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MEMO

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Date:
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ARCADIS Project No.:
NJ000604.0035

Subject:
Technical Memorandum – Site-Wide Groundwater Sampling
October 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 October 2009 Site-wide Groundwater Sampling Event for the Ringwood Mines/Landfill Site, Ringwood, New Jersey (Site). The sampling was undertaken between October 19 and November 2, 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-5, 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-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 well SC-01 located within the Peters Mine Pit and SC-02 located within Cannon Mine Pit. Additionally, water samples were collected from the Peters Mine air shaft. Well locations are shown on Figure 1. Well details are 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 October 2009 Site-wide Groundwater Sampling Event. Individual bedrock sampling intervals were isolated using inflatable packers.

RESULTS

A total of 57 groundwater samples were collected from 36 wells and the Peters Mine air shaft at the Ringwood Mines/Landfill Site. These included 24 shallow groundwater wells, consisting of 16 wells installed in unconsolidated overburden and eight wells installed in shallow bedrock. Samples were also collected from 12 deeper bedrock groundwater wells.

Groundwater 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.

The results of the October 2009 Site-Wide Groundwater Sampling event are presented on Figure 2, and summarized within Table 5. 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 October 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 October 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. A map showing groundwater elevations and flow directions in the Cannon Mine Pit Area during October 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 a 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 well.

- Shallow Bedrock Wells

  None of the VOCs on the target compound list were detected above GWQS in groundwater samples collected from eight shallow bedrock wells except for trichloroethene which was detected above the GWQS of 1.0 ug/L at OB-3 at a concentration of 2.1ug/L.

Deeper Groundwater

VOCs were detected above the GWQS in two of the 12 bedrock wells. Benzene exceeded the GWQS of 1.0 µg/L in samples collected from RW-6 (1.5 ug/L) and RW-6A (2.4 ug/L).

Peters Mine Air Shaft

One of the water samples collected from the Peters Mine Pit Area exceeded the GWQS of 1.0 µg/L for benzene from the depth of 230 feet (31.2 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.

- Shallow Bedrock Wells

  SVOCs were not detected at concentrations above GWQS in groundwater collected from the eight monitoring wells installed into shallow bedrock except for bis(2 ethylhexy)phthalate which was detected at location OB-5 at a concentrations of 8.4 ug/L.

Deep Groundwater

SVOCs were not detected in groundwater samples collected from the deeper bedrock wells at concentrations above the GWQS except for bis(2 ethylhexy)phthalate which was detected at location RW-10 at a concentrations of 3.6 ug/L, respectively.

Peters Mine Air Shaft

Water samples collected from the Peters Mine Air Shaft exceeded the SVOCs GWQS of 3.0 µg/L for bis(2 ethylhexy)phthalate from depths of 180 feet (3.4 µg/L) and 230 feet (3.5 µg/L) below ground surface.

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 and other Inorganics

Shallow Groundwater

- Unconsolidated and Directional Wells

  Lead was not detected above the GWQS of 5 µg/L in 15 of the 16 samples collected from wells installed in the unconsolidated unit. Unfiltered samples collected from monitoring well SC-01 were above the GWQS with a concentration of 9.9 µg/L. Lead was not detected above the GWQS for any filtered groundwater samples.

  Arsenic was detected above the GWQS of 3 µg/L in one of the 16 unfiltered samples. The sample that exceeded the GWQS in and around the O'Connor disposal area was collected from monitoring well OB-16 (6.1µg/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 but two of the 16 unfiltered samples collected from the shallow monitoring wells. The iron exceedances ranged from 380 µg/L to

38,600 µg/L. Iron was detected above the GWQS in 8 of the 16 filtered samples and the Peters Mine Air Shaft at 230' bls. Iron concentrations ranged from 502 ug/L to 20,600 ug/L with the highest concentration of 100,000 ug/L in the airshaft.

Manganese was detected above the GWQS of 50 µg/L in 13 of the 16 unfiltered samples collected from the monitoring wells, ranging in concentration from 62.5 µg/L to 6,230 µg/L. Manganese was detected above the GWQS in 12 of the 16 filtered samples and the Peters Mine Airshaft at 230' bls. Concentrations of the filtered samples ranged from 395 ug/L to 6,530 ug/L.

Aluminum was detected above the GWQS in four of the 16 unfiltered samples collected from the shallow monitoring wells, ranging in concentration from 250 µg/L to 1,280 µg/L.
Aluminum did not exceed the GWQS in any of the filtered samples collected.

- Shallow Bedrock Wells

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

  Iron was detected above the GWQS of 300 µg/L in 4 of the 8 unfiltered samples collected from the shallow bedrock wells; concentrations ranged from 2,550 to 13,100 µg/L. Manganese was detected in 4 of the 8 unfiltered samples at concentrations exceeding the GWQS of 50 µg/L, ranging from 402 µg/L to 1,120 µg/L.

  Besides iron and manganese, there were no exceedances above the GWQS in any of the filtered samples collected from the shallow bedrock wells.

<u>Deeper Groundwater</u>:

Lead was detected above the GWQS of 5 µg/L in one of the 31 samples collected from the 12 bedrock wells. The unfiltered sample collected at RW-10 from 180 feet to 200 feet had a lead concentration of 7.0 ug/L. Arsenic was detected above the GWQS of 3 µg/L in one unfiltered sample collected from RW-5A at 3.5 µg/L.

Iron concentrations exceeded the NJDEP GWQS of 300 µg/L in 30 of 31 unfiltered samples and 11 of 31 filtered samples in 12 deep bedrock wells. Manganese exceeded its GWQS in 17 of 31 unfiltered samples and in 15 of 31 filtered samples. Chloride was detected in one sample collected from RW-2 with a concentration of 80,300 ug/L, Aluminum, sodium, and zinc exceeded NJDEP's GWQS in five or more unfiltered samples.

Besides iron, manganese, sodium, and zinc there were no exceedances 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 the unfiltered and filtered samples collected from both depth intervals in the air shaft. The unfiltered iron concentrations were 2,250 µg/L and 162,000 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 (2,730 µg/L), and at 180 feet bgs (76.9 µg/L).

Iron and manganese also exceeded the GWQS in the deeper filtered samples collected from the Peters Mine Air Shaft (100,000 ug/L) and (2,560 ug/L).

Comparison with Historical Results

The October 2009 groundwater sampling event results are consistent with the sample results obtained during the April and September 2008 sampling events 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 July 2009 Report.

Except for the artifact results observed in September 2008, recent groundwater sampling results (2008 and 2009) are mostly consistent with previous groundwater sampling 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 6.

CONCLUSIONS

The following conclusions may be drawn based on the results of groundwater sampling conducted at the Site in October 2009 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 October 2009 sampling event, except at well OB-19. 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 (9.9 µg/L). Arsenic concentrations exceeded the GWQS of 3 µg/L at O'Connor Disposal Area well OB-16 (6.1 ug/L).

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 and manganese, 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 was only one SVOC detection above the NJDEP GWQS at RW-10 for 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 was detected above the NJDEP GWQS in only one of 31 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 a 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 42 to 408 ft bgs at various intervals in wells RW-2, RW-4, RW-8, and RW-10.

Present groundwater quality is consistent with historical patterns observed from 1984 through July 2009. 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 would be non-potable based on comparison to NJDEP's criteria for Class II-A classification.

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 from 1984 until the present. There is no basis to require continued monitoring for these parameters;
2. The TCL for VOCs and SVOCs should 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 having been detected or only detected sporadically at trace concentrations with no exceedances of NJGWQS;

3. Monitoring wells OB-1, OB-7, OB-10, OB-12, and OB-13 should 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. OB-6 has also been damaged. Nothing but Iron and manganese has ever been detected at this well. The well should be abandoned and not replaced; and
5. 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 insignificant 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

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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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-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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			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)

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 - October 2009, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

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

--- No parameters were recorded

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Table 2. Field Parameters at Sampling Time - Rock Wells - October 2009, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

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

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

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

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

WELL ID	DTW (Feet)	Measuring Point Elevation (Feet)	Groundwater Elevation (Feet)
OB-1	6.99	544.37	537.38
OB-2	29.80	562.30	532.50
OB-3	7.25	496.53	489.28
OB-4	14.64	510.80	496.16
OB-5	1.75	458.83	457.08
OB-6	10.41	607.28	596.87
OB-7	5.01	503.91	498.90
OB-8	---	574.25	
OB-10	6.41	352.04	345.63
OB-11	---	530.25	
OB-12	14.75	558.36	543.61
OB-13	20.76	500.35	479.59
OB-14A	10.56	501.40	490.84
OB-14B	13.05	504.11	491.06
OB-15B	6.59	515.98	509.39
OB-16	6.25	492.30	486.05
OB-17	5.62	490.26	484.64
OB-18	4.19	496.26	492.07
OB-19	12.43	532.39	519.96
OB-20A	15.58	533.67	518.09
OB-20B	15.00	534.03	519.03
OB-21	8.09	539.48	531.39
OB-22	20.18	518.36	498.18
OB-23	20.71	515.65	494.94
OB-24	5.42	500.89	495.47
OB-25	11.55	527.31	515.76
OB-26	12.45	545.23	532.78
SC-1	15.45	532.53	517.08
SC-2	59.55	564.13	504.58
RW-1	11.60	550.44	538.84
RW-2	8.19	513.23	505.04
RW-3	14.45	529.30	514.85
RW-4	30.34	541.07	510.73
RW-5	12.88	533.48	520.60
RW-5A	12.58	533.26	520.68
RW-6	13.36	533.96	520.60
RW-6A	13.95	534.32	520.37
RW-7	5.04	539.43	534.39
RW-8	58.39	570.10	511.71
RW-9	43.90	561.87	517.97
RW-10	38.22	540.98	502.76

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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

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Table 5. Summary of Ground Water Analytical Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location ID	GWQS[1]	OB-01	OB-02	OB-03	OB-04	OB-05	OB-07	OB-10	OB-10	OB-12	OB-13	OB-14A
Sample ID		OB-1(102209)	OB-2(102009)	OB-3(102009)	OB-4(102109)	OB-5(102109)	OB-7(102109)	OB-10(102109)	OB-10(102109) Dup	OB-12(102009)	OB-13(102109)	OB-14A(102309)
Sample Date		10/22/2009	10/20/2009	10/20/2009	10/21/2009	10/21/2009	10/21/2009	10/21/2009	10/21/2009	10/20/2009	10/21/2009	10/23/2009
Validation Status		Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
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	< 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
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	< 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	< 0.39	< 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
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	< 0.27	< 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	< 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	< 0.23	2.1	< 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	< 0.25	< 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	**2.1**	< 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	< 0.25	< 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
Total TIC, Volatile	NS	0	0	0	0	0	0	0	0	0	0	0

Table 5. Summary of Ground Water Analytical Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location ID		OB-01	OB-02	OB-03	OB-04	OB-05	OB-07	OB-10	OB-10	OB-12	OB-13	OB-14A
Sample ID	GWQS[1]	OB-1(102209)	OB-2(102009)	OB-3(102009)	OB-4(102109)	OB-5(102109)	OB-7(102109)	OB-10(102109)	OB-10(102109) Dup	OB-12(102009)	OB-13(102109)	OB-14A(102309)
Sample Date		10/22/2009	10/20/2009	10/20/2009	10/21/2009	10/21/2009	10/21/2009	10/21/2009	10/21/2009	10/20/2009	10/21/2009	10/23/2009
Validation Status		Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
SVOC												
1,1'-Biphenyl	400	< 0.43	< 0.42	< 0.47	< 0.47	< 0.48	< 0.44	< 0.46	< 0.47	< 0.42	< 0.47	< 0.47
2,4,5-Trichlorophenol	700	< 1.4	< 1.3	< 1.5	< 1.5	< 1.5	< 1.4	< 1.5	< 1.5	< 1.3	< 1.5	< 1.5
2,4,6-Trichlorophenol	20	< 1.3	< 1.2	< 1.4	< 1.4	< 1.4	< 1.3	< 1.3	< 1.4	< 1.2	< 1.4	< 1.4
2,4-Dichlorophenol	20	< 1.3	< 1.2	< 1.4	< 1.4	< 1.4	< 1.3	< 1.3	< 1.4	< 1.2	< 1.4	< 1.4
2,4-Dimethylphenol	100	< 1.7	< 1.7	< 1.8	< 1.8	< 1.9	< 1.7	< 1.8	< 1.8	< 1.7	< 1.8	< 1.8
2,4-Dinitrophenol	40	< 0.76 J	< 0.74	< 0.82	< 0.82	< 0.84	< 0.77	< 0.81	< 0.82	< 0.74	< 0.82	< 0.82 J
2,4-Dinitrotoluene	NS	< 0.23	< 0.22	< 0.24	< 0.24	< 0.25	< 0.23	< 0.24	< 0.24	< 0.22	< 0.24	< 0.24
2,6-Dinitrotoluene	NS	< 0.34	< 0.33	< 0.36	< 0.36	< 0.37	< 0.34	< 0.36	< 0.36	< 0.33	< 0.36	< 0.36
2-Chloronaphthalene	600	< 0.43	< 0.42	< 0.46	< 0.46	< 0.47	< 0.43	< 0.46	< 0.46	< 0.42	< 0.46	< 0.46
2-Chlorophenol	40	< 1.1	< 1.1	< 1.2	< 1.2	< 1.2	< 1.1	< 1.2	< 1.2	< 1.1	< 1.2	< 1.2
2-Methylnaphthalene	NS	< 0.68	< 0.66	< 0.73	< 0.73	< 0.75	< 0.69	< 0.72	< 0.73	< 0.66	< 0.73	< 0.73
2-Methylphenol	NS	< 1.2	< 1.1	< 1.2	< 1.2	< 1.3	< 1.2	< 1.2	< 1.2	< 1.1	< 1.2	< 1.2
2-Nitroaniline	NS	< 0.24	< 0.24	< 0.26	< 0.26	< 0.27	< 0.24	< 0.26	< 0.26	< 0.24	< 0.26	< 0.26
2-Nitrophenol	NS	< 1.3	< 1.2	< 1.4	< 1.4	< 1.4	< 1.3	< 1.4	< 1.4	< 1.2	< 1.4	< 1.4
3&4-Methylphenol	NS	< 1.1	< 1	< 1.2	< 1.2	< 1.2	< 1.1	< 1.1	< 1.2	< 1	< 1.2	< 1.2
3,3'-Dichlorobenzidine	30	< 0.3	< 0.3	< 0.33	< 0.33	< 0.34	< 0.31	< 0.32	< 0.33	< 0.3	< 0.33	< 0.33
3-Nitroaniline	NS	< 0.3	< 0.29	< 0.32	< 0.32	< 0.33	< 0.3	< 0.32	< 0.32	< 0.29	< 0.32	< 0.32
4,6-Dinitro-2-methylphenol	NS	< 0.53	< 0.51	< 0.57	< 0.57	< 0.58	< 0.53	< 0.56	< 0.57	< 0.51	< 0.57	< 0.57
4-Bromophenyl phenyl ether	NS	< 0.36	< 0.35	< 0.39	< 0.39	< 0.4	< 0.36	< 0.38	< 0.39	< 0.35	< 0.39	< 0.39
4-Chloro-3-Methylphenol	NS	< 1.1	< 1.1	< 1.2	< 1.2	< 1.2	< 1.1	< 1.2	< 1.2	< 1.1	< 1.2	< 1.2
4-Chloroaniline	30	< 0.26	< 0.25	< 0.28	< 0.28	< 0.29	< 0.26	< 0.28	< 0.28	< 0.25	< 0.28	< 0.28
4-Chlorophenyl phenyl ether	NS	< 0.36	< 0.35	< 0.39	< 0.39	< 0.4	< 0.37	< 0.39	< 0.39	< 0.35	< 0.39	< 0.39
4-Nitroaniline	NS	< 0.18	< 0.18	< 0.2	< 0.2	< 0.2	< 0.19	< 0.2	< 0.2	< 0.18	< 0.2	< 0.2
4-Nitrophenol	NS	< 0.85	< 0.83	< 0.92	< 0.92	< 0.94	< 0.86	< 0.91	< 0.92	< 0.83	< 0.92	< 0.92
Acetophenone	700	< 0.41	< 0.4	< 0.44	< 0.44	< 0.45	< 0.42	< 0.44	< 0.44	< 0.4	< 0.44	< 0.44
Atrazine	3	< 0.4	< 0.39	< 0.43	< 0.43	< 0.44	< 0.41	< 0.43	< 0.43	< 0.39	< 0.43	< 0.43
Benzaldehyde	NS	< 0.42	< 0.4	< 0.45	< 0.45	< 0.46	< 0.42	< 0.44	< 0.45	< 0.4	< 0.45	< 0.45
Benzyl butyl phthalate	100	< 0.26	< 0.25	< 0.28	< 0.28	< 0.29	< 0.26	< 0.28	< 0.28	< 0.25	< 0.28	< 0.28
bis(2-Chloroethoxy)methane	NS	< 0.26	< 0.25	< 0.28	< 0.28	< 0.28	< 0.26	< 0.27	< 0.28	< 0.25	< 0.28	< 0.28
bis(2-Chloroethyl)ether	7	< 0.32	< 0.31	< 0.34	< 0.34	< 0.35	< 0.32	< 0.34	< 0.34	< 0.31	< 0.34	< 0.34
bis(2-Chloroisopropyl)ether	300	< 0.4	< 0.39	< 0.43	< 0.43	< 0.44	< 0.41	< 0.43	< 0.43	< 0.39	< 0.43	< 0.43
bis(2-Ethylhexyl)phthalate	3	< 0.34	< 0.33	< 0.36	< 2.2	**8.4 J**	< 0.34	< 0.36	< 0.36	< 0.33	< 0.36	< 0.36
Caprolactam	NS	< 0.2	< 0.2	< 0.22	< 0.22	< 0.22	< 0.2	< 0.21	< 0.22	< 0.2	< 0.22	< 0.22
Carbazole	NS	< 0.17	< 0.17	< 0.18	< 0.18	< 0.19	< 0.17	< 0.18	< 0.18	< 0.17	< 0.18	< 0.18
Dibenzofuran	NS	< 0.31	< 0.3	< 0.34	< 0.34	< 0.35	< 0.32	< 0.33	< 0.34	< 0.3	< 0.34	< 0.34
Diethyl phthalate	6000	< 0.17	< 0.17	< 0.18	< 0.18	< 0.19	< 0.17	< 0.18	< 0.18	< 0.17	< 0.18	< 0.18
Dimethyl phthalate	NS	< 0.23	< 0.23	< 0.25	< 0.25	< 0.26	< 0.23	< 0.25	< 0.25	< 0.23	< 0.25	< 0.25
di-n-butyl phthalate	700	< 0.2	< 0.19	< 0.21	< 0.21	< 0.22	< 0.2	< 0.21	< 0.21	< 0.19	< 0.21	< 0.21
di-n-octylphthalate	100	< 0.41	< 0.4	< 0.44	< 0.44	< 0.45	< 0.41	< 0.43	< 0.44	< 0.4	< 0.44	< 0.44
Hexachlorobutadiene	1	< 0.38	< 0.37	< 0.41	< 0.41	< 0.42	< 0.39	< 0.41	< 0.41	< 0.37	< 0.41	< 0.41
Hexachlorocyclopentadiene	40	< 0.69	< 0.67	< 0.75	< 0.75	< 0.76	< 0.7	< 0.74	< 0.75	< 0.67	< 0.75	< 0.75
Hexachloroethane	7	< 0.27	< 0.26	< 0.29	< 0.29	< 0.3	< 0.27	< 0.29	< 0.29	< 0.26	< 0.29	< 0.29
Isophrone	40	< 0.26	< 0.25	< 0.28	< 0.28	< 0.28	< 0.26	< 0.27	< 0.28	< 0.25	< 0.28	< 0.28
Nitrobenzene	6	< 0.26	< 0.25	< 0.28	< 0.28	< 0.29	< 0.26	< 0.28	< 0.28	< 0.25	< 0.28	< 0.28
N-Nitroso-di-n-Propylamine	10	< 0.45	< 0.44	< 0.49	< 0.49	< 0.5	< 0.46	< 0.48	< 0.49	< 0.44	< 0.49	< 0.49
N-Nitrosodiphenylamine	10	< 0.22	< 0.22	< 0.24	< 0.24	< 0.24	< 0.22	< 0.24	< 0.24	< 0.22	< 0.24	< 0.24
Phenol	2000	< 0.58 J	< 0.58	< 0.64	< 0.64	< 0.66	< 0.6	< 0.63	< 0.64	< 0.58	< 0.64	< 0.66 J
Total TIC, Semi-Volatile	NS	0	0	0	0	0	0	0	0	0	0	24.1 J

Table 5. Summary of Ground Water Analytical Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location ID	GWQS[1]	OB-01	OB-02	OB-03	OB-04	OB-05	OB-07	OB-10	OB-10	OB-12	OB-13	OB-14A
Sample ID		OB-1(102209)	OB-2(102009)	OB-3(102009)	OB-4(102109)	OB-5(102109)	OB-7(102109)	OB-10(102109)	OB-10(102109) Dup	OB-12(102009)	OB-13(102109)	OB-14A(102309)
Sample Date		10/22/2009	10/20/2009	10/20/2009	10/21/2009	10/21/2009	10/21/2009	10/21/2009	10/21/2009	10/20/2009	10/21/2009	10/23/2009
Validation Status		Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
SVOC BY SIM												
Acenaphthene	400	< 0.03	< 0.029	< 0.032	< 0.032	< 0.033	< 0.03	< 0.032	< 0.032	< 0.029	< 0.032	< 0.032
Acenaphthylene	NS	< 0.041	< 0.039	< 0.044	< 0.044	< 0.045	< 0.041	< 0.043	< 0.044	< 0.039	< 0.044	< 0.044
Anthracene	2000	< 0.026	< 0.026	< 0.028	< 0.028	< 0.029	< 0.027	< 0.028	< 0.028	< 0.026	< 0.028	< 0.028
Benzo(a)anthracene	0.1 [0.2]	< 0.024	< 0.024	< 0.026	< 0.026	< 0.027	< 0.025	< 0.026	< 0.026	< 0.024	< 0.026	< 0.026
Benzo(a)pyrene	0.1 [0.2]	< 0.032	< 0.031	< 0.034	< 0.034	< 0.035	< 0.032	< 0.034	< 0.034	< 0.031	< 0.034	< 0.034
Benzo(b)fluoranthene	0.2 [10]	< 0.037	< 0.036	< 0.04	< 0.04	< 0.041	< 0.037	< 0.039	< 0.04	< 0.036	< 0.04	< 0.04
Benzo(g,h,i)perylene	NS	< 0.03	< 0.029	< 0.032	< 0.032	< 0.033	< 0.03	< 0.032	< 0.032	< 0.029	< 0.032	< 0.032
Benzo(k)fluoranthene	0.5	< 0.029	< 0.028	< 0.031	< 0.031	< 0.032	< 0.029	< 0.031	< 0.031	< 0.028	< 0.031	< 0.031
Chrysene	5	< 0.023	< 0.022	< 0.024	< 0.024	< 0.025	< 0.023	< 0.024	< 0.024	< 0.022	< 0.024	< 0.024
Dibenzo(a,h)anthracene	0.3 [0.5]	< 0.023	< 0.023	< 0.025	< 0.025	< 0.026	< 0.023	< 0.025	< 0.025	< 0.023	< 0.025	< 0.025
Fluoranthene	300	< 0.025	< 0.024	< 0.027	< 0.027	< 0.028	< 0.025	< 0.027	< 0.027	< 0.024	< 0.027	< 0.027
Fluorene	300	< 0.028	< 0.027	< 0.03	< 0.03	< 0.031	< 0.028	< 0.03	< 0.03	< 0.027	< 0.03	< 0.03
Hexachlorobenzene	0.02 [10]	< 0.01	< 0.0099	< 0.011	< 0.011	< 0.011	< 0.01	< 0.011	< 0.011	< 0.0099	< 0.011	< 0.011
Indeno(1,2,3-cd)pyrene	0.2 [10]	< 0.03	< 0.029	< 0.032	< 0.032	< 0.033	< 0.03	< 0.032	< 0.032	< 0.029	< 0.032	< 0.032
Naphthalene	300	< 0.019	< 0.019	< 0.021	< 0.021	< 0.021	< 0.019	< 0.02	0.583	< 0.019	< 0.021	< 0.021
Pentachlorophenol	0.3 [1]	< 0.23	< 0.22	< 0.25	< 0.25	< 0.25	< 0.23	< 0.25	< 0.25	< 0.22	< 0.25	< 0.25
Phenanthrene	NS	< 0.037	< 0.036	< 0.04	< 0.04	< 0.041	< 0.038	< 0.04	< 0.04	< 0.036	< 0.04	< 0.04
Pyrene	200	< 0.023	< 0.022	< 0.025	< 0.025	< 0.025	< 0.023	< 0.024	< 0.025	< 0.022	< 0.025	< 0.025
PCBs												
PCB 1016	0.5	< 0.3	< 0.33	< 0.36	< 0.36	< 0.3	< 0.34	< 0.35	< 0.34	< 0.32	< 0.34	< 0.33
PCB 1221	0.5	< 0.41	< 0.45	< 0.49	< 0.49	< 0.41	< 0.46	< 0.48	< 0.47	< 0.43	< 0.47	< 0.46
PCB 1232	0.5	< 0.31	< 0.34	< 0.37	< 0.37	< 0.31	< 0.35	< 0.36	< 0.35	< 0.33	< 0.35	< 0.34
PCB 1242	0.5	< 0.27	< 0.3	< 0.32	< 0.32	< 0.27	< 0.3	< 0.32	< 0.31	< 0.28	< 0.31	< 0.3
PCB 1248	0.5	< 0.28	< 0.31	< 0.33	< 0.33	< 0.28	< 0.31	< 0.33	< 0.32	< 0.29	< 0.32	< 0.31
PCB 1254	0.5	< 0.18	< 0.2	< 0.21	< 0.21	< 0.18	< 0.2	< 0.21	< 0.2	< 0.19	< 0.2	< 0.2
PCB 1260	0.5	< 0.14	< 0.15	< 0.17	< 0.17	< 0.14	< 0.16	< 0.16	< 0.16	< 0.15	< 0.16	< 0.16
Total PCBs	0.5	0	0	0	0	0	0	0	0	0	0	0
Metals - Total												
Aluminum	200	< 26	< 26	< 26	102 B	< 26	< 26	< 26	< 26	< 26	< 26	< 26
Antimony	6	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9
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	5.8 B	5.7 B	4.5 B	28.4 B	17.9 B	14.7 B	7.2 B	7 B	3.4 B	4.8 B	537
Beryllium	1	< 0.4	< 0.4	< 0.4	< 0.4	< 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	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
Calcium	NS	6480	13600	16100	30900	81300	66100	17500	17300	10800	11800	132000
Chromium	70	< 0.9	< 0.9	< 0.9	< 0.9	0.9 B	3.4 B	< 0.9	< 0.9	< 0.9	< 0.9	1.5 B
Cobalt	NS	< 1.6	< 1.6	< 1.6	< 1.6	2 B	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6
Copper	1,300	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	2.4 B	< 1.6	< 1.6	4.9 B	< 1.6	< 1.6
Iron	300	99.8 B	32.4 B	**2550**	**3160**	**13100**	**9200**	182 J	170 J	< 100	79.4 BJ	**38600**
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	2090 B	4740 B	4750 B	7900	33200	25900	4830 B	4790 B	3820 B	4880 B	11600
Manganese	50	< 15	0.7 B	**1010**	**402**	**412**	**1120**	18.3	17.4	< 15	1.2 BJ	**969**
Mercury	2	< 0.082	< 0.082	< 0.082	< 0.082 J	< 0.082 J	< 0.082 J	< 0.082 J	< 0.082 J	< 0.082	< 0.082 J	< 0.082
Nickel	100	< 10	< 0.6	2.4 B	1.1 B	1.8 B	21.3	< 0.6	< 0.6	< 0.6	< 0.6	< 10
Potassium	NS	508 B	1660 B	1160 B	1600 B	2690 B	2520 B	1390 B	1380 B	730 B	921 B	6820 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	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Sodium	50,000	2220 B	4110 B	3760 B	41300	17200	9280 B	3970 B	3940 B	3400 B	3240 B	18800
Thallium	2 [10]	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	1.6 B	< 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	1.5 B
Zinc	2000	< 2.9	3.3 B	< 2.9	12.9 B	10.5 B	56.1	< 2.9	< 2.9	4 B	< 2.9	< 2.9

Table 5. Summary of Ground Water Analytical Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey.

Location ID		OB-01	OB-02	OB-03	OB-04	OB-05	OB-07	OB-10	OB-10	OB-12	OB-13	OB-14A
Sample ID	GWQS[1]	OB-1(102209)	OB-2(102009)	OB-3(102009)	OB-4(102109)	OB-5(102109)	OB-7(102109)	OB-10(102109)	OB-10(102109) Dup	OB-12(102009)	OB-13(102109)	OB-14A(102309)
Sample Date		10/22/2009	10/20/2009	10/20/2009	10/21/2009	10/21/2009	10/21/2009	10/21/2009	10/21/2009	10/20/2009	10/21/2009	10/23/2009
Validation Status		Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
Metals - Dissolved												
Aluminum	200	< 26	< 26	< 26	< 26	< 26	< 26	< 26	< 26	< 26	< 26	< 26
Antimony	6	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9
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	5.6 B	6 B	4.6 B	26.4 B	12.5 B	11.4 B	6.8 B	7 B	2.7 B	4.8 B	396
Beryllium	1	< 0.4	< 0.4	< 0.4	< 0.4	< 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	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
Calcium	NS	6360	14200	15900	30800	78800	70400	17300	17400	11000	12000	131000
Chromium	70	0.9 B	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	1.3 B
Cobalt	NS	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6
Copper	1,300	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	4.1 B	< 1.6	< 1.6
Iron	300	< 12	< 12	**632**	206	**502**	**510**	< 100	< 12	16.7 B	12.6 BJ	**5210**
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	2020 B	4970 B	4710 B	7890	32300	27600	4780 B	4810 B	3870 B	4960 B	11500
Manganese	50	< 15	0.6 B	**1080**	**395**	**386**	**1290**	0.8 B	0.7 BJ	1.4 B	1.1 BJ	**900**
Mercury	2	< 0.082 J	< 0.082	< 0.082	< 0.082 J	< 0.082 J	< 0.082 J	< 0.082 J	< 0.082 J	< 0.082	< 0.082 J	< 0.082 J
Nickel	100	< 10	< 0.6	2.5 B	< 0.6	1.5 B	1.2 B	< 0.6	< 0.6	< 0.6	< 0.6	< 10
Potassium	NS	487 B	1740 B	1150 B	1550 B	2590 B	2670 B	1360 B	1390 B	704 B	942 B	6750 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	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Sodium	50,000	2180 B	4290 B	3780 B	41300	16600	9840 B	3940 B	4000 B	3400 B	3310 B	18600
Thallium	2 [10]	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	1.6 B
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	< 2.9	4.4 B	2.9 B	6.1 B	< 2.9	< 2.9	< 2.9	< 2.9	5.8 B	3.1 B	3.2 B
Other												
Alkalinity, total (as CaCO3)	NS	16400	40900	49100	75800	258000	298000	58300	60500	36500	39800	403000
Chloride	250000	2800	< 2000	< 2000	75100	57600	8300	3100	3100	< 2000	< 2000	26100
Sulfate	250000	10000	16900	18900	17100	19400	< 10000	< 10000	< 10000	12700	15400	< 10000

Footnotes on page 33.

