18.7	-112.1	7.01	0.557	10.83	2.70	0.09	

OBSERVATIONS DURING SAMPLING

Well Condition:	Good	Purge Water Disposal:	250-gallon poly tank on-site
Color:	Clear	Turbidity(qualitative):	Clean
Odor:	No Odor	Other (OVA, HNU,etc.):	None

ARCADIS-US
Groundwater Sampling Form

Project Number:	NJ000604.0035	Task:	00034	Well ID:	OB-6
Date:	7/1/09	Sampled By:	V. Myers		
Sampling Time:	13:12	Recorded By:	V. Myers		
Weather:	Sun, 80's	Replicate/Split:	None		

INSTRUMENT IDENTIFICATION

	PID	Water-Level Meter	Water Quality Meter(s)
Serial #:	MiniRAE	Solinst	YSI- 600 XL

PURGING INFORMATION

Casing Material:	Steel	Purge Method:	**Low Flow Bladder Pump**			
Casing Diameter:	6"	Screen Interval:	From	10'	to	36'
Total Depth:	26.35	Pump intake depth:	15'			
Depth to Water:	3.41					
Water Column:	22.94	Total Volume Purged:	2.16 gallons			
Gallons/Foot:	1.47	Pump on:	12:30	Off:	13:27	
Gallons in Well:	33.7					

FIELD PARAMETERS

Time	Minutes Elapsed	Rate (ml/m)	Gallons Purged	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Depth to Water	Diss. Oxygen	Comments
12:35	5	200	0.27	2.77	16.6	6.44	0.285	15.12	3.46	1.36	
12:40	10	200	0.27	1.26	15.5	6.43	0.285	15.05	3.46	1.09	
12:45	15	200	0.27	0.89	15.5	6.43	0.285	15.05	3.46	1.09	
12:50	20	200	0.27	0.80	-7.7	6.43	2.860	15.05	3.46	0.40	
12:55	25	200	0.27	0.78	-8.2	6.50	2.870	15.49	3.46	0.45	
13:00	30	200	0.27	0.60	-17.2	6.50	2.870	15.49	3.46	0.38	
13:05	35	200	0.27	0.56	-17.8	6.45	0.289	15.56	3.46	0.27	
13:10	40	200	0.27	0.54	-18.5	6.44	0.289	15.68	3.46	0.28	

OBSERVATIONS DURING SAMPLING

Well Condition:	Good	Purge Water Disposal:	250-gallon poly tank on-site
Color:	Clear	Turbidity(qualitative):	Clean
Odor:	No Odor	Other (OVA, HNU,etc.):	None

ARCADIS-US
Groundwater Sampling Form

Project Number:	NJ000604.0035	Task:	00034	Well ID:	OB-7
Date:	7/1/09	Sampled By:	D. Kirschner		
Sampling Time:	13:17	Recorded By:	D. Kirschner		
Weather:	Sun, 80's	Replicate/Split:	EPA Split		

INSTRUMENT IDENTIFICATION

	PID	Water-Level Meter	Water Quality Meter(s)
Serial #:	MiniRAE	Solinst	YSI- 600 XL

PURGING INFORMATION

Casing Material:	Steel	Purge Method:	**Low Flow Bladder Pump**				
Casing Diameter:	4"	Screen Interval:	From	14'	to	42'	
Total Depth:	43.13	Pump intake depth:	20'				
Depth to Water:	4.31						
Water Column:	38.82	Total Volume Purged:	1.89 gallons				
Gallons/Foot:	0.65	Pump on:	12:40	Off:	13:25		
Gallons in Well:	25.2						

FIELD PARAMETERS

Time	Minutes Elapsed	Rate (ml/m)	Gallons Purged	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Depth to Water	Diss. Oxygen	Comments
12:45	5	200	0.27	48.10	-6.4	6.34	0.470	13.05	4.45	2.2	
12:50	10	200	0.27	21.30	-14.2	6.42	0.488	12.06	4.5	0.68	
12:55	15	200	0.27	6.61	-13.5	6.47	0.487	11.96	4.52	0.35	
13:00	20	200	0.27	---	-13.0	6.50	0.487	12.02	4.55	0.35	
13:05	25	200	0.27	3.82	-13.5	6.62	0.484	11.92	4.55	0.32	
13:10	30	200	0.27	4.01	-15.4	6.54	0.482	11.94	4.55	0.31	
13:15	35	200	0.27	4.11	-17.8	6.56	0.480	11.90	4.55	0.31	

OBSERVATIONS DURING SAMPLING

Well Condition:	Good	Purge Water Disposal:	250-gallon poly tank on-site
Color:	Clear	Turbidity(qualitative):	Clear
Odor:	No Odor	Other (OVA, HNU,etc.):	None

ARCADIS-US
Groundwater Sampling Form

Project Number:	NJ000604.0035	Task:	00034	Well ID:	OB-10
Date:	7/1/09	Sampled By:	V. Myers/D. Kirschner		
Sampling Time:	15:27	Recorded By:	V. Myers/D. Kirschner		
Weather:	Sun, 80's	Replicate/Split:	EPA Split		

INSTRUMENT IDENTIFICATION

	PID	Water-Level Meter	Water Quality Meter(s)
Serial #:	MiniRAE	Solinst	YSI- 600 XL

PURGING INFORMATION

Casing Material:	PVC	Purge Method:	**Low Flow Bladder Pump**			
Casing Diameter:	4"	Screen Interval:	From	10'	to	20'
Total Depth:	20.85	Pump intake depth:	15'			
Depth to Water:	5.8					
Water Column:	15.05	Total Volume Purged:	2.43 gallons			
Gallons/Foot:	0.65	Pump on:	14:40	Off:	16:15	
Gallons in Well:	9.8					

FIELD PARAMETERS

Time	Minutes Elapsed	Rate (ml/m)	Gallons Purged	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Depth to Water	Diss. Oxygen	Comments
14:45	5	200	0.27	58.7	-61.1	6.41	0.121	14.75	5.87	1.00	
14:50	10	200	0.27	45.20	-51.8	6.40	0.122	15.20	5.89	0.55	
14:55	15	200	0.27	34.50	-47.1	6.40	0.123	15.29	5.89	0.38	
15:00	20	200	0.27	25.10	-43.6	6.41	0.127	15.22	5.89	0.38	
15:05	25	200	0.27	17.50	-41.0	6.43	0.121	15.43	5.89	0.29	
15:10	30	200	0.27	12.40	-39.0	6.43	0.121	15.30	5.89	0.29	
15:15	35	200	0.27	10.65	-37.3	6.43	0.121	15.26	5.89	0.29	
15:20	40	200	0.27	7.83	-36.3	6.44	0.121	15.20	5.89	0.27	
15:25	45	200	0.27	6.61	-36.1	6.45	0.120	15.73	5.89	0.27	

OBSERVATIONS DURING SAMPLING

Well Condition:	Good	Purge Water Disposal:	250-gallon poly tank on-site
Color:	Clear	Turbidity(qualitative):	Clear
Odor:	No Odor	Other (OVA, HNU,etc.):	None

ARCADIS-US
Groundwater Sampling Form

Project Number:	NJ000604.0035	Task:	00034	Well ID:	OB-12
Date:	6/30/09	Sampled By:	V. Myers		
Sampling Time:	9:52	Recorded By:	V. Myers		
Weather:	Sun, 80's	Replicate/Split:	DUP (063009)/EPA Split		

INSTRUMENT IDENTIFICATION

	PID	Water-Level Meter	Water Quality Meter(s)
Serial #:	MiniRAE	Solinst	YSI- 600 XL

PURGING INFORMATION

Casing Material:	Stainless Steel	Purge Method:	**Low Flow Bladder Pump**				
Casing Diameter:	6"	Screen Interval:	From	9'	to	40'	
Total Depth:	39.81	Pump intake depth:	25'				
Depth to Water:	9.26						
Water Column:	30.55	Total Volume Purged:	2.80 gallons				
Gallons/Foot:	1.47	Pump on:	9:15	Off:	9:54		
Gallons in Well:	44.9						

FIELD PARAMETERS

Time	Minutes Elapsed	Rate (ml/m)	Gallons Purged	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Depth to Water	Diss. Oxygen	Comments
9:20	5	300	0.40	0.69	155.0	5.65	0.065	12.13	9.30	5.40	
9:25	10	300	0.40	2.11	158.8	5.55	0.064	11.38	9.30	5.10	
9:30	15	300	0.40	1.82	161.2	5.49	0.064	11.19	9.30	4.97	
9:35	20	300	0.40	1.40	161.1	5.48	0.064	11.22	9.30	4.97	
9:40	25	300	0.40	1.79	161.6	5.48	0.064	11.22	9.30	4.97	
9:45	30	300	0.40	1.74	161.1	5.48	0.064	11.22	9.30	4.97	
9:50	35	300	0.40	1.79	161.1	5.84	0.064	11.22	9.30	4.97	

OBSERVATIONS DURING SAMPLING

Well Condition:	Good	Purge Water Disposal:	250-gallon poly tank on-site
Color:	Clear	Turbidity(qualitative):	Clear
Odor:	No Odor	Other (OVA, HNU,etc.):	None

ARCADIS-US
Groundwater Sampling Form

Project Number:	NJ000604.0035	Task:	00034	Well ID:	OB-13
Date:	7/1/09	Sampled By:	D. Kirschner		
Sampling Time:	9:52	Recorded By:	D. Kirschner		
Weather:	Sun, 80's	Replicate/Split:	EPA Split		

INSTRUMENT IDENTIFICATION

	PID	Water-Level Meter	Water Quality Meter(s)
Serial #:	MiniRAE	Solinst	YSI- 600 XL

PURGING INFORMATION

Casing Material:	Stainless Steel	Purge Method:	**Low Flow Bladder Pump**			
Casing Diameter:	6"	Screen Interval:	From	8'	to	60'
Total Depth:	62.60	Pump intake depth:	30'			
Depth to Water:	12.11					
Water Column:	50.49	Total Volume Purged:	1.62 gallons			
Gallons/Foot:	1.47	Pump on:	9:20	Off:	10:02	
Gallons in Well:	72.2					

FIELD PARAMETERS

Time	Minutes Elapsed	Rate (ml/m)	Gallons Purged	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Depth to Water	Diss. Oxygen	Comments
9:25	5	200	0.27	4.46	211.4	6.22	0.081	12.21	12.24	8.96	
9:30	10	200	0.27	0.94	209.7	5.88	0.064	11.41	12.31	8.83	
9:35	15	200	0.27	0.67	207.3	5.79	0.064	11.27	12.34	8.77	
9:40	20	200	0.27	0.00	205.8	5.73	0.063	11.29	12.40	8.73	
9:45	25	200	0.27	0.00	205.3	5.70	0.063	11.25	12.43	8.69	
9:50	30	200	0.27	0.00	204.0	5.70	0.063	11.30	12.45	8.71	

OBSERVATIONS DURING SAMPLING

Well Condition:	Good	Purge Water Disposal:	250-gallon poly tank on-site
Color:	Clear	Turbidity(qualitative):	Clear
Odor:	No Odor	Other (OVA, HNU,etc.):	None

ARCADIS-US
Groundwater Sampling Form

Project Number:	NJ000604.0035	Task:	00034	Well ID:	OB-14A
Date:	7/6/09	Sampled By:	D. Kirschner		
Sampling Time:	13:25	Recorded By:	D. Kirschner		
Weather:	Sun, 80's	Replicate/Split:	EPA Split		

INSTRUMENT IDENTIFICATION

	PID	Water-Level Meter	Water Quality Meter(s)
Serial #:	MiniRAE	Solinst	YSI- 600 XL

PURGING INFORMATION

Casing Material:	Stainless Steel	Purge Method:	**Low Flow Bladder Pump**			
Casing Diameter:	4"	Screen Interval:	From	4'	to	14'
Total Depth:	20.00	Pump intake depth:	13'			
Depth to Water:	8.78					
Water Column:	11.22	Total Volume Purged:	1.62 gallons			
Gallons/Foot:	0.65	Pump on:	12:55	Off:	13:23	
Gallons in Well:	7.29					

FIELD PARAMETERS

Time	Minutes Elapsed	Rate (ml/m)	Gallons Purged	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Depth to Water	Diss. Oxygen	Comments
13:00	5	200	0.27	2.53	-63.3	5.85	0.728	15.50	9.01	0.85	
13:05	10	200	0.27	5.90	-43.8	5.62	0.718	14.13	9.93	0.48	
13:10	15	200	0.27	4.84	-36.8	5.55	0.716	14.01	9.62	0.41	
13:15	20	200	0.27	2.69	-27.8	5.52	0.716	14.05	9.77	0.41	
13:20	25	200	0.27	1.19	-20.1	5.50	0.715	13.96	9.81	0.43	
13:25	30	200	0.27	1.10	-27.3	5.49	0.715	13.97	9.98	0.44	

OBSERVATIONS DURING SAMPLING

Well Condition:	Good	Purge Water Disposal:	250-gallon poly tank on-site
Color:	Clear	Turbidity(qualitative):	Clear
Odor:	No Odor	Other (OVA, HNU,etc.):	None

ARCADIS-US
Groundwater Sampling Form

Project Number:	NJ000604.0035	Task:	00034	Well ID:	OB-14B
Date:	7/6/09	Sampled By:	V. Myers		
Sampling Time:	13:30	Recorded By:	V. Myers		
Weather:	Sun, 80's	Replicate/Split:	EPA Split		

INSTRUMENT IDENTIFICATION

	PID	Water-Level Meter	Water Quality Meter(s)
Serial #:	MiniRAE	Solinst	YSI- 600 XL

PURGING INFORMATION

Casing Material:	Stainless Steel	Purge Method:	**Low Flow Bladder Pump**			
Casing Diameter:	4"	Screen Interval:	From	25'	to	35'
Total Depth:	37.03	Pump intake depth:	30'			
Depth to Water:	11.45					
Water Column:	25.58	Total Volume Purged:	1.62 gallons			
Gallons/Foot:	0.65	Pump on:	12:58	Off:	13:43	
Gallons in Well:	16.6					

FIELD PARAMETERS

Time	Minutes Elapsed	Rate (ml/m)	Gallons Purged	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Depth to Water	Diss. Oxygen	Comments
13:03	5	200	0.27	52.2	141.70	6.88	0.711	19.50	11.70	6.16	
13:08	10	200	0.27	28.9	68.60	6.88	0.763	15.84	11.83	2.44	
13:13	15	200	0.27	28.7	54.10	6.65	0.763	14.89	11.97	0.89	
13:18	20	200	0.27	16.7	49.80	6.66	0.764	14.75	12.06	0.54	
13:23	25	200	0.27	18.6	46.10	6.66	0.760	14.53	12.16	0.43	
13:28	30	200	0.27	15.9	44.20	6.65	0.762	14.59	12.22	0.45	