Table 5. Summary of Ground Water Analytical Results, Ringv

Location ID	GWQS[1]	OB-14B	OB-15B	OB-16	OB-16	OB-17	OB-18	OB-19	OB-20A	OB-20B	OB-21	OB-24
Sample ID		OB-14B(102309)	OB-15B(102609)	OB-16(102309)	OB-16	OB-17(102309)	OB-18(102309)	OB-19(102709)	OB-20A(102809)	OB-20B(102809)	OB-21(102709)	OB-24(102609)
Sample Date		10/23/2009	10/26/2009	10/23/2009	10/29/2009	10/23/2009	10/23/2009	10/27/2009	10/28/2009	10/28/2009	10/27/2009	10/26/2009
Validation Status		Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
VOC												
1,1,1-Trichloroethane	30	< 0.26	< 0.26	NA	< 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	NA	< 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	NA	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
1,1-Dichloroethane	50	< 0.29	< 0.29	NA	< 0.29	1.3	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29
1,1-Dichloroethene	1	< 0.4	< 0.4	NA	< 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	NA	< 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*	NA	< 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*	NA	< 0.39*	< 0.39*	< 0.39*	< 0.39*	< 0.39*	< 0.39*	< 0.39*	< 0.39*
1,2-Dichlorobenzene	600	< 0.26	< 0.26	NA	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
1,2-Dichloroethane	2	< 0.33	< 0.33	NA	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
1,2-Dichloropropane	1	< 0.27	< 0.27	NA	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27
1,3-Dichlorobenzene	600	< 0.25	< 0.25	NA	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
1,4-Dichlorobenzene	75	< 0.28	< 0.28	NA	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
2-Butanone (MEK)	300	< 1.6	< 1.6	NA	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6
2-Hexanone	NS	< 1.4	< 1.4	NA	< 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	NA	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86
Acetone	6000	< 2.9	< 2.9	NA	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9
Benzene	1	< 0.23	< 0.23	NA	< 0.23	< 0.23	< 0.23	0.39 J	< 0.23	0.77 J	< 0.23	< 0.23
Bromodichloromethane	1	< 0.22	< 0.22	NA	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Bromoform	4	< 0.23	< 0.23	NA	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Bromomethane	10	< 0.3	< 0.3	NA	< 0.3	< 0.3	< 0.3	< 0.3 J	< 0.3	< 0.3	< 0.3 J	< 0.3
Carbon disulfide	700	< 0.74	< 0.74	NA	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74
Carbon tetrachloride	1	< 0.26	< 0.26	NA	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
Chlorobenzene	50	< 0.39	< 0.39	NA	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39
Chloroethane	NS	< 0.37	< 0.37	NA	< 0.37	< 0.37	< 0.37	1.4 J	< 0.37	1.2	< 0.37	< 0.37
Chloroform	70	< 0.23	< 0.23	NA	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Chloromethane	NS	< 0.29	< 0.29	NA	< 0.29	< 0.29	< 0.29	< 0.29 J	< 0.29	< 0.29	< 0.29	< 0.29
cis-1,2-Dichloroethene	70	< 0.22	< 0.22	NA	< 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	NA	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Cyclohexane	NS	< 1.9	< 1.9	NA	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9
Dibromochloromethane	1	< 0.22	< 0.22	NA	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Dichlorodifluoromethane	1,000	< 0.92	< 0.92	NA	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92	< 0.92
Ethylbenzene	700	< 0.27	< 0.27	NA	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27
Freon 113	NS	< 0.38	< 0.38	NA	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
Isopropylbenzene	700	< 0.57	< 0.57	NA	< 0.57	< 0.57	< 0.57	< 0.57	< 0.57	< 0.57	< 0.57	< 0.57
Methyl acetate	7000	< 1.5	< 1.5	NA	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Methyl tert butyl ether	70	0.38 J	< 0.23	NA	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	0.3 J
Methylcyclohexane	NS	< 0.35	< 0.35	NA	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
Methylene chloride	3	< 0.3	< 0.3	NA	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
o-Xylene	NS	< 0.25	< 0.25	NA	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	0.37 J	< 0.25
Styrene	100	< 0.58	< 0.58	NA	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58	< 0.58
Tetrachloroethene	1	< 0.27	< 0.27	NA	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27
Toluene	1000	< 0.3	< 0.3	NA	< 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	NA	< 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	NA	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Trichloroethene	1	< 0.24	< 0.24	NA	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Trichlorofluoromethane	2000	< 0.54	< 0.54	NA	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54
Vinyl Chloride	1	< 0.44	< 0.44	NA	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
Xylene, -m,p	NS	< 0.25	< 0.25	NA	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	0.53 J	< 0.25
Xylenes	1,000	< 0.25	< 0.25	NA	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	0.9 J	< 0.25
Total TIC, Volatile	NS	0	0	NA	0	0	0	0	0	0	0	0

Table 5. Summary of Ground Water Analytical Results, Ringw

Location ID	GWQS[1]	OB-14B	OB-15B	OB-16	OB-16	OB-17	OB-18	OB-19	OB-20A	OB-20B	OB-21	OB-24
Sample ID		OB-14B(102309)	OB-15B(102609)	OB-16(102309)	OB-16	OB-17(102309)	OB-18(102309)	OB-19(102709)	OB-20A(102809)	OB-20B(102809)	OB-21(102709)	OB-24(102609)
Sample Date		10/23/2009	10/26/2009	10/23/2009	10/29/2009	10/23/2009	10/23/2009	10/27/2009	10/28/2009	10/28/2009	10/27/2009	10/26/2009
Validation Status		Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
SVOC												
1,1'-Biphenyl	400	< 0.42	< 0.42	< 0.45	NA	< 0.44	< 0.44	< 0.44	< 0.46	< 0.46	< 0.44	< 0.47
2,4,5-Trichlorophenol	700	< 1.3	< 1.3	< 1.4	NA	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.5
2,4,6-Trichlorophenol	20	< 1.2	< 1.2	< 1.3	NA	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.4
2,4-Dichlorophenol	20	< 1.2	< 1.2	< 1.3	NA	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.4
2,4-Dimethylphenol	100	< 1.7	< 1.7	< 1.8	NA	< 1.7	< 1.7	< 1.7	< 1.8	< 1.8	< 1.7	< 1.9
2,4-Dinitrophenol	40	< 0.74 J	< 0.74	< 0.78	NA	< 0.77	< 0.77	< 0.78 J	< 0.8	< 0.8	< 0.77 J	< 0.83
2,4-Dinitrotoluene	NS	< 0.22	< 0.22	< 0.23	NA	< 0.23	< 0.23	< 0.23 J	< 0.24 J	< 0.24 J	< 0.23 J	< 0.25
2,6-Dinitrotoluene	NS	< 0.33	< 0.33	< 0.35	NA	< 0.34	< 0.34	< 0.34	< 0.35	< 0.35	< 0.34	< 0.37
2-Chloronaphthalene	600	< 0.42	< 0.42	< 0.44	NA	< 0.43	< 0.43	< 0.44	< 0.45	< 0.45	< 0.43	< 0.47
2-Chlorophenol	40	< 1.1	< 1.1	< 1.1	NA	< 1.1	< 1.1	< 1.1	< 1.2	< 1.2	< 1.1	< 1.2
2-Methylnaphthalene	NS	< 0.66	< 0.66	< 0.7	NA	< 0.69	< 0.69	< 0.69	< 0.72	< 0.72	< 0.69	< 0.74
2-Methylphenol	NS	< 1.1	< 1.1	< 1.2	NA	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.3
2-Nitroaniline	NS	< 0.24	< 0.24	< 0.25	NA	< 0.24	< 0.24	< 0.25	< 0.26	< 0.26	< 0.24	< 0.26
2-Nitrophenol	NS	< 1.2	< 1.2	< 1.3	NA	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.4
3&4-Methylphenol	NS	< 1	< 1	< 1.1	NA	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.2
3,3'-Dichlorobenzidine	30	< 0.3	< 0.3	< 0.31	NA	< 0.31	< 0.31	< 0.31	< 0.32	< 0.32	< 0.31	< 0.33
3-Nitroaniline	NS	< 0.29	< 0.29	< 0.31	NA	< 0.3	< 0.3	< 0.3	< 0.31	< 0.31	< 0.3	< 0.32
4,6-Dinitro-2-methylphenol	NS	< 0.51	< 0.51	< 0.55	NA	< 0.53	< 0.53	< 0.54	< 0.56	< 0.56	< 0.53	< 0.58
4-Bromophenyl phenyl ether	NS	< 0.35	< 0.35	< 0.37	NA	< 0.36	< 0.36	< 0.37	< 0.38	< 0.38	< 0.36	< 0.39
4-Chloro-3-Methylphenol	NS	< 1.1	< 1.1	< 1.1	NA	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.2
4-Chloroaniline	30	< 0.25	< 0.25	< 0.27	NA	< 0.26	< 0.26	< 0.27	< 0.28	< 0.28	< 0.26	< 0.28
4-Chlorophenyl phenyl ether	NS	< 0.35	< 0.35	< 0.38	NA	< 0.37	< 0.37	< 0.37	< 0.38	< 0.38	< 0.37	< 0.4
4-Nitroaniline	NS	< 0.18	< 0.18	< 0.19	NA	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.2
4-Nitrophenol	NS	< 0.83	< 0.83	< 0.88	NA	< 0.86	< 0.86	< 0.87	< 0.9	< 0.9	< 0.86	< 0.93
Acetophenone	700	< 0.4	< 0.4	< 0.42	NA	< 0.42	< 0.42	< 0.42	< 0.43	< 0.43	< 0.42	< 0.45
Atrazine	3	< 0.39	< 0.39	< 0.42	NA	< 0.41	< 0.41	< 0.41 J	< 0.43	< 0.43	< 0.41 J	< 0.44
Benzaldehyde	NS	< 0.4	< 0.4	< 0.43	NA	< 0.42	< 0.42	< 0.43	< 0.44	< 0.44	< 0.42	< 0.45
Benzyl butyl phthalate	100	< 0.25	< 0.25	< 0.27	NA	< 0.26	< 0.26	< 0.26	< 0.27	< 0.27	< 0.26	< 0.28
bis(2-Chloroethoxy)methane	NS	< 0.25	< 0.25	< 0.26	NA	< 0.26	< 0.26	< 0.26	< 0.27	< 0.27	< 0.26	< 0.28
bis(2-Chloroethyl)ether	7	< 0.31	< 0.31	< 0.33	NA	< 0.32	< 0.32	< 0.33	< 0.34	< 0.34	< 0.32	< 0.35
bis(2-Chloroisopropyl)ether	300	< 0.39	< 0.39	< 0.41	NA	< 0.41	< 0.41	< 0.41	< 0.42	< 0.42	< 0.41	< 0.44
bis(2-Ethylhexyl)phthalate	3	< 0.33	< 0.33	< 0.35	NA	< 0.34	< 0.34	< 0.34	< 2.2 J	< 6.8 J	< 0.34	< 0.37
Caprolactam	NS	< 0.2	< 0.2	< 0.21	NA	< 0.2	< 0.2	< 0.21	< 0.21	< 0.21	< 0.2	< 0.22
Carbazole	NS	< 0.17	< 0.17	< 0.18	NA	< 0.17	< 0.17	< 0.17	< 0.18	< 0.18	< 0.17	< 0.19
Dibenzofuran	NS	< 0.3	< 0.3	< 0.32	NA	< 0.32	< 0.32	< 0.32	< 0.33	< 0.33	< 0.32	< 0.34
Diethyl phthalate	6000	< 0.17	< 0.17	< 0.18	NA	< 0.17	< 0.17	< 0.17	< 0.18	< 0.18	< 0.17	< 0.19
Dimethyl phthalate	NS	< 0.23	< 0.23	< 0.24	NA	< 0.23	< 0.23	< 0.24	< 0.24	< 0.24	< 0.23	< 0.25
di-n-butyl phthalate	700	< 0.19	< 0.19	< 0.2	NA	< 0.2	< 0.2	< 0.2	< 0.21	< 0.21	< 0.2	< 0.21
di-n-octylphthalate	100	< 0.4	< 0.4	< 0.42	NA	< 0.41	< 0.41	< 0.42	< 0.43	< 0.43	< 0.41	< 0.44
Hexachlorobutadiene	1	< 0.37	< 0.37 J	< 0.4	NA	< 0.39	< 0.39	< 0.39	< 0.4 J	< 0.4 J	< 0.39	< 0.42 J
Hexachlorocyclopentadiene	40	< 0.67	< 0.67	< 0.71	NA	< 0.7	< 0.7	< 0.71	< 0.73	< 0.73	< 0.7	< 0.76
Hexachloroethane	7	< 0.26	< 0.26	< 0.28	NA	< 0.27	< 0.27	< 0.28	< 0.29	< 0.29	< 0.27	< 0.3
Isophrone	40	< 0.25	< 0.25	< 0.26	NA	< 0.26	< 0.26	< 0.26	< 0.27	< 0.27	< 0.26	< 0.28
Nitrobenzene	6	< 0.25	< 0.25	< 0.27	NA	< 0.26	< 0.26	< 0.27	< 0.28	< 0.28	< 0.26	< 0.28
N-Nitroso-di-n-Propylamine	10	< 0.44	< 0.44	< 0.47	NA	< 0.46	< 0.46	< 0.46	< 0.48	< 0.48	< 0.46	< 0.49
N-Nitrosodiphenylamine	10	< 0.22	< 0.22	< 0.23	NA	< 0.22	< 0.22	< 0.23	< 0.23	< 0.23	< 0.22	< 0.24
Phenol	2000	< 0.65 J	< 0.58	< 0.61	NA	< 0.6	< 0.6	< 0.61	< 0.63	< 0.63	< 0.6	< 0.65
Total TIC, Semi-Volatile	NS	0	NA	0	NA	0	0	0	0	0	0	NA

Table 5. Summary of Ground Water Analytical Results, Ringw

Location ID	GWQS[1]	OB-14B	OB-15B	OB-16	OB-16	OB-17	OB-18	OB-19	OB-20A	OB-20B	OB-21	OB-24
Sample ID		OB-14B(102309)	OB-15B(102609)	OB-16(102309)	OB-16	OB-17(102309)	OB-18(102309)	OB-19(102709)	OB-20A(102809)	OB-20B(102809)	OB-21(102709)	OB-24(102609)
Sample Date		10/23/2009	10/26/2009	10/23/2009	10/29/2009	10/23/2009	10/23/2009	10/27/2009	10/28/2009	10/28/2009	10/27/2009	10/26/2009
Validation Status		Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
SVOC BY SIM												
Acenaphthene	400	< 0.029	< 0.029	< 0.031	NA	< 0.03	< 0.03	< 0.031	< 0.032	< 0.032	< 0.03	< 0.033
Acenaphthylene	NS	< 0.039	< 0.039	< 0.042	NA	< 0.041	< 0.041	< 0.041	< 0.043	< 0.043	< 0.041	< 0.044
Anthracene	2000	< 0.026	< 0.026	< 0.027	NA	< 0.027	< 0.027	< 0.027	< 0.028	< 0.028	< 0.027	< 0.029
Benzo(a)anthracene	0.1 [0.2]	< 0.024	< 0.024	< 0.025	NA	< 0.025	< 0.025	< 0.025	< 0.026	< 0.026	< 0.025	< 0.027
Benzo(a)pyrene	0.1 [0.2]	< 0.031	< 0.031	< 0.033	NA	< 0.032	< 0.032	< 0.032	< 0.033	< 0.033	< 0.032	< 0.035
Benzo(b)fluoranthene	0.2 [10]	< 0.036	< 0.036	< 0.038	NA	< 0.037	< 0.037	< 0.038	< 0.039	< 0.039	< 0.037	< 0.04
Benzo(g,h,i)perylene	NS	< 0.029	< 0.029	< 0.031	NA	< 0.03	< 0.03	< 0.03	< 0.031	< 0.031	< 0.03	< 0.032
Benzo(k)fluoranthene	0.5	< 0.028	< 0.028	< 0.03	NA	< 0.029	< 0.029	< 0.03	< 0.031	< 0.031	< 0.029	< 0.032
Chrysene	5	< 0.022	< 0.022	< 0.023	NA	< 0.023	< 0.023	< 0.023	< 0.024	< 0.024	< 0.023	< 0.025
Dibenzo(a,h)anthracene	0.3 [0.5]	< 0.023	< 0.023	< 0.024	NA	< 0.023	< 0.023	< 0.024	< 0.024	< 0.024	< 0.023	< 0.025
Fluoranthene	300	< 0.024	< 0.024	< 0.026	NA	< 0.025	< 0.025	< 0.026	< 0.026	< 0.026	< 0.025	< 0.027
Fluorene	300	< 0.027	< 0.027	< 0.029	NA	< 0.028	< 0.028	< 0.028	< 0.029	< 0.029	< 0.028	< 0.03
Hexachlorobenzene	0.02 [10]	< 0.0099	< 0.0099	< 0.011	NA	< 0.01	< 0.01	< 0.01	< 0.011	< 0.011	< 0.01	< 0.011
Indeno(1,2,3-cd)pyrene	0.2 [10]	< 0.029	< 0.029	< 0.031	NA	< 0.03	< 0.03	< 0.031	< 0.032	< 0.032	< 0.03	< 0.033
Naphthalene	300	< 0.019	< 0.019	< 0.02	NA	< 0.019	< 0.019	< 0.019	< 0.02	< 0.02	< 0.019	< 0.021
Pentachlorophenol	0.3 [1]	< 0.22	< 0.22	< 0.24	NA	< 0.23	< 0.23	< 0.23	< 0.24 J	< 0.24 J	< 0.23	< 0.25
Phenanthrene	NS	< 0.036	< 0.036	< 0.038	NA	< 0.038	< 0.038	< 0.038	< 0.039	< 0.039	< 0.038	< 0.041
Pyrene	200	< 0.022	< 0.022	< 0.024	NA	< 0.023	< 0.023	< 0.023	< 0.024	< 0.024	< 0.023	< 0.025
PCBs												
PCB 1016	0.5	< 0.3	< 0.35	< 0.31	NA	< 0.3	< 0.3	< 0.3	< 0.33	< 0.33	< 0.3	< 0.3
PCB 1221	0.5	< 0.41	< 0.48	< 0.42	NA	< 0.41	< 0.41	< 0.41	< 0.45	< 0.46	< 0.41	< 0.41
PCB 1232	0.5	< 0.31	< 0.36	< 0.32	NA	< 0.31	< 0.31	< 0.31	< 0.34	< 0.34	< 0.31	< 0.31
PCB 1242	0.5	< 0.27	< 0.32	< 0.28	NA	< 0.27	< 0.27	< 0.27	< 0.29	< 0.3	< 0.27	< 0.27
PCB 1248	0.5	< 0.28	< 0.33	< 0.29	NA	< 0.28	< 0.28	< 0.28	< 0.3	< 0.31	< 0.28	< 0.28
PCB 1254	0.5	< 0.18	< 0.21	< 0.19	NA	< 0.18	< 0.18	< 0.18	< 0.2	< 0.2	< 0.18	< 0.18
PCB 1260	0.5	< 0.14	< 0.16	< 0.14	NA	< 0.14	< 0.14	< 0.14	< 0.15	< 0.16	< 0.14	< 0.14
Total PCBs	0.5	0	0	0	NA	0	0	0	0	0	0	0
Metals - Total												
Aluminum	200	57.9 B	127 B	< 26	NA	< 26	57.3 B	114 J	158 B	27.4 B	**336 J**	**250**
Antimony	6	< 2.9	< 2.9	< 2.9	NA	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9
Arsenic	3 [8]	< 2.4	< 2.4	**6.1**	NA	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4
Barium	2000	40.2 B	18 B	90.4 B	NA	12 B	8.5 B	109 B	160 B	50.5 B	7.2 B	38.9 B
Beryllium	1	< 0.4	< 0.4	< 0.4	NA	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
Cadmium	4	< 0.4	< 0.4	< 0.4	NA	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
Calcium	NS	90000	24300	141000	NA	94300	44700	20400	33700	41200	12300	96800
Chromium	70	< 10	2.4 B	0.9 B	NA	1.1 B	2.6 B	1.2 B	< 10	< 10	< 0.9	< 0.9
Cobalt	NS	< 1.6	< 1.6	< 1.6	NA	< 1.6	< 1.6	< 1.6	< 1.6	17.8 B	< 1.6	< 1.6
Copper	1,300	< 1.6	< 1.6	< 1.6	NA	< 1.6	< 1.6	< 1.6 J	< 1.6	< 1.6	< 1.6 J	< 1.6
Iron	300	**719**	169	**13200**	NA	**1730**	85.4 B	**20500**	**30900 J**	**26100 J**	**380**	**493**
Lead	5	< 1.7	< 1.7	< 1.7	NA	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
Magnesium	NS	31200	5860	19500	NA	29400	8980	3530 B	3370 B	7160	4160 B	23400
Manganese	50	**1630**	**1970**	**3440**	NA	**462**	8.5 B	**394 J**	**964**	**6230**	18.1 J	**341**
Mercury	2	< 0.082 J	< 0.082	< 0.082	NA	< 0.082	< 0.082	< 0.082	< 0.082	< 0.082	< 0.082	< 0.082
Nickel	100	< 10	7.8 B	< 10	NA	< 10	< 10	1.4 J	1.8 B	3.6 B	1.4 J	0.8 B
Potassium	NS	3710 B	809 B	10100	NA	878 B	427 B	1370 B	2840 J	2200 J	1060 B	2300 B
Selenium	40	< 3.7	< 3.7	< 3.7	NA	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7
Silver	40	< 1	< 1	< 1	NA	< 1	< 1	< 1	< 1	1.2 B	< 1	< 1
Sodium	50,000	28800	4390 B	27900	NA	16800	6490 B	3500 B	3290 B	3930 B	3620 B	14900
Thallium	2 [10]	< 1.5	< 1.5	< 1.5	NA	< 1.5	< 1.5	< 1.5	1.5 B	1.6 B	< 1.5	< 1.5
Vanadium	NS	< 0.9	2.1 B	< 0.9	NA	< 0.9	< 0.9	1.8 B	< 0.9	< 0.9	< 0.9	1.6 B
Zinc	2000	< 2.9	< 2.9	< 2.9	NA	3.5 J	3.6 J	10.3 B	18.4 B	9.7 B	4.3 B	9.6 B

Table 5. Summary of Ground Water Analytical Results, Ringw

Location ID		OB-14B	OB-15B	OB-16	OB-16	OB-17	OB-18	OB-19	OB-20A	OB-20B	OB-21	OB-24
Sample ID	GWQS[1]	OB-14B(102309)	OB-15B(102609)	OB-16(102309)	OB-16	OB-17(102309)	OB-18(102309)	OB-19(102709)	OB-20A(102809)	OB-20B(102809)	OB-21(102709)	OB-24(102609)
Sample Date		10/23/2009	10/26/2009	10/23/2009	10/29/2009	10/23/2009	10/23/2009	10/27/2009	10/28/2009	10/28/2009	10/27/2009	10/26/2009
Validation Status		Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
Metals - Dissolved												
Aluminum	200	< 26	29.7 B	< 26	NA	< 26	< 26	< 26 J	< 26	43 B	< 26 J	133 B
Antimony	6	< 2.9	< 2.9	< 2.9	NA	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9
Arsenic	3 [8]	< 2.4	< 2.4	< 2.4	NA	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4
Barium	2000	39.9 B	< 1.3	68 B	NA	11.3 B	7.7 B	97.3 B	141 B	36.5 B	5.2 B	36 B
Beryllium	1	< 0.4	< 0.4	< 0.4	NA	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
Cadmium	4	< 0.4	< 0.4	< 0.4	NA	< 0.4	< 0.4	< 0.4	< 0.4	0.4 B	< 0.4	< 0.4
Calcium	NS	92100	24000	139000	NA	94100	44800	20100	33900	39700	12100	98300
Chromium	70	1.3 B	2.2 B	< 0.9	NA	1.2 B	1.9 B	< 0.9	< 10	< 10	< 0.9	< 0.9
Cobalt	NS	< 1.6	< 1.6	< 1.6	NA	< 1.6	< 1.6	< 1.6	< 1.6	17.8 B	< 1.6	< 1.6
Copper	1,300	< 1.6	< 1.6	< 1.6	NA	< 1.6	< 1.6	< 1.6 J	< 1.6	< 1.6	< 1.6 J	< 1.6
Iron	300	54.2 B	< 12	**907**	NA	110	< 12	**12700**	**20600 J**	**1040 J**	15.2 B	< 12
Lead	5	< 1.7	< 1.7	< 1.7	NA	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
Magnesium	NS	31400	5810	19300	NA	29200	9010	3460 B	3360 B	7190	4020 B	24000
Manganese	50	**1660**	12.2 B	**3410**	NA	**457**	< 15	**386 J**	**979**	**6530**	1.7 J	**147**
Mercury	2	**2.2 J**	< 0.082	< 0.082 J	NA	< 0.082 J	< 0.082 J	< 0.082	< 0.082	< 0.082	< 0.082	< 0.082
Nickel	100	< 10	< 0.6	< 10	NA	< 10	< 10	1.6 J	1.9 B	4.4 B	1 J	< 0.6
Potassium	NS	3730 B	746 B	9990 B	NA	870 B	417 B	1380 B	2780 B	2180 B	930 B	2280 B
Selenium	40	< 3.7	< 3.7	< 3.7	NA	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7
Silver	40	< 1	< 1	< 1	NA	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Sodium	50,000	28900	4460 B	27400	NA	16500	6450 B	3600 B	3240 B	3920 B	3700 B	15300
Thallium	2 [10]	< 1.5	< 1.5	< 1.5	NA	< 1.5	< 1.5	< 1.5	1.9 B	< 1.5	< 1.5	< 1.5
Vanadium	NS	< 0.9	< 0.9	< 0.9	NA	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9
Zinc	2000	3.5 B	6.8 B	3.8 B	NA	4.2 B	5.3 B	11.9 B	14.4 B	5.7 B	6.9 B	9.2 B
Other												
Alkalinity, total (as CaCO3)	NS	366000	73000	431000	NA	349000	155000	70900	98600	156000	42500	216000
Chloride	250000	35300	< 2000	49800	NA	6800	< 2000	< 2000	< 2000	< 2000	< 2000	86900
Sulfate	250000	14000	15100	14900	NA	46500	14100	< 10000	< 10000	< 10000	11700	32700

Footnotes on page 33.

Table 5. Summary of Ground Water Analytical Results, Ringw

Location ID	GWQS[1]	OB-25	OB-26	PM AIR SHAFT	PM AIR SHAFT	RW-1	RW-1	RW-1	RW-1	RW-1	RW-2
Sample ID		OB-25(102609)	OB-26(102209)	PMAIR SHAFT-180	PMAIR SHAFT-230	RW-1(11-31)	RW-1(59-79)	RW-1(59-79) Dup	RW-1(98-118)	RW-1(126-146)	RW-2(20-50) (10/26/2009)
Sample Date		10/26/2009	10/22/2009	10/29/2009	10/29/2009	10/20/2009	10/20/2009	10/20/2009	10/20/2009	10/20/2009	10/26/2009
Validation Status		Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
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
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
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
1,1-Dichloroethane	50	< 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
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
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*
1,2-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*
1,2-Dichlorobenzene	600	< 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
1,2-Dichloropropane	1	< 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	0.76 J	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
1,4-Dichlorobenzene	75	< 0.28	< 0.28	0.48 J	3.3	< 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	2.4 J	< 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
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
Acetone	6000	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	13.7	< 2.9
Benzene	1	< 0.23	< 0.23	0.6 J	**31.2**	< 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	0.6 J
Bromoform	4	< 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
Carbon disulfide	700	< 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
Chlorobenzene	50	< 0.39	< 0.39	0.49 J	6.8	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39
Chloroethane	NS	< 0.37	< 0.37	0.39 J	21.3	< 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	16.1 J
Chloromethane	NS	< 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
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
Cyclohexane	NS	< 1.9	< 1.9	< 1.9	2 J	< 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
Dichlorodifluoromethane	1,000	< 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
Freon 113	NS	< 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	0.67 J	5.7	< 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
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
Methylcyclohexane	NS	< 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
o-Xylene	NS	< 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
Tetrachloroethene	1	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27
Toluene	1000	0.72 J	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	24.3	< 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
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
Trichloroethene	1	< 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
Vinyl Chloride	1	< 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	0.94 J	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Xylenes	1,000	< 0.25	< 0.25	< 0.25	0.94 J	< 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

Table 5. Summary of Ground Water Analytical Results, Ringw

Location ID		OB-25	OB-26	PM AIR SHAFT	PM AIR SHAFT	RW-1	RW-1	RW-1	RW-1	RW-1	RW-2
Sample ID	GWQS[1]	OB-25(102609)	OB-26(102209)	PMAIR SHAFT-180	PMAIR SHAFT-230	RW-1(11-31)	RW-1(59-79)	RW-1(59-79) Dup	RW-1(98-118)	RW-1(126-146)	RW-2(20-50) (10/26/2009)
Sample Date		10/26/2009	10/22/2009	10/29/2009	10/29/2009	10/20/2009	10/20/2009	10/20/2009	10/20/2009	10/20/2009	10/26/2009
Validation Status		Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
SVOC											
1,1'-Biphenyl	400	< 0.47	< 0.42	< 0.47	< 0.45	< 0.44	< 0.46	< 0.47	< 0.46	< 0.47	< 0.47
2,4,5-Trichlorophenol	700	< 1.5	< 1.3	< 1.5	< 1.4	< 1.4	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
2,4,6-Trichlorophenol	20	< 1.4	< 1.2	< 1.4	< 1.3	< 1.3	< 1.3	< 1.4	< 1.3	< 1.4	< 1.4
2,4-Dichlorophenol	20	< 1.4	< 1.2	< 1.4	< 1.3	< 1.3	< 1.3	< 1.4	< 1.3	< 1.4	< 1.4
2,4-Dimethylphenol	100	< 1.9	< 1.7	< 1.8	< 1.8	< 1.7	< 1.8	< 1.9	< 1.8	< 1.8	< 1.9
2,4-Dinitrophenol	40	< 0.83	< 0.74	< 0.82	< 0.79	< 0.78	< 0.81	< 0.83	< 0.81	< 0.82	< 0.83
2,4-Dinitrotoluene	NS	< 0.25 J	< 0.22	< 0.24	< 0.24	< 0.23	< 0.24	< 0.25	< 0.24	< 0.24	< 0.25
2,6-Dinitrotoluene	NS	< 0.37	< 0.33	< 0.36	< 0.35	< 0.34	< 0.36	< 0.37	< 0.36	< 0.36	< 0.37
2-Chloronaphthalene	600	< 0.47	< 0.42	< 0.46	< 0.45	< 0.44	< 0.46	< 0.47	< 0.46	< 0.46	< 0.47
2-Chlorophenol	40	< 1.2	< 1.1	< 1.2	< 1.2	< 1.1	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
2-Methylnaphthalene	NS	< 0.74	< 0.66	< 0.73	< 0.71	< 0.69	< 0.72	< 0.74	< 0.72	< 0.73	< 0.74
2-Methylphenol	NS	< 1.3	< 1.1	< 1.2	< 1.2	< 1.2	< 1.2	< 1.3	< 1.2	< 1.2	< 1.3
2-Nitroaniline	NS	< 0.26	< 0.24	< 0.26	< 0.25	< 0.25	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
2-Nitrophenol	NS	< 1.4	< 1.2	< 1.4	< 1.3	< 1.3	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
3&4-Methylphenol	NS	< 1.2	< 1	< 1.2	< 1.1	< 1.1	< 1.1	< 1.2	< 1.1	23.7	< 1.2
3,3'-Dichlorobenzidine	30	< 0.33	< 0.3	< 0.33	< 0.32	< 0.31	< 0.32	< 0.33	< 0.32	< 0.33	< 0.33
3-Nitroaniline	NS	< 0.32	< 0.29	< 0.32	< 0.31	< 0.3	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
4,6-Dinitro-2-methylphenol	NS	< 0.58	< 0.51	< 0.57	< 0.55	< 0.54	< 0.56	< 0.58	< 0.56	< 0.57	< 0.58
4-Bromophenyl phenyl ether	NS	< 0.39	< 0.35	< 0.39	< 0.38	< 0.37	< 0.38	< 0.39	< 0.38	< 0.39	< 0.39
4-Chloro-3-Methylphenol	NS	< 1.2	< 1.1	< 1.2	< 1.1	< 1.1	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
4-Chloroaniline	30	< 0.28	< 0.25	< 0.28	< 0.27	< 0.27	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
4-Chlorophenyl phenyl ether	NS	< 0.4	< 0.35	< 0.39	< 0.38	< 0.37	< 0.39	< 0.4	< 0.39	< 0.39	< 0.4
4-Nitroaniline	NS	< 0.2	< 0.18	< 0.2	< 0.19	< 0.19	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
4-Nitrophenol	NS	< 0.93	< 0.83	< 0.92	< 0.89	< 0.87	< 0.91	< 0.93	< 0.91	< 0.92	< 0.93
Acetophenone	700	< 0.45	< 0.4	< 0.44	< 0.43	< 0.42	< 0.44	< 0.45	< 0.44	< 0.44	< 0.45
Atrazine	3	< 0.44	< 0.39	< 0.43	< 0.42	< 0.41	< 0.43	< 0.44	< 0.43	< 0.43	< 0.44
Benzaldehyde	NS	< 0.45	< 0.4	< 0.45	< 0.43	< 0.43	< 0.44	< 0.45	< 0.44	< 0.45	< 0.45
Benzyl butyl phthalate	100	< 0.28	< 0.25	< 0.28	< 0.27	< 0.26	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
bis(2-Chloroethoxy)methane	NS	< 0.28	< 0.25	< 0.28	< 0.27	< 0.26	< 0.27	< 0.28	< 0.27	< 0.28	< 0.28
bis(2-Chloroethyl)ether	7	< 0.35	< 0.31	< 0.34	< 0.33	< 0.33	< 0.34	< 0.35	< 0.34	< 0.34	< 0.35
bis(2-Chloroisopropyl)ether	300	< 0.44	< 0.39	< 0.43	< 0.42	< 0.41	< 0.43	< 0.44	< 0.43	< 0.43	< 0.44
bis(2-Ethylhexyl)phthalate	3	< 0.37	< 0.33	**3.4**	**3.5**	< 0.34	< 0.36	< 0.37	< 0.36	< 0.36	< 0.37
Caprolactam	NS	< 0.22	< 0.2	< 0.22	4.4	< 0.21	< 0.21	< 0.22	< 0.21	< 0.22	< 0.22
Carbazole	NS	< 0.19	< 0.17	< 0.18	< 0.18	< 0.17	< 0.18	< 0.19	< 0.18	< 0.18	< 0.19
Dibenzofuran	NS	< 0.34	< 0.3	< 0.34	< 0.33	< 0.32	< 0.33	< 0.34	< 0.33	< 0.34	< 0.34
Diethyl phthalate	6000	< 0.19	< 0.17	< 0.18	< 0.18	< 0.17	< 0.18	< 0.19	< 0.18	< 0.18	< 0.19
Dimethyl phthalate	NS	< 0.25	< 0.23	< 0.25	< 0.24	< 0.24	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
di-n-butyl phthalate	700	< 0.21	< 0.19	< 0.21	< 0.21	< 0.2	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
di-n-octylphthalate	100	< 0.44	< 0.4	< 0.44	< 0.42	< 0.42	< 0.43	< 0.44	< 0.43	< 0.44	< 0.44
Hexachlorobutadiene	1	< 0.42 J	< 0.37	< 0.41	< 0.4	< 0.39	< 0.41	< 0.42	< 0.41	< 0.41	< 0.42 J
Hexachlorocyclopentadiene	40	< 0.76	< 0.67	< 0.75	< 0.72	< 0.71	< 0.74	< 0.76	< 0.74	< 0.75	< 0.76
Hexachloroethane	7	< 0.3	< 0.26	< 0.29	< 0.28	< 0.28	< 0.29	< 0.3	< 0.29	< 0.29	< 0.3
Isophrone	40	< 0.28	< 0.25	< 0.28	< 0.27	< 0.26	< 0.27	< 0.28	< 0.27	< 0.28	< 0.28
Nitrobenzene	6	< 0.28	< 0.25	< 0.28	< 0.27	< 0.27	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
N-Nitroso-di-n-Propylamine	10	< 0.49	< 0.44	< 0.49	< 0.47	< 0.46	< 0.48	< 0.49	< 0.48	< 0.49	< 0.49
N-Nitrosodiphenylamine	10	< 0.24	< 0.22	< 0.24	1.2 J	< 0.23	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Phenol	2000	< 0.65	< 0.58	< 0.64	< 0.62	< 0.61	< 0.63	< 0.65	< 0.63	< 0.64	< 0.65
Total TIC, Semi-Volatile	NS	82.8 J	0	0	175.5 J	42.9 J	8.5 J	8 J	14.4 J	482.1 J	54.4 J