OBSERVATIONS DURING SAMPLING

Well Condition:	Good	Purge Water Disposal:	250-gallon poly tank on-site
Color:	Clear	Turbidity(qualitative):	Clear
Odor:	No Odor	Other (OVA, HNU,etc.):	None

ARCADIS-US
Groundwater Sampling Form

Project Number:	NJ000604.0035	Task:	00034	Well ID:	OB-15B
Date:	7/2/09	Sampled By:	V. Myers/ D. Kirschner		
Sampling Time:	15:56	Recorded By:	V. Myers/ D. Kirschner		
Weather:	Sun, 80's	Replicate/Split:	EPA Split		

INSTRUMENT IDENTIFICATION

	PID	Water-Level Meter	Water Quality Meter(s)
Serial #:	MiniRAE	Solinst	YSI- 600 XL

PURGING INFORMATION

Casing Material:	Stainless Steel	Purge Method:	**Low Flow Bladder Pump**
Casing Diameter:	4"	Screen Interval:	From 25' to 35'
Total Depth:	40.00	Pump intake depth:	30'
Depth to Water:	6.26		
Water Column:	33.74	Total Volume Purged:	2.16 gallons
Gallons/Foot:	0.65	Pump on:	15:14 Off: 16:04
Gallons in Well:	21.93		

FIELD PARAMETERS

Time	Minutes Elapsed	Rate (ml/m)	Gallons Purged	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Depth to Water	Diss. Oxygen	Comments
15:19	5	200	0.27	30.5	-44.4	6.51	0.193	14.91	6.19	0.56	
15:24	10	200	0.27	26.7	-55.2	6.64	0.176	14.77	6.21	0.42	
15:29	15	200	0.27	14.1	-68.9	6.89	0.162	14.70	6.51	0.27	
15:34	20	200	0.27	12.4	-72.7	7.06	0.156	14.59	6.84	0.19	
15:39	25	200	0.27	12.4	-64.4	7.15	0.156	15.07	7.11	0.17	
15:44	30	200	0.27	12.0	-63.1	7.06	0.155	14.97	7.41	0.15	
15:49	35	200	0.27	12.3	-59.9	7.09	0.158	15.79	7.61	0.13	
15:54	40	200	0.27	13.3	-53.3	7.03	0.158	15.77	7.81	0.12	

OBSERVATIONS DURING SAMPLING

Well Condition:	Good	Purge Water Disposal:	250-gallon poly tank on-site
Color:	Clear	Turbidity(qualitative):	Clear
Odor:	No Odor	Other (OVA, HNU,etc.):	None

ARCADIS-US
Groundwater Sampling Form

Project Number:	NJ000604.0035	Task:	00034	Well ID:	OB-16
Date:	7/8/09	Sampled By:	V. Myers		
Sampling Time:	10:05	Recorded By:	V. Myers		
Weather:	Sun, 80's	Replicate/Split:	None		

INSTRUMENT IDENTIFICATION

	PID	Water-Level Meter	Water Quality Meter(s)
Serial #:	MiniRAE	Solinst	YSI- 600 XL

PURGING INFORMATION

Casing Material:	Stainless Steel	Purge Method:	**Low Flow Bladder Pump**		
Casing Diameter:	4"	Screen Interval:	From 5'	to	15'
Total Depth:	14.48	Pump intake depth:	10'		
Depth to Water:	5.5				
Water Column:	8.98	Total Volume Purged:	1.62 gallons		
Gallons/Foot:	0.65	Pump on:	9:33	Off:	10:17
Gallons in Well:	5.8				

FIELD PARAMETERS

Time	Minutes Elapsed	Rate (ml/m)	Gallons Purged	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Depth to Water	Diss. Oxygen	Comments
9:38	5	200	0.27	9.69	-2.0	6.71	0.790	13.75	14.57	1.10	
9:43	10	200	0.27	2.25	-23.5	6.68	0.794	13.33	14.63	0.50	
9:48	15	200	0.27	2.31	-33.4	6.69	0.795	13.21	14.63	0.47	
9:53	20	200	0.27	2.37	-33.4	6.69	0.795	13.21	14.63	0.47	
9:58	25	200	0.27	1.10	-53.4	6.69	0.795	13.21	14.63	0.47	
10:03	30	200	0.27	1.07	-33.4	6.69	0.795	13.21	14.63	0.47	

OBSERVATIONS DURING SAMPLING

Well Condition:	Good	Purge Water Disposal:	250-gallon poly tank on-site
Color:	Clear	Turbidity(qualitative):	Clear
Odor:	No Odor	Other (OVA, HNU,etc.):	None

ARCADIS-US
Groundwater Sampling Form

Project Number:	NJ000604.0035	Task:	00034	Well ID:	OB-17
Date:	7/8/09	Sampled By:	D. Kirschner		
Sampling Time:	10:03	Recorded By:	D. Kirschner		
Weather:	Sun, 80's	Replicate/Split:	None		

INSTRUMENT IDENTIFICATION

	PID	Water-Level Meter	Water Quality Meter(s)
Serial #:	MiniRAE	Solinst	YSI- 600 XL

PURGING INFORMATION

Casing Material:	Stainless Steel	Purge Method:	**Low Flow Bladder Pump**			
Casing Diameter:	4"	Screen Interval:	From	3'	to	13'
Total Depth:	12.98	Pump intake depth:	10'			
Depth to Water:	4.45					
Water Column:	8.53	Total Volume Purged:	1.98 gallons			
Gallons/Foot:	0.65	Pump on:	9:30	Off:	10:14	
Gallons in Well:	5.5					

FIELD PARAMETERS

Time	Minutes Elapsed	Rate (ml/m)	Gallons Purged	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Depth to Water	Diss. Oxygen	Comments
9:35	5	250	0.33	68.20	18.6	6.36	0.556	12.97	4.87	0.93	
9:40	10	250	0.33	45.00	19.9	6.44	0.573	12.75	5.03	0.62	
9:45	15	250	0.33	24.30	20.0	6.47	0.572	12.76	5.11	0.64	
9:50	20	250	0.33	10.30	19.6	6.47	0.570	12.79	5.17	0.63	
9:55	25	250	0.33	10.10	18.8	6.50	0.571	12.80	5.19	0.62	
10:00	30	250	0.33	10.00	17.0	6.52	0.571	12.81	5.21	0.61	

OBSERVATIONS DURING SAMPLING

Well Condition:	Good	Purge Water Disposal:	250-gallon poly tank on-site
Color:	Clear	Turbidity(qualitative):	Clear
Odor:	No Odor	Other (OVA, HNU,etc.):	None

ARCADIS-US
Groundwater Sampling Form

Project Number:	NJ000604.0035	Task:	00034	Well ID:	OB-18
Date:	7/8/09	Sampled By:	C. Laprus		
Sampling Time:	10:20	Recorded By:	C. Laprus		
Weather:	Sun, 70's	Replicate/Split:	None		

INSTRUMENT IDENTIFICATION

	PID	Water-Level Meter	Water Quality Meter(s)
Serial #:	MiniRAE	Solinst	YSI- 600 XL

PURGING INFORMATION

Casing Material:	Stainless Steel	Purge Method:	**Low Flow Bladder Pump**				
Casing Diameter:	4"	Screen Interval:	From	10'	to	20'	
Total Depth:	21.74	Pump intake depth:	15'				
Depth to Water:	2.77						
Water Column:	18.97	Total Volume Purged:	2.97 gallons				
Gallons/Foot:	0.65	Pump on:	9:25	Off:	10:41		
Gallons in Well:	12.3						

FIELD PARAMETERS

Time	Minutes Elapsed	Rate (ml/m)	Gallons Purged	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Depth to Water	Diss. Oxygen	Comments
9:30	5	200	0.27	107.4	101.9	6.61	0.260	11.90	3.10	1.02	
9:35	10	200	0.27	93.9	138.9	6.61	0.241	11.71	3.45	0.74	
9:40	15	200	0.27	90.1	155.7	6.62	0.248	11.86	3.60	0.72	
9:45	20	200	0.27	93.1	168.6	6.64	0.252	12.61	3.71	0.72	
9:50	25	200	0.27	94.1	184.4	6.65	0.255	12.97	4.20	0.75	
9:55	30	200	0.27	98.40	188.6	6.65	0.258	13.15	4.26	0.71	
10:00	35	200	0.27	95.5	197.1	6.65	0.253	12.54	4.31	0.66	
10:05	40	200	0.27	63.1	201.1	6.65	0.248	11.79	4.47	0.54	
10:11	45	200	0.27	19.1	212.9	6.65	0.241	11.86	4.53	0.61	
10:15	50	200	0.27	18.3	219.9	6.65	0.242	11.82	4.59	0.64	
10:20	55	200	0.27	17.7	216.7	6.65	0.241	11.84	4.68	0.65	

OBSERVATIONS DURING SAMPLING

Well Condition:	Good	Purge Water Disposal:	250-gallon poly tank on-site
Color:	Clear	Turbidity(qualitative):	Clear
Odor:	No Odor	Other (OVA, HNU,etc.):	None

ARCADIS-US
Groundwater Sampling Form

Project Number:	NJ000604.0035	Task:	00034	Well ID:	OB-19
Date:	7/7/09	Sampled By:	D.Kirschner		
Sampling Time:	13:27	Recorded By:	D.Kirschner		
Weather:	Sun, 80's	Replicate/Split:	None		

INSTRUMENT IDENTIFICATION

	PID	Water-Level Meter	Water Quality Meter(s)
Serial #:	MiniRAE	SOLINST	YSI 600XL

PURGING INFORMATION

Casing Material:	PVC	Purge Method:	**Low Flow Bladder Pump**			
Casing Diameter:	2"	Screen Interval:	From	5'	to	20'
Total Depth:	21.77	Pump intake depth:	15'			
Depth to Water:	12.21					
Water Column:	9.56	Total Volume Purged:	1.80 gallons			
Gallons/Foot:	0.16	Pump on:	12:55	Off:	13:40	
Gallons in Well:	1.5					

FIELD PARAMETERS

Time	Minutes Elapsed	Rate (ml/m)	Gallons Purged	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Depth to Water	Diss. Oxygen	Comments
13:00	5	225	0.30	12.1	-35.3	5.51	0.204	12.03	12.28	4.35	
13:05	10	225	0.30	17.2	-50.4	5.52	0.210	11.40	12.26	1.25	
13:10	15	225	0.30	65.3	-50.5	5.37	0.203	11.28	12.26	4.37	
13:15	20	225	0.30	24.3	-53.2	5.59	0.213	11.34	12.26	0.29	
13:20	25	225	0.30	14.0	-59.3	5.60	0.217	11.63	12.26	0.28	
13:25	30	225	0.30	12.0	-58.2	5.63	0.215	11.60	12.26	0.27	

OBSERVATIONS DURING SAMPLING

Well Condition:	Good	Purge Water Disposal:	250-gallon poly tank on-site
Color:	Clear	Turbidity(qualitative):	Clear
Odor:	No Odor	Other (OVA, HNU,etc.):	None

ARCADIS-US
Groundwater Sampling Form

Project Number:	NJ000604.0035	Task:	00034	Well ID:	OB-20A
Date:	7/9/09	Sampled By:	V. Myers		
Sampling Time:	11:17	Recorded By:	V. Myers		
Weather:	Sun, 80's	Replicate/Split:	None		

INSTRUMENT IDENTIFICATION

	PID	Water-Level Meter	Water Quality Meter(s)
Serial #:	MiniRAE	Solinst	YSI- 600 XL

PURGING INFORMATION

Casing Material:	PVC	Purge Method:	**Low Flow Bladder Pump**			
Casing Diameter:	2"	Screen Interval:	From	6'	to	21'
Total Depth:	22.00	Pump intake depth:	19'			
Depth to Water:	14.83					
Water Column:	7.17	Total Volume Purged:	1.89 gallons			
Gallons/Foot:	0.16	Pump on:	10:40	Off:	11:26	
Gallons in Well:	1.15					

FIELD PARAMETERS

Time	Minutes Elapsed	Rate (ml/m)	Gallons Purged	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Depth to Water	Diss. Oxygen	Comments
10:45	5	200	0.27	75.1	-3.2	6.24	0.201	10.85	15.10	0.40	
10:50	10	200	0.27	63.4	-3.1	6.27	0.201	10.63	15.10	0.40	
10:55	15	200	0.27	34.1	-3.1	6.27	0.201	10.65	15.10	0.40	
11:00	20	200	0.27	19.3	-12.5	6.16	0.200	10.53	15.10	0.31	
11:05	25	200	0.27	12.9	-13.9	6.08	0.200	10.49	15.10	0.24	
11:10	30	200	0.27	10.3	-13.8	6.03	0.200	10.45	15.10	0.26	
11:15	35	200	0.27	9.9	-13.0	6	0.200	10.19	15.10	0.26	

OBSERVATIONS DURING SAMPLING

Well Condition:	Good	Purge Water Disposal:	250-gallon poly tank on-site
Color:	Clear	Turbidity(qualitative):	Clear
Odor:	No Odor	Other (OVA, HNU,etc.):	None

ARCADIS-US
Groundwater Sampling Form

Project Number:	NJ000604.0035	Task:	00034	Well ID:	OB- 20 B
Date:	7/9/09	Sampled By:	D. Kirschner		
Sampling Time:	10:12	Recorded By:	D. Kirschner		
Weather:	Sun, 80's	Replicate/Split:	None		

INSTRUMENT IDENTIFICATION

	PID	Water-Level Meter	Water Quality Meter(s)
Serial #:	MiniRAE	Solinst	YSI- 600 XL

PURGING INFORMATION

Casing Material:	PVC	Purge Method:	**Low Flow Bladder Pump**			
Casing Diameter:	2"	Screen Interval:	From	24'	to	34'
Total Depth:	35.00	Pump intake depth:	20'			
Depth to Water:	14.46					
Water Column:	20.54	Total Volume Purged:	2.43 gallons			
Gallons/Foot:	0.16	Pump on:	9:25	Off:	10:49	
Gallons in Well:	3.3					