Table 5. Summary of Ground Water Analytical Results, Ringw

Location ID	GWQS[1]	OB-25	OB-26	PM AIR SHAFT	PM AIR SHAFT	RW-1	RW-1	RW-1	RW-1	RW-1	RW-2
Sample ID		OB-25(102609)	OB-26(102209)	PMAIR SHAFT-180	PMAIR SHAFT-230	RW-1(11-31)	RW-1(59-79)	RW-1(59-79) Dup	RW-1(98-118)	RW-1(126-146)	RW-2(20-50) (10/26/2009)
Sample Date		10/26/2009	10/22/2009	10/29/2009	10/29/2009	10/20/2009	10/20/2009	10/20/2009	10/20/2009	10/20/2009	10/26/2009
Validation Status		Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
SVOC BY SIM											
Acenaphthene	400	< 0.033	< 0.029	< 0.032	< 0.031	< 0.031	< 0.032	< 0.033	< 0.032	< 0.032	< 0.033
Acenaphthylene	NS	< 0.044	< 0.039	< 0.044	< 0.042	< 0.041	< 0.043	< 0.044	< 0.043	< 0.044	< 0.044
Anthracene	2000	< 0.029	< 0.026	< 0.028	< 0.028	< 0.027	< 0.028	< 0.029	< 0.028	< 0.028	< 0.029
Benzo(a)anthracene	0.1 [0.2]	< 0.027	< 0.024	< 0.026	< 0.025	< 0.025	< 0.026	< 0.027	< 0.026	< 0.026	< 0.027
Benzo(a)pyrene	0.1 [0.2]	< 0.035	< 0.031	< 0.034	< 0.033	< 0.032	< 0.034	< 0.035	< 0.034	< 0.034	< 0.035
Benzo(b)fluoranthene	0.2 [10]	< 0.04	< 0.036	< 0.04	< 0.038	< 0.038	< 0.039	< 0.04	< 0.039	< 0.04	< 0.04
Benzo(g,h,i)perylene	NS	< 0.032	< 0.029	< 0.032	< 0.031	< 0.03	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032
Benzo(k)fluoranthene	0.5	< 0.032	< 0.028	< 0.031	< 0.03	< 0.03	< 0.031	< 0.032	< 0.031	< 0.031	< 0.032
Chrysene	5	< 0.025	< 0.022	< 0.024	< 0.024	< 0.023	< 0.024	< 0.025	< 0.024	< 0.024	< 0.025
Dibenzo(a,h)anthracene	0.3 [0.5]	< 0.025	< 0.023	< 0.025	< 0.024	< 0.024	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
Fluoranthene	300	< 0.027	< 0.024	< 0.027	< 0.026	< 0.026	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027
Fluorene	300	< 0.03	< 0.027	< 0.03	< 0.029	< 0.028	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Hexachlorobenzene	0.02 [10]	< 0.011	< 0.0099	< 0.011	< 0.011	< 0.01	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Indeno(1,2,3-cd)pyrene	0.2 [10]	< 0.033	< 0.029	< 0.032	< 0.031	< 0.031	< 0.032	< 0.033	< 0.032	< 0.032	< 0.033
Naphthalene	300	< 0.021	< 0.019	0.425	2.53	< 0.019	< 0.02	< 0.021	< 0.02	< 0.021	< 0.021
Pentachlorophenol	0.3 [1]	< 0.25	< 0.22	< 0.25	< 0.24	< 0.23	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Phenanthrene	NS	< 0.041	< 0.036	< 0.04	< 0.039	< 0.038	< 0.04	< 0.041	< 0.04	< 0.04	< 0.041
Pyrene	200	< 0.025	< 0.022	< 0.025	< 0.024	< 0.023	< 0.024	< 0.025	< 0.024	< 0.025	< 0.025
PCBs											
PCB 1016	0.5	< 0.35	< 0.3	< 0.3	< 0.33	< 0.32	< 0.33	< 0.34	< 0.34	< 0.34	< 0.33
PCB 1221	0.5	< 0.48	< 0.41	< 0.41	< 0.46	< 0.43	< 0.46	< 0.47	< 0.47	< 0.47	< 0.45
PCB 1232	0.5	< 0.36	< 0.31	< 0.31	< 0.34	< 0.33	< 0.34	< 0.35	< 0.35	< 0.35	< 0.34
PCB 1242	0.5	< 0.32	< 0.27	< 0.27	< 0.3	< 0.28	< 0.3	< 0.31	< 0.31	< 0.31	< 0.29
PCB 1248	0.5	< 0.33	< 0.28	< 0.28	< 0.31	< 0.29	< 0.31	< 0.32	< 0.32	< 0.32	< 0.3
PCB 1254	0.5	< 0.21	< 0.18	< 0.18	< 0.2	< 0.19	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
PCB 1260	0.5	< 0.16	< 0.14	< 0.14	< 0.16	< 0.15	< 0.16	< 0.16	< 0.16	< 0.16	< 0.15
Total PCBs	0.5	0	0	0	0	0	0	0	0	0	0
Metals - Total											
Aluminum	200	**3440**	**1280**	28.4 BJ	52 BJ	< 26	< 26	< 26	< 26	63.6 B	**346**
Antimony	6	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9
Arsenic	3 [8]	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4
Barium	2000	35.3 B	25.1 B	31.1 B	643	11 B	4.6 B	4.3 B	4.9 B	29.3 B	20.5 B
Beryllium	1	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
Cadmium	4	< 0.4	< 0.4	< 0.4	1.8 B	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
Calcium	NS	36600	7970	6460	114000	6200	29300	28000	28600	46400	28300
Chromium	70	4.6 B	1.9 B	1 B	3.3 B	< 0.9	< 0.9	< 0.9	< 0.9	1.4 B	< 0.9
Cobalt	NS	3 B	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6
Copper	1,300	95.9	3.5 B	2.5 B	< 1.6	< 1.6	< 1.6	< 1.6	5 B	1.6 B	3.7 B
Iron	300	**5180**	**1200**	**2250**	**162000**	**313**	277 J	**318 J**	**441 J**	**19700**	**2230**
Lead	5	4.3	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
Magnesium	NS	7640	2920 B	1490 B	12500	2290 B	4370 B	4180 B	4140 B	5980	8960
Manganese	50	**137**	**62.5**	**76.9**	**2730**	11.3 J	8.7 J	8.5 J	**52.4**	**937**	**101**
Mercury	2	< 0.082	< 0.082	< 0.082	< 0.082	< 0.082	< 0.082	< 0.082	< 0.082	< 0.082	< 0.082
Nickel	100	6.5 B	< 10	1.1 B	1.3 B	1.2 B	< 0.6	< 0.6	0.9 B	1 B	1.5 B
Potassium	NS	6790 B	1160 B	567 J	7790 BJ	538 B	844 B	807 B	849 B	1600 B	2150 B
Selenium	40	< 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	< 1	< 1	< 1	< 1	< 1	< 1
Sodium	50,000	37500	2790 B	2340 J	31200 J	2330 B	5480 B	5320 B	5500 B	5640 B	**86600**
Thallium	2 [10]	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Vanadium	NS	6.4 B	< 50	< 0.9	6 B	< 0.9	< 0.9	< 0.9	< 0.9	1.9 B	2.2 B
Zinc	2000	24.8	19.9 J	54.5	69.8	1240	122	126	96.8	533	1060

Table 5. Summary of Ground Water Analytical Results, Ringw

Location ID	GWQS[1]	OB-25	OB-26	PM AIR SHAFT	PM AIR SHAFT	RW-1	RW-1	RW-1	RW-1	RW-1	RW-2
Sample ID		OB-25(102609)	OB-26(102209)	PMAIR SHAFT-180	PMAIR SHAFT-230	RW-1(11-31)	RW-1(59-79)	RW-1(59-79) Dup	RW-1(98-118)	RW-1(126-146)	RW-2(20-50) (10/26/2009)
Sample Date		10/26/2009	10/22/2009	10/29/2009	10/29/2009	10/20/2009	10/20/2009	10/20/2009	10/20/2009	10/20/2009	10/26/2009
Validation Status		Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
Metals - Dissolved											
Aluminum	200	104 B	< 26	< 26 J	< 26 J	< 26	< 26	< 26	< 26	28.3 B	39.6 B
Antimony	6	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9
Arsenic	3 [8]	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4
Barium	2000	17.7 B	18 B	31 BJ	358 J	10.4 B	4.3 B	4.2 B	4.8 B	29.6 B	19.3 B
Beryllium	1	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
Cadmium	4	< 0.4	< 0.4	< 0.4	< 3	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
Calcium	NS	38200	7630	6580	105000	6380	29600	28500	29900	48300	28500
Chromium	70	< 0.9	0.9 B	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	1.3 B	< 0.9
Cobalt	NS	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6
Copper	1,300	6.1 B	< 1.6	1.7 B	< 1.6	5.2 B	< 1.6	< 1.6	< 1.6	< 1.6	2 B
Iron	300	55 B	20.3 B	180 J	**100000 J**	222	42.4 B	39.2 B	25.1 B	**15700**	< 12
Lead	5	2 B	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
Magnesium	NS	7090	2510 B	1520 B	11700	2340 B	4390 B	4260 B	4310 B	6150	8720
Manganese	50	2.8 B	39.9	24	**2560**	11.2 B	7.2 B	7.2 B	46.1	**940**	**63.3**
Mercury	2	< 0.082	< 0.082 J	< 0.082	< 0.082	< 0.082	< 0.082	< 0.082	< 0.082	< 0.082	< 0.082
Nickel	100	1.7 B	< 10	< 10	< 10	1 B	< 0.6	< 0.6	0.6 B	0.9 B	2.1 B
Potassium	NS	6530 B	874 B	538 J	7280 BJ	536 B	823 B	813 B	828 B	1570 B	2130 B
Selenium	40	< 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	< 1	< 1	< 1	< 1	< 1	< 1
Sodium	50,000	40000	2660 B	2410 J	29800 J	2380 B	5450 B	5360 B	5520 B	5690 B	**88300**
Thallium	2 [10]	< 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	< 50	< 0.9	< 0.9	< 0.9	< 0.9	1.6 B	< 0.9
Zinc	2000	39.1	< 20	44	63.8	1240	111	105	82.2	414	999
Other											
Alkalinity, total (as CaCO3)	NS	108000	21300	20700	489000	21300	76300	75800	77400	131000	78500
Chloride	250000	61900	< 2000	< 2000	10900	2900	3500	3500	3200	4000	144000
Sulfate	250000	24700	13800	< 10000	< 10000	< 10000	19600	20000	20800	< 10000	19200

Footnotes on page 33.

Table 5. Summary of Ground Water Analytical Results, Ringw

Location ID	GWQS[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-2(20-50) (10/26/2009) Dup	RW-2(103-133)	RW-2(162-192)	RW-2(279-309)	RW-2(441-472)	RW-3(62-98)	RW-4(57-77)	RW-4(108-128)	RW-4(328-348)	RW-4(388-408)	RW-5(102709)
Sample Date		10/26/2009	10/27/2009	10/27/2009	10/27/2009	10/28/2009	10/19/2009	10/21/2009	10/22/2009	10/23/2009	10/23/2009	10/27/2009
Validation Status		Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
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	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29
1,1-Dichloroethene	1	< 0.4 J	< 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 J	< 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	< 0.23	< 0.23	< 0.23
Bromodichloromethane	1	0.57 J	0.37 J	0.39 J	< 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 J	< 0.3 J	< 0.3 J	< 0.3 J	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3 J
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	< 0.37	< 0.37	7.4
Chloroform	70	15.5	15.3	15.5	10.8	3.5	< 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	< 0.27	< 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	< 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	< 0.23	< 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
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	< 0.25	< 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	0.31 J	0.41 J	< 0.3	0.32 J	< 0.3	< 0.3	0.63 J	0.57 J	0.53 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
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	< 0.25	< 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
Total TIC, Volatile	NS	0	0	0	0	0	0	0	0	0	0	0

Table 5. Summary of Ground Water Analytical Results, Ringw

Location ID	GWQS[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-2(20-50) (10/26/2009) Dup	RW-2(103-133)	RW-2(162-192)	RW-2(279-309)	RW-2(441-472)	RW-3(62-98)	RW-4(57-77)	RW-4(108-128)	RW-4(328-348)	RW-4(388-408)	RW-5(102709)
Sample Date		10/26/2009	10/27/2009	10/27/2009	10/27/2009	10/28/2009	10/19/2009	10/21/2009	10/22/2009	10/23/2009	10/23/2009	10/27/2009
Validation Status		Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
SVOC												
1,1'-Biphenyl	400	< 0.47	< 0.45	< 0.45	< 0.46	< 0.46	< 0.45	< 0.47	< 0.47	< 0.47	< 0.48	< 0.46
2,4,5-Trichlorophenol	700	< 1.5	< 1.4	< 1.4	< 1.5	< 1.5	< 1.4	< 1.5	< 1.5	< 1.5	< 1.5	< 1.4
2,4,6-Trichlorophenol	20	< 1.4	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.4	< 1.4	< 1.4	< 1.4	< 1.3
2,4-Dichlorophenol	20	< 1.4	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.4	< 1.4	< 1.4	< 1.4	< 1.3
2,4-Dimethylphenol	100	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.9	< 1.8	< 1.9	< 1.8
2,4-Dinitrophenol	40	< 0.82	< 0.79 J	< 0.79 J	< 0.81 J	< 0.81	< 0.79	< 0.82	< 0.83	< 0.82	< 0.84	< 0.8 J
2,4-Dinitrotoluene	NS	< 0.24	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24	< 0.24	< 0.25	< 0.24	< 0.25	< 0.24 J
2,6-Dinitrotoluene	NS	< 0.36	< 0.35	< 0.35	< 0.36	< 0.36	< 0.35	< 0.36	< 0.37	< 0.36	< 0.37	< 0.35
2-Chloronaphthalene	600	< 0.46	< 0.45	< 0.45	< 0.46	< 0.46	< 0.45	< 0.46	< 0.47	< 0.46	< 0.47	< 0.45
2-Chlorophenol	40	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
2-Methylnaphthalene	NS	< 0.73	< 0.71	< 0.71	< 0.72	< 0.72	< 0.71	< 0.73	< 0.74	< 0.73	< 0.75	< 0.72
2-Methylphenol	NS	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.3	< 1.2	< 1.3	< 1.2
2-Nitroaniline	NS	< 0.26	< 0.25	< 0.25	< 0.26	< 0.26	< 0.25	< 0.26	< 0.26	< 0.26	< 0.27	< 0.26
2-Nitrophenol	NS	< 1.4	< 1.3	< 1.3	< 1.4	< 1.4	< 1.3	< 1.4	< 1.4	< 1.4	< 1.4	< 1.3
3&4-Methylphenol	NS	< 1.2	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.2	< 1.2	< 1.2	< 1.2	< 1.1
3,3'-Dichlorobenzidine	30	< 0.33	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.33	< 0.33	< 0.33	< 0.34	< 0.32
3-Nitroaniline	NS	< 0.32	< 0.31	< 0.31	< 0.32	< 0.32	< 0.31	< 0.32	< 0.32	< 0.32	< 0.33	< 0.31
4,6-Dinitro-2-methylphenol	NS	< 0.57	< 0.55	< 0.55	< 0.56	< 0.56	< 0.55	< 0.57	< 0.58	< 0.57	< 0.58	< 0.56
4-Bromophenyl phenyl ether	NS	< 0.39	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.39	< 0.39	< 0.39	< 0.4	< 0.38
4-Chloro-3-Methylphenol	NS	< 1.2	< 1.1	< 1.1	< 1.2	< 1.2	< 1.1	< 1.2	< 1.2	< 1.2	< 1.2	< 1.1
4-Chloroaniline	30	< 0.28	< 0.27	< 0.27	< 0.28	< 0.28	< 0.27	< 0.28	< 0.28	< 0.28	< 0.29	< 0.28
4-Chlorophenyl phenyl ether	NS	< 0.39	< 0.38	< 0.38	< 0.39	< 0.39	< 0.38	< 0.39	< 0.4	< 0.39	< 0.4	< 0.38
4-Nitroaniline	NS	< 0.2	< 0.19	< 0.19	< 0.2	< 0.2	< 0.19	< 0.2	< 0.2	< 0.2	< 0.2	< 0.19
4-Nitrophenol	NS	< 0.92	< 0.89	< 0.89	< 0.91	< 0.91	< 0.89	< 0.92	< 0.93	< 0.92 J	< 0.94	< 0.9
Acetophenone	700	< 0.44	< 0.43	< 0.43	< 0.44	< 0.44	< 0.43	< 0.44	< 0.45	< 0.44	< 0.45	< 0.43
Atrazine	3	< 0.43	< 0.42 J	< 0.42 J	< 0.43 J	< 0.43	< 0.42	< 0.43	< 0.44	< 0.43	< 0.44	< 0.43 J
Benzaldehyde	NS	< 0.45	< 0.43	< 0.43	< 0.44	< 0.44	< 0.43	< 0.45	< 0.45	< 0.45	< 0.46	< 0.44
Benzyl butyl phthalate	100	< 0.28	< 0.27	< 0.27	< 0.28	< 0.28	< 0.27	< 0.28	< 0.28	< 0.28	< 0.29	< 0.27
bis(2-Chloroethoxy)methane	NS	< 0.28	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.28	< 0.28	< 0.28	< 0.28	< 0.27
bis(2-Chloroethyl)ether	7	< 0.34	< 0.33	< 0.33	< 0.34	< 0.34	< 0.33	< 0.34	< 0.35	< 0.34	< 0.35	< 0.34
bis(2-Chloroisopropyl)ether	300	< 0.43	< 0.42	< 0.42	< 0.43	< 0.43	< 0.42	< 0.43	< 0.44	< 0.43	< 0.44	< 0.42
bis(2-Ethylhexyl)phthalate	3	< 0.36	< 0.35	< 0.35	< 0.36	< 2.2 J	< 0.35	< 0.36	< 0.37	< 0.36	< 0.37	< 0.36
Caprolactam	NS	< 0.22	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.22	< 0.22	< 0.22	< 0.22	< 0.21
Carbazole	NS	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.19	< 0.18	< 0.19	< 0.18
Dibenzofuran	NS	< 0.34	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.34	< 0.34	< 0.34	< 0.35	< 0.33
Diethyl phthalate	6000	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.19	< 0.18	< 0.19	< 0.18
Dimethyl phthalate	NS	< 0.25	< 0.24	< 0.24	< 0.25	< 0.25	< 0.24	< 0.25	< 0.25	< 0.25	< 0.26	< 0.24
di-n-butyl phthalate	700	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.22	< 0.21
di-n-octylphthalate	100	< 0.44	< 0.42	< 0.42	< 0.43	< 0.43	< 0.42	< 0.44	< 0.44	< 0.44	< 0.45	< 0.43
Hexachlorobutadiene	1	< 0.41 J	< 0.4	< 0.4	< 0.41	< 0.41 J	< 0.4	< 0.41	< 0.42	< 0.41	< 0.42	< 0.4
Hexachlorocyclopentadiene	40	< 0.75	< 0.72	< 0.72	< 0.74	< 0.74	< 0.72	< 0.75	< 0.76	< 0.75	< 0.76	< 0.73
Hexachloroethane	7	< 0.29	< 0.28	< 0.28	< 0.29	< 0.29	< 0.28	< 0.29	< 0.3	< 0.29	< 0.3	< 0.29
Isophrone	40	< 0.28	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.28	< 0.28	< 0.28	< 0.28	< 0.27
Nitrobenzene	6	< 0.28	< 0.27	< 0.27	< 0.28	< 0.28	< 0.27	< 0.28	< 0.28	< 0.27 J	< 0.27 J	< 0.28
N-Nitroso-di-n-Propylamine	10	< 0.49	< 0.47	< 0.47	< 0.48	< 0.48	< 0.47	< 0.49	< 0.49	< 0.49	< 0.5	< 0.48
N-Nitrosodiphenylamine	10	< 0.24	< 0.23	< 0.23	< 0.24	< 0.24	< 0.23	< 0.24	< 0.24	< 0.24	< 0.24	< 0.23
Phenol	2000	< 0.64	< 0.62	< 0.62	< 0.63	< 0.63	< 0.62	< 0.64	< 0.65	< 0.64	< 0.66	< 0.63
Total TIC, Semi-Volatile	NS	52.7 J	28 J	38 J	0	0	23.8 J	28.1 J	5.3 J	0	9.9 J	0

Table 5. Summary of Ground Water Analytical Results, Ringw

Location ID	GWQS[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-2(20-50) (10/26/2009) Dup	RW-2(103-133)	RW-2(162-192)	RW-2(279-309)	RW-2(441-472)	RW-3(62-98)	RW-4(57-77)	RW-4(108-128)	RW-4(328-348)	RW-4(388-408)	RW-5(102709)
Sample Date		10/26/2009	10/27/2009	10/27/2009	10/27/2009	10/28/2009	10/19/2009	10/21/2009	10/22/2009	10/23/2009	10/23/2009	10/27/2009
Validation Status		Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
SVOC BY SIM												
Acenaphthene	400	< 0.032	< 0.031	< 0.031	< 0.032	< 0.032	< 0.031	< 0.032	< 0.033	< 0.032	< 0.033	< 0.032
Acenaphthylene	NS	< 0.044	< 0.042	< 0.042	< 0.043	< 0.043	< 0.042	< 0.044	< 0.044	< 0.044	< 0.045	< 0.043
Anthracene	2000	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.028	< 0.029	< 0.028	< 0.029	< 0.028
Benzo(a)anthracene	0.1 [0.2]	< 0.026	< 0.025	< 0.025	< 0.026	< 0.026	< 0.025	< 0.026	< 0.027	< 0.026	< 0.027	< 0.026
Benzo(a)pyrene	0.1 [0.2]	< 0.034	< 0.033	< 0.033	< 0.034	< 0.034	< 0.033	< 0.034	< 0.035	< 0.034	< 0.035	< 0.033
Benzo(b)fluoranthene	0.2 [10]	< 0.04	< 0.038	< 0.038	< 0.039	< 0.039	< 0.038	< 0.04	< 0.04	< 0.04	< 0.041	< 0.039
Benzo(g,h,i)perylene	NS	< 0.032	< 0.031	< 0.031	< 0.032	< 0.032	< 0.031	< 0.032	< 0.032	< 0.032	< 0.033	< 0.031
Benzo(k)fluoranthene	0.5	< 0.031	< 0.03	< 0.03	< 0.031	< 0.031	< 0.03	< 0.031	< 0.032	< 0.031	< 0.032	< 0.031
Chrysene	5	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.025	< 0.024	< 0.025	< 0.024
Dibenzo(a,h)anthracene	0.3 [0.5]	< 0.025	< 0.024	< 0.024	< 0.025	< 0.025	< 0.024	< 0.025	< 0.025	< 0.025	< 0.026	< 0.024
Fluoranthene	300	< 0.027	< 0.026	< 0.026	< 0.027	< 0.027	< 0.026	< 0.027	< 0.027	< 0.027	< 0.028	< 0.026
Fluorene	300	< 0.03	< 0.029	< 0.029	< 0.03	< 0.03	< 0.029	< 0.03	< 0.03	< 0.03	< 0.031	< 0.029
Hexachlorobenzene	0.02 [10]	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Indeno(1,2,3-cd)pyrene	0.2 [10]	< 0.032	< 0.031	< 0.031	< 0.032	< 0.032	< 0.031	< 0.032	< 0.033	< 0.032	< 0.033	< 0.032
Naphthalene	300	< 0.021	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.021	< 0.021	< 0.021	< 0.021	< 0.02
Pentachlorophenol	0.3 [1]	< 0.25	< 0.24	< 0.24	< 0.25	< 0.25 J	< 0.24	< 0.25	< 0.25	< 0.25	< 0.25	< 0.24
Phenanthrene	NS	< 0.04	< 0.039	< 0.039	< 0.04	< 0.04	< 0.039	< 0.04	< 0.041	< 0.04	< 0.041	< 0.039
Pyrene	200	< 0.025	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.025	< 0.025	< 0.025	< 0.025	< 0.024
PCBs												
PCB 1016	0.5	< 0.33	< 0.32	< 0.3	< 0.33	< 0.33	< 0.3	< 0.34	< 0.33	< 0.33	< 0.33	< 0.33
PCB 1221	0.5	< 0.46	< 0.44	< 0.41	< 0.46	< 0.46	< 0.41	< 0.47	< 0.46	< 0.45	< 0.46	< 0.46
PCB 1232	0.5	< 0.34	< 0.33	< 0.31	< 0.34	< 0.34	< 0.31	< 0.35	< 0.34	< 0.34	< 0.34	< 0.34
PCB 1242	0.5	< 0.3	< 0.29	< 0.27	< 0.3	< 0.3	< 0.27	< 0.31	< 0.3	< 0.29	< 0.3	< 0.3
PCB 1248	0.5	< 0.31	< 0.3	< 0.28	< 0.31	< 0.31	< 0.28	< 0.32	< 0.31	< 0.3	< 0.31	< 0.31
PCB 1254	0.5	< 0.2	< 0.19	< 0.18	< 0.2	< 0.2	< 0.18	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
PCB 1260	0.5	< 0.16	< 0.15	< 0.14	< 0.16	< 0.16	< 0.14	< 0.16	< 0.16	< 0.15	< 0.16	< 0.16
Total PCBs	0.5	0	0	0	0	0	0	0	0	0	0	0
Metals - Total												
Aluminum	200	**366**	134 J	**301 J**	88.5 J	**363**	< 26	< 26	< 26	< 26	< 26	135 J
Antimony	6	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9
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	21.1 B	22.8 B	23.8 B	26.5 B	132 B	46.2 J	5.7 B	10.2 B	8.7 B	8.7 B	32 B
Beryllium	1	< 0.4	< 0.4	< 0.4	< 0.4	< 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	< 0.4	< 0.4	< 0.4	< 0.4	**11.8**
Calcium	NS	28900	30700	33200	38200	177000	47300	10200	10500	11500	11400	61200
Chromium	70	< 0.9	1.3 B	1.4 B	1 B	< 10	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	4.4 B
Cobalt	NS	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	34.7 B
Copper	1,300	3.9 B	3.4 J	5.9 J	5.8 J	14	2.1 B	< 1.6	< 1.6	1.6 B	3 B	58.6 J
Iron	300	**2290**	**1330**	**2700**	**1660**	**2990 J**	**904**	**3330**	**1600**	**1290 J**	**1310 J**	**9040**
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	9130	8800	9010	10300	46100	12800	3880 B	3940 B	4170 B	4240 B	14600
Manganese	50	**108**	**79.8 J**	**240 J**	**193 J**	**962**	**238**	40.5	26.3	36.3	36.7	**3360 J**
Mercury	2	< 0.082	< 0.082	< 0.082	< 0.082	< 0.082	< 0.082	< 0.082 J	< 0.082	< 0.082	< 0.082	< 0.082
Nickel	100	1.5 B	1.8 J	2.4 J	2.2 J	5.1 B	< 10	< 0.6	< 10	0.7 B	1.8 B	3.6 J
Potassium	NS	2220 B	1810 B	1830 B	1860 B	4330 J	< 10000	1040 B	1150 B	1180 B	1190 B	6860 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	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Sodium	50,000	**90000**	**89200**	**86500**	**90300**	**271000**	7240 B	5520 B	5520 B	5560 B	5630 B	11300
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	2.1 B	1.3 B	2.3 B	< 0.9	2.1 B	< 0.9	< 0.9	< 0.9	0.9 B	1 B	< 0.9
Zinc	2000	1060	**4730**	1870	1170	1870	276	467	**2490**	**2470**	**2500**	108

Table 5. Summary of Ground Water Analytical Results, Ringw

Location ID	GWQS[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-2(20-50) (10/26/2009) Dup	RW-2(103-133)	RW-2(162-192)	RW-2(279-309)	RW-2(441-472)	RW-3(62-98)	RW-4(57-77)	RW-4(108-128)	RW-4(328-348)	RW-4(388-408)	RW-5(102709)
Sample Date		10/26/2009	10/27/2009	10/27/2009	10/27/2009	10/28/2009	10/19/2009	10/21/2009	10/22/2009	10/23/2009	10/23/2009	10/27/2009
Validation Status		Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
Metals - Dissolved												
Aluminum	200	47.6 B	< 26 J	< 26 J	< 26 J	< 26	< 26	< 26	< 26	< 26	< 26	< 26 J
Antimony	6	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9
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	19.7 B	21.7 B	20.2 B	24 B	122 B	45.4 J	5.5 B	10.1 B	7.4 B	8.7 B	27.4 B
Beryllium	1	< 0.4	< 0.4	< 0.4	< 0.4	< 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	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
Calcium	NS	29100	31000	32900	37400	175000	47900	10200	10400	10800	11500	68000
Chromium	70	< 0.9	1 B	< 0.9	< 0.9	< 10	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	1.1 B
Cobalt	NS	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	1.6 B
Copper	1,300	2.1 B	1.6 J	< 1.6 J	2.2 J	2.8 B	< 1.6	< 1.6	< 1.6	< 1.6	7.5 B	< 1.6 J
Iron	300	12.2 B	13.6 B	44.8 B	89.8 B	92.5 J	< 100	270	164	84 J	56.9 J	**1580**
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	8970	8660	8570	9890	45100	12900	3900 B	3930 B	4030 B	4280 B	16100
Manganese	50	**61.8**	48.7 J	**84.8 J**	**112 J**	**554**	**237**	40.2	25.8	13.1 B	36	**3680 J**
Mercury	2	< 0.082	< 0.082	< 0.082	< 0.082	< 0.082	< 0.082	< 0.082 J	< 0.082 J	< 0.082 J	< 0.082 J	< 0.082
Nickel	100	1.3 B	1.5 J	< 10	< 10	4.2 B	< 10	< 0.6	< 10	0.9 B	1 B	3.4 J
Potassium	NS	2150 B	1820 B	1800 B	1820 B	4200 B	< 10000	1040 B	1150 B	1160 B	1210 B	7490 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	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Sodium	50,000	**91100**	**92300**	**87900**	**88900**	**266000**	7280 B	5550 B	5570 B	5540 B	5760 B	12700
Thallium	2 [10]	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	1.5 B	< 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	1070	**4600**	1720	1110	1680	247	476	**2420**	601	**2440**	6.9 B
Other												
Alkalinity, total (as CaCO3)	NS	77400	87700	98600	92100	149000	169000	37600	43600	43600	54500	248000
Chloride	250000	144000	143000	137000	148000	**803000**	10000	< 2000	< 2000	< 2000	< 2000	2000
Sulfate	250000	19200	19200	18800	20100	34500	11100	13900	16100	15200	15100	24000

Footnotes on page 33.