FIELD PARAMETERS

Time	Minutes Elapsed	Rate (ml/m)	Gallons Purged	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Depth to Water	Diss. Oxygen	Comments
9:20	5	200	0.27	173.0	24.2	6.75	0.331	11.3	15.19	2.00	
9:25	10	200	0.27	101.9	31.0	6.21	0.301	10.13	15.32	0.45	
9:30	15	200	0.27	60.6	29.4	6.17	0.301	10.14	15.31	0.34	
9:35	20	200	0.27	52.8	26.7	6.17	0.301	10.15	15.31	0.31	
9:40	25	200	0.27	43.6	25.7	6.18	0.302	9.97	15.31	0.30	
9:45	30	200	0.27	19.3	23.7	6.20	0.303	9.96	15.31	0.30	
9:50	35	200	0.27	17.9	21.9	6.20	0.302	9.95	15.31	0.29	
9:55	40	200	0.27	13.4	19.9	6.20	0.303	9.95	15.31	0.28	
10:00	45	200	0.27	12.9	19.7	6.21	0.304	9.93	15.31	0.28	

OBSERVATIONS DURING SAMPLING

Well Condition:	Good	Purge Water Disposal:	250-gallon poly tank on-site
Color:	Clear	Turbidity(qualitative):	Clear
Odor:	No Odor	Other (OVA, HNU,etc.):	None

ARCADIS-US
Groundwater Sampling Form

Project Number:	NJ000604.0035	Task:	00034	Well ID:	OB- 21
Date:	7/7/09	Sampled By:	V. Myers		
Sampling Time:	10:05	Recorded By:	V. Myers		
Weather:	Sun, 80's	Replicate/Split:	DUP(070709)		

INSTRUMENT IDENTIFICATION

	PID	Water-Level Meter	Water Quality Meter(s)
Serial #:	MiniRAE	Solinst	YSI- 600 XL

PURGING INFORMATION

Casing Material:	PVC	Purge Method:	**Low Flow Bladder Pump**			
Casing Diameter:	2"	Screen Interval:	From	6'	to	21'
Total Depth:	21	Pump intake depth:	18'			
Depth to Water:	7.95					
Water Column:	13.05	Total Volume Purged:	1.62 gallons			
Gallons/Foot:	0.16	Pump on:	9:33	Off:	11:00	
Gallons in Well:	1.3					

FIELD PARAMETERS

Time	Minutes Elapsed	Rate (ml/m)	Gallons Purged	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Depth to Water	Diss. Oxygen	Comments
9:38	5	200	0.27	1618.0	154.5	5.63	0.083	11.61	7.04	7.33	
9:43	10	200	0.27	1245.0	154.4	5.52	0.083	11.89	7.04	6.81	
9:48	15	200	0.27	949.0	151.2	5.54	0.082	11.89	7.04	6.58	
9:53	20	200	0.27	405.0	149.3	5.56	0.082	11.89	7.04	6.07	
9:58	25	200	0.27	149.0	148.2	5.56	0.080	11.93	7.04	5.84	
10:03	30	200	0.27	173.0	147.4	5.58	0.080	11.96	7.04	5.62	

OBSERVATIONS DURING SAMPLING

Well Condition:	Good	Purge Water Disposal:	250-gallon poly tank on-site
Color:	Clear with sediment	Turbidity(qualitative):	Tan sediment
Odor:	No Odor	Other (OVA, HNU,etc.):	None

ARCADIS-US
Groundwater Sampling Form

Project Number:	NJ000604.0035	Task:	00034	Well ID:	OB-22
Date:	7/8/09	Sampled By:	V. Myers		
Sampling Time:	13:02	Recorded By:	V. Myers		
Weather:	Sun, 80's	Replicate/Split:	None		

INSTRUMENT IDENTIFICATION

	PID	Water-Level Meter	Water Quality Meter(s)
Serial #:	MiniRAE	SOLINST	YSI, LAMOTTE 2020

PURGING INFORMATION

Casing Material:	PVC	Purge Method:	**Low Flow Bladder Pump**				
Casing Diameter:	2"	Screen Interval:	From	10'	to	20'	
Total Depth:	20.00	Pump intake depth:					
Depth to Water:	12.25						
Water Column:	7.75	Total Volume Purged:	1.04 gallons				
Gallons/Foot:	0.16	Pump on:	12:20	Off:	13:25		
Gallons in Well:	1.24						

FIELD PARAMETERS

Time	Minutes Elapsed	Rate (ml/m)	Gallons Purged	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Depth to Water	Diss. Oxygen	Comments
12:25	5	100	.13	730.0	334.4	6.69	0.795	13.21	12.24	4.68	
12:30	10	100	.13	771.0	265.4	6.44	0.324	17.41	12.32	4.47	
12:35	15	100	.13	698.0	306.7	6.23	0.287	17.05	12.43	4.51	
12:40	20	100	.13	420.0	325.5	6.13	0.276	15.77	12.54	4.58	
12:45	25	100	.13	300.0	334.3	6.12	0.271	16.29	12.59	4.55	
12:50	30	100	.13	229.0	345.1	6.12	0.269	15.54	12.65	4.54	
12:55	35	100	.13	229.0	345.3	6.11	0.268	15.27	12.71	4.51	
13:00	40	100	.13	222.0	347.4	6.12	0.266	15.12	12.77	4.47	

OBSERVATIONS DURING SAMPLING

Well Condition:	Good	Purge Water Disposal:	250-gallon poly tank on-site
Color:	Clear with sediment	Turbidity(qualitative):	Tan sediment
Odor:	No Odor	Other (OVA, HNU,etc.):	None

ARCADIS-US
Groundwater Sampling Form

Project Number:	NJ000604.0035	Task:	00034	Well ID:	OB-23
Date:	7/8/09	Sampled By:	D. Kirschner		
Sampling Time:	13:17	Recorded By:	D. Kirschner		
Weather:	Sun, 80's	Replicate/Split:	None		

INSTRUMENT IDENTIFICATION

	PID	Water-Level Meter	Water Quality Meter(s)
Serial #:	MiniRAE	Solinst	YSI- 600 XL

PURGING INFORMATION

Casing Material:	PVC	Purge Method:	**Low Flow Bladder Pump**			
Casing Diameter:	2"	Screen Interval:	From	10'	to	20'
Total Depth:	20.00	Pump intake depth:				
Depth to Water:	16.31					
Water Column:	3.69	Total Volume Purged:	1.2 gallons			
Gallons/Foot:	0.16	Pump on:	12:45	Off:	13:25	
Gallons in Well:	0.6					

FIELD PARAMETERS

Time	Minutes Elapsed	Rate (ml/m)	Gallons Purged	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Depth to Water	Diss. Oxygen	Comments
12:50	5	150	.20	22.0	-11.5	6.39	0.888	16.90	16.71	3.23	
12:55	10	150	.20	21.9	-24.7	6.32	0.933	15.37	16.82	1.83	
13:00	15	150	.20	20.7	-26.5	6.31	0.935	15.22	16.92	1.35	
13:05	20	150	.20	20.3	-29.7	6.32	0.964	14.92	16.97	1.02	
13:10	25	150	.20	20.4	-32.3	6.34	0.967	14.93	17.01	1.00	
13:15	30	150	.20	19.8	-35.3	6.34	0.969	14.92	17.04	1.02	

OBSERVATIONS DURING SAMPLING

Well Condition:	Good	Purge Water Disposal:	250-gallon poly tank on-site
Color:	Clear	Turbidity(qualitative):	Clear
Odor:	No Odor	Other (OVA, HNU,etc.):	None

ARCADIS-US
Groundwater Sampling Form

Project Number:	NJ000604.0035	Task:	00034	Well ID:	OB-24
Date:	7/8/09	Sampled By:	C. Lar V. Myers		
Sampling Time:	13:20	Recorded By:	C. Lar V. Myers		
Weather:	Sun, 80's	Replicate/Split:	None		

INSTRUMENT IDENTIFICATION

	PID	Water-Level Meter	Water Quality Meter(s)
Serial #:	MiniRAE	Solinst	YSI- 600 XL

PURGING INFORMATION

Casing Material:	PVC	Purge Method:	**Low Flow Bladder Pump**				
Casing Diameter:	2"	Screen Interval:	From	5'	to	15'	
Total Depth:	15.00	Pump intake depth:	10'				
Depth to Water:	4.30						
Water Column:	10.7	Total Volume Purged:	1.89 gallons				
Gallons/Foot:	0.16	Pump on:	12:45	Off:	13:49		
Gallons in Well:	1.71						

FIELD PARAMETERS

Time	Minutes Elapsed	Rate (ml/m)	Gallons Purged	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Depth to Water	Diss. Oxygen	Comments
12:50	5	200	0.27	144.3	256.7	6.63	0.587	13.92		0.91	
12:55	10	200	0.27	43.2	332.1	6.59	0.587	13.60		0.51	
13:00	15	200	0.27	22.3	362.1	6.59	0.596	13.55		0.65	
13:05	20	200	0.27	9.1	389.1	6.57	0.592	13.32		0.40	
13:10	25	200	0.27	9.4	396.3	6.57	0.590	13.26		0.31	
13:15	30	200	0.27	9.3	399.6	6.57	0.590	13,28		0.33	
13:20	35	200	0.27	9.8	401.4	6.57	0.588	13.32		0.35	

OBSERVATIONS DURING SAMPLING

Well Condition:	Good	Purge Water Disposal:	250-gallon poly tank on-site
Color:	Clear	Turbidity(qualitative):	Clear
Odor:	No Odor	Other (OVA, HNU,etc.):	None

ARCADIS-US
Groundwater Sampling Form

Project Number:	NJ000604.0035	Task:	00034	Well ID:	OB-25
Date:	7/6/09	Sampled By:	V. Myers/ D. Kirscnher		
Sampling Time:	10:45	Recorded By:	V. Myers/ D. Kirscnher		
Weather:	Sun, 80's	Replicate/Split:	EPA Split		

INSTRUMENT IDENTIFICATION

	PID	Water-Level Meter	Water Quality Meter(s)
Serial #:	MiniRAE	Solinst	YSI- 600 XL

PURGING INFORMATION

Casing Material:	PVC	Purge Method:	**Low Flow Bladder Pump**			
Casing Diameter:	2"	Screen Interval:	From	10'	to	20'
Total Depth:	19.19	Pump intake depth:	19'			
Depth to Water:	11.44					
Water Column:	7.75	Total Volume Purged:	3.64 gallons			
Gallons/Foot:	0.16	Pump on:	9:32	Off:	12:19	
Gallons in Well:	1.24					

FIELD PARAMETERS

Time	Minutes Elapsed	Rate (ml/m)	Gallons Purged	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Depth to Water	Diss. Oxygen	Comments
9:37	5	195	0.26	189.0	238.7	6.50	0.444	14.04	11.81	7.94	
9:42	10	195	0.26	170.0	261.1	6.55	0.451	12.93	12.31	8.02	
9:47	15	195	0.26	172.0	289.4	6.53	0.450	12.82	13.00	8.19	
9:52	20	195	0.26	227.0	321.5	6.44	0.453	13.01	13.71	8.00	
9:57	25	195	0.26	227.0	339.2	6.43	0.456	12.90	14.90	8.08	
10:02	30	195	0.26	234.0	360.9	6.32	0.451	12.77	15.45	7.91	
10:07	35	195	0.26	207.0	384.4	6.25	0.462	13.88	15.69	7.89	
10:12	40	195	0.26	188.0	389.9	6.27	0.466	13.92	15.76	7.89	
10:17	45	195	0.26	165.0	389.9	6.27	0.468	13.91	15.72	7.25	
10:22	50	195	0.26	161.0	397.3	6.23	0.472	14.02	15.79	6.71	
10:27	55	195	0.26	158.0	404.9	6.22	0.478	14.14	15.83	6.68	
10:32	60	195	0.26	173.0	409.5	6.26	0.480	14.19	15.90	6.99	
10:37	65	195	0.26	225.0	410.0	6.27	0.483	14.4	16.00	7.20	
10:42	70	195	0.26	284.0	411.8	6.26	0.484	14.43	16.07	7.20	

OBSERVATIONS DURING SAMPLING

Well Condition:	Good	Purge Water Disposal:	250-gallon poly tank on-site
Color:	Clear	Turbidity(qualitative):	Clear
Odor:	No Odor	Other (OVA, HNU,etc.):	None

ARCADIS-US
Groundwater Sampling Form

Project Number:	NJ000604.0035	Task:	00034	Well ID:	OB-26
Date:	7/2/09	Sampled By:	V. Myers/ D. Kirschner		
Sampling Time:	9:57	Recorded By:	V. Myers/ D. Kirschner		
Weather:	Sun, 80's	Replicate/Split:	None		

INSTRUMENT IDENTIFICATION

	PID	Water-Level Meter	Water Quality Meter(s)
Serial #:	MiniRAE	Solinst	YSI- 600 XL

PURGING INFORMATION

Casing Material:	PVC	Purge Method:	**Low Flow Bladder Pump**			
Casing Diameter:	2"	Screen Interval:	From	10'	to	20'
Total Depth:	23.95	Pump intake depth:	15'			
Depth to Water:	3.85					
Water Column:	20.1	Total Volume Purged:	2.97 gallons			
Gallons/Foot:	0.16	Pump on:	9:00	Off:	10:20	
Gallons in Well:	3.22					

FIELD PARAMETERS

Time	Minutes Elapsed	Rate (ml/m)	Gallons Purged	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Depth to Water	Diss. Oxygen	Comments
9:05	5	200	0.27	33.7	153.1	6.10	0.059	14.27	8.13	8.89	
9:10	10	200	0.27	42.5	142.1	5.93	0.078	14.09	8.13	8.06	*
9:15	15	200	0.27	21.5	154.8	6.89	0.238	14.09	8.13	2.24	
9:20	20	200	0.27	20.9	160.4	6.15	0.085	14.09	8.13	1.91	
9:25	25	200	0.27	24.8	158.4	6.05	0.082	14.09	8.13	2.32	
9:30	30	200	0.27	21.3	104.0	5.99	0.081	14.09	8.13	2.14	
9:35	35	200	0.27	15.2	100.1	5.95	0.080	14.09	8.13	2.18	
9:40	40	200	0.27	12.7	147.8	6.15	0.080	14.09	8.13	1.64	
9:45	45	200	0.27	14.0	146.2	6.13	0.079	14.09	8.13	1.71	
9:50	50	200	0.27	10.1	146.3	6.12	0.079	14.09	8.13	1.64	
9:55	55	200	0.27	8.7	146.4	6.12	0.079	14.09	8.13	1.77	
	* Changed out YSI's										