Table 5. Summary of Ground Water Analytical Results, Ringw

Location ID	GWQS[1]	RW-5A	RW-6	RW-6A	RW-7	RW-7	RW-8	RW-8	RW-8	RW-9	RW-9	RW-9
Sample ID		RW-5A(102809)	RW-6(102809)	RW-6A (102809)	RW-7(102709)	RW-7(102709) Dup	RW-8(42-62)	RW-8(158-178)	RW-8(199-219)	RW-9(20-40)	RW-9(80-100)	RW-9(134-154)
Sample Date		10/28/2009	10/28/2009	10/28/2009	10/27/2009	10/27/2009	11/4/2009	11/4/2009	11/4/2009	11/2/2009	11/2/2009	11/2/2009
Validation Status		Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
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	0.61 J	0.57 J	< 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
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	**1.5**	**2.4**	< 0.23	0.41 J	< 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
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 J	< 0.3	< 0.3	< 0.3 J	< 0.3 J	< 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	4.3	1	< 0.37	1.4	< 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
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	< 0.27	< 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	3	< 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	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Methylcyclohexane	NS	< 0.35	< 0.35	0.55 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
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
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	0.66 J	< 0.3	0.32 J	< 0.3	< 0.3	< 0.3	< 0.3	0.77 J	< 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	15.1	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Xylenes	1,000	< 0.25	< 0.25	15.1	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Total TIC, Volatile	NS	0	0	23.7 J	0	0	0	0	0	0	0	0

Table 5. Summary of Ground Water Analytical Results, Ringw

Location ID		RW-5A	RW-6	RW-6A	RW-7	RW-7	RW-8	RW-8	RW-8	RW-9	RW-9	RW-9
Sample ID	GWQS[1]	RW-5A(102809)	RW-6(102809)	RW-6A (102809)	RW-7(102709)	RW-7(102709) Dup	RW-8(42-62)	RW-8(158-178)	RW-8(199-219)	RW-9(20-40)	RW-9(80-100)	RW-9(134-154)
Sample Date		10/28/2009	10/28/2009	10/28/2009	10/27/2009	10/27/2009	11/4/2009	11/4/2009	11/4/2009	11/2/2009	11/2/2009	11/2/2009
Validation Status		Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
SVOC												
1,1'-Biphenyl	400	< 0.46	< 0.42	< 0.45	< 0.45	< 0.43	< 0.46	< 0.42	< 0.46	< 0.43	< 0.45	< 0.45
2,4,5-Trichlorophenol	700	< 1.5	< 1.3	< 1.4	< 1.4	< 1.3	< 1.5	< 1.3	< 1.4	< 1.4	< 1.4	< 1.4
2,4,6-Trichlorophenol	20	< 1.3	< 1.2	< 1.3	< 1.3	< 1.2	< 1.3	< 1.2	< 1.3	< 1.3	< 1.3	< 1.3
2,4-Dichlorophenol	20	< 1.3	< 1.2	< 1.3	< 1.3	< 1.2	< 1.3	< 1.2	< 1.3	< 1.3	< 1.3	< 1.3
2,4-Dimethylphenol	100	< 1.8	< 1.7	< 1.8	< 1.8	< 1.7	< 1.8	< 1.7	< 1.8	< 1.7	< 1.8	< 1.8
2,4-Dinitrophenol	40	< 0.81	< 0.74	< 0.79	< 0.79 J	< 0.75 J	< 0.81	< 0.74	< 0.8	< 0.76	< 0.79	< 0.79
2,4-Dinitrotoluene	NS	< 0.24 J	< 0.22 J	< 0.24 J	< 0.24 J	< 0.22 J	< 0.24	< 0.22	< 0.24	< 0.23	< 0.24	< 0.24
2,6-Dinitrotoluene	NS	< 0.36	< 0.33	< 0.35	< 0.35	< 0.33	< 0.36	< 0.33	< 0.35	< 0.34	< 0.35	< 0.35
2-Chloronaphthalene	600	< 0.46	< 0.42	< 0.45	< 0.45	< 0.42	< 0.46	< 0.42	< 0.45	< 0.43	< 0.45	< 0.45
2-Chlorophenol	40	< 1.2	< 1.1	< 1.2	< 1.2	< 1.1	< 1.2	< 1.1	< 1.2	< 1.1	< 1.2	< 1.2
2-Methylnaphthalene	NS	< 0.72	< 0.66	< 0.71	< 0.71	< 0.67	< 0.72	< 0.66	< 0.72	< 0.68	< 0.71	< 0.71
2-Methylphenol	NS	< 1.2	< 1.1	< 1.2	< 1.2	< 1.1	< 1.2	< 1.1	< 1.2	< 1.2	< 1.2	< 1.2
2-Nitroaniline	NS	< 0.26	< 0.24	< 0.25	< 0.25	< 0.24	< 0.26	< 0.24	< 0.26	< 0.24	< 0.25	< 0.25
2-Nitrophenol	NS	< 1.4	< 1.2	< 1.3	< 1.3	< 1.3	< 1.4	< 1.2	< 1.3	< 1.3	< 1.3	< 1.3
3&4-Methylphenol	NS	< 1.1	< 1	< 1.1	< 1.1	< 1.1	< 1.1	< 1	< 1.1	< 1.1	< 1.1	< 1.1
3,3'-Dichlorobenzidine	30	< 0.32	< 0.3	< 0.32	< 0.32	< 0.3	< 0.32	< 0.3	< 0.32	< 0.3	< 0.32	< 0.32
3-Nitroaniline	NS	< 0.32	< 0.29	< 0.31	< 0.31	< 0.29	< 0.32	< 0.29	< 0.31	< 0.3	< 0.31	< 0.31
4,6-Dinitro-2-methylphenol	NS	< 0.56	< 0.51	< 0.55	< 0.55	< 0.52	< 0.56	< 0.51	< 0.56	< 0.53	< 0.55	< 0.55
4-Bromophenyl phenyl ether	NS	< 0.38	< 0.35	< 0.38	< 0.38	< 0.36	< 0.38	< 0.35	< 0.38	< 0.36	< 0.38	< 0.38
4-Chloro-3-Methylphenol	NS	< 1.2	< 1.1	< 1.1	< 1.1	< 1.1	< 1.2	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1
4-Chloroaniline	30	< 0.28	< 0.25	< 0.27	< 0.27	< 0.26	< 0.28	< 0.25	< 0.28	< 0.26	< 0.27	< 0.27
4-Chlorophenyl phenyl ether	NS	< 0.39	< 0.35	< 0.38	< 0.38	< 0.36	< 0.39	< 0.35	< 0.38	< 0.36	< 0.38	< 0.38
4-Nitroaniline	NS	< 0.2	< 0.18	< 0.19	< 0.19	< 0.18	< 0.2	< 0.18	< 0.19	< 0.18	< 0.19	< 0.19
4-Nitrophenol	NS	< 0.91	< 0.83	< 0.89	< 0.89	< 0.84	< 0.91	< 0.83	< 0.9	< 0.85	< 0.89	< 0.89
Acetophenone	700	< 0.44	< 0.4	< 0.43	< 0.43	< 0.41	< 0.44	< 0.4	< 0.43	< 0.41	< 0.43	< 0.43
Atrazine	3	< 0.43	< 0.39	< 0.42	< 0.42 J	< 0.4 J	< 0.43	< 0.39	< 0.43	< 0.4	< 0.42	< 0.42
Benzaldehyde	NS	< 0.44	< 0.4	< 0.43	< 0.43	< 0.41	< 0.44	< 0.4	< 0.44	< 0.42	< 0.43	< 0.43
Benzyl butyl phthalate	100	< 0.28	< 0.25	< 0.27	< 0.27	< 0.26	< 0.28	< 0.25	< 0.27	< 0.26	< 0.27	< 0.27
bis(2-Chloroethoxy)methane	NS	< 0.27	< 0.25	< 0.27	< 0.27	< 0.25	< 0.27	< 0.25	< 0.27	< 0.26	< 0.27	< 0.27
bis(2-Chloroethyl)ether	7	< 0.34	< 0.31	< 0.33	< 0.33	< 0.32	< 0.34	< 0.31	< 0.34	< 0.32	< 0.33	< 0.33
bis(2-Chloroisopropyl)ether	300	< 0.43	< 0.39	< 0.42	< 0.42	< 0.4	< 0.43	< 0.39	< 0.42	< 0.4	< 0.42	< 0.42
bis(2-Ethylhexyl)phthalate	3	< 2.2 J	< 2 J	< 3.8 J	< 0.35	< 0.33	< 0.36	< 0.33	1.4 J	< 0.34	< 0.35	< 0.35
Caprolactam	NS	< 0.21	< 0.2	< 0.21	< 0.21	< 0.2	< 0.21	< 0.2	< 0.21	< 0.2	< 0.21	< 0.21
Carbazole	NS	< 0.18	< 0.17	< 0.18	< 0.18	< 0.17	< 0.18	< 0.17	< 0.18	< 0.17	< 0.18	< 0.18
Dibenzofuran	NS	< 0.33	< 0.3	< 0.33	< 0.33	< 0.31	< 0.33	< 0.3	< 0.33	< 0.31	< 0.33	< 0.33
Diethyl phthalate	6000	< 0.18	< 0.17	< 0.18	< 0.18	< 0.17	< 0.18	< 0.17	< 0.18	< 0.17	< 0.18	< 0.18
Dimethyl phthalate	NS	< 0.25	< 0.23	< 0.24	< 0.24	< 0.23	< 0.25	< 0.23	< 0.24	< 0.23	< 0.24	< 0.24
di-n-butyl phthalate	700	< 0.21	< 0.19	< 0.21	< 0.21	< 0.19	< 0.21	< 0.19	< 0.21	< 0.2	< 0.21	< 0.21
di-n-octylphthalate	100	< 0.43	< 0.4	< 0.42	< 0.42	< 0.4	< 0.43	< 0.4	< 0.43	< 0.41	< 0.42	< 0.42
Hexachlorobutadiene	1	< 0.41 J	< 0.37 J	< 0.4 J	< 0.4	< 0.38	< 0.41	< 0.37	< 0.4	< 0.38	< 0.4	< 0.4
Hexachlorocyclopentadiene	40	< 0.74	< 0.67	< 0.72	< 0.72	< 0.69	< 0.74	< 0.67	< 0.73	< 0.69	< 0.72	< 0.72
Hexachloroethane	7	< 0.29	< 0.26	< 0.28	< 0.28	< 0.27	< 0.29	< 0.26	< 0.29	< 0.27	< 0.28	< 0.28
Isophrone	40	< 0.27	< 0.25	< 0.27	< 0.27	< 0.25	< 0.27	< 0.25	< 0.27	< 0.26	< 0.27	< 0.27
Nitrobenzene	6	< 0.28	< 0.25	< 0.27	< 0.27	< 0.26	< 0.28	< 0.25	< 0.28	< 0.26	< 0.27	< 0.27
N-Nitroso-di-n-Propylamine	10	< 0.48	< 0.44	< 0.47	< 0.47	< 0.45	< 0.48	< 0.44	< 0.48	< 0.45	< 0.47	< 0.47
N-Nitrosodiphenylamine	10	< 0.24	< 0.22	< 0.23	< 0.23	< 0.22	< 0.24	< 0.22	< 0.23	< 0.22	< 0.23	< 0.23
Phenol	2000	< 0.63	< 0.58	< 0.62	< 0.62	< 0.59	< 0.63	< 0.58	< 0.63	< 0.59	< 0.62	< 0.62
Total TIC, Semi-Volatile	NS	0	4.2 J	43 J	0	0	97.4 J	100 J	67 J	43 J	14 J	11 J

Table 5. Summary of Ground Water Analytical Results, Ringw

Location ID	GWQS[1]	RW-5A	RW-6	RW-6A	RW-7	RW-7	RW-8	RW-8	RW-8	RW-9	RW-9	RW-9
Sample ID		RW-5A(102809)	RW-6(102809)	RW-6A (102809)	RW-7(102709)	RW-7(102709) Dup	RW-8(42-62)	RW-8(158-178)	RW-8(199-219)	RW-9(20-40)	RW-9(80-100)	RW-9(134-154)
Sample Date		10/28/2009	10/28/2009	10/28/2009	10/27/2009	10/27/2009	11/4/2009	11/4/2009	11/4/2009	11/2/2009	11/2/2009	11/2/2009
Validation Status		Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
SVOC BY SIM												
Acenaphthene	400	< 0.032	< 0.029	< 0.031	< 0.031	< 0.03	< 0.032	< 0.029	< 0.032	< 0.03	< 0.031	< 0.031
Acenaphthylene	NS	< 0.043	< 0.039	< 0.042	< 0.042	< 0.04	< 0.043	< 0.039	< 0.043	< 0.041	< 0.042	< 0.042
Anthracene	2000	< 0.028	< 0.026	< 0.028	< 0.028	< 0.026	< 0.028	< 0.026	< 0.028	< 0.026	< 0.028	< 0.028
Benzo(a)anthracene	0.1 [0.2]	< 0.026	< 0.024	< 0.025	< 0.025	< 0.024	< 0.026	< 0.024	< 0.026	< 0.024	< 0.025	< 0.025
Benzo(a)pyrene	0.1 [0.2]	< 0.034	< 0.031	< 0.033	< 0.033	< 0.031	< 0.034	< 0.031	< 0.033	< 0.032	< 0.033	< 0.033
Benzo(b)fluoranthene	0.2 [10]	< 0.039	< 0.036	< 0.038	< 0.038	< 0.037	< 0.039	< 0.036	< 0.039	< 0.037	< 0.038	< 0.038
Benzo(g,h,i)perylene	NS	< 0.032	< 0.029	< 0.031	< 0.031	< 0.029	< 0.032	< 0.029	< 0.031	< 0.03	< 0.031	< 0.031
Benzo(k)fluoranthene	0.5	< 0.031	< 0.028	< 0.03	< 0.03	< 0.029	< 0.031	< 0.028	< 0.031	< 0.029	< 0.03	< 0.03
Chrysene	5	< 0.024	< 0.022	< 0.024	< 0.024	< 0.022	< 0.024	< 0.022	< 0.024	< 0.023	< 0.024	< 0.024
Dibenzo(a,h)anthracene	0.3 [0.5]	< 0.025	< 0.023	< 0.024	< 0.024	< 0.023	< 0.025	< 0.023	< 0.024	< 0.023	< 0.024	< 0.024
Fluoranthene	300	< 0.027	< 0.024	< 0.026	< 0.026	< 0.025	< 0.027	< 0.024	< 0.026	< 0.025	< 0.026	< 0.026
Fluorene	300	< 0.03	< 0.027	< 0.029	< 0.029	< 0.027	< 0.03	< 0.027	< 0.029	< 0.028	< 0.029	< 0.029
Hexachlorobenzene	0.02 [10]	< 0.011	< 0.0099	< 0.011	< 0.011	< 0.01	< 0.011	< 0.0099	< 0.011	< 0.01	< 0.011	< 0.011
Indeno(1,2,3-cd)pyrene	0.2 [10]	< 0.032	< 0.029	< 0.031	< 0.031	< 0.03	< 0.032	< 0.029	< 0.032	< 0.03	< 0.031	< 0.031
Naphthalene	300	< 0.02	< 0.019	1.54	< 0.02	< 0.019	< 0.02	< 0.019	< 0.02	< 0.019	< 0.02	< 0.02
Pentachlorophenol	0.3 [1]	< 0.25 J	< 0.22 J	< 0.24 J	< 0.24	< 0.23	< 0.25	< 0.22	< 0.24	< 0.23	< 0.24	< 0.24
Phenanthrene	NS	< 0.04	< 0.036	< 0.039	< 0.039	< 0.037	< 0.04	< 0.036	< 0.039	< 0.037	< 0.039	< 0.039
Pyrene	200	< 0.024	< 0.022	< 0.024	< 0.024	< 0.023	< 0.024	< 0.022	< 0.024	< 0.023	< 0.024	< 0.024
PCBs												
PCB 1016	0.5	< 0.33	< 0.33	< 0.3	< 0.3	< 0.3	< 0.32	< 0.33	< 0.3	< 0.3	< 0.33	< 0.33
PCB 1221	0.5	< 0.45	< 0.46	< 0.41	< 0.41	< 0.41	< 0.44	< 0.45	< 0.41	< 0.41	< 0.46	< 0.46
PCB 1232	0.5	< 0.34	< 0.34	< 0.31	< 0.31	< 0.31	< 0.33	< 0.34	< 0.31	< 0.31	< 0.34	< 0.34
PCB 1242	0.5	< 0.29	< 0.3	< 0.27	< 0.27	< 0.27	< 0.29	< 0.29	< 0.27	< 0.27	< 0.3	< 0.3
PCB 1248	0.5	< 0.3	< 0.31	< 0.28	< 0.28	< 0.28	< 0.3	< 0.3	< 0.28	< 0.28	< 0.31	< 0.31
PCB 1254	0.5	< 0.2	< 0.2	< 0.18	< 0.18	< 0.18	< 0.19	< 0.2	< 0.18	< 0.18	< 0.2	< 0.2
PCB 1260	0.5	< 0.15	< 0.16	< 0.14	< 0.14	< 0.14	< 0.15 J	< 0.15	< 0.14	< 0.14	< 0.16	< 0.16
Total PCBs	0.5	0	0	0	0	0	0	0	0	0	0	0
Metals - Total												
Aluminum	200	**204**	< 26	< 26	**996 J**	125 J	< 26	26.7 B	45.1 B	< 26	< 26	< 26
Antimony	6	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9
Arsenic	3 [8]	**3.5**	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4
Barium	2000	26.2 B	316	19.3 B	3 B	113 B	10.4 B	14.9 B	21 B	3.3 B	6.9 B	6.3 B
Beryllium	1	< 0.4	< 0.4	< 0.4	< 0.4	< 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	0.5 B	< 0.4	< 0.4	< 0.4	< 0.4
Calcium	NS	26100	69000	67400	11700	21000	16800	65100	67800	24000	59100	56100
Chromium	70	< 10	3.9 J	3.3 J	1.2 B	1.3 B	< 0.9	< 0.9	< 0.9	1.3 B	1.1 B	1.3 B
Cobalt	NS	< 1.6	2.8 B	7.8 B	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6
Copper	1,300	2.4 B	< 1.6	2.4 B	72 J	< 1.6 J	3.6 B	< 1.6	2.4 B	< 1.6	< 1.6	< 1.6
Iron	300	**1290 J**	**37800 J**	**9810 J**	**887**	**21000**	**593**	**423**	**1350**	**365**	**816**	**604**
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	6540	9670	14900	3980 B	3670 B	4200 B	15300	26000	3230 B	9280	8870
Manganese	50	**209**	**4920**	**10600**	11.4 J	**401 J**	**132**	**171**	**172**	13.1 B	27.8	31.6
Mercury	2	< 0.082	< 0.082	< 0.082	< 0.082	< 0.082	< 0.082	< 0.082	< 0.082	< 0.082	< 0.082	< 0.082
Nickel	100	1.3 B	1.3 B	2 B	1.4 J	1.4 J	< 0.6	< 0.6	0.9 B	< 0.6	< 10	< 10
Potassium	NS	102000 J	7230 J	2190 J	860 B	1470 B	2400 B	2660 B	3720 B	1360 J	2670 J	2550 J
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	1.3 B	2 B	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Sodium	50,000	**73300**	9640 B	7350 B	3690 B	3660 B	7300 B	10100	26700	1510 B	3820 B	3620 B
Thallium	2 [10]	< 1.5	< 1.5	1.6 B	< 1.5	1.5 B	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Vanadium	NS	< 0.9	< 0.9	< 0.9	< 0.9	1.7 B	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9
Zinc	2000	3.4 B	4.9 B	3.3 B	14.6 B	10.8 B	**2030**	341	549	893	493	451

Table 5. Summary of Ground Water Analytical Results, Ringw

Location ID		RW-5A	RW-6	RW-6A	RW-7	RW-7	RW-8	RW-8	RW-8	RW-9	RW-9	RW-9
Sample ID	GWQS[1]	RW-5A(102809)	RW-6(102809)	RW-6A (102809)	RW-7(102709)	RW-7(102709) Dup	RW-8(42-62)	RW-8(158-178)	RW-8(199-219)	RW-9(20-40)	RW-9(80-100)	RW-9(134-154)
Sample Date		10/28/2009	10/28/2009	10/28/2009	10/27/2009	10/27/2009	11/4/2009	11/4/2009	11/4/2009	11/2/2009	11/2/2009	11/2/2009
Validation Status		Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
Metals - Dissolved												
Aluminum	200	57 B	< 26	< 26	< 26 J	< 26	< 26	< 26	< 26	< 26	< 26	< 26
Antimony	6	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9
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	21.6 B	234	17.7 B	1.6 B	101 B	9.8 B	14.6 B	20.3 B	3.4 B	6.3 B	6.3 B
Beryllium	1	< 0.4	< 0.4	< 0.4	< 0.4	< 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
Calcium	NS	23400	66300	66400	12000	20600	16400	65500	68700	24200	55200	56200
Chromium	70	< 0.9	< 10	3 J	< 0.9	0.9 B	< 0.9	< 0.9	< 0.9	1.1 B	< 0.9	1 B
Cobalt	NS	< 1.6	2.8 B	7.8 B	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6
Copper	1,300	< 1.6	< 1.6	< 1.6	< 1.6 J	< 1.6	3.5 B	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6
Iron	300	**322 J**	**10500 J**	**5550 J**	37.5 B	**14400**	**418**	29.7 J	59.6 J	137 J	87.5 J	65.9 J
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	6410	9390	15100	3900 B	3560 B	4140 B	15300	26500	3240 B	8690	8940
Manganese	50	**141**	**4680**	**10400**	1.3 J	**396**	**124**	**174**	**175**	10.7 B	23.1	22.4
Mercury	2	< 0.082	< 0.082	< 0.082	< 0.082	0.091 B	< 0.082	< 0.082	< 0.082	< 0.082	< 0.082	< 0.082
Nickel	100	0.7 B	2 B	2.5 B	< 10	1.5 J	< 0.6	< 0.6	0.6 B	< 0.6	< 10	< 0.6
Potassium	NS	102000	7320 B	2240 B	876 B	1410 B	2360 B	2690 B	3770 B	1280 B	2430 B	2540 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	1.3 B	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Sodium	50,000	**73600**	9670 B	7530 B	4010 B	3660 B	6720 B	10200	28200	1510 B	3560 B	3670 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	3 B	< 2.9	6.9 B	10.1 B	11 B	**2080**	329	332	908	375	415
Other												
Alkalinity, total (as CaCO3)	NS	333000	241000	265000	40900	68100	58700	193000	121000	70200	174000	179000
Chloride	250000	2100	3700	2000	< 2000	< 2000	5500	44800	162000	< 2000	7300	7400
Sulfate	250000	30600	< 10000	< 10000	13100	< 10000	17100	17100	17000	< 10000	< 10000	< 10000

Footnotes on page 33.

Table 5. Summary of Ground Water Analytical Results, Ringw

Location ID	GWQS[1]	RW-9	RW-10	RW-10	RW-10	RW-10	RW-10	RW-10	SC-01	SC-02	FB	FB	FB
Sample ID		RW-9(201-221)	RW-10(22-42)	RW-10(46-66)	RW-10(70-90)	RW-10(115-135)	RW-10(180-200)	RW-10(180-200) Dup	SC-1(102809)	SC-2(102009)	FB(102009)	FB(102209)	FB(102309)
Sample Date		11/3/2009	10/29/2009	10/29/2009	10/29/2009	10/29/2009	10/30/2009	10/30/2009	10/28/2009	10/20/2009	10/20/2009	10/22/2009	10/23/2009
Validation Status		Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
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	0.53 J	< 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	< 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	< 0.57	< 0.57	< 0.57	< 0.57	< 0.57	1.6 J	< 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	2 J	< 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	1.8	< 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	1.2	1.1	< 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	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	0.6 J	< 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	2.4	< 0.25	< 0.25	< 0.25	< 0.25
Total TIC, Volatile	NS	0	0	0	0	0	0	0	22.7 J	0	0	0	0

Table 5. Summary of Ground Water Analytical Results, Ringw

Location ID	GWQS[1]	RW-9	RW-10	RW-10	RW-10	RW-10	RW-10	RW-10	SC-01	SC-02	FB	FB	FB
Sample ID		RW-9(201-221)	RW-10(22-42)	RW-10(46-66)	RW-10(70-90)	RW-10(115-135)	RW-10(180-200)	RW-10(180-200) Dup	SC-1(102809)	SC-2(102009)	FB(102009)	FB(102209)	FB(102309)
Sample Date		11/3/2009	10/29/2009	10/29/2009	10/29/2009	10/29/2009	10/30/2009	10/30/2009	10/28/2009	10/20/2009	10/20/2009	10/22/2009	10/23/2009
Validation Status		Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
SVOC													
1,1'-Biphenyl	400	< 0.47	< 0.47	< 0.48	< 0.48	< 0.42	< 0.47	< 0.47	< 0.45	< 0.45	< 0.48	< 0.42	< 0.42
2,4,5-Trichlorophenol	700	< 1.5	< 1.5	< 1.5	< 1.5	< 1.3	< 1.5	< 1.5	< 1.4	< 1.4	< 1.5	< 1.3	< 1.3
2,4,6-Trichlorophenol	20	< 1.4	< 1.4	< 1.4	< 1.4	< 1.2	< 1.4	< 1.4	< 1.3	< 1.3	< 1.4	< 1.2	< 1.2
2,4-Dichlorophenol	20	< 1.4	< 1.4	< 1.4	< 1.4	< 1.2	< 1.4	< 1.4	< 1.3	< 1.3	< 1.4	< 1.2	< 1.2
2,4-Dimethylphenol	100	< 1.9	< 1.9	< 1.9	< 1.9	< 1.7	< 1.9	< 1.9	< 1.8	< 1.8	< 1.9	< 1.7	< 1.7
2,4-Dinitrophenol	40	< 0.83	< 0.83	< 0.85	< 0.85	< 0.74	< 0.83	< 0.83	< 0.79	< 0.79	< 0.85	< 0.74	< 0.74
2,4-Dinitrotoluene	NS	< 0.25	< 0.25	< 0.25	< 0.25	< 0.22	< 0.25	< 0.25	< 0.24 J	< 0.24	< 0.25	< 0.22	< 0.22
2,6-Dinitrotoluene	NS	< 0.37	< 0.37	< 0.37	< 0.37	< 0.33	< 0.37	< 0.37	< 0.35	< 0.35	< 0.37	< 0.33	< 0.33
2-Chloronaphthalene	600	< 0.47	< 0.47	< 0.48	< 0.48	< 0.42	< 0.47	< 0.47	< 0.45	< 0.45	< 0.48	< 0.42	< 0.42
2-Chlorophenol	40	< 1.2	< 1.2	< 1.2	< 1.2	< 1.1	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.1	< 1.1
2-Methylnaphthalene	NS	< 0.74	< 0.74	< 0.76	< 0.76	< 0.66	< 0.74	< 0.74	< 0.71	< 0.71	< 0.76	< 0.66	< 0.66
2-Methylphenol	NS	< 1.3	< 1.3	< 1.3	< 1.3	< 1.1	< 1.3	< 1.3	< 1.2	< 1.2	< 1.3	< 1.1	< 1.1
2-Nitroaniline	NS	< 0.26	< 0.26	< 0.27	< 0.27	< 0.24	< 0.26	< 0.26	< 0.25	< 0.25	< 0.27	< 0.24	< 0.24
2-Nitrophenol	NS	< 1.4	< 1.4	< 1.4	< 1.4	< 1.2	< 1.4	< 1.4	< 1.3	< 1.3	< 1.4	< 1.2	< 1.2
3&4-Methylphenol	NS	< 1.2	< 1.2	< 1.2	< 1.2	< 1	< 1.2	< 1.2	< 1.1	< 1.1	< 1.2	< 1	< 1
3,3'-Dichlorobenzidine	30	< 0.33	< 0.33	< 0.34	< 0.34	< 0.3	< 0.33	< 0.33	< 0.32	< 0.32	< 0.34	< 0.3	< 0.3
3-Nitroaniline	NS	< 0.32	< 0.32	< 0.33	< 0.33	< 0.29	< 0.32	< 0.32	< 0.31	< 0.31	< 0.33	< 0.29	< 0.29
4,6-Dinitro-2-methylphenol	NS	< 0.58	< 0.58	< 0.59	< 0.59	< 0.51	< 0.58	< 0.58	< 0.55	< 0.55	< 0.59	< 0.51	< 0.51
4-Bromophenyl phenyl ether	NS	< 0.39	< 0.39	< 0.4	< 0.4	< 0.35	< 0.39	< 0.39	< 0.38	< 0.38	< 0.4	< 0.35	< 0.35
4-Chloro-3-Methylphenol	NS	< 1.2	< 1.2	< 1.2	< 1.2	< 1.1	< 1.2	< 1.2	< 1.1	< 1.1	< 1.2	< 1.1	< 1.1
4-Chloroaniline	30	< 0.28	< 0.28	< 0.29	< 0.29	< 0.25	< 0.28	< 0.28	< 0.27	< 0.27	< 0.29	< 0.25	< 0.25
4-Chlorophenyl phenyl ether	NS	< 0.4	< 0.4	< 0.41	< 0.41	< 0.35	< 0.4	< 0.4	< 0.38	< 0.38	< 0.41	< 0.35	< 0.35
4-Nitroaniline	NS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.18	< 0.2	< 0.2	< 0.19	< 0.19	< 0.2	< 0.18	< 0.18
4-Nitrophenol	NS	< 0.93	< 0.93	< 0.95	< 0.95	< 0.83	< 0.93	< 0.93	< 0.89	< 0.89	< 0.95	< 0.83	< 0.83
Acetophenone	700	< 0.45	< 0.45	< 0.46	< 0.46	< 0.4	< 0.45	< 0.45	< 0.43	< 0.43	< 0.46	< 0.4	< 0.4
Atrazine	3	< 0.44	< 0.44	< 0.45	< 0.45	< 0.39	< 0.44	< 0.44	< 0.42	< 0.42	< 0.45	< 0.39	< 0.39
Benzaldehyde	NS	< 0.45	< 0.45	< 0.46	< 0.46	< 0.4	< 0.45	< 0.45	< 0.43	< 0.43	< 0.46	< 0.4	< 0.4
Benzyl butyl phthalate	100	< 0.28	< 0.28	< 0.29	< 0.29	< 0.25	< 0.28	< 0.28	< 0.27	< 0.27	< 0.29	< 0.25	< 0.25
bis(2-Chloroethoxy)methane	NS	< 0.28	< 0.28	< 0.29	< 0.29	< 0.25	< 0.28	< 0.28	< 0.27	< 0.27	< 0.29	< 0.25	< 0.25
bis(2-Chloroethyl)ether	7	< 0.35	< 0.35	< 0.36	< 0.36	< 0.31	< 0.35	< 0.35	< 0.33	< 0.33	< 0.36	< 0.31	< 0.31
bis(2-Chloroisopropyl)ether	300	< 0.44	< 0.44	< 0.45	< 0.45	< 0.39	< 0.44	< 0.44	< 0.42	< 0.42	< 0.45	< 0.39	< 0.39
bis(2-Ethylhexyl)phthalate	3	< 0.37	< 0.37	< 0.38	< 0.38	**3.6**	< 0.37	< 0.37	< 4.3 J	< 2.2	< 0.38	< 0.33	< 0.33
Caprolactam	NS	< 0.22	< 0.22	< 0.22	< 0.22	< 0.2	< 0.22	< 0.22	< 0.21	< 0.21	< 0.22	< 0.2	< 0.2
Carbazole	NS	< 0.19	< 0.19	< 0.19	< 0.19	< 0.17	< 0.19	< 0.19	< 0.18	< 0.18	< 0.19	< 0.17	< 0.17
Dibenzofuran	NS	< 0.34	< 0.34	< 0.35	< 0.35	< 0.3	< 0.34	< 0.34	< 0.33	< 0.33	< 0.35	< 0.3	< 0.3
Diethyl phthalate	6000	< 0.19	< 0.19	< 0.19	< 0.19	< 0.17	< 0.19	< 0.19	< 0.18	< 0.18	< 0.19	< 0.17	< 0.17
Dimethyl phthalate	NS	< 0.25	< 0.25	< 0.26	< 0.26	< 0.23	< 0.25	< 0.25	< 0.24	< 0.24	< 0.26	< 0.23	< 0.23
di-n-butyl phthalate	700	< 0.21	< 0.21	< 0.22	< 0.22	< 0.19	< 0.21	< 0.21	< 0.21	< 0.21	< 0.22	< 0.19	< 0.19
di-n-octylphthalate	100	< 0.44	< 0.44	< 0.45	< 0.45	< 0.4	< 0.44	< 0.44	< 0.42	< 0.42	< 0.45	< 0.4	< 0.4
Hexachlorobutadiene	1	< 0.42	< 0.42	< 0.43	< 0.43	< 0.37	< 0.42	< 0.42	< 0.4 J	< 0.4	< 0.43	< 0.37	< 0.37
Hexachlorocyclopentadiene	40	< 0.76	< 0.76	< 0.77	< 0.77	< 0.67	< 0.76	< 0.76	< 0.72	< 0.72	< 0.77	< 0.67	< 0.67
Hexachloroethane	7	< 0.3	< 0.3	< 0.3	< 0.3	< 0.26	< 0.3	< 0.3	< 0.28	< 0.28	< 0.3	< 0.26	< 0.26
Isophrone	40	< 0.28	< 0.28	< 0.29	< 0.29	< 0.25	< 0.28	< 0.28	< 0.27	< 0.27	< 0.29	< 0.25	< 0.25
Nitrobenzene	6	< 0.28	< 0.28	< 0.29	< 0.29	< 0.25	< 0.28	< 0.28	< 0.27	< 0.27	< 0.29	< 0.25 J	< 0.25
N-Nitroso-di-n-Propylamine	10	< 0.49	< 0.49	< 0.5	< 0.5	< 0.44	< 0.49	< 0.49	< 0.47	< 0.47	< 0.5	< 0.44	< 0.44
N-Nitrosodiphenylamine	10	< 0.24	< 0.24	< 0.25	< 0.25	< 0.22	< 0.24	< 0.24	< 0.23	< 0.23	< 0.25	< 0.22	< 0.22
Phenol	2000	< 0.65	54.1	79.5	103	< 0.58	< 0.65	< 0.65	< 0.62	< 0.62	< 0.66	< 0.58	< 0.58
Total TIC, Semi-Volatile	NS	0	41 J	18 J	15 J	79 J	44.2 J	17.6 J	0	5.5 J	72.4 J	0	12 J