OBSERVATIONS DURING SAMPLING

Well Condition:	Good	Purge Water Disposal:	250-gallon poly tank on-site
Color:	Clear	Turbidity(qualitative):	Clear
Odor:	No Odor	Other (OVA, HNU,etc.):	None

ARCADIS-US
Groundwater Sampling Form

Project Number:	NJ000604.0035	Task:	00034	Well ID:	RW-5
Date:	7/7/09	Sampled By:	D. Kirschner		
Sampling Time:	13:43	Recorded By:	D. Kirschner		
Weather:	Sun, 80's	Replicate/Split:	None		

INSTRUMENT IDENTIFICATION

	PID	Water-Level Meter	Water Quality Meter(s)
Serial #:	MiniRAE	Solinst	YSI- 600 XL

PURGING INFORMATION

Casing Material:	PVC	Purge Method:	**Low Flow Bladder Pump**
Casing Diameter:	2"	Screen Interval:	From 99' to 119'
Total Depth:	39.81	Pump intake depth:	110'
Depth to Water:	12.27		
Water Column:	27.54	Total Volume Purged:	2.43 gallons
Gallons/Foot:	0.16	Pump on: 12:50	0 Off: 14:00
Gallons in Well:	44.91		

FIELD PARAMETERS

Time	Minutes Elapsed	Rate (ml/m)	Gallons Purged	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Depth to Water	Diss. Oxygen	Comments
12:55	5	200	0.27	222	-73.1	6.56	0.420	11.56	13.97	1.09	
13:00	10	200	0.27	7.76	-87.3	6.52	0.415	11.18	14.26	0.34	
13:05	15	200	0.27	14.4	-92.3	6.36	0.413	11.02	14.46	0.22	
13:10	20	200	0.27	3.01	-94.9	6.58	0.412	10.98	14.49	0.21	
13:15	25	200	0.27	3.98	-96.7	6.60	0.413	11.02	14.51	0.20	
13:20	30	200	0.27	4.11	-87.6	6.70	0.411	11.52	15.53	0.20	
13:25	35	200	0.27	3.91	-80.7	6.73	0.405	11.34	14.52	0.20	
13:30	40	200	0.27	1.44	-70.5	6.76	0.394	11.02	14.51	0.22	
13:35	45	200	0.27	1.3	-71.4	6.76	0.390	11.00	14.51	0.20	

OBSERVATIONS DURING SAMPLING

Well Condition:	Good	Purge Water Disposal:	250-gallon poly tank on-site
Color:	Clear	Turbidity(qualitative):	Clear
Odor:	No Odor	Other (OVA, HNU,etc.):	None

ARCADIS-US
Groundwater Sampling Form

Project Number:	NJ000604.0035	Task:	00034	Well ID:	RW-5A
Date:	7/7/09	Sampled By:	V. Myers		
Sampling Time:	13:37	Recorded By:	V. Myers		
Weather:	Sun, 80's	Replicate/Split:	MS/MSD		

INSTRUMENT IDENTIFICATION

	PID	Water-Level Meter	Water Quality Meter(s)
Serial #:	MiniRAE	Solinst	YSI- 600 XL

PURGING INFORMATION

Casing Material:	PVC	Purge Method:	**Low Flow Bladder Pump**			
Casing Diameter:	2"	Screen Interval:	From	54'	to	74'
Total Depth:	75.60	Pump intake depth:	65'			
Depth to Water:	12					
Water Column:	63.6	Total Volume Purged:	3.30 gallons			
Gallons/Foot:	0.16	Pump on:	12:45	Off:	16:30	
Gallons in Well:	10.18					

FIELD PARAMETERS

Time	Minutes Elapsed	Rate (ml/m)	Gallons Purged	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Depth to Water	Diss. Oxygen	Comments
12:50	5	250	0.33	36.70	166.6	8.49	0.904	12.03	13.06	1.86	
12:55	10	250	0.33	18.90	128.6	8.54	0.903	11.41	16.76	0.46	
13:00	15	250	0.33	16.00	40.6	8.51	0.910	11.78	18.78	0.18	
13:05	20	250	0.33	16.20	-50.2	8.50	0.905	11.60	19.95	0.12	
13:10	25	250	0.33	10.36	-188.3	8.47	0.908	11.69	22.01	0.08	
13:15	30	250	0.33	8.26	-145.4	8.37	0.899	11.68	22.91	0.07	
13:20	35	250	0.33	75.30	-177.0	8.28	0.870	11.56	23.75	0.07	
13:25	40	250	0.33	13.50	-201.3	8.24	0.829	11.24	24.41	0.06	
13:30	45	250	0.33	10.97	-214.8	8.23	0.798	11.04	25.10	0.06	
13:35	50	250	0.33	12.40	-219.2	8.24	0.775	11.09	25.52	0.06	
										.	

OBSERVATIONS DURING SAMPLING

Well Condition:	Good	Purge Water Disposal:	250-gallon poly tank on-site
Color:	Clear	Turbidity(qualitative):	Clear
Odor:	No Odor	Other (OVA, HNU,etc.):	None

ARCADIS-US
Groundwater Sampling Form

Project Number:	NJ000604.0035	Task:	00034	Well ID:	RW-6
Date:	7/9/09	Sampled By:	D. Kirschner		
Sampling Time:	11:02	Recorded By:	D. Kirschner		
Weather:	Sun, 80's	Replicate/Split:	None		

INSTRUMENT IDENTIFICATION

	PID	Water-Level Meter	Water Quality Meter(s)
Serial #:	MiniRAE	Solinst	YSI- 600 XL

PURGING INFORMATION

Casing Material:	PVC	Purge Method:	**Low Flow Bladder Pump**
Casing Diameter:	2"	Screen Interval:	From 99' to 119'
Total Depth:	120.00	Pump intake depth:	110'
Depth to Water:	12.85		
Water Column:	107.15	Total Volume Purged:	1.62 gallons
Gallons/Foot:	0.16	Pump on:	10:30 Off: 11:20
Gallons in Well:	17.1		

FIELD PARAMETERS

Time	Minutes Elapsed	Rate (ml/m)	Gallons Purged	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Depth to Water	Diss. Oxygen	Comments
10:35	5	200	0.27	18.5	7.8	6.33	0.384	11.81	12.90	1.60	
10:40	10	200	0.27	4.12	-0.1	6.38	0.472	10.94	12.98	0.57	
10:45	15	200	0.27	3.78	-2.6	6.39	0.484	10.95	13.00	0.42	
10:50	20	200	0.27	2.92	-3.3	6.40	0.483	10.70	13.01	0.38	
10:55	25	200	0.27	2.8	-5.3	6.42	0.491	10.70	13.01	0.38	
11:00	30	200	0.27	2.71	-6.9	6.40	0.491	10.71	13.02	0.37	

OBSERVATIONS DURING SAMPLING

Well Condition:	Good	Purge Water Disposal:	250-gallon poly tank on-site
Color:	Clear	Turbidity(qualitative):	Clear
Odor:	No Odor	Other (OVA, HNU,etc.):	None

ARCADIS-US
Groundwater Sampling Form

Project Number:	NJ000604.0035	Task:	00034	Well ID:	RW-6A
Date:	7/9/09	Sampled By:	V. Myers		
Sampling Time:	10:09	Recorded By:	V. Myers		
Weather:	Sun, 80's	Replicate/Split:	None		

INSTRUMENT IDENTIFICATION

	PID	Water-Level Meter	Water Quality Meter(s)
Serial #:	MiniRAE	Solinst	YSI- 600 XL

PURGING INFORMATION

Casing Material:	PVC	Purge Method:	**Low Flow Bladder Pump**
Casing Diameter:	6"	Screen Interval:	From 58' to 78'
Total Depth:	78.60	Pump intake depth:	60'
Depth to Water:	13.36		
Water Column:	65.24	Total Volume Purged:	1.89 gallons
Gallons/Foot:	1.47	Pump on:	9:30 Off: 10:25
Gallons in Well:	95.9		

FIELD PARAMETERS

Time	Minutes Elapsed	Rate (ml/m)	Gallons Purged	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Depth to Water	Diss. Oxygen	Comments
9:35	5	200	0.27	22.10	179.0	6.61	0.443	14.47	14.01	3.07	
9:40	10	200	0.27	13.40	6.9	6.80	0.507	11.28	14.11	0.73	
9:45	15	200	0.27	11.00	-10.2	6.81	0.507	11.10	14.14	0.58	
9:50	20	200	0.27	9.81	-9.3	6.68	0.468	10.84	14.20	0.47	
9:55	25	200	0.27	8.98	-8.1	6.65	0.461	10.75	14.20	0.46	
10:00	30	200	0.27	5.59	-12.3	6.63	0.454	10.74	14.20	0.44	
10:05	35	200	0.27	7.64	-14.1	6.62	0.446	10.69	14.20	0.44	

OBSERVATIONS DURING SAMPLING

Good	Purge Water Disposal:	250-gallon poly tank on-site
Clear	Turbidity(qualitative):	Clear
No Odor	Other (OVA, HNU,etc.):	None

ARCADIS-US
Groundwater Sampling Form

Project Number:	NJ000604.0035	Task:	00034	Well ID:	RW-7
Date:	7/7/09	Sampled By:	V. Myers		
Sampling Time:	10:07	Recorded By:	V. Myers		
Weather:	Sun, 80's	Replicate/Split:	None		

INSTRUMENT IDENTIFICATION

	PID	Water-Level Meter	Water Quality Meter(s)
Serial #:	MiniRAE	Solinst	YSI- 600 XL

PURGING INFORMATION

Casing Material:	PVC	Purge Method:	**Low Flow Bladder Pump**
Casing Diameter:	2"	Screen Interval:	From 99' to 119'
Total Depth:	115.00	Pump intake depth:	110'
Depth to Water:	2.84		
Water Column:	112.16	Total Volume Purged:	1.80 gallons
Gallons/Foot:	0.16	Pump on:	9:35 Off: 10:23
Gallons in Well:	17.95		

FIELD PARAMETERS

Time	Minutes Elapsed	Rate (ml/m)	Gallons Purged	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Depth to Water	Diss. Oxygen	Comments
9:40	5	225	0.30	3.13	263.1	6.45	0.096	12.33	2.98	6.11	
9:45	10	225	0.30	1.51	277.6	6.37	0.096	12.16	2.98	6.04	
9:50	15	225	0.30	2.38	284.8	6.37	0.096	11.99	2.98	6.01	
9:55	20	225	0.30	3.76	285.3	6.38	0.096	12.00	2.98	5.98	
10:00	25	225	0.30	3.81	290.1	6.38	0.097	12.00	2.98	5.97	
10:05	30	225	0.30	4.0	293.1	6.37	0.096	11.99	2.98	5.97	

OBSERVATIONS DURING SAMPLING

Well Condition:	Good	Purge Water Disposal:	250-gallon poly tank on-site
Color:	Clear	Turbidity(qualitative):	Clear
Odor:	No Odor	Other (OVA, HNU,etc.):	None

ARCADIS-US
Groundwater Sampling Form

Project Number:	NJ000604.0035	Task:	00034	Well ID:	PMAirShaft-230
Date:	7/10/09	Sampled By:	D. Kirschner		
Sampling Time:	15:37	Recorded By:	D. Kirschner		
Weather:	Sun, 80's	Replicate/Split:	None		

INSTRUMENT IDENTIFICATION

	PID	Water-Level Meter	Water Quality Meter(s)
Serial #:	MiniRAE	Solinst	YSI- 600 XL

PURGING INFORMATION

Casing Material:	N/A	Purge Method:	3 volume purge		
Casing Diameter:	N/A				
Total Depth:	N/A	Pump intake depth:	230 ft bgs		
Depth to Water:	7.24				
Water Column:	N/A	Total Volume Purged:	6.6 gallons		
Gallons/Foot:	N/A	Pump on:	14:45	Off:	16:00
Gallons in Well:	N/A				

FIELD PARAMETERS

Time	Minutes Elapsed	Rate (ml/m)	Gallons Purged	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Depth to Water	Diss. Oxygen	Comments
14:45	0	500	0	25.2	29.2	6.08	0.381	17.71	7.24	0.70	Int. Vol
15:00	15	500	1.98	11.6	34.1	5.69	0.351	14.48	7.24	0.46	1st Vol
15:20	35	500	2.64	4.51	30.5	5.91	0.351	14.46	7.24	0.43	2 nd Vol
15:35	50	500	1.98	4.57	30.1	5.62	0.355	14.95	7.24	0.45	Sample
		.									

OBSERVATIONS DURING SAMPLING

Well Condition:	Good	Purge Water Disposal:	FRAC TANK (On Site)
Color	Clear	Turbidity(qualitative):	Bubbles
Odor:	No Odor	Other (OVA, HNU,etc.):	None

ARCADIS-US
Groundwater Sampling Form

Project Number:	NJ000604.0035	Task:	00034	Well ID:	PMAirShaft-180
Date:	7/10/09	Sampled By:	D. Kirscnher		
Sampling Time:	14:06	Recorded By:	D. Kirschner		
Weather:	Sun, 80's	Replicate/Split:	None		

INSTRUMENT IDENTIFICATION

	PID	Water-Level Meter	Water Quality Meter(s)
Serial #:	MiniRAE	Solinst	YSI- 600 XL

PURGING INFORMATION

Casing Material:	N/A	Purge Method:	3 volume purge		
Casing Diameter:	N/A				
Total Depth:	N/A	Pump intake depth:	180 ft bgs		
Depth to Water:	7.24				
Water Column:	N/A	Total Volume Purged:	6.86 gal		
Gallons/Foot:	N/A	Pump on:	13:12	Off:	14:25
Gallons in Well:	N/A				

FIELD PARAMETERS

Time	Minutes Elapsed	Rate (ml/m)	Gallons Purged	Turbidity (NTUs)	REDOX (mV)	pH (SI Units)	Conductivity (mmhos/cm)	Temp (ºC)	Depth to Water	Diss. Oxygen	Comments
13:12	0	500	0	106.3	90.1	5.63	0.288	14.43	7.24	1.38	Int. Vol
13:26	14	500	1.85	20.9	51.1	5.80	0.349	14.50	7.24	0.42	1st Vol
13:52	40	500	3.43	6.14	34.4	5.94	0.350	14.45	7.24	0.40	2 nd Vol
14:04	52	500	1.58	3.65	30.8	5.99	0.350	14.44	7.24	0.37	Sample

OBSERVATIONS DURING SAMPLING

Well Condition:	Good	Purge Water Disposal:	FRAC TANK (On Site)
Color	Clear	Turbidity(qualitative):	Bubbles
Odor:	No Odor	Other (OVA, HNU,etc.):	None