Table 5. Summary of Ground Water Analytical Results, Ringw

Location ID	GWQS[1]	RW-9	RW-10	RW-10	RW-10	RW-10	RW-10	RW-10	SC-01	SC-02	FB	FB	FB
Sample ID		RW-9(201-221)	RW-10(22-42)	RW-10(46-66)	RW-10(70-90)	RW-10(115-135)	RW-10(180-200)	RW-10(180-200) Dup	SC-1(102809)	SC-2(102009)	FB(102009)	FB(102209)	FB(102309)
Sample Date		11/3/2009	10/29/2009	10/29/2009	10/29/2009	10/29/2009	10/30/2009	10/30/2009	10/28/2009	10/20/2009	10/20/2009	10/22/2009	10/23/2009
Validation Status		Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
SVOC BY SIM													
Acenaphthene	400	< 0.033	< 0.033	< 0.033	< 0.033	< 0.029	< 0.032	< 0.033	< 0.031	< 0.031	< 0.033	< 0.029	< 0.029
Acenaphthylene	NS	< 0.044	< 0.044	< 0.045	< 0.045	< 0.039	< 0.044	< 0.044	< 0.042	< 0.042	< 0.045	< 0.039	< 0.039
Anthracene	2000	< 0.029	< 0.029	< 0.029	< 0.029	< 0.026	< 0.028	< 0.029	< 0.028	< 0.028	< 0.029	< 0.026	< 0.026
Benzo(a)anthracene	0.1 [0.2]	< 0.027	< 0.027	< 0.027	< 0.027	< 0.024	< 0.026	< 0.027	< 0.025	< 0.025	< 0.027	< 0.024	< 0.024
Benzo(a)pyrene	0.1 [0.2]	< 0.035	< 0.035	< 0.035	< 0.035	< 0.031	< 0.034	< 0.035	< 0.033	< 0.033	< 0.035	< 0.031	< 0.031
Benzo(b)fluoranthene	0.2 [10]	< 0.04	< 0.04	< 0.041	< 0.041	< 0.036	< 0.04	< 0.04	< 0.038	< 0.038	< 0.041	< 0.036	< 0.036
Benzo(g,h,i)perylene	NS	< 0.032	< 0.032	< 0.033	< 0.033	< 0.029	< 0.032	< 0.032	< 0.031	< 0.031	< 0.033	< 0.029	< 0.029
Benzo(k)fluoranthene	0.5	< 0.032	< 0.032	< 0.032	< 0.032	< 0.028	< 0.031	< 0.032	< 0.03	< 0.03	< 0.032	< 0.028	< 0.028
Chrysene	5	< 0.025	< 0.025	< 0.025	< 0.025	< 0.022	< 0.024	< 0.025	< 0.024	< 0.024	< 0.025	< 0.022	< 0.022
Dibenzo(a,h)anthracene	0.3 [0.5]	< 0.025	< 0.025	< 0.026	< 0.026	< 0.023	< 0.025	< 0.025	< 0.024	< 0.024	< 0.026	< 0.023	< 0.023
Fluoranthene	300	< 0.027	< 0.027	< 0.028	< 0.028	< 0.024	< 0.027	< 0.027	< 0.026	< 0.026	< 0.028	< 0.024	< 0.024
Fluorene	300	< 0.03	< 0.03	< 0.031	< 0.031	< 0.027	< 0.03	< 0.03	< 0.029	< 0.029	< 0.031	< 0.027	< 0.027
Hexachlorobenzene	0.02 [10]	< 0.011	< 0.011	< 0.011	< 0.011	< 0.0099	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.0099	< 0.0099
Indeno(1,2,3-cd)pyrene	0.2 [10]	< 0.033	< 0.033	< 0.034	< 0.034	< 0.029	< 0.032	< 0.033	< 0.031	< 0.031	< 0.034	< 0.029	< 0.029
Naphthalene	300	< 0.021	< 0.021	< 0.021	< 0.021	< 0.019	< 0.021	< 0.021	2.58	< 0.02	< 0.021	< 0.019	< 0.019
Pentachlorophenol	0.3 [1]	< 0.25	< 0.25	< 0.26	< 0.26	< 0.22	< 0.25	< 0.25	< 0.24 J	< 0.24	< 0.26	< 0.22	< 0.22
Phenanthrene	NS	< 0.041	< 0.041	< 0.041	< 0.041	< 0.036	< 0.04	< 0.041	< 0.039	< 0.039	< 0.041	< 0.036	< 0.036
Pyrene	200	< 0.025	< 0.025	< 0.025	< 0.025	< 0.022	< 0.025	< 0.025	< 0.024	< 0.024	< 0.025	< 0.022	< 0.022
PCBs													
PCB 1016	0.5	< 0.3	< 0.33	< 0.33	< 0.33	< 0.33	< 0.32	< 0.33	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
PCB 1221	0.5	< 0.41	< 0.46	< 0.46	< 0.46	< 0.46	< 0.44	< 0.46	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41
PCB 1232	0.5	< 0.31	< 0.34	< 0.34	< 0.34	< 0.34	< 0.33	< 0.34	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
PCB 1242	0.5	< 0.27	< 0.3	< 0.3	< 0.3	< 0.3	< 0.29	< 0.3	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27
PCB 1248	0.5	< 0.28	< 0.31	< 0.31	< 0.31	< 0.31	< 0.3	< 0.31	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
PCB 1254	0.5	< 0.18	< 0.2	< 0.2	< 0.2	< 0.2	< 0.19	< 0.2	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
PCB 1260	0.5	< 0.14	< 0.16	< 0.16	< 0.16	< 0.16	< 0.15	< 0.16	< 0.14	< 0.14	< 0.14	< 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	65.6 BJ	77.2 BJ	63.2 BJ	75.9 BJ	59 J	< 26 J	200	175 B	< 26	< 26	< 26
Antimony	6	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9
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	8.6 J	< 200	8 J	9.6 B	11.5 B	12.7 J	201	52.6 B	< 1.3	< 1.3	< 1.3
Beryllium	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
Cadmium	4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	0.9 B	< 0.4	< 0.4	< 0.4	< 0.4
Calcium	NS	54900	20600	19800	36200	39600	54700	55700	20600	72500	< 22	< 22	33.5 B
Chromium	70	< 0.9	< 0.9	< 0.9	0.9 B	< 0.9	< 0.9	< 0.9	6.2 J	1.5 B	< 0.9	< 0.9	< 0.9
Cobalt	NS	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	7.7 B	< 1.6	< 1.6	< 1.6
Copper	1,300	< 1.6	4.3 B	4.8 B	< 1.6	< 1.6	1.6 B	1.8 B	7.8 B	5.1 B	< 1.6	< 1.6	< 1.6
Iron	300	**929**	**614**	**815**	**824**	**1050**	**1990**	**2230**	**27100 J**	**2690**	< 12	< 12	< 12
Lead	5	< 1.7	2.2 B	< 1.7	< 1.7	< 1.7	**6**	**7**	**9.9**	< 1.7	< 1.7	< 1.7	< 1.7
Magnesium	NS	9250	7390	7200	12600	13700	11800	12100	2420 B	17300	< 37	< 37	< 37
Manganese	50	**104**	15	13.2 B	14.4 B	23	**294**	**300**	**311**	**400**	< 0.5	< 0.5	< 0.5
Mercury	2	< 0.082	< 0.082	< 0.082	< 0.082	< 0.082	< 0.082	< 0.082	< 0.082	< 0.082	< 0.082	< 0.082	< 0.082
Nickel	100	0.6 B	0.9 B	1.1 B	5.9 B	1.2 B	1.9 B	< 10	11.7	5.3 J	< 0.6	< 0.6	< 0.6
Potassium	NS	2880 B	1730 BJ	1540 BJ	1710 BJ	1710 BJ	2470 J	2460 BJ	1700 J	3650 B	< 170	< 170	< 170
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	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Sodium	50,000	4450 B	4450 J	4070 J	5460 J	5610 J	5690 J	5780 J	2870 B	9390 B	< 19	< 19	< 19
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	1.7 B	< 0.9	< 0.9	< 0.9	< 0.9
Zinc	2000	706	1590	1680	1210	1780	**10500**	**10900**	270	60.9	< 2.9	< 2.9	3 B

Table 5. Summary of Ground Water Analytical Results, Ringw

Location ID		RW-9	RW-10	RW-10	RW-10	RW-10	RW-10	RW-10	SC-01	SC-02	FB	FB	FB
Sample ID	GWQS[1]	RW-9(201-221)	RW-10(22-42)	RW-10(46-66)	RW-10(70-90)	RW-10(115-135)	RW-10(180-200)	RW-10(180-200) Dup	SC-1(102809)	SC-2(102009)	FB(102009)	FB(102209)	FB(102309)
Sample Date		11/3/2009	10/29/2009	10/29/2009	10/29/2009	10/29/2009	10/30/2009	10/30/2009	10/28/2009	10/20/2009	10/20/2009	10/22/2009	10/23/2009
Validation Status		Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
Metals - Dissolved													
Aluminum	200	< 26	< 26 J	< 26 J	< 26 J	< 26 J	28.6 J	< 26 J	< 26	< 26	NA	NA	NA
Antimony	6	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	NA	NA	NA
Arsenic	3 [8]	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	NA	NA	NA
Barium	2000	7.5 J	< 200 J	8.9 J	8 J	9.6 J	11.3 J	11.5 J	180 B	50.4 B	NA	NA	NA
Beryllium	1	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	NA	NA	NA
Cadmium	4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	0.5 B	NA	NA	NA
Calcium	NS	52200	20100	19200	34600	39200	57100	56300	18800	72100	NA	NA	NA
Chromium	70	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	1.4 J	< 0.9	NA	NA	NA
Cobalt	NS	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	7.3 B	NA	NA	NA
Copper	1,300	< 1.6	4.2 B	4.5 B	< 1.6	1.7 B	< 1.6	< 1.6	< 1.6	< 1.6	NA	NA	NA
Iron	300	105	**415 J**	**610 J**	**427 J**	**421 J**	**367 J**	151 J	**19500 J**	**403**	NA	NA	NA
Lead	5	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	NA	NA	NA
Magnesium	NS	8750	7160	6920	12000	13600	11700	12200	2280 B	17200	NA	NA	NA
Manganese	50	**94**	13.6 B	11.8 J	13 J	21.6	**295**	**303**	**309**	**409**	NA	NA	NA
Mercury	2	< 0.082	< 0.082	< 0.082	< 0.082	< 0.082	< 0.082	< 0.082	< 0.082	< 0.082	NA	NA	NA
Nickel	100	< 0.6	< 10	< 10	< 10	< 10	2.2 B	< 10	6.3 B	5.4 B	NA	NA	NA
Potassium	NS	2720 B	1620 BJ	1480 BJ	1620 BJ	1700 BJ	2430 J	2490 BJ	1570 B	3650 B	NA	NA	NA
Selenium	40	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	NA	NA	NA
Silver	40	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	NA	NA	NA
Sodium	50,000	3910 B	4440 J	4010 J	5330 J	5660 J	5590 J	5890 J	2770 B	9430 B	NA	NA	NA
Thallium	2 [10]	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	NA	NA	NA
Vanadium	NS	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	NA	NA	NA
Zinc	2000	607	1590	1580	1180	1870	**10600**	**10800**	21.6	51.7	NA	NA	NA
Other													
Alkalinity, total (as CaCO3)	NS	179000	70900	67600	77400	99200	155000	159000	66500	218000	< 5000	< 5000	< 5000
Chloride	250000	7400	3100	3200	2600	2400	3200	3200	< 2000	15200	< 2000	< 2000	< 2000
Sulfate	250000	< 10000	19200	19700	70000	62500	59900	59600	< 10000	32000	< 10000	< 10000	< 10000

Footnotes on page 33.

Table 5. Summary of Ground Water Analytical Results, Ringw

Location ID		FB	FB	FB	FB	FB	FB	PFB	PFB	PFB	PFB	TB	TB	TB
Sample ID	GWQS[1]	FB(102609)	FB(102809)	FB(102909)	FB(110209)	FB(110309)	FB(110409)	PFB(101909)	FBP(102109)	PFB(102709)	PFB(103009)	TRIP BLANK (10/19/2009)	TB(102009)	TB(102109)
Sample Date		10/26/2009	10/28/2009	10/29/2009	11/2/2009	11/3/2009	11/4/2009	10/19/2009	10/21/2009	10/27/2009	10/30/2009	10/19/2009	10/20/2009	10/21/2009
Validation Status		Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
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	< 0.23	< 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
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 J	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3 J	< 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	< 0.37	< 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
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	< 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
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
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	< 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
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
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	< 0.3	< 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
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	< 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
Total TIC, Volatile	NS	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 5. Summary of Ground Water Analytical Results, Ringw

Location ID		FB	FB	FB	FB	FB	FB	PFB	PFB	PFB	PFB	TB	TB	TB
Sample ID	GWQS[1]	FB(102609)	FB(102809)	FB(102909)	FB(110209)	FB(110309)	FB(110409)	PFB(101909)	FBP(102109)	PFB(102709)	PFB(103009)	TRIP BLANK (10/19/2009)	TB(102009)	TB(102109)
Sample Date		10/26/2009	10/28/2009	10/29/2009	11/2/2009	11/3/2009	11/4/2009	10/19/2009	10/21/2009	10/27/2009	10/30/2009	10/19/2009	10/20/2009	10/21/2009
Validation Status		Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
SVOC														
1,1'-Biphenyl	400	< 0.42	< 0.42	< 0.42	< 0.42	< 0.47	< 0.42	< 0.43	< 0.42	< 0.46	< 0.42	NA	NA	NA
2,4,5-Trichlorophenol	700	< 1.3	< 1.3	< 1.3	< 1.3	< 1.5	< 1.3	< 1.3	< 1.3	< 1.5	< 1.3	NA	NA	NA
2,4,6-Trichlorophenol	20	< 1.2	< 1.2	< 1.2	< 1.2	< 1.4	< 1.2	< 1.2	< 1.2	< 1.3	< 1.2	NA	NA	NA
2,4-Dichlorophenol	20	< 1.2	< 1.2	< 1.2	< 1.2	< 1.4	< 1.2	< 1.2	< 1.2	< 1.3	< 1.2	NA	NA	NA
2,4-Dimethylphenol	100	< 1.7	< 1.7	< 1.7	< 1.7	< 1.8	< 1.7	< 1.7	< 1.7	< 1.8	< 1.7	NA	NA	NA
2,4-Dinitrophenol	40	< 0.74	< 0.74	< 0.74	< 0.74	< 0.82	< 0.74	< 0.75	< 0.74	< 0.81 J	< 0.74	NA	NA	NA
2,4-Dinitrotoluene	NS	< 0.22	< 0.22	< 0.22	< 0.22	< 0.24	< 0.22	< 0.22	< 0.22	< 0.24 J	< 0.22	NA	NA	NA
2,6-Dinitrotoluene	NS	< 0.33	< 0.33	< 0.33	< 0.33	< 0.36	< 0.33	< 0.33	< 0.33	< 0.36	< 0.33	NA	NA	NA
2-Chloronaphthalene	600	< 0.42	< 0.42	< 0.42	< 0.42	< 0.46	< 0.42	< 0.42	< 0.42	< 0.46	< 0.42	NA	NA	NA
2-Chlorophenol	40	< 1.1	< 1.1	< 1.1	< 1.1	< 1.2	< 1.1	< 1.1	< 1.1	< 1.2	< 1.1	NA	NA	NA
2-Methylnaphthalene	NS	< 0.66	< 0.66	< 0.66	< 0.66	< 0.73	< 0.66	< 0.67	< 0.66	< 0.72	< 0.66	NA	NA	NA
2-Methylphenol	NS	< 1.1	< 1.1	< 1.1	< 1.1	< 1.2	< 1.1	< 1.1	< 1.1	< 1.2	< 1.1	NA	NA	NA
2-Nitroaniline	NS	< 0.24	< 0.24	< 0.24	< 0.24	< 0.26	< 0.24	< 0.24	< 0.24	< 0.26	< 0.24	NA	NA	NA
2-Nitrophenol	NS	< 1.2	< 1.2	< 1.2	< 1.2	< 1.4	< 1.2	< 1.3	< 1.2	< 1.4	< 1.2	NA	NA	NA
3&4-Methylphenol	NS	< 1	< 1	< 1	< 1	< 1.2	< 1	< 1.1	< 1	< 1.1	< 1	NA	NA	NA
3,3'-Dichlorobenzidine	30	< 0.3	< 0.3	< 0.3	< 0.3	< 0.33	< 0.3	< 0.3	< 0.3	< 0.32	< 0.3	NA	NA	NA
3-Nitroaniline	NS	< 0.29	< 0.29	< 0.29	< 0.29	< 0.32	< 0.29	< 0.29	< 0.29	< 0.32	< 0.29	NA	NA	NA
4,6-Dinitro-2-methylphenol	NS	< 0.51	< 0.51	< 0.51	< 0.51	< 0.57	< 0.51	< 0.52	< 0.51	< 0.56	< 0.51	NA	NA	NA
4-Bromophenyl phenyl ether	NS	< 0.35	< 0.35	< 0.35	< 0.35	< 0.39	< 0.35	< 0.36	< 0.35	< 0.38	< 0.35	NA	NA	NA
4-Chloro-3-Methylphenol	NS	< 1.1	< 1.1	< 1.1	< 1.1	< 1.2	< 1.1	< 1.1	< 1.1	< 1.2	< 1.1	NA	NA	NA
4-Chloroaniline	30	< 0.25	< 0.25	< 0.25	< 0.25	< 0.28	< 0.25	< 0.26	< 0.25	< 0.28	< 0.25	NA	NA	NA
4-Chlorophenyl phenyl ether	NS	< 0.35	< 0.35	< 0.35	< 0.35	< 0.39	< 0.35	< 0.36	< 0.35	< 0.39	< 0.35	NA	NA	NA
4-Nitroaniline	NS	< 0.18	< 0.18	< 0.18	< 0.18	< 0.2	< 0.18	< 0.18	< 0.18	< 0.2	< 0.18	NA	NA	NA
4-Nitrophenol	NS	< 0.83	< 0.83	< 0.83	< 0.83	< 0.92	< 0.83	< 0.84	< 0.83	< 0.91	< 0.83	NA	NA	NA
Acetophenone	700	< 0.4	< 0.4	< 0.4	< 0.4	< 0.44	< 0.4	< 0.41	< 0.4	< 0.44	< 0.4	NA	NA	NA
Atrazine	3	< 0.39	< 0.39	< 0.39	< 0.39	< 0.43	< 0.39	< 0.4	< 0.39	< 0.43 J	< 0.39	NA	NA	NA
Benzaldehyde	NS	< 0.4	< 0.4	< 0.4	< 0.4	< 0.45	< 0.4	< 0.41	< 0.4	< 0.44	< 0.4	NA	NA	NA
Benzyl butyl phthalate	100	< 0.25	< 0.25	< 0.25	< 0.25	< 0.28	< 0.25	< 0.26	< 0.25	< 0.28	< 0.25	NA	NA	NA
bis(2-Chloroethoxy)methane	NS	< 0.25	< 0.25	< 0.25	< 0.25	< 0.28	< 0.25	< 0.25	< 0.25	< 0.27	< 0.25	NA	NA	NA
bis(2-Chloroethyl)ether	7	< 0.31	< 0.31	< 0.31	< 0.31	< 0.34	< 0.31	< 0.32	< 0.31	< 0.34	< 0.31	NA	NA	NA
bis(2-Chloroisopropyl)ether	300	< 0.39	< 0.39	< 0.39	< 0.39	< 0.43	< 0.39	< 0.4	< 0.39	< 0.43	< 0.39	NA	NA	NA
bis(2-Ethylhexyl)phthalate	3	< 0.33	1.5 J	< 0.33	< 0.33	< 0.36	< 0.33	1.3 JB	< 0.33	< 0.36	< 0.33	NA	NA	NA
Caprolactam	NS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.22	< 0.2	< 0.2	< 0.2	< 0.21	< 0.2	NA	NA	NA
Carbazole	NS	< 0.17	< 0.17	< 0.17	< 0.17	< 0.18	< 0.17	< 0.17	< 0.17	< 0.18	< 0.17	NA	NA	NA
Dibenzofuran	NS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.34	< 0.3	< 0.31	< 0.3	< 0.33	< 0.3	NA	NA	NA
Diethyl phthalate	6000	< 0.17	< 0.17	< 0.17	< 0.17	< 0.18	< 0.17	< 0.17	< 0.17	< 0.18	< 0.17	NA	NA	NA
Dimethyl phthalate	NS	< 0.23	< 0.23	< 0.23	< 0.23	< 0.25	< 0.23	< 0.23	< 0.23	< 0.25	< 0.23	NA	NA	NA
di-n-butyl phthalate	700	< 0.19	< 0.19	< 0.19	< 0.19	< 0.21	< 0.19	< 0.19	< 0.19	< 0.21	< 0.19	NA	NA	NA
di-n-octylphthalate	100	< 0.4	< 0.4	< 0.4	< 0.4	< 0.44	< 0.4	< 0.4	< 0.4	< 0.43	< 0.4	NA	NA	NA
Hexachlorobutadiene	1	< 0.37 J	< 0.37	< 0.37	< 0.37	< 0.41	< 0.37	< 0.38	< 0.37	< 0.41	< 0.37	NA	NA	NA
Hexachlorocyclopentadiene	40	< 0.67	< 0.67	< 0.67	< 0.67	< 0.75	< 0.67	< 0.69	< 0.67	< 0.74	< 0.67	NA	NA	NA
Hexachloroethane	7	< 0.26	< 0.26	< 0.26	< 0.26	< 0.29	< 0.26	< 0.27	< 0.26	< 0.29	< 0.26	NA	NA	NA
Isophrone	40	< 0.25	< 0.25	< 0.25	< 0.25	< 0.28	< 0.25	< 0.25	< 0.25	< 0.27	< 0.25	NA	NA	NA
Nitrobenzene	6	< 0.25	< 0.25	< 0.25	< 0.25	< 0.28	< 0.25	< 0.26	< 0.25	< 0.28	< 0.25	NA	NA	NA
N-Nitroso-di-n-Propylamine	10	< 0.44	< 0.44	< 0.44	< 0.44	< 0.49	< 0.44	< 0.45	< 0.44	< 0.48	< 0.44	NA	NA	NA
N-Nitrosodiphenylamine	10	< 0.22	< 0.22	< 0.22	< 0.22	< 0.24	< 0.22	< 0.22	< 0.22	< 0.24	< 0.22	NA	NA	NA
Phenol	2000	< 0.58	< 0.58	< 0.58	< 0.58	< 0.64	< 0.58	< 0.59	< 0.58	< 0.63	< 0.58	NA	NA	NA
Total TIC, Semi-Volatile	NS	0	0	0	0	13.4 J	0	0	0	0	0	NA	NA	NA

Table 5. Summary of Ground Water Analytical Results, Ringw

Location ID		FB	FB	FB	FB	FB	FB	PFB	PFB	PFB	PFB	TB	TB	TB
Sample ID	GWQS[1]	FB(102609)	FB(102809)	FB(102909)	FB(110209)	FB(110309)	FB(110409)	PFB(101909)	FBP(102109)	PFB(102709)	PFB(103009)	TRIP BLANK (10/19/2009)	TB(102009)	TB(102109)
Sample Date		10/26/2009	10/28/2009	10/29/2009	11/2/2009	11/3/2009	11/4/2009	10/19/2009	10/21/2009	10/27/2009	10/30/2009	10/19/2009	10/20/2009	10/21/2009
Validation Status		Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
SVOC BY SIM														
Acenaphthene	400	< 0.029	< 0.029	< 0.029	< 0.029	< 0.032	< 0.029	< 0.03	< 0.029	< 0.032	< 0.029	NA	NA	NA
Acenaphthylene	NS	< 0.039	< 0.039	< 0.039	< 0.039	< 0.044	< 0.039	< 0.04	< 0.039	< 0.043	< 0.039	NA	NA	NA
Anthracene	2000	< 0.026	< 0.026	< 0.026	< 0.026	< 0.028	< 0.026	< 0.026	< 0.026	< 0.028	< 0.026	NA	NA	NA
Benzo(a)anthracene	0.1 [0.2]	< 0.024	< 0.024	< 0.024	< 0.024	< 0.026	< 0.024	< 0.024	< 0.024	< 0.026	< 0.024	NA	NA	NA
Benzo(a)pyrene	0.1 [0.2]	< 0.031	< 0.031	< 0.031	< 0.031	< 0.034	< 0.031	< 0.031	< 0.031	< 0.034	< 0.031	NA	NA	NA
Benzo(b)fluoranthene	0.2 [10]	< 0.036	< 0.036	< 0.036	< 0.036	< 0.04	< 0.036	< 0.037	< 0.036	< 0.039	< 0.036	NA	NA	NA
Benzo(g,h,i)perylene	NS	< 0.029	< 0.029	< 0.029	< 0.029	< 0.032	< 0.029	< 0.029	< 0.029	< 0.032	< 0.029	NA	NA	NA
Benzo(k)fluoranthene	0.5	< 0.028	< 0.028	< 0.028	< 0.028	< 0.031	< 0.028	< 0.029	< 0.028	< 0.031	< 0.028	NA	NA	NA
Chrysene	5	< 0.022	< 0.022	< 0.022	< 0.022	< 0.024	< 0.022	< 0.022	< 0.022	< 0.024	< 0.022	NA	NA	NA
Dibenzo(a,h)anthracene	0.3 [0.5]	< 0.023	< 0.023	< 0.023	< 0.023	< 0.025	< 0.023	< 0.023	< 0.023	< 0.025	< 0.023	NA	NA	NA
Fluoranthene	300	< 0.024	< 0.024	< 0.024	< 0.024	< 0.027	< 0.024	< 0.025	< 0.024	< 0.027	< 0.024	NA	NA	NA
Fluorene	300	< 0.027	< 0.027	< 0.027	< 0.027	< 0.03	< 0.027	< 0.027	< 0.027	< 0.03	< 0.027	NA	NA	NA
Hexachlorobenzene	0.02 [10]	< 0.0099	< 0.0099	< 0.0099	< 0.0099	< 0.011	< 0.0099	< 0.01	< 0.0099	< 0.011	< 0.0099	NA	NA	NA
Indeno(1,2,3-cd)pyrene	0.2 [10]	< 0.029	< 0.029	< 0.029	< 0.029	< 0.032	< 0.029	< 0.03	< 0.029	< 0.032	< 0.029	NA	NA	NA
Naphthalene	300	< 0.019	< 0.019	< 0.019	< 0.019	< 0.021	< 0.019	< 0.019	< 0.019	< 0.02	0.287	NA	NA	NA
Pentachlorophenol	0.3 [1]	< 0.22	< 0.22	< 0.22	< 0.22	< 0.25	< 0.22	< 0.23	< 0.22	< 0.25	< 0.22	NA	NA	NA
Phenanthrene	NS	< 0.036	< 0.036	< 0.036	< 0.036	< 0.04	< 0.036	< 0.037	< 0.036	< 0.04	< 0.036	NA	NA	NA
Pyrene	200	< 0.022	< 0.022	< 0.022	< 0.022	< 0.025	< 0.022	< 0.023	< 0.022	< 0.024	< 0.022	NA	NA	NA
PCBs														
PCB 1016	0.5	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.31	< 0.3	< 0.3	NA	NA	NA
PCB 1221	0.5	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.42	< 0.41	< 0.41	NA	NA	NA
PCB 1232	0.5	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.32	< 0.31	< 0.31	NA	NA	NA
PCB 1242	0.5	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.28	< 0.27	< 0.27	NA	NA	NA
PCB 1248	0.5	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.29	< 0.28	< 0.28	NA	NA	NA
PCB 1254	0.5	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	NA	NA	NA
PCB 1260	0.5	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	NA	NA	NA
Total PCBs	0.5	0	0	0	0	0	0	0	0	0	0	NA	NA	NA
Metals - Total														
Aluminum	200	< 26	< 26	< 26 J	< 26	< 26	< 26	< 26	< 26	< 26	< 26 J	NA	NA	NA
Antimony	6	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	NA	NA	NA
Arsenic	3 [8]	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	NA	NA	NA
Barium	2000	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	NA	NA	NA
Beryllium	1	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	NA	NA	NA
Cadmium	4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	NA	NA	NA
Calcium	NS	< 22	31.1 B	< 22	23.9 B	< 22	< 22	95.4 B	< 22	27.5 B	< 22	NA	NA	NA
Chromium	70	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	2.1 B	< 0.9	< 0.9	< 0.9	NA	NA	NA
Cobalt	NS	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	NA	NA	NA
Copper	1,300	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	NA	NA	NA
Iron	300	< 12	< 12	13 B	< 12	< 12	< 12	13.5 B	< 12	< 12	< 12	NA	NA	NA
Lead	5	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	NA	NA	NA
Magnesium	NS	< 37	< 37	< 37	< 37	< 37	< 37	< 37	< 37	< 37	< 37	NA	NA	NA
Manganese	50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA
Mercury	2	< 0.082	< 0.082	< 0.082	< 0.082	< 0.082	< 0.082	< 0.082	< 0.082 J	< 0.082	< 0.082	NA	NA	NA
Nickel	100	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	NA	NA	NA
Potassium	NS	< 170	< 170	< 170 J	< 170 J	< 170	< 170	< 170	< 170	< 170	< 170 J	NA	NA	NA
Selenium	40	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	NA	NA	NA
Silver	40	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	NA	NA	NA
Sodium	50,000	39.6 B	77.3 B	46.3 BJ	< 19	< 19	< 19	92.3 B	< 19	< 19	41.5 BJ	NA	NA	NA
Thallium	2 [10]	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	NA	NA	NA
Vanadium	NS	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	NA	NA	NA
Zinc	2000	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	NA	NA	NA

Table 5. Summary of Ground Water Analytical Results, Ringv

Location ID		FB	FB	FB	FB	FB	FB	PFB	PFB	PFB	PFB	TB	TB	TB
Sample ID	GWQS[1]	FB(102609)	FB(102809)	FB(102909)	FB(110209)	FB(110309)	FB(110409)	PFB(101909)	FBP(102109)	PFB(102709)	PFB(103009)	TRIP BLANK (10/19/2009)	TB(102009)	TB(102109)
Sample Date		10/26/2009	10/28/2009	10/29/2009	11/2/2009	11/3/2009	11/4/2009	10/19/2009	10/21/2009	10/27/2009	10/30/2009	10/19/2009	10/20/2009	10/21/2009
Validation Status		Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final	Final
Metals - Dissolved														
Aluminum	200	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
Arsenic	3 [8]	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
Beryllium	1	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
Calcium	NS	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
Cobalt	NS	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
Iron	300	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
Magnesium	NS	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
Mercury	2	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
Potassium	NS	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
Silver	40	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
Thallium	2 [10]	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
Zinc	2000	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	< 5000	< 5000	< 5000	< 5000	NA	NA	NA
Chloride	250000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	NA	NA	NA
Sulfate	250000	< 10000	< 10000	< 10000	< 10000	< 10000	< 10000	< 10000	< 10000	< 10000	< 10000	NA	NA	NA

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ARCADIS

Table 5. Summary of Ground Water Analytical Results, Ringw

Location ID		TB	TB	TB	TB	TB	TB	TB
Sample ID	GWQS[1]	TB(102209)	TB(102609)	TB(102709)	TB(102809)	TRIP BLANK (10/30/2009)	TB(110209)	TRIP BLANK (11/4/2009)
Sample Date		10/23/2009	10/26/2009	10/27/2009	10/28/2009	10/30/2009	11/2/2009	11/4/2009
Validation Status		Final	Final	Final	Final	Final	Final	Final
VOC								
1,1,1-Trichloroethane	30	< 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
1,1,2-Trichloroethane	3	< 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
1,1-Dichloroethene	1	< 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
1,2-Dibromo-3-Chloropropane (DBCP)	0.02 [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*
1,2-Dichlorobenzene	600	< 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
1,2-Dichloropropane	1	< 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
1,4-Dichlorobenzene	75	< 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
2-Hexanone	NS	< 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
Acetone	6000	< 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
Bromodichloromethane	1	< 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
Bromomethane	10	< 0.3	< 0.3	< 0.3 J	< 0.3 J	< 0.3	< 0.3	< 0.3
Carbon disulfide	700	< 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
Chlorobenzene	50	< 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
Chloroform	70	< 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
cis-1,2-Dichloroethene	70	< 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
Cyclohexane	NS	< 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
Dichlorodifluoromethane	1,000	< 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
Freon 113	NS	< 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
Methyl acetate	7000	< 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
Methylcyclohexane	NS	< 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
o-Xylene	NS	< 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
Tetrachloroethene	1	< 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
Trans-1,2-dichloroethene	100	< 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
Trichloroethene	1	< 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
Vinyl Chloride	1	< 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
Xylenes	1,000	< 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

Table 5. Summary of Ground Water Analytical Results, Ringw

Location ID		TB	TB	TB	TB	TB	TB	TB
Sample ID	GWQS[1]	TB(102209)	TB(102609)	TB(102709)	TB(102809)	TRIP BLANK (10/30/2009)	TB(110209)	TRIP BLANK (11/4/2009)
Sample Date		10/23/2009	10/26/2009	10/27/2009	10/28/2009	10/30/2009	11/2/2009	11/4/2009
Validation Status		Final	Final	Final	Final	Final	Final	Final
SVOC								
1,1'-Biphenyl	400	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	700	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	20	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	20	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	100	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	40	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	NS	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	NS	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	600	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	40	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NS	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	NS	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	NS	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	NS	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	NS	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	30	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	NS	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	NS	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	NS	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	NS	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	30	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	NS	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	NS	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	NS	NA	NA	NA	NA	NA	NA	NA
Acetophenone	700	NA	NA	NA	NA	NA	NA	NA
Atrazine	3	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	NS	NA	NA	NA	NA	NA	NA	NA
Benzyl butyl phthalate	100	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	NS	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	7	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroisopropyl)ether	300	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	3	NA	NA	NA	NA	NA	NA	NA
Caprolactam	NS	NA	NA	NA	NA	NA	NA	NA
Carbazole	NS	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NS	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	6000	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	NS	NA	NA	NA	NA	NA	NA	NA
di-n-butyl phthalate	700	NA	NA	NA	NA	NA	NA	NA
di-n-octylphthalate	100	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	1	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	40	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	7	NA	NA	NA	NA	NA	NA	NA
Isophrone	40	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	6	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-Propylamine	10	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	10	NA	NA	NA	NA	NA	NA	NA
Phenol	2000	NA	NA	NA	NA	NA	NA	NA
Total TIC, Semi-Volatile	NS	NA	NA	NA	NA	NA	NA	NA

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Table 5. Summary of Ground Water Analytical Results, Ringw

Location ID		TB	TB	TB	TB	TB	TB	TB
Sample ID	GWQS[1]	TB(102209)	TB(102609)	TB(102709)	TB(102809)	TRIP BLANK (10/30/2009)	TB(110209)	TRIP BLANK (11/4/2009)
Sample Date		10/23/2009	10/26/2009	10/27/2009	10/28/2009	10/30/2009	11/2/2009	11/4/2009
Validation Status		Final	Final	Final	Final	Final	Final	Final
SVOC BY SIM								
Acenaphthene	400	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	NS	NA	NA	NA	NA	NA	NA	NA
Anthracene	2000	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	0.1 [0.2]	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	0.1 [0.2]	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	0.2 [10]	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	NS	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	0.5	NA	NA	NA	NA	NA	NA	NA
Chrysene	5	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	0.3 [0.5]	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	300	NA	NA	NA	NA	NA	NA	NA
Fluorene	300	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.02 [10]	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	0.2 [10]	NA	NA	NA	NA	NA	NA	NA
Naphthalene	300	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	0.3 [1]	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	NS	NA	NA	NA	NA	NA	NA	NA
Pyrene	200	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	0.5	NA	NA	NA	NA	NA	NA	NA
Metals - Total								
Aluminum	200	NA	NA	NA	NA	NA	NA	NA
Antimony	6	NA	NA	NA	NA	NA	NA	NA
Arsenic	3 [8]	NA	NA	NA	NA	NA	NA	NA
Barium	2000	NA	NA	NA	NA	NA	NA	NA
Beryllium	1	NA	NA	NA	NA	NA	NA	NA
Cadmium	4	NA	NA	NA	NA	NA	NA	NA
Calcium	NS	NA	NA	NA	NA	NA	NA	NA
Chromium	70	NA	NA	NA	NA	NA	NA	NA
Cobalt	NS	NA	NA	NA	NA	NA	NA	NA
Copper	1,300	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
Magnesium	NS	NA	NA	NA	NA	NA	NA	NA
Manganese	50	NA	NA	NA	NA	NA	NA	NA
Mercury	2	NA	NA	NA	NA	NA	NA	NA
Nickel	100	NA	NA	NA	NA	NA	NA	NA
Potassium	NS	NA	NA	NA	NA	NA	NA	NA
Selenium	40	NA	NA	NA	NA	NA	NA	NA
Silver	40	NA	NA	NA	NA	NA	NA	NA
Sodium	50,000	NA	NA	NA	NA	NA	NA	NA
Thallium	2 [10]	NA	NA	NA	NA	NA	NA	NA
Vanadium	NS	NA	NA	NA	NA	NA	NA	NA
Zinc	2000	NA	NA	NA	NA	NA	NA	NA

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Table 5. Summary of Ground Water Analytical Results, Ringw

Location ID		TB	TB	TB	TB	TB	TB	TB
Sample ID	GWQS[1]	TB(102209)	TB(102609)	TB(102709)	TB(102809)	TRIP BLANK (10/30/2009)	TB(110209)	TRIP BLANK (11/4/2009)
Sample Date		10/23/2009	10/26/2009	10/27/2009	10/28/2009	10/30/2009	11/2/2009	11/4/2009
Validation Status		Final	Final	Final	Final	Final	Final	Final
Metals - Dissolved								
Aluminum	200	NA	NA	NA	NA	NA	NA	NA
Antimony	6	NA	NA	NA	NA	NA	NA	NA
Arsenic	3 [8]	NA	NA	NA	NA	NA	NA	NA
Barium	2000	NA	NA	NA	NA	NA	NA	NA
Beryllium	1	NA	NA	NA	NA	NA	NA	NA
Cadmium	4	NA	NA	NA	NA	NA	NA	NA
Calcium	NS	NA	NA	NA	NA	NA	NA	NA
Chromium	70	NA	NA	NA	NA	NA	NA	NA
Cobalt	NS	NA	NA	NA	NA	NA	NA	NA
Copper	1,300	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
Magnesium	NS	NA	NA	NA	NA	NA	NA	NA
Manganese	50	NA	NA	NA	NA	NA	NA	NA
Mercury	2	NA	NA	NA	NA	NA	NA	NA
Nickel	100	NA	NA	NA	NA	NA	NA	NA
Potassium	NS	NA	NA	NA	NA	NA	NA	NA
Selenium	40	NA	NA	NA	NA	NA	NA	NA
Silver	40	NA	NA	NA	NA	NA	NA	NA
Sodium	50,000	NA	NA	NA	NA	NA	NA	NA
Thallium	2 [10]	NA	NA	NA	NA	NA	NA	NA
Vanadium	NS	NA	NA	NA	NA	NA	NA	NA
Zinc	2000	NA	NA	NA	NA	NA	NA	NA
Other								
Alkalinity, total (as CaCO3)	NS	NA	NA	NA	NA	NA	NA	NA
Chloride	250000	NA	NA	NA	NA	NA	NA	NA
Sulfate	250000	NA	NA	NA	NA	NA	NA	NA

Footnotes on page 33.

Table 5. 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 6. 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**	**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**	**10/22/2009**
VOC											
Benzene	1	< 10	< 1	< 0.31	< 0.21	< 0.21	< 0.19	<0.26	<0.26	< 0.23	< 0.23
Ethylbenzene	700	< 10	< 1	< 0.27	< 0.2	< 0.2	< 0.21	<0.27	<0.27	< 0.27	< 0.27
Toluene	1000	< 10	< 1	< 0.14	< 0.2	< 0.2	< 0.21	<0.15	<0.15	< 0.3	< 0.3
Xylene, -m	NS	NA	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	< 0.25
Xylene. -o	NS	NA	< 1	< 0.17	< 0.31	< 0.31	< 0.2	<0.45	<0.45	< 0.25	< 0.25
Xylenes	1,000	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	< 0.5	< 0.075	< 0.094	< 0.1	< 0.094	< 0.1	< 0.096	< 0.19	< 0.3
PCB 1221	0.5	< 0.5	< 0.5	< 0.085	< 0.47	< 0.5	< 0.47	< 0.5	< 0.48	< 0.31	< 0.41
PCB 1232	0.5	< 0.5	< 0.5	< 0.12	< 0.39	< 0.41	< 0.39	< 0.41	< 0.4	< 0.21	< 0.31
PCB 1242	0.5	< 0.5	< 0.5	< 0.13	< 0.16	< 0.17	< 0.16	< 0.17	< 0.17	< 0.089	< 0.27
PCB 1248	0.5	< 0.5	< 0.5	< 0.072	< 0.15	< 0.16	< 0.15	< 0.16	< 0.16	< 0.25	< 0.28
PCB 1254	0.5	< 0.5	< 0.5	< 0.072	< 0.11	< 0.12	< 0.11	< 0.12	< 0.11	< 0.11	< 0.18
PCB 1260	0.5	< 0.5	< 0.5	< 0.1	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.14	< 0.14
Total PCBs		0	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	< 2.4
Iron	300	**1100**	< 100	**869**	155	80.3 B	201	**649**	< 7.4	123	99.8 B
Lead	5	< 50	< 3	< 3	< 2.6	< 2.8	< 0.94	<1.4	< 1.4	< 1.7	< 1.7
Manganese	50	**120**	< 15	< 15	2.9 BJ	1.4 B	2.4 B	2.6 BJ	< 0.24	3 B	< 15
Metals -Dissolved											
Arsenic	3	NA	< 5	< 5	1.8 BJ	< 1.5	< 1.1	<1.7	< 1.7	< 2.4	< 2.4
Iron	300	NA	< 100	< 100	< 67	< 25	< 6.3	12.5B	< 7.4	40 B	< 12
Lead	5	NA	< 3	< 3	< 2.6	< 2.8	< 0.94	<1.4	< 1.4	< 1.7	< 1.7
Manganese	50	NA	< 15	< 15	3.7 BJ	1.1 B	< 0.17	1.9 BJ	< 0.24	4 B	< 15

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

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Table 6. 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**	**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**	**10/20/2009**
VOC											
Benzene	1	< 10	< 10	< 0.5	< 0.21	< 0.21	< 0.19	<0.26	<0.26	< 0.23	< 0.23
Ethylbenzene	700	< 10	< 10	< 0.5	< 0.2	< 0.2	< 0.21	<0.27	<0.27	< 0.27	< 0.27
Toluene	1000	< 10	< 10	< 0.5	< 0.2	< 0.2	< 0.21	<0.15	<0.15	< 0.3	< 0.3
Xylene, -m	NS	NA	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	< 0.25
Xylene. -o	NS	NA	NA	NA	< 0.31	< 0.31	< 0.2	<0.45	<0.45	< 0.25	< 0.25
Xylenes	1,000	NA	NA	< 1	< 0.31	< 0.31	< 0.2	<0.39	<0.39	< 0.25	< 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	< 0.33
PCB 1221	0.5	< 0.5	NA	< 0.085	< 0.47	< 0.47	< 0.51	< 0.5	< 0.47	< 0.35	< 0.45
PCB 1232	0.5	< 0.5	NA	< 0.12	< 0.39	< 0.39	< 0.42	< 0.41	< 0.39	< 0.23	< 0.34
PCB 1242	0.5	< 0.5	NA	< 0.13	< 0.16	< 0.16	< 0.18	< 0.17	< 0.16	< 0.1	< 0.3
PCB 1248	0.5	< 0.5	NA	< 0.072	< 0.15	< 0.15	< 0.16	< 0.16	< 0.15	< 0.29	< 0.31
PCB 1254	0.5	< 0.5	NA	< 0.072	< 0.11	< 0.11	< 0.12	< 0.12	< 0.11	< 0.13	< 0.2
PCB 1260	0.5	< 0.5	NA	< 0.1	< 0.12	< 0.12	< 0.13	< 0.12	< 0.12	< 0.16	< 0.15
Total PCBs		0	NA	0	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	< 2.4
Iron	300	**4600**	NA	156	95.8 B	< 25	200 J	38.6 B	52.6	28.3 B	32.4 B
Lead	5	< 50	< 50	< 3	< 2.6	3.2	< 0.94	1.8 B	< 1.4	< 1.7	< 1.7
Manganese	50	**440**	NA	< 15	1.5 B	0.72 B	8.7 BJ	1.3 B	2.2	1.9 B	0.7 B
Metals -Dissolved											
Arsenic	3	NA	NA	< 5	2	< 1.5	< 1.1	<1.7	< 1.7	< 2.4	< 2.4
Iron	300	NA	NA	< 100	67.3 B	< 25	14.9 BJ	8.8 BJ	8	14.4 B	< 12
Lead	5	NA	NA	< 3	< 2.6	< 2.8	< 0.94	<1.4	< 1.4	< 1.7	< 1.7
Manganese	50	NA	NA	< 15	1.5 B	0.83 B	3.3 BJ	0.5 B	1	0.8 B	0.6 B

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

ARCADIS

Table 6. 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**	**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**	**10/20/2009**
VOC															
Benzene	1	< 10	< 10	< 2	< 2	< 2	< 2	< 0.5	< 0.21	< 0.21	< 0.19	<0.26	<0.26	< 0.23	< 0.23
Ethylbenzene	700	< 10	< 10	< 2	< 2	< 2	< 2	< 0.5	< 0.2	< 0.2	< 0.21	<0.27	<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	< 0.3
Xylene, -m	NS	NA	NA	< 2	< 2	< 2	< 2	NA	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	< 0.25
Xylene. -o	NS	NA	NA	< 2	< 2	< 2	< 2	NA	< 0.31	< 0.31	< 0.2	<0.45	<0.45	< 0.25	< 0.25
Xylenes	1,000	NA	NA	NA	NA	NA	NA	< 1	< 0.31	< 0.31	< 0.2	<0.39	<0.39	< 0.25	< 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	< 0.36
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	< 0.49
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	< 0.37
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	< 0.32
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	< 0.33
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	< 0.21
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	< 0.17
Total PCBs		0	NA	NA	NA	NA	NA	0	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	< 2.4
Iron	300	**9300**	NA	**35600 JMt**	**750**	**124000**	**17000**	**2000**	**1540**	250	**1860 J**	**1710**	**590**	**1390**	**2550**
Lead	5	< 50	< 50	< 5	< 5	< 5	< 5	< 3	< 2.6	< 2.8	< 0.94	<1.4	< 1.4	< 1.7	< 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	**1010**
Metals -Dissolved															
Arsenic	3	NA	NA	NA	NA	NA	NA	< 5	< 1.5	< 1.5	< 1.1	<1.7	< 1.7	< 2.4	< 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	**632**
Lead	5	NA	NA	NA	NA	NA	NA	< 3	< 2.6	< 2.8	< 0.94	<1.4	< 1.4	< 1.7	< 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	**1080**

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

ARCADIS

Table 6. 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**	**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**	**10/21/2009**
VOC											
Benzene	1	< 10	< 10	< 0.5	< 0.21	< 0.21	< 0.19	<0.26	<0.26	< 0.23	< 0.23
Ethylbenzene	700	< 10	< 10	< 0.5	< 0.2	< 0.2	< 0.21	<0.27	<0.27	< 0.27	< 0.27
Toluene	1000	< 10	< 10	< 0.5	< 0.2	< 0.2	< 0.21	<0.15	<0.15	< 0.3	< 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	< 0.25
Xylene. -o	NS	NA	NA	NA	< 0.31	< 0.31	< 0.2	<0.45	<0.45	< 0.25	< 0.25
Xylenes	1,000	NA	NA	< 1	< 0.31	< 0.31	< 0.2	<0.39	<0.39	< 0.25	< 0.25
PCBs											
PCB 1016	0.5	< 0.5	NA	< 0.084	< 0.1	< 0.094	< 0.1	< 0.094	< 0.094	< 0.2	< 0.36
PCB 1221	0.5	< 0.5	NA	< 0.094	< 0.52	< 0.47	< 0.52	< 0.47	< 0.47	< 0.32	< 0.49
PCB 1232	0.5	< 0.5	NA	< 0.14	< 0.43	< 0.39	< 0.43	< 0.39	< 0.39	< 0.21	< 0.37
PCB 1242	0.5	< 0.5	NA	< 0.15	< 0.18	< 0.16	< 0.18	< 0.16	< 0.16	< 0.093	< 0.32
PCB 1248	0.5	< 0.5	NA	< 0.08	< 0.17	< 0.15	< 0.17	< 0.15	< 0.15	< 0.26	< 0.33
PCB 1254	0.5	< 0.5	NA	< 0.08	< 0.12	< 0.11	< 0.12	< 0.11	< 0.11	< 0.12	< 0.21
PCB 1260	0.5	< 0.5	NA	< 0.11	< 0.13	< 0.12	< 0.13	< 0.12	< 0.12	< 0.15	< 0.17
Total PCBs		0	NA	0	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	< 2.4
Iron	300	**33000**	NA	**7070**	**8480**	**19400**	**5700**	**3770**	**2540**	**7480**	**3160**
Lead	5	< 50	< 50	< 3	< 2.6	4.1	< 0.94	1.6 B	< 1.4	< 1.7	< 1.7
Manganese	50	**4100**	NA	**2720 J**	**2390**	**2100**	**1820**	**1840**	**680**	**440**	**402**
Metals -Dissolved											
Arsenic	3	NA	NA	< 5	< 1.5	< 1.5	< 1.1	<1.7	< 1.7	< 2.4	< 2.4
Iron	300	NA	NA	**6080**	**6380**	**18000**	**675**	11 B	< 7.4	**467**	206
Lead	5	NA	NA	< 3	< 2.6	< 2.8	< 0.94	<1.4	< 1.4	< 1.7	< 1.7
Manganese	50	NA	NA	**2720 J**	**2370**	**2070**	**1870**	**1840**	< 0.24	**419**	**395**

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

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Table 6. 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**	**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**	**10/21/2009**
VOC											
Benzene	1	< 10	< 10	< 0.5	< 0.21	< 0.21	< 0.19	<0.26	<0.26	< 0.23	< 0.23
Ethylbenzene	700	< 10	< 10	< 0.5	< 0.2	< 0.2	< 0.21	<0.27	<0.27	< 0.27	< 0.27
Toluene	1000	< 10	< 10	< 0.5	< 0.2	< 0.2	< 0.21	<0.15	<0.15	< 0.3	< 0.3
Xylene, -m	NS	NA	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	< 0.25
Xylene. -o	NS	NA	NA	NA	< 0.31	< 0.31	< 0.2	<0.45	<0.45	< 0.25	< 0.25
Xylenes	1,000	NA	NA	< 1	< 0.31	< 0.31	< 0.2	<0.39	<0.39	< 0.25	< 0.25
PCBs											
PCB 1016	0.5	< 0.5	NA	< 0.075	< 0.099	< 0.1	< 0.1	< 0.1	< 0.11	< 0.19	< 0.3
PCB 1221	0.5	< 0.5	NA	< 0.085	< 0.49	< 0.51	< 0.51	< 0.5	< 0.54	< 0.31	< 0.41
PCB 1232	0.5	< 0.5	NA	< 0.12	< 0.41	< 0.42	< 0.42	< 0.41	< 0.45	< 0.21	< 0.31
PCB 1242	0.5	< 0.5	NA	< 0.13	< 0.17	< 0.18	< 0.18	< 0.17	< 0.19	< 0.091	< 0.27
PCB 1248	0.5	< 0.5	NA	< 0.072	< 0.16	< 0.17	< 0.16	< 0.16	< 0.18	< 0.26	< 0.28
PCB 1254	0.5	< 0.5	NA	< 0.072	< 0.11	< 0.12	< 0.12	< 0.12	< 0.13	< 0.11	< 0.18
PCB 1260	0.5	< 0.5	NA	< 0.1	< 0.12	< 0.13	< 0.13	< 0.12	< 0.13	< 0.15	< 0.14
Total PCBs		0	NA	0	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	< 2.4
Iron	300	**31000**	NA	**20500**	**24600**	**27900**	**20900**	**29300**	**21600**	**16900**	**13100**
Lead	5	< 50	< 50	< 3	< 2.6	< 2.8	< 0.94	1.5 B	1.7 B	< 1.7	< 1.7
Manganese	50	**1100**	NA	**1490**	**2970**	**2020**	**1500**	**2100**	**1740**	**776**	**412**
Metals -Dissolved											
Arsenic	3	NA	NA	< 5	< 1.5	< 1.5	< 1.1	< 1.7	< 1.7	< 2.4	< 2.4
Iron	300	NA	NA	**17100**	**20700**	**24900**	**5100**	**16300**	**4000**	**524**	**502**
Lead	5	NA	NA	< 3	2.6 B	< 2.8	< 0.94	1.4 B	< 1.4 B	< 1.7	< 1.7
Manganese	50	NA	NA	**1520**	**2730**	**1960**	**1530**	**2110**	**2110**	**740**	**386**

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

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Table 6. 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 6. 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**	**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**	**10/21/2009**
VOC											
Benzene	1	< 10	< 10	< 0.5	< 0.21	< 0.21	< 0.19	<0.26	<0.26	< 0.23	< 0.23
Ethylbenzene	700	< 10	< 10	< 0.5	< 0.2	< 0.2	< 0.21	<0.27	<0.27	< 0.27	< 0.27
Toluene	1000	< 10	< 10	< 0.5	< 0.2	< 0.2	< 0.21	<0.15	<0.15	< 0.3	< 0.3
Xylene, -m	NS	NA	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	< 0.25
Xylene. -o	NS	NA	NA	NA	< 0.31	< 0.31	< 0.2	<0.45	<0.45	< 0.25	< 0.25
Xylenes	1,000	NA	NA	< 1	< 0.31	< 0.31	< 0.2	<0.39	<0.39	< 0.25	< 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	< 0.34
PCB 1221	0.5	< 0.5	NA	< 0.085	< 0.51	< 0.5	< 0.52	< 0.49	< 0.47	< 0.31	< 0.46
PCB 1232	0.5	< 0.5	NA	< 0.12	< 0.42	< 0.41	< 0.43	< 0.41	< 0.39	< 0.21	< 0.35
PCB 1242	0.5	< 0.5	NA	< 0.13	< 0.18	< 0.17	< 0.18	< 0.17	< 0.16	< 0.089	< 0.3
PCB 1248	0.5	< 0.5	NA	< 0.072	< 0.17	< 0.16	< 0.17	< 0.16	< 0.15	< 0.25	< 0.31
PCB 1254	0.5	< 0.5	NA	< 0.072	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11	< 0.11	< 0.2
PCB 1260	0.5	< 0.5	NA	< 0.1	< 0.13	< 0.12	< 0.13	< 0.12	< 0.12	< 0.14	< 0.16
Total PCBs		0	NA	0	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	< 2.4
Iron	300	**7000**	NA	**1360**	**2640**	**2340**	**1440**	**4840**	**1940**	**3480**	**9200**
Lead	5	< 50	< 50	< 3	< 2.6	< 2.8	< 0.94	2.9 B	< 1.4	< 1.7	< 1.7
Manganese	50	**420**	NA	**3150**	**2710**	**1480**	**2880**	**2230 J**	**2510**	**2180**	**1120**
Metals -Dissolved											
Arsenic	3	NA	NA	< 5	< 1.5	< 1.5	< 1.1	2 B	< 1.7	< 2.4	< 2.4
Iron	300	NA	NA	270	**1680**	**535**	30.5 BJ	181	**335**	**373**	**510**
Lead	5	NA	NA	< 3	< 2.6	< 2.8	< 0.94	1.9 B	< 1.4	< 1.7	< 1.7
Manganese	50	NA	NA	**3140**	**2700**	**1400**	**2350**	**2120 J**	**2460**	**2180**	**1290**

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

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Table 6. 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.

ARCADIS

Table 6. 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.

ARCADIS

Table 6. 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 (DUP)**
Sample Date		**4/2/2007**	**10/12/2007**	**4/29/2008**	**9/10/2008**	**7/1/2009**	**10/21/2009**	**10/21/2009**
VOC								
Benzene	1	< 0.21	< 0.19	<0.26	<0.26	< 0.23	< 0.23	< 0.23
Ethylbenzene	700	< 0.2	< 0.21	<0.27	<0.27	< 0.27	< 0.27	< 0.27
Toluene	1000	< 0.2	< 0.21	<0.15	<0.15	< 0.3	< 0.3	< 0.3
Xylene, -m	NS	NA	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	< 0.42	< 0.35	<0.39	<0.39	< 0.25	< 0.25	< 0.25
Xylene. -o	NS	< 0.31	< 0.2	<0.45	<0.45	< 0.25	< 0.25	< 0.25
Xylenes	1,000	< 0.31	< 0.2	<0.39	<0.39	< 0.25	< 0.25	< 0.25
PCBs								
PCB 1016	0.5	< 0.1	< 0.094	< 0.1	< 0.094	< 0.19	< 0.35	< 0.34
PCB 1221	0.5	< 0.51	< 0.47	< 0.51	< 0.47	< 0.31	< 0.48	< 0.47
PCB 1232	0.5	< 0.42	< 0.39	< 0.43	< 0.39	< 0.21	< 0.36	< 0.35
PCB 1242	0.5	< 0.18	< 0.16	< 0.18	< 0.16	< 0.089	< 0.32	< 0.31
PCB 1248	0.5	< 0.17	< 0.15	< 0.17	< 0.15	< 0.25	< 0.33	< 0.32
PCB 1254	0.5	< 0.12	< 0.11	< 0.12	< 0.11	< 0.11	< 0.21	< 0.2
PCB 1260	0.5	< 0.13	< 0.12	< 0.13	< 0.12	< 0.14	< 0.16	< 0.16
Total PCBs		0	0	0	0	0	0	0
Metals -Total								
Arsenic	3	< 1.5	< 1.1	< 1.7	< 1.7	< 2.4	< 2.4	< 2.4
Iron	300	**1110**	**598**	298	71.5 B	**4160**	182 J	170 J
Lead	5	< 2.8	< 0.94	< 1.4	< 1.4	< 1.7	< 1.7	< 1.7
Manganese	50	**882**	**214**	25.1	**87.5**	**2570**	18.3	17.4
Metals -Dissolved								
Arsenic	3	< 1.5	< 1.1	< 1.7	< 1.7	< 2.4	< 2.4	< 2.4
Iron	300	**788**	< 6.3	13.4 B	18.2 B	**774**	< 100	< 12
Lead	5	< 2.8	< 0.94	< 1.4	< 1.4	< 1.7	< 1.7	< 1.7
Manganese	50	**866**	**161**	3 B	84.4	**2540**	0.8 B	0.7 BJ

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

ARCADIS

Table 6. 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**
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**
VOC										
Benzene	1	< 10	< 10	< 10	**2 J**	< 2	< 2	< 2	< 2	**2**
Ethylbenzene	700	< 10	< 10	< 10	0.2 J	2.7	< 2	< 2	< 2	< 5
Toluene	1000	< 10	< 10	< 10	< 5	< 2	< 2	< 2	< 2	< 5
Xylene, -m	NS	NA	NA	NA	< 5	< 2	< 2	< 2	< 2	NA
Xylene, -m,p	NS	NA	NA	NA	NA	NA	NA	NA	NA	1 J
Xylene. -o	NS	NA	NA	NA	4 J	< 2	< 2	< 2	< 2	2 J
Xylenes	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs										
PCB 1016	0.5	NA	< 1	NA	NA	NA	NA	NA	NA	NA
PCB 1221	0.5	NA	< 1	NA	NA	NA	NA	NA	NA	NA
PCB 1232	0.5	NA	< 1	NA	NA	NA	NA	NA	NA	NA
PCB 1242	0.5	NA	< 1	NA	NA	NA	NA	NA	NA	NA
PCB 1248	0.5	NA	< 1	NA	NA	NA	NA	NA	NA	NA
PCB 1254	0.5	NA	< 1	NA	NA	NA	NA	NA	NA	NA
PCB 1260	0.5	NA	< 1	NA	NA	NA	NA	NA	NA	NA
Total PCBs		NA	0	NA	NA	NA	NA	NA	NA	NA
Metals -Total										
Arsenic	3	NA	**6**	< 2	NA	< 2	< 2	< 5	< 5	2.6R
Iron	300	NA	**20000**	NA	NA	**19900**	**1160**	**4090**	**22300**	**24300**
Lead	5	NA	**60**	< 50	NA	< 5	< 5	< 5	18.8	< 20.8
Manganese	50	NA	**2900**	NA	NA	**1680**	**1040**	**438**	**1440**	**1610**
Metals -Dissolved										
Arsenic	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	50	NA	NA	NA	NA	NA	NA	NA	NA	NA

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

ARCADIS

Table 6. 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**
Sample Date		**7/29/1992**	**2/17/1993**	**7/26/1993**	**2/20/1995**	**8/7/1995**	**8/16/1999**	**4/13/2000**	**10/14/2004**
VOC									
Benzene	1	**3**	< 1	< 1	< 1	< 1	NA	NA	**1.2**
Ethylbenzene	700	4 J	< 5	< 5	< 10	< 10	NA	NA	< 0.5
Toluene	1000	2 J	< 5	< 5	< 10	< 10	NA	NA	< 0.5
Xylene, -m	NS	NA	NA	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	9	< 5	< 5	< 10	< 10	NA	NA	NA
Xylene. -o	NS	7	< 5	< 5	< 10	< 10	NA	NA	NA
Xylenes	1,000	NA	NA	NA	NA	NA	NA	NA	< 1
PCBs									
PCB 1016	0.5	NA	NA	NA	NA	NA	NA	NA	< 0.084
PCB 1221	0.5	NA	NA	NA	NA	NA	NA	NA	< 0.094
PCB 1232	0.5	NA	NA	NA	NA	NA	NA	NA	< 0.14
PCB 1242	0.5	NA	NA	NA	NA	NA	NA	NA	< 0.15
PCB 1248	0.5	NA	NA	NA	NA	NA	NA	NA	< 0.08
PCB 1254	0.5	NA	NA	NA	NA	NA	NA	NA	< 0.08
PCB 1260	0.5	NA	NA	NA	NA	NA	NA	NA	< 0.11
Total PCBs		NA	NA	NA	NA	NA	NA	NA	0
Metals -Total									
Arsenic	3	**3.6 BR**	3 B	**8.3 B**	< 2	**4.4 B**	NA	NA	< 5
Iron	300	**38200**	**12900**	**21900**	**11700**	**23400**	NA	NA	**33300**
Lead	5	< 24.4	1.8 B	**14**	< 2	**31.9**	< 1.7	1.6	< 3
Manganese	50	**1150**	**1080**	**2440**	**1060**	**1300**	NA	NA	**1200 J**
Metals -Dissolved									
Arsenic	3	NA	NA	NA	NA	NA	NA	NA	< 5
Iron	300	NA	NA	NA	NA	NA	NA	NA	**31900**
Lead	5	NA	NA	NA	NA	NA	NA	< 1.3	< 3
Manganese	50	NA	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 6. 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)**	**OB-12**
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**	**10/20/2009**
VOC													
Benzene	1	NA	< 5	< 1	< 0.31	< 0.21	< 0.21	< 0.19	<0.26	<0.26	< 0.23	< 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	< 0.27
Toluene	1000	NA	< 5	< 1	< 0.14	< 0.2	< 0.2	< 0.21	<0.15	<0.15	< 0.3	< 0.3	< 0.3
Xylene, -m	NS	NA	< 5	NA	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	< 0.25
Xylene. -o	NS	NA	< 5	< 1	< 0.17	< 0.31	< 0.31	< 0.2	<0.45	<0.45	< 0.25	< 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	< 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	< 0.32
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	< 0.43
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	< 0.33
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	< 0.28
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	< 0.29
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	< 0.19
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	< 0.15
Total PCBs		0	NA	0	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	< 2.4
Iron	300	NA	NA	< 100	< 100	104	< 25	19.5 BJ	67.4 B	< 7.4	72.9 B	79.6 B	< 100
Lead	5	< 50	< 50	< 3	< 3	< 2.6	< 2.8	< 0.94	< 1.4	< 1.4	< 1.7	< 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	< 15
Metals -Dissolved													
Arsenic	3	NA	NA	< 5	< 5	< 1.5	< 1.5	< 1.1	< 1.7	< 1.7	< 2.4	< 2.4	< 2.4
Iron	300	NA	NA	< 100	< 100	< 67	< 25	20.5 BJ	12 B	< 7.4	15.7 B	< 12	16.7 B
Lead	5	NA	NA	< 3	< 3	< 2.6	< 2.8	< 0.94	< 1.4	< 1.4	< 1.7	< 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	1.4 B

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

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Table 6. 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**
Sample Date		**6/17/1986**	**3/24/1988**	**10/30/1989**	**1/30/1990**	**4/24/1990**	**7/24/1990**	**10/13/2004**
VOC								
Benzene	1	NA	< 5	< 2	< 2	< 2 JS	< 2	< 0.5
Ethylbenzene	700	NA	< 5	< 2	< 2	< 2 JS	< 2	< 0.5
Toluene	1000	NA	< 5	< 2	< 2	< 2 JS	< 2	< 0.5
Xylene, -m	NS	NA	< 5	< 2	< 2	< 2 JS	< 2	NA
Xylene, -m,p	NS	NA	NA	NA	NA	NA	NA	NA
Xylene. -o	NS	NA	< 5	< 2	< 2	< 2 JS	< 2	NA
Xylenes	1,000	NA	NA	NA	NA	NA	NA	< 1
PCBs								
PCB 1016	0.5	< 0.5	NA	NA	NA	NA	NA	< 0.075
PCB 1221	0.5	< 0.5	NA	NA	NA	NA	NA	< 0.085
PCB 1232	0.5	< 0.5	NA	NA	NA	NA	NA	< 0.12
PCB 1242	0.5	< 0.5	NA	NA	NA	NA	NA	< 0.13
PCB 1248	0.5	< 0.5	NA	NA	NA	NA	NA	< 0.072
PCB 1254	0.5	< 0.5	NA	NA	NA	NA	NA	< 0.072
PCB 1260	0.5	< 0.5	NA	NA	NA	NA	NA	< 0.1
Total PCBs		0	NA	NA	NA	NA	NA	0
Metals -Total								
Arsenic	3	< 2	NA	< 2	< 2	< 5	< 5	< 5
Iron	300	NA	NA	206 JMt	**1050**	**407**	**2200**	< 100
Lead	5	< 50	NA	< 5	< 5	< 5	31.4	< 3
Manganese	50	NA	NA	< 10	12	< 10	31	< 15 J
Metals -Dissolved								
Arsenic	3	NA	NA	NA	NA	NA	NA	< 5
Iron	300	NA	NA	NA	NA	NA	NA	< 100
Lead	5	NA	NA	NA	NA	NA	NA	< 3
Manganese	50	NA	NA	NA	NA	NA	NA	< 15 J

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

ARCADIS

Table 6. 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**
Sample Date		**10/3/2006**	**4/3/2007**	**10/8/2007**	**4/28/2008**	**9/10/2008**	**7/1/2009**	**10/21/2009**
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
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	< 0.1	< 0.11	< 0.099	< 0.1	< 0.094		< 0.34
PCB 1221	0.5	< 0.51	< 0.53	< 0.49	< 0.52	< 0.47	< 0.19	< 0.47
PCB 1232	0.5	< 0.42	< 0.44	< 0.41	< 0.43	< 0.49	< 0.31	< 0.35
PCB 1242	0.5	< 0.18	< 0.18	< 0.17	< 0.18	< 0.16	< 0.21	< 0.31
PCB 1248	0.5	< 0.16	< 0.17	< 0.16	< 0.17	< 0.15	< 0.089	< 0.32
PCB 1254	0.5	< 0.12	< 0.12	< 0.11	< 0.12	< 0.11	< 0.25	< 0.2
PCB 1260	0.5	< 0.13	< 0.13	< 0.12	< 0.13	< 0.12	< 0.11	< 0.16
Total PCBs		0	0	0	0	0	< 0.14	0
							0	
Metals -Total								
Arsenic	3	< 1.5	< 1.5	< 1.1	< 1.7	< 1.7	< 2.4	< 2.4
Iron	300	67.2 B	< 25	10.3 BJ	40.4 B	20.1 B	63.1 B	79.4 BJ
Lead	5	< 2.6	< 2.8	< 0.94	< 1.4	< 1.4	< 1.7	< 1.7
Manganese	50	1.1 B	< 0.6	1.4 BJ	0.8 B	1.8 B	5.4 B	1.2 BJ
Metals -Dissolved								
Arsenic	3	< 1.5	< 1.5	< 1.1	< 1.7	< 1.7	< 2.4	< 2.4
Iron	300	< 67	< 25	< 6.3 J	16.7 B	< 7.4	14 B	12.6 BJ
Lead	5	< 2.6	< 2.8	< 0.94	< 1.4	< 1.4	< 1.7	< 1.7
Manganese	50	0.63 B	< 0.6	1.3 BJ	0.7 B	2.8 B	2 B	1.1 BJ

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

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Table 6. 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**	**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**	**7/29/1992**	**2/17/1993**	**7/27/1993**	**2/21/1995**
VOC												
Benzene	1	NA	< 5	< 2	< 2	< 2	< 2	< 1	< 0.5	< 1	< 1	< 1
Ethylbenzene	700	NA	< 5	< 2	< 2	< 2	< 2	< 5	< 5	< 5	< 5	< 10
Toluene	1000	NA	< 5	< 2	< 2	< 2	< 2	< 5	< 5	< 5	< 5	< 10
Xylene, -m	NS	NA	< 5	< 2	< 2	< 2	< 2	NA	NA	NA	NA	NA
Xylene, -m,p	NS	NA	NA	NA	NA	NA	NA	< 5	< 5	< 5	< 5	< 10
Xylene. -o	NS	NA	< 5	< 2	< 2	< 2	< 2	< 5	< 5	< 5	< 5	< 10
Xylenes	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs												
PCB 1016	0.5	< 0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1221	0.5	< 0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1232	0.5	< 0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1242	0.5	< 0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1248	0.5	< 0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1254	0.5	< 0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1260	0.5	< 0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs		0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals -Total												
Arsenic	3	**15**	**56.6**	**23.3**	**26.5**	**28.3**	**20.5**	**28.3**	**41.3 J**	**14.4**	**41.2**	**32.7**
Iron	300	NA	NA	**74400**	**86500**	**44300**	**51700**	**67200**	**376000**	**86400**	**290000**	**64500**
Lead	5	< 50	**85**	17.9	**17.9**	< 5	15.5	< 20.8	**107**	1.7 B	**117**	3.8
Manganese	50	NA	NA	**1360**	**3780**	**4860**	**2880**	**4140**	**6440**	**2670**	**7350**	**4150**
Metals -Dissolved												
Arsenic	3	NA	**29.4**	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	5	NA	< 50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	50	NA	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 6. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		OB-14A								OB-14A			
Sample Name	**GWQS[1]**	**OB-14A**	**OB-14A**	**OB-14A**	**OB-14A**	**OB-14A**	**OB-14A**	**OB-14A**	**OB-14A (DUP)**	**OB-14A**	**OB-14A**	**OB-14A**	**OB-14A**
Sample Date		**8/7/1995**	**8/16/1999**	**4/13/2000**	**10/12/2004**	**9/27/2006**	**4/9/2007**	**10/11/2007**	**10/11/2007**	**4/30/2008**	**9/11/2008**	**7/6/2009**	**10/23/2009**
VOC													
Benzene	1	< 1	< 10	NA	< 0.5	< 0.21	< 0.21	< 0.19	< 0.19	<0.26	<0.26	< 0.23	< 0.23
Ethylbenzene	700	< 10	< 10	NA	< 0.5	< 0.2	< 0.2	< 0.21	< 0.21	<0.27	<0.27	< 0.27	< 0.27
Toluene	1000	< 10	< 10	NA	< 0.5	< 0.2	< 0.2	< 0.21	< 0.21	<0.15	.64 J	< 0.3	< 0.3
Xylene, -m	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	< 10	NA	NA	NA	< 0.42	< 0.42	< 0.35	< 0.35	<0.39	<0.39	< 0.25	< 0.25
Xylene. -o	NS	< 10	NA	NA	NA	< 0.31	< 0.31	< 0.2	< 0.2	<0.45	<0.45	< 0.25	< 0.25
Xylenes	1,000	NA	< 10	NA	< 1	< 0.31	< 0.31	< 0.2	< 0.2	<0.39	<0.39	< 0.25	< 0.25
PCBs													
PCB 1016	0.5	NA	NA	NA	< 0.075 J	< 0.1	< 0.1	< 0.099	< 0.094	< 0.1	< 0.098	< 0.2	< 0.33
PCB 1221	0.5	NA	NA	NA	< 0.085	< 0.51	< 0.51	< 0.49	< 0.47	< 0.51	< 0.49	< 0.33	< 0.46
PCB 1232	0.5	NA	NA	NA	< 0.12	< 0.42	< 0.42	< 0.41	< 0.39	< 0.42	< 0.41	< 0.22	< 0.34
PCB 1242	0.5	NA	NA	NA	< 0.13	< 0.18	< 0.18	< 0.17	< 0.16	< 0.18	< 0.17	< 0.096	< 0.3
PCB 1248	0.5	NA	NA	NA	< 0.072	< 0.17	< 0.17	< 0.16	< 0.15	< 0.17	< 0.16	< 0.27	< 0.31
PCB 1254	0.5	NA	NA	NA	< 0.072	< 0.12	< 0.12	< 0.11	< 0.11	< 0.12	< 0.11	< 0.12	< 0.2
PCB 1260	0.5	NA	NA	NA	< 0.1	< 0.13	< 0.13	< 0.12	< 0.12	< 0.13	< 0.12	< 0.15	< 0.16
Total PCBs		NA	NA	NA	0	0	0	0	0	0	0	0	0
Metals -Total													
Arsenic	3	**4.9 B**	**20.5**	**11.9**	**16.7**	**4.5 J**	2.4	**23.1**	**21.6**	**14.4**	**2.3 B**	2.8 B	< 2.4
Iron	300	**103000**	NA	NA	**55600**	**42300**	**45500**	**61400**	**59600**	**52500**	**34700**	**50500**	**38600**
Lead	5	**47**	< 1.7	3.3	< 3	< 2.6	3.3	1.4 B	1 B	4	< 1.4	< 1.7	< 1.7
Manganese	50	**3320**	NA	NA	**2320**	**1050 J**	**1040 J**	**2770**	**2640**	**1870 J**	**773**	**1360**	**969**
Metals -Dissolved													
Arsenic	3	NA	NA	**9.7 B**	**19.6**	**5.5 J**	< 1.5	**5.6**	**5**	**3.8**	< 1.7	2.5 B	< 2.4
Iron	300	NA	NA	NA	**59400**	**46100**	**46200**	**39900**	**32400**	**18800**	**15100**	**47100**	**5210**
Lead	5	NA	NA	< 1.3	< 3	< 2.6	2.9 B	< 0.94	1.2 B	2.7 B	< 1.4	< 1.7	< 1.7
Manganese	50	NA	NA	NA	**2550**	**1230 J**	**1070 J**	**2710**	**2860**	**1810 J**	**722**	**1400**	**900**

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

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Table 6. 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**	**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**	**7/28/1992**	**2/17/1993**	**7/27/1993**
VOC											
Benzene	1	NA	< 5	< 2	< 2	< 2	< 2	< 1	< 0.5	< 1	< 1
Ethylbenzene	700	NA	< 5	< 2	< 2	< 2	< 2	< 5	< 5	< 5	< 5
Toluene	1000	NA	< 5	< 2	< 2	< 2	< 2	4 J	< 5	< 5	< 5
Xylene, -m	NS	NA	< 5	< 2	< 2	< 2	< 2	NA	NA	NA	NA
Xylene, -m,p	NS	NA	NA	NA	NA	NA	NA	< 5	< 5	< 5	< 5
Xylene. -o	NS	NA	< 5	< 2	< 2	< 2	< 2	< 5	< 5	< 5	< 5
Xylenes	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs											
PCB 1016	0.5	< 0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1221	0.5	< 0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1232	0.5	< 0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1242	0.5	< 0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1248	0.5	< 0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1254	0.5	< 0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1260	0.5	< 0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs		0	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals -Total											
Arsenic	3	**3.6**	< 2	**5.14**	< 2	**19.2**	< 5	**7.9**	< 3 R	1.6 B	**3.2 B**
Iron	300	NA	NA	**14200**	**14700**	**37600**	**8710**	**15900**	**1780 E**	**1300**	**2040**
Lead	5	< 50	< 50	< 5	< 5	19.8	14	**26.4**	< 24.4	< 0.8	1.5 B
Manganese	50	NA	NA	**2120**	**1760**	**2000**	**1400**	**1840**	**1390**	**1380**	**1360**
Metals -Dissolved											
Arsenic	3	NA	< 2	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	5	NA	< 50	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 6. 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**	**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**	**7/6/2009**	**10/23/2009**
VOC											
Benzene	1	< 1	< 1	< 0.5	< 0.21	< 0.21	< 0.19	<0.26	<0.26	< 0.23	< 0.23
Ethylbenzene	700	< 10	< 10	< 0.5	< 0.2	< 0.2	< 0.21	<0.27	<0.27	< 0.27	< 0.27
Toluene	1000	< 10	< 10	< 0.5	< 0.2	< 0.2	< 0.21	<0.15	<0.15	< 0.3	< 0.3
Xylene, -m	NS	NA	NA	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	< 0.25	< 0.25
Xylene. -o	NS	< 10	< 10	NA	< 0.31	< 0.31	< 0.2	<0.45	<0.45	< 0.25	< 0.25
Xylenes	1,000	NA	NA	< 1	< 0.31	< 0.31	< 0.2	<0.39	<0.39	< 0.25	< 0.25
PCBs											
PCB 1016	0.5	NA	NA	< 0.075 J	< 0.1	< 0.12	< 0.11	< 0.1	< 0.096	< 0.19	< 0.3
PCB 1221	0.5	NA	NA	< 0.085	< 0.51	< 0.59	< 0.53	< 0.51	< 0.48	< 0.31	< 0.41
PCB 1232	0.5	NA	NA	< 0.12	< 0.42	< 0.49	< 0.44	< 0.42	< 0.4	< 0.21	< 0.31
PCB 1242	0.5	NA	NA	< 0.13	< 0.18	< 0.21	< 0.18	< 0.18	< 0.17	< 0.089	< 0.27
PCB 1248	0.5	NA	NA	< 0.072	< 0.17	< 0.19	< 0.17	< 0.17	< 0.16	< 0.25	< 0.28
PCB 1254	0.5	NA	NA	< 0.072	< 0.12	< 0.14	< 0.12	< 0.12	< 0.11	< 0.11	< 0.18
PCB 1260	0.5	NA	NA	< 0.1	< 0.13	< 0.15	< 0.13	< 0.13	< 0.12	< 0.14	< 0.14
Total PCBs		NA	NA	0	0	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	< 2.4	< 2.4
Iron	300	**1350**	**799**	**1740 J**	**959**	**962**	**642**	**890**	**516**	**1040**	**719**
Lead	5	< 2	**7.2**	3.6	< 2.6	< 2.8	1.1 B	3.2	< 1.4	< 1.7	< 1.7
Manganese	50	**1270**	**834**	**1860**	**1900**	**2040 J**	**1500**	**1740 J**	**1560**	**2100**	**1630**
Metals -Dissolved											
Arsenic	3	NA	NA	< 5	< 1.5	< 1.5	1.6 B	< 1.7	< 1.7	< 2.4	< 2.4
Iron	300	NA	NA	**407**	**949**	**894**	26.5 J	38.2 B	38.2 B	70.5 B	54.2 B
Lead	5	NA	NA	< 3	< 2.6	< 2.8	< 0.94	2.1 B	2.1 B	< 1.7	< 1.7
Manganese	50	NA	NA	**1890**	**1910**	**2020 J**	**1430**	**1690 J**	**1690 J**	**2130**	**1660**

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

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Table 6. 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 6. 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**	**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**	**2/21/1995**
VOC									
Benzene	1	< 2	< 2	< 2	< 1	< 0.5	< 1	< 1	< 1
Ethylbenzene	700	< 2	< 2	< 2	< 5	< 5	< 5	< 5	< 10
Toluene	1000	< 2	< 2	< 2	< 5	< 5	< 5	< 5	< 10
Xylene, -m	NS	< 2	< 2	< 2	NA	NA	NA	NA	NA
Xylene, -m,p	NS	NA	NA	NA	< 5	< 5	< 5	< 5	< 10
Xylene. -o	NS	< 2	< 2	< 2	< 5	< 5	< 5	< 5	< 10
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	< 2	< 5	< 5	**5.2**	**26.2**	2.9 B	**4.6 B**	< 2
Iron	300	**8910**	**21700**	**12600**	**26400**	**28000**	**7850**	**10300**	**2040**
Lead	5	< 5	6.13	14.3	< 20.8	< 24.4	0.97 B	**7.5**	< 2
Manganese	50	**410**	**1050**	**592**	**2750**	**4910**	**2410**	**6140**	**3230**
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 6. 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**	**OB-15B**	**OB-15B**
Sample Date		**8/7/1995**	**10/12/2004**	**10/3/2006**	**4/12/2007**	**10/16/2007**	**5/2/2008**	**5/2/2008**	**7/6/2009**	**10/26/2009**
VOC										
Benzene	1	< 1	< 0.5	< 0.21	< 0.21	< 0.19	<0.26	<0.26	< 0.23	< 0.23
Ethylbenzene	700	< 10	< 0.5	< 0.2	< 0.2	< 0.21	<0.27	<0.27	< 0.27	< 0.27
Toluene	1000	< 10	< 0.5	< 0.2	< 0.2	< 0.21	<0.15	<0.15	< 0.3	< 0.3
Xylene, -m	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	< 10	NA	< 0.42	< 0.42	< 0.35	<0.39	<0.39	< 0.25	< 0.25
Xylene. -o	NS	< 10	NA	< 0.31	< 0.31	< 0.2	<0.45	<0.45	< 0.25	< 0.25
Xylenes	1,000	NA	< 1	< 0.31	< 0.31	< 0.2	<0.39	<0.39	< 0.25	< 0.25
PCBs										
PCB 1016	0.5	NA	< 0.075 J	< 0.094	< 0.1	< 0.1	< 0.1	< 0.096	< 0.2	< 0.35
PCB 1221	0.5	NA	< 0.085	< 0.47	< 0.52	< 0.52	< 0.5	< 0.48	< 0.32	< 0.48
PCB 1232	0.5	NA	< 0.12	< 0.39	< 0.43	< 0.43	< 0.41	< 0.4	< 0.21	< 0.36
PCB 1242	0.5	NA	< 0.13	< 0.16	< 0.18	< 0.18	< 0.17	< 0.17	< 0.093	< 0.32
PCB 1248	0.5	NA	< 0.072	< 0.15	< 0.17	< 0.17	< 0.16	< 0.16	< 0.26	< 0.33
PCB 1254	0.5	NA	< 0.072	< 0.11	< 0.12	< 0.12	< 0.12	< 0.11	< 0.12	< 0.21
PCB 1260	0.5	NA	< 0.1	< 0.12	< 0.13	< 0.13	< 0.12	< 0.12	< 0.15	< 0.16
Total PCBs		NA	0	0	0	0	0	0	0	0
Metals -Total										
Arsenic	3	< 1	< 5	< 1.5	< 1.5	< 1.1	< 1.7	< 1.7 B	2.4 B	< 2.4
Iron	300	**1080**	**2720**	**1640**	194	158 J	**507**	64.8 B	**1070**	169
Lead	5	1 B	< 3	< 2.6	< 2.8	1 B	2.6 B	< 1.4	< 1.7	< 1.7
Manganese	50	**8580**	**488**	**1540**	**440**	**675**	**2370**	**1300**	**1830**	**1970**
Metals -Dissolved										
Arsenic	3	NA	< 5	< 1.5	< 1.5	< 1.1	< 1.7	< 1.7	< 2.4	< 2.4
Iron	300	NA	< 100	< 67	< 25	12.8 BJ	8.4 B	11.2	24.8 B	< 12
Lead	5	NA	< 3	< 2.6	< 2.8	< 0.94	2.1 B	< 1.4	< 1.7	< 1.7
Manganese	50	NA	**408**	**235**	**81.1**	**162**	**51.3**	**217**	**241**	12.2 B

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

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Table 6. 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 6. 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		**10/12/2004**	**9/27/2006**	**4/10/2007**	**10/10/2007**	**5/1/2008**	**9/11/2008**	**7/8/2009**	**10/23/2009**
VOC									
Benzene	1	< 0.5	< 0.21	< 0.21	< 0.19	<0.26	<0.26	< 0.23	< 0.23
Ethylbenzene	700	< 0.5	< 0.2	< 0.2	< 0.21	<0.27	<0.27	< 0.27	< 0.27
Toluene	1000	< 0.5	< 0.2	< 0.2	< 0.21	<0.15	<0.15	< 0.3	< 0.3
Xylene, -m	NS	NA	NA	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	NA	< 0.42	< 0.42	< 0.35	<0.39	<0.39	< 0.25	< 0.25
Xylene. -o	NS	NA	< 0.31	< 0.31	< 0.2	<0.45	<0.45	< 0.25	< 0.25
Xylenes	1,000	< 1	< 0.31	< 0.31	< 0.2	<0.39	<0.39	< 0.25	< 0.25
PCBs									
PCB 1016	0.5	< 0.075 J	< 0.1	< 0.1 R	< 0.099	< 0.099	< 0.1	< 0.21	< 0.31
PCB 1221	0.5	< 0.085	< 0.5	< 0.5 R	< 0.49	< 0.5	< 0.5	< 0.34	< 0.42
PCB 1232	0.5	< 0.12	< 0.41	< 0.41 R	< 0.41	< 0.41	< 0.41	< 0.23	< 0.32
PCB 1242	0.5	< 0.13	< 0.17	< 0.17 R	< 0.17	< 0.17	< 0.17	< 0.099	< 0.28
PCB 1248	0.5	< 0.072	< 0.16	< 0.16 R	< 0.16	< 0.16	< 0.16	< 0.28	< 0.29
PCB 1254	0.5	< 0.072	< 0.12	< 0.12 R	< 0.11	< 0.12	< 0.12	< 0.12	< 0.19
PCB 1260	0.5	< 0.1	< 0.12	< 0.12 R	< 0.12	< 0.12	< 0.12	< 0.16	< 0.14
Total PCBs		0	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**	**6.1**
Iron	300	**11000 J**	**9890**	**8050**	**15400**	**11100**	**12200**	**12400**	**13200**
Lead	5	< 3	< 2.6	< 2.8	< 0.94	3.7	< 1.4	< 1.7	< 1.7
Manganese	50	**3060**	**2840**	**2230**	**3940**	**2860**	**3250**	**3030**	**3440**
Metals -Dissolved									
Arsenic	3	**6.3**	**4.2**	**3.3**	**3.6**	< 1.7	2.6 B	< 2.4	< 2.4
Iron	300	**10200**	**9620**	**9140**	**5400**	**912**	**3660**	**2610**	**907**
Lead	5	< 3	< 2.6	< 2.8	< 0.94	1.6 B	< 1.4	< 1.7	< 1.7
Manganese	50	**3080**	**2770**	**2470**	**3830**	**2740**	**57.6**	**2990**	**3410**

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

ARCADIS

Table 6. 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.

ARCADIS

Table 6. 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**	**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**	**10/23/2009**
VOC										
Benzene	1	NA	< 0.5	< 0.21	< 0.21	< 0.19	<0.26	<0.26	< 0.23	< 0.23
Ethylbenzene	700	NA	< 0.5	< 0.2	< 0.2	< 0.21	<0.27	<0.27	< 0.27	< 0.27
Toluene	1000	NA	< 0.5	< 0.2	< 0.2	< 0.21	<0.15	<0.15	< 0.3	< 0.3
Xylene, -m	NS	NA	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	< 0.25
Xylene. -o	NS	NA	NA	< 0.31	< 0.31	< 0.2	<0.45	<0.45	< 0.25	< 0.25
Xylenes	1,000	NA	< 1	< 0.31	< 0.31	< 0.2	<0.39	<0.39	< 0.25	< 0.25
PCBs										
PCB 1016	0.5	NA	< 0.075 J	< 0.1	< 0.1	< 0.094	< 0.099	< 0.094	< 0.2	< 0.3
PCB 1221	0.5	NA	< 0.085	< 0.52	< 0.5	< 0.47	< 0.49	< 0.47	< 0.32	< 0.41
PCB 1232	0.5	NA	< 0.12	< 0.43	< 0.41	< 0.39	< 0.41	< 0.39	< 0.22	< 0.31
PCB 1242	0.5	NA	< 0.13	< 0.18	< 0.17	< 0.16	< 0.17	< 0.16	< 0.094	< 0.27
PCB 1248	0.5	NA	< 0.072	< 0.17	< 0.16	< 0.15	< 0.16	< 0.15	< 0.27	< 0.28
PCB 1254	0.5	NA	< 0.072	< 0.12	< 0.12	< 0.11	< 0.11	< 0.11	< 0.12	< 0.18
PCB 1260	0.5	NA	< 0.1	< 0.13	< 0.12	< 0.12	< 0.12	< 0.12	< 0.15	< 0.14
Total PCBs		NA	0	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	< 2.4
Iron	300	NA	**2470**	**1770**	**1410**	**3830**	**1570**	79.9 B	**3130**	**1730**
Lead	5	NA	< 3	< 2.6	3.5	1.7 B	2.3 B	1.4 B	< 1.7	< 1.7
Manganese	50	NA	**825**	**619**	**496**	**669**	**472**	**64.5**	**496**	**462**
Metals -Dissolved										
Arsenic	3	< 3.1	< 5	< 1.5	< 1.5	< 1.1	< 1.7	< 1.7	< 2.4	< 2.4
Iron	300	NA	**2150**	**1580**	**1080**	**419**	200	25 B	**1430**	110
Lead	5	NA	< 3	< 2.6	< 2.8	< 0.94	2.4 B	< 1.4	< 1.7	< 1.7
Manganese	50	NA	**804**	**586**	**482**	**610**	**463**	**57.6**	**493**	**457**

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

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Table 6. 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**	**OB-18**
Sample Date		**1/16/1992**	**7/29/1992**	**2/16/1993**	**7/26/1993**	**2/21/1995**	**8/6/1995**	**10/11/2004**
VOC								
Benzene	1	< 1	< 0.5	< 1	< 1	< 1	< 1	< 0.5
Ethylbenzene	700	< 5	< 5	< 5	< 5	< 10	< 10	< 0.5
Toluene	1000	< 5	< 5	< 5	< 5	3 J	< 10	< 0.5
Xylene, -m	NS	NA	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	< 5	< 5	< 5	< 5	3 J	< 10	NA
Xylene. -o	NS	< 5	< 5	< 5	< 5	< 10	< 10	NA
Xylenes	1,000	NA	NA	NA	NA	NA	NA	< 1
PCBs								
PCB 1016	0.5	NA	NA	NA	NA	NA	NA	< 0.075 J
PCB 1221	0.5	NA	NA	NA	NA	NA	NA	< 0.085
PCB 1232	0.5	NA	NA	NA	NA	NA	NA	< 0.12
PCB 1242	0.5	NA	NA	NA	NA	NA	NA	< 0.13
PCB 1248	0.5	NA	NA	NA	NA	NA	NA	< 0.072
PCB 1254	0.5	NA	NA	NA	NA	NA	NA	< 0.072
PCB 1260	0.5	NA	NA	NA	NA	NA	NA	< 0.1
Total PCBs		NA	NA	NA	NA	NA	NA	0
Metals -Total								
Arsenic	3	**10.8**	**14.5**	1.7 B	**65**	< 2	< 1	< 5
Iron	300	**69900**	**20600**	**17800**	**263000**	**2650**	**3100**	< 100
Lead	5	**43.2**	< 24.4	2 B	**101**	< 2	1.6 B	< 3
Manganese	50	**2240**	**450**	**336**	**6200**	**80.1**	**68.5**	< 15
Metals -Dissolved								
Arsenic	3	NA	NA	NA	NA	NA	NA	< 5
Iron	300	NA	NA	NA	NA	NA	NA	< 100
Lead	5	NA	NA	NA	NA	NA	NA	< 3
Manganese	50	NA	NA	NA	NA	NA	NA	< 15

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

ARCADIS

Table 6. 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 (DUP)**	**OB-18**	**OB-18**	**OB-18**	**OB-18**	**OB-18**
Sample Date		**9/26/2006**	**4/10/2007**	**4/10/2007**	**10/10/2007**	**5/1/2008**	**9/11/2008**	**7/8/2009**	**10/23/2009**
VOC									
Benzene	1	< 0.21	< 0.21	< 0.21	< 0.19	<0.26	<0.26	< 0.23	< 0.23
Ethylbenzene	700	< 0.2	< 0.2	< 0.2	< 0.21	<0.27	<0.27	< 0.27	< 0.27
Toluene	1000	< 0.2	< 0.2	< 0.2	< 0.21	<0.15	<0.15	< 0.3	< 0.3
Xylene, -m	NS	NA	NA	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	< 0.42	< 0.42	< 0.42	< 0.35	<0.39	<0.39	< 0.25	< 0.25
Xylene. -o	NS	< 0.31	< 0.31	< 0.31	< 0.2	<0.45	<0.45	< 0.25	< 0.25
Xylenes	1,000	< 0.31	< 0.31	< 0.31	< 0.2	<0.39	<0.39	< 0.25	< 0.25
PCBs									
PCB 1016	0.5	< 0.099	< 0.1	< 0.094	< 0.094	< 0.099	< 0.094	< 0.19	< 0.3
PCB 1221	0.5	< 0.49	< 0.52	< 0.47	< 0.47	< 0.49	< 0.47	< 0.31	< 0.41
PCB 1232	0.5	< 0.41	< 0.43	< 0.39	< 0.39	< 0.41	< 0.39	< 0.21	< 0.31
PCB 1242	0.5	< 0.17	< 0.18	< 0.16	< 0.16	< 0.17	< 0.16	< 0.089	< 0.27
PCB 1248	0.5	< 0.16	< 0.17	< 0.15	< 0.15	< 0.16	< 0.15	< 0.25	< 0.28
PCB 1254	0.5	< 0.11	< 0.12	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.18
PCB 1260	0.5	< 0.12	< 0.13	< 0.12	< 0.12	< 0.12	< 0.12	< 0.14	< 0.14
Total PCBs		0	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	< 2.4
Iron	300	78.5 B	< 25	< 25	251	18.1 B	66.8 B	**490**	85.4 B
Lead	5	< 2.6	< 2.8	< 2.8	1.2 B	< 1.4	< 1.4	< 1.7	< 1.7
Manganese	50	< 0.4	1.5 BJ	0.77 BJ	9.4 B	0.8 B	4.9 B	9.8 B	8.5 B
Metals -Dissolved									
Arsenic	3	< 1.5	< 1.5	< 1.5	< 1.1	< 1.7	< 1.7	< 2.4	< 2.4
Iron	300	< 67	< 25	< 25	< 6.3	< 7.4	18 B	26.5 B	< 12
Lead	5	< 2.6	< 2.8	< 2.8	1 B	1.8 B	< 1.4	< 1.7	< 1.7
Manganese	50	< 0.4	< 0.6	< 0.6	< 0.17	0.5 B	1.4 B	1.1 B	< 15

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

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Table 6. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well					OB-19				
Sample Name	**GWQS[1]**	**MW-19**	**OB-19**	**OB-19**	**OB-19 (DUP)**	**OB-19**	**OB-19**	**OB-19**	**OB-19**
Sample Date		**10/3/2006**	**4/9/2007**	**10/15/2007**	**10/15/2007**	**4/29/2008**	**9/12/2008**	**7/7/2009**	**10/27/2009**
VOC									
Benzene	1	0.55 J	0.59 J	< 0.19	< 0.19	0.56 J	0.37 J	**1.2**	0.39 J
Ethylbenzene	700	< 0.2	< 0.2	< 0.21	< 0.21	<0.27	<0.27	0.38 J	< 0.27
Toluene	1000	< 0.2	< 0.2	< 0.21	< 0.21	<0.15	<0.15	< 0.3	< 0.3
Xylene, -m	NS	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	< 0.25
Xylene. -o	NS	< 0.31	< 0.31	< 0.2	< 0.2	0.81 J	<0.45	0.84 J	< 0.25
Xylenes	1,000	< 0.31	< 0.31	< 0.2	< 0.2	0.81 J	<0.39	1.5	< 0.25
PCBs									
PCB 1016	0.5	< 0.1	< 0.1	< 0.1	< 0.1	< 0.094	< 0.094	< 0.21	< 0.3
PCB 1221	0.5	< 0.51	< 0.51	< 0.52	< 0.52	< 0.47	< 0.47	< 0.33	< 0.41
PCB 1232	0.5	< 0.42	< 0.42	< 0.43	< 0.43	< 0.39	< 0.39	< 0.22	< 0.31
PCB 1242	0.5	< 0.18	< 0.18	< 0.18	< 0.18	< 0.16	< 0.16	< 0.097	< 0.27
PCB 1248	0.5	< 0.16	< 0.16	< 0.17	< 0.17	< 0.15	< 0.15	< 0.28	< 0.28
PCB 1254	0.5	< 0.12	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11	< 0.12	< 0.18
PCB 1260	0.5	< 0.13	< 0.13	< 0.13	< 0.13	< 0.12	< 0.12	< 0.16	< 0.14
Total PCBs		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	< 2.4
Iron	300	**43600**	**18600**	**20000**	**20200**	**10100**	**20000**	**37500**	**20500**
Lead	5	**9.4**	< 2.8	1.3 B	1 B	1.4 B	< 1.4	< 1.7	< 1.7
Manganese	50	**713**	**276 J**	**987 J**	**1150**	**180**	**755**	**447**	**394 J**
Metals -Dissolved									
Arsenic	3	< 1.5	< 1.5	< 1.1	< 1.1	< 1.7	< 1.7	< 2.4	< 2.4
Iron	300	**28700**	**18800**	**3940**	**4170**	**1790**	**3920**	**24000**	**12700**
Lead	5	< 2.6	< 2.8	1.1 B	< 0.94	< 1.4	< 1.4	< 1.7	< 1.7
Manganese	50	**532**	**282 J**	**1100 J**	**1070**	**177**	**710**	**433**	**386 J**

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

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Table 6. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well					OB-20A			
Sample Name	**GWQS[1]**	**MW-20**	**OB-20A**	**OB-20A**	**OB-20A**	**OB-20A**	**OB-20A**	**OB-20A**
Sample Date		**10/4/2006**	**4/3/2007**	**10/11/2007**	**10/11/2007**	**9/15/2007**	**7/9/2009**	**10/28/2009**
VOC								
Benzene	1	0.36 J	0.48 J	0.36 J	<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	0.56 J	< 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	< 0.1	< 0.1	< 0.094	< 0.1	< 0.094	< 0.19	< 0.33
PCB 1221	0.5	< 0.5	< 0.52	< 0.47	< 0.52	< 0.47	< 0.31	< 0.45
PCB 1232	0.5	< 0.41	< 0.43	< 0.39	< 0.43	< 0.39	< 0.21	< 0.34
PCB 1242	0.5	< 0.17	< 0.18	< 0.16	< 0.18	< 0.16	< 0.089	< 0.29
PCB 1248	0.5	< 0.16	< 0.17	< 0.15	< 0.17	< 0.15	< 0.25	< 0.3
PCB 1254	0.5	< 0.12	< 0.12	< 0.11	< 0.12	< 0.11	< 0.11	< 0.2
PCB 1260	0.5	< 0.12	< 0.13	< 0.12	< 0.13	< 0.12	< 0.14	< 0.15
Total PCBs		0	0	0	0	0	0	0
Metals -Total								
Arsenic	3	**13.9**	**24.6**	**18.6**	**3.7**	**7.8**	2.8 B	< 2.4
Iron	300	**42400**	**60100**	**49600**	**28200**	**24400**	**26800**	**30900 J**
Lead	5	< 2.6	< 2.8	3	2.1 B	< 1.4	< 1.7	< 1.7
Manganese	50	**3470**	**7740**	**5590**	**885**	**1300**	**685**	**964**
Metals -Dissolved								
Arsenic	3	**13.1**	**20.8**	2.4 B	< 1.7	**5.3**	2.8 B	< 2.4
Iron	300	**39800**	**58100**	**18600**	**9240**	**15600**	**30000**	**20600 J**
Lead	5	< 2.6	< 2.8	< 0.94	1.8 B	< 1.4	< 1.7	< 1.7
Manganese	50	**3350**	**7520**	**5310**	**857**	**1250**	**679**	**979**

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

ARCADIS

Table 6. 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**	**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**	**10/28/2009**
VOC									
Benzene	1	**2**	**1.4**	**1.5**	**1.5**	**1.4**	**0.9 J**	0.83 J	0.77 J
Ethylbenzene	700	< 0.2	< 0.2	< 0.2	< 0.21	<0.27	<0.27	< 0.27	< 0.27
Toluene	1000	0.62 J	< 0.2	< 0.2	< 0.21	<0.15	<0.15	< 0.3	< 0.3
Xylene, -m	NS	NA	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	< 0.25
Xylene. -o	NS	< 0.31	< 0.31	< 0.31	< 0.2	<0.45	0.45	< 0.25	< 0.25
Xylenes	1,000	< 0.31	< 0.31	< 0.31	< 0.2	3.2	0.39	< 0.25	< 0.25
PCBs									
PCB 1016	0.5	< 0.1	< 0.099	< 0.1	< 0.094	< 0.1	< 0.094	< 0.19	< 0.33
PCB 1221	0.5	< 0.5	< 0.49	< 0.51	< 0.47	< 0.52	< 0.47	< 0.31	< 0.46
PCB 1232	0.5	< 0.41	< 0.41	< 0.42	< 0.39	< 0.43	< 0.39	< 0.21	< 0.34
PCB 1242	0.5	< 0.17	< 0.17	< 0.18	< 0.16	< 0.18	< 0.16	< 0.089	< 0.3
PCB 1248	0.5	< 0.16	< 0.16	< 0.17	< 0.15	< 0.17	< 0.15	< 0.25	< 0.31
PCB 1254	0.5	< 0.12	< 0.11	< 0.12	< 0.11	< 0.12	< 0.11	< 0.11	< 0.2
PCB 1260	0.5	< 0.12	< 0.12	< 0.13	< 0.12	< 0.13	< 0.12	< 0.14	< 0.16
Total PCBs		0	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	< 2.4
Iron	300	**35000**	**31500**	**31200**	**34900**	**26400**	**29200**	**32000**	**26100 J**
Lead	5	3.1	< 2.8	< 2.8	1.1 B	3.8	< 1.4	< 1.7	< 1.7
Manganese	50	**9430**	**8680**	**8520**	**9120**	**6800**	**7060**	**7850**	**6230**
Metals -Dissolved									
Arsenic	3	< 1.5	< 1.5	< 1.5	< 1.1	< 1.7	< 1.7	< 2.4	< 2.4
Iron	300	**32400**	**30100**	**30400**	**11400**	**19600**	**823**	**14700**	**1040 J**
Lead	5	< 2.6	2.9 B	3.6	1 B	2.4 B	< 1.4	< 1.7	< 1.7
Manganese	50	**9150**	**8300**	**8450**	**8970**	**6480**	**6690**	**7720**	**6530**

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

ARCADIS

Table 6. 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)**	**OB-21**
Sample Date		**10/5/2006**	**4/9/2007**	**10/15/2007**	**4/29/2008**	**9/12/2008**	**7/7/2009**	**7/7/2009**	**10/27/2009**
VOC									
Benzene	1	< 0.21	< 0.21	< 0.19	<0.26	<0.26	< 0.23	< 0.23	< 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	< 0.3	< 0.3	< 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	< 0.25	< 0.25	0.53 J
Xylene. -o	NS	< 0.31	< 0.31	< 0.2	<0.45	<0.45	< 0.25	< 0.25	0.37 J
Xylenes	1,000	< 0.31	< 0.31	< 0.2	<0.39	<0.39	< 0.25	< 0.25	0.9 J
PCBs									
PCB 1016	0.5	< 0.11	< 0.1	< 0.1	< 0.094	< 0.094	< 0.19	< 0.19	< 0.3
PCB 1221	0.5	< 0.53	< 0.51	< 0.52	< 0.47	< 0.47	< 0.31	< 0.31	< 0.41
PCB 1232	0.5	< 0.44	< 0.42	< 0.43	< 0.39	< 0.39	< 0.21	< 0.21	< 0.31
PCB 1242	0.5	< 0.19	< 0.18	< 0.18	< 0.16	< 0.16	< 0.089	< 0.089	< 0.27
PCB 1248	0.5	< 0.17	< 0.17	< 0.17	< 0.15	< 0.15	< 0.25	< 0.25	< 0.28
PCB 1254	0.5	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11	< 0.11	< 0.11	< 0.18
PCB 1260	0.5	< 0.13	< 0.13	< 0.13	< 0.12	< 0.12	< 0.14	< 0.14	< 0.14
Total PCBs		0	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	< 2.4
Iron	300	**2090**	**68100**	**54600**	**2520**	**3150**	**1550**	**1790**	**380**
Lead	5	< 2.6	**29.2**	**27**	2.1 B	< 1.4	< 1.7	< 1.7	< 1.7
Manganese	50	**93.8**	**2840 J**	**2540**	**113**	**241**	**85.9**	**84.2**	18.1 J
Metals -Dissolved									
Arsenic	3	< 1.5	< 1.5	< 1.1	< 1.7	< 1.7	< 2.4	< 2.4	< 2.4
Iron	300	< 67	< 25	164 J	28.9 B	34.3 B	< 42	< 42	15.2 B
Lead	5	< 2.6	< 2.8	< 0.94	< 1.4	< 1.4	< 1.7	< 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	1.7 J

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

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Table 6. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well				OB-22		
Sample Name	**GWQS[1]**	**OB-22**	**OB-22**	**OB-22**	**OB-22**	**OB-22**
Sample Date		**11/30/2006**	**4/4/2007**	**5/1/2008**	**9/18/2008**	**7/8/2009**
VOC						
Benzene	1	< 0.21	< 0.21	<0.26	DRY	< 0.23
Ethylbenzene	700	< 0.2	< 0.2	<0.27	DRY	< 0.27
Toluene	1000	< 0.2	< 0.2	<0.15	DRY	< 0.3
Xylene, -m	NS	NA	NA	NA	DRY	NA
Xylene, -m,p	NS	< 0.42	< 0.42	<0.39	DRY	< 0.25
Xylene. -o	NS	< 0.31	< 0.31	<0.45	DRY	< 0.25
Xylenes	1,000	< 0.31	< 0.31	<0.39	DRY	< 0.25
PCBs						
PCB 1016	0.5	< 0.1	< 0.1	< 0.1	DRY	< 0.22
PCB 1221	0.5	< 0.52	< 0.51	< 0.52	DRY	< 0.36
PCB 1232	0.5	< 0.43	< 0.42	< 0.43	DRY	< 0.24
PCB 1242	0.5	< 0.18	< 0.18	< 0.18	DRY	< 0.1
PCB 1248	0.5	< 0.17	< 0.17	< 0.17	DRY	< 0.3
PCB 1254	0.5	< 0.12	< 0.12	< 0.12	DRY	< 0.13
PCB 1260	0.5	< 0.13	< 0.13	< 0.13	DRY	< 0.17
Total PCBs		0	0	0	DRY	0
Metals -Total						
Arsenic	3	**9.5 J**	**5.2**	< 1.7	DRY	< 2.4
Iron	300	**35200 J**	**19900**	**1600**	DRY	**2960**
Lead	5	**19.5 J**	**9.1**	2.3 B	DRY	< 1.7
Manganese	50	**2060 J**	**805**	39.4	DRY	**64.2**
Metals -Dissolved						
Arsenic	3	< 1.5 J	< 1.5	< 1.7	DRY	< 2.4
Iron	300	157 J	< 25	15 B	DRY	69.2 B
Lead	5	< 2.8 J	< 2.8	< 1.4	DRY	< 1.7
Manganese	50	**1040 J**	**484**	2.4 B	DRY	6 B

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

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Table 6. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well				OB-23		
Sample Name	**GWQS[1]**	**OB-23**	**OB-23**	**OB-23**	**OB-23**	**OB-23**
Sample Date		**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
Ethylbenzene	700	8.4	0.38 J	<0.27	DRY	< 0.27
Toluene	1000	2.3	< 0.2	<0.15	DRY	< 0.3
Xylene, -m	NS	NA	NA	NA	DRY	NA
Xylene, -m,p	NS	23.2	1	<0.39	DRY	< 0.25
Xylene. -o	NS	35.6	3.2	<0.45	DRY	< 0.25
Xylenes	1,000	58.8	4.3	<0.39	DRY	< 0.25
PCBs						
PCB 1016	0.5	< 0.11	< 0.094	< 0.1	DRY	< 0.21
PCB 1221	0.5	< 0.53	< 0.47	< 0.5	DRY	< 0.34
PCB 1232	0.5	< 0.44	< 0.39	< 0.41	DRY	< 0.23
PCB 1242	0.5	< 0.18	< 0.16	< 0.17	DRY	< 0.099
PCB 1248	0.5	< 0.17	< 0.15	< 0.16	DRY	< 0.28
PCB 1254	0.5	< 0.12	< 0.11	< 0.12	DRY	< 0.12
PCB 1260	0.5	< 0.13	< 0.12	< 0.12	DRY	< 0.16
Total PCBs		0	0	0	DRY	0
Metals -Total						
Arsenic	3	1.8 B	< 1.5	< 1.7	DRY	< 2.4
Iron	300	**24600**	**14100**	**7760**	DRY	**42300**
Lead	5	< 2.8 J	**24.1**	2.5 B	DRY	**7.5**
Manganese	50	**1450**	**1650**	**1130**	DRY	**1400**
Metals -Dissolved						
Arsenic	3	< 1.5	< 1.5	< 1.7	DRY	< 2.4
Iron	300	**24300**	**329**	**401**	DRY	**19000**
Lead	5	3 J	< 2.8	< 1.4	DRY	< 1.7
Manganese	50	**1470**	**1530**	**1120**	DRY	**1330**

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

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Table 6. 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**	**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**	**10/26/2009**
VOC									
Benzene	1	< 0.21	< 0.21	< 0.19	<0.26	<0.26	<0.26	< 0.23	< 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	< 0.3	< 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	< 0.25	< 0.25
Xylene. -o	NS	< 0.31	< 0.31	< 0.2	<0.45	<0.45	<0.45	< 0.25	< 0.25
Xylenes	1,000	< 0.31	< 0.31	< 0.2	<0.39	<0.39	<0.39	< 0.25	< 0.25
PCBs									
PCB 1016	0.5	< 0.11	< 0.12	< 0.094	< 0.096	< 0.1	< 0.096	< 0.2	< 0.3
PCB 1221	0.5	< 0.53	< 0.59	< 0.47	< 0.48	< 0.5	< 0.48	< 0.32	< 0.41
PCB 1232	0.5	< 0.44	< 0.49	< 0.39	< 0.4	< 0.41	< 0.4	< 0.22	< 0.31
PCB 1242	0.5	< 0.18	< 0.21	< 0.16	< 0.17	< 0.17	< 0.17	< 0.094	< 0.27
PCB 1248	0.5	< 0.17	< 0.19	< 0.15	< 0.16	< 0.16	< 0.16	< 0.27	< 0.28
PCB 1254	0.5	< 0.12	< 0.14	< 0.11	< 0.11	< 0.12	< 0.11	< 0.12	< 0.18
PCB 1260	0.5	< 0.13	< 0.15	< 0.12	< 0.12	< 0.12	< 0.12	< 0.15	< 0.14
Total PCBs		0	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	< 2.4
Iron	300	124	129	< 6.3	287 J	223 J	**1520**	**2130**	**493**
Lead	5	2.8 B	< 2.8	1.2 BJ	1.5 B	1.6 B	< 1.4	< 1.7	< 1.7
Manganese	50	**487**	**343**	**352**	**262 J**	**272 J**	**742**	**789**	**341**
Metals -Dissolved									
Arsenic	3	< 1.5	< 1.5	< 1.1	< 1.7	1.7 B	< 1.7	< 2.4	< 2.4
Iron	300	124	< 25	< 6.3	89.3 BJ	< 7.4 J	17.9 B	26.7 B	< 12
Lead	5	< 2.8	< 2.8	1.5 BJ	< 1.4	< 1.4	< 1.4	< 1.7	< 1.7
Manganese	50	**487**	**335**	**333**	**242 J**	**238 J**	**538**	**93**	**147**

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

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Table 6. 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**	**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**	**10/26/2009**
VOC										
Benzene	1	< 0.21	< 0.21	< 0.19	<0.26	<0.26	<0.26	<0.26	< 0.23	< 0.23
Ethylbenzene	700	< 0.2	< 0.2	< 0.21	<0.27	<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	0.72 J
Xylene, -m	NS	NA	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	< 0.25
Xylene. -o	NS	< 0.31	< 0.31	< 0.2	<0.45	<0.45	<0.45	<0.45	< 0.25	< 0.25
Xylenes	1,000	< 0.31	< 0.31	< 0.2	<0.39	<0.39	<0.39	<0.39	< 0.25	< 0.25
PCBs										
PCB 1016	0.5	< 0.11	< 0.1	< 0.11	< 0.1	< 0.1	< 0.1	< 0.1	< 0.25	< 0.35
PCB 1221	0.5	< 0.54	< 0.52	< 0.53	< 0.51	< 0.51	< 0.51	< 0.51	< 0.4	< 0.48
PCB 1232	0.5	< 0.45	< 0.43	< 0.44	< 0.42	< 0.42	< 0.42	< 0.42	< 0.27	< 0.36
PCB 1242	0.5	< 0.19	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.12	< 0.32
PCB 1248	0.5	< 0.18	< 0.17	< 0.17	< 0.16	< 0.16	< 0.16	< 0.16	< 0.33	< 0.33
PCB 1254	0.5	< 0.13	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.15	< 0.21
PCB 1260	0.5	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.19	< 0.16
Total PCBs		0	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**	< 2.4
Iron	300	**45800**	**2280**	**942**	**894**	**894**	**894**	**69500**	**28300**	**5180**
Lead	5	**31.5**	**594**	3.1	1.7 B	1.7 B	1.7 B	**45.7**	**19.9**	4.3
Manganese	50	**3290**	**8270**	23.6	**124**	**124**	**124**	**2110**	**735**	**137**
Metals -Dissolved										
Arsenic	3	< 1.5	< 1.5	< 1.1	< 1.7 B	< 1.7 B	< 1.7 B	< 1.7	< 2.4	< 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	55 B
Lead	5	< 2.8	< 2.8	1.5 B	1.5 B	1.5 B	1.5 B	< 1.4	< 1.7	2 B
Manganese	50	**1530**	**247**	9.1 B	**97.2**	**97.2**	**97.2**	**79.4**	28.5	2.8 B

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

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Table 6. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well			OB-26		
Sample Name	**GWQS[1]**	**OB-26**	**OB-26**	**OB-26**	**OB-26**
Sample Date		**5/9/2008**	**9/16/2008**	**7/2/2009**	**10/22/2009**
VOC					
Benzene	1	<0.26	<0.26	< 0.23	< 0.23
Ethylbenzene	700	<0.27	<0.27	< 0.27	< 0.27
Toluene	1000	<0.15	<0.15	< 0.3	< 0.3
Xylene, -m	NS	NA	NA		NA
Xylene, -m,p	NS	<0.39	<0.39	< 0.25	< 0.25
Xylene. -o	NS	<0.45	<0.45	< 0.25	< 0.25
Xylenes	1,000	<0.39	<0.39	< 0.25	< 0.25
PCBs					
PCB 1016	0.5	< 0.094	< 0.099	< 0.21	< 0.3
PCB 1221	0.5	< 0.47	< 0.49	< 0.33	< 0.41
PCB 1232	0.5	< 0.39	< 0.41	< 0.22	< 0.31
PCB 1242	0.5	< 0.16	< 0.17	< 0.097	< 0.27
PCB 1248	0.5	< 0.15	< 0.16	< 0.28	< 0.28
PCB 1254	0.5	< 0.11	< 0.11	< 0.12	< 0.18
PCB 1260	0.5	< 0.12	< 0.12	< 0.16	< 0.14
Total PCBs		0	0	0	0
Metals -Total					
Arsenic	3	< 1.7	2.7 B	< 2.4	< 2.4
Iron	300	**339**	**511**	**403**	**1200**
Lead	5	< 1.4	< 1.4	2 B	< 1.7
Manganese	50	19.2	20.7	9.9 B	**62.5**
Metals -Dissolved					
Arsenic	3	< 1.7	< 1.7	< 2.4	< 2.4
Iron	300	72.1 B	18.3 B	60.2 B	20.3 B
Lead	5	< 1.4	< 1.4	< 1.7	< 1.7
Manganese	50	9.8 B	12.4 B		39.9

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

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Table 6. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		Peter's Mine Air Shaft							
Sample Name	**GWQS[1]**	**PMPAS-180(080507)**	**PMPAS-230(080507)**	**PMPAS-180(080507)**	**PMPAS-230(080507)**	**M AIRSHAFT(180**	**M AIRSHAFT(230**	**PMAIR SHAFT-180**	**PMAIR SHAFT-230**
Sample Date		**5/7/2008**	**5/7/2008**	**9/18/2008**	**9/18/2008**	**7/10/2009**	**7/10/2009**	**10/29/2009**	**10/29/2009**
VOC									
Benzene	1	< 0.26	**31.8**	**26.4**	**29.1**	**7.4**	**7.6**	0.6 J	**31.2**
Ethylbenzene	700	< 0.27	< 0.27	< 0.27	< 0.27	1.2	1.3	< 0.27	< 0.27
Toluene	1000	< 0.15	< 0.15	< 0.15	< 0.15	< 0.3	< 0.3	< 0.3	< 0.3
Xylene, -m	NS	NA	NA	NA	NA				
Xylene, -m,p	NS	< 0.39	4.7	< 0.39	3.7	22.6	25.1	< 0.25	0.94 J
Xylene. -o	NS	< 0.45	1.1	< 0.45	< 0.45	2.2	2.4	< 0.25	< 0.25
Xylenes	1,000	< 0.39	5.8	< 0.39	3.9	24.8	27.5	< 0.25	0.94 J
PCBs									
PCB 1016	0.5	< 0.1	< 0.098	< 0.098	< 0.099	< 0.21	< 0.19	< 0.3	< 0.33
PCB 1221	0.5	< 0.52	< 0.49	< 0.49	< 0.49	< 0.34	< 0.31	< 0.41	< 0.46
PCB 1232	0.5	< 0.43	< 0.41	< 0.41	< 0.41	< 0.23	< 0.21	< 0.31	< 0.34
PCB 1242	0.5	< 0.18	< 0.17	< 0.17	< 0.17	< 0.098	< 0.089	< 0.27	< 0.3
PCB 1248	0.5	< 0.17	< 0.16	< 0.16	< 0.16	< 0.28	< 0.25	< 0.28	< 0.31
PCB 1254	0.5	< 0.12	< 0.11	< 0.11	< 0.11	< 0.12	< 0.11	< 0.18	< 0.2
PCB 1260	0.5	< 0.13	< 0.12	< 0.12	< 0.12	< 0.16	< 0.14	< 0.14	< 0.16
Total PCBs		0	0	0	0	0	0	0	0
Metals -Total									
Arsenic	3	< 1.7	< 1.7	< 1.7	< 1.7	< 2.4	< 2.4	< 2.4	< 2.4
Iron	300	**339**	**148000**	**147000**	**169000**	**68900**	**68300**	**2250**	**162000**
Lead	5	< 1.4	**6.4**	< 1.4	< 1.4	2.7 B	2.2 B	< 1.7	< 1.7
Manganese	50	19.2	**2490**	**2400**	**2810**	**672**	**671**	**76.9**	**2730**
Metals -Dissolved									
Arsenic	3	< 1.7	< 1.7	< 1.7	< 1.7	< 2.4	< 2.4	< 2.4	< 2.4
Iron	300	72.1 B	**132000**	**90800**	**98100**	**51500**	**44600**	180 J	**100000 J**
Lead	5	< 1.4	**5.4**	< 1.4	< 1.4	< 1.7	< 1.7	< 1.7	< 1.7
Manganese	50	9.8 B	**2460**	**2380**	**2590**	**650**	**646**	24	**2560**

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

ARCADIS

Table 6. 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)**	**RW-1 (10-30)**
Sample Date		**11/1/2004**	**3/30/2005**	**4/1/2005**	**4/1/2005**	**4/1/2005**	**10/9/2006**
VOC							
Benzene	1	< 1	< 0.31	< 0.31	< 0.31	< 0.31	< 0.21
Ethylbenzene	700	< 1	< 0.27	< 0.27	< 0.27	< 0.27	< 0.2
Toluene	1000	< 1	1.4	< 0.14	0.86 J	1.3	2.8
Xylene, -m	NS	< 1	< 0.17	< 0.17	< 0.17	< 0.17	< 0.31
Xylene, -m,p	NS	NA	NA	NA	NA	NA	NA
Xylene. -o	NS	< 1	< 0.36	< 0.36	< 0.36	< 0.36	< 0.42
Xylenes	1,000	< 1	< 0.17	< 0.17	< 0.17	< 0.17	< 0.31
PCBs							
PCB 1016	0.5	< 0.53	< 0.075	< 0.083	< 0.076	< 0.079	< 0.1
PCB 1221	0.5	< 0.53	< 0.085	< 0.093	< 0.086	< 0.089	< 0.52
PCB 1232	0.5	< 0.53	< 0.12	< 0.14	< 0.13	< 0.13	< 0.43
PCB 1242	0.5	< 0.53	< 0.13	< 0.15	< 0.13	< 0.14	< 0.18
PCB 1248	0.5	< 0.53	< 0.072	< 0.079	< 0.073	< 0.076	< 0.17
PCB 1254	0.5	< 0.53	< 0.072	< 0.079	< 0.073	< 0.076	< 0.12
PCB 1260	0.5	< 0.53	< 0.1	< 0.11	< 0.1	< 0.11	< 0.13
Total PCBs	0.5	0	0	0	0	0	0
Metals -Total							
Arsenic	3	< 5	< 5	< 5	< 5	< 5	< 1.5
Iron	300	**5140**	101	**1050**	**662**	**346**	**3910**
Lead	5	< 3	< 3	< 3	< 3	< 3	< 2.6
Manganese	50	32.2	16	21.1	18.9	23.8	**113**
Metals -Dissolved							
Arsenic	3	< 5	< 5	< 5	< 5	< 5	< 1.5
Iron	300	< 100	< 100	< 100	< 100	< 100	**5030**
Lead	5	< 3	< 3	< 3	< 3	< 3	< 2.6
Manganese	50	< 15	< 15	< 15	< 15	< 15	**118**

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

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Table 6. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well				RW-1				
Sample Name	**GWQS[1]**	**RW-1 (58-78)**	**RW-1 (97-117)**	**RW-1 (125-145)**	**RW-1(10-31)(041807)**	**RW-1(58-79)(041807)**	**RW-1(97-118)(041807)**	**RW-1(125-146)(041807)**
Sample Date		**10/9/2006**	**10/10/2006**	**10/10/2006**	**4/18/2007**	**4/18/2007**	**4/18/2007**	**4/18/2007**
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	3.7	0.81 J	0.74 J	2.3	2.2	1.3	1.3
Xylene, -m	NS	< 0.31	< 0.31	< 0.31	NA	NA	NA	NA
Xylene, -m,p	NS	NA	NA	NA	< 0.42	< 0.42	< 0.42	< 0.42
Xylene. -o	NS	< 0.42	< 0.42	< 0.42	< 0.31	< 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	< 0.1	< 0.094	< 0.1	< 0.11	< 0.098	< 0.094	< 0.11
PCB 1221	0.5	< 0.51	< 0.47	< 0.52	< 0.56	< 0.49	< 0.47	< 0.55
PCB 1232	0.5	< 0.42	< 0.39	< 0.43	< 0.46	< 0.41	< 0.39	< 0.46
PCB 1242	0.5	< 0.18	< 0.16	< 0.18	< 0.2	< 0.17	< 0.16	< 0.19
PCB 1248	0.5	< 0.17	< 0.15	< 0.17	< 0.18	< 0.16	< 0.15	< 0.18
PCB 1254	0.5	< 0.12	< 0.11	< 0.12	< 0.13	< 0.11	< 0.11	< 0.13
PCB 1260	0.5	< 0.13	< 0.12	< 0.13	< 0.14	< 0.12	< 0.12	< 0.14
Total PCBs	0.5	0	0	0	0	0	0	0
Metals -Total								
Arsenic	3	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Iron	300	**641**	**1410 J**	211 J	42.5 B	152	< 25	< 25
Lead	5	< 2.6	< 2.6 J	< 2.6	3.8	3.1	< 2.8	< 2.8
Manganese	50	18.9	**124**	44	19.4	28	2.5 BJ	15.7
Metals -Dissolved								
Arsenic	3	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Iron	300	< 67	< 67	< 67	< 25	< 25	< 25	< 25
Lead	5	< 2.6	4.5 J	< 2.6	< 2.8	< 2.8	< 2.8	< 2.8
Manganese	50	4 B	27.4	34.7	10.4 B	5 B	0.99 B	11.6 B

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

ARCADIS

Table 6. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well			RW-1					
Sample Name	**GWQS[1]**	**RW1(58-79)**	**RW1(97-118)**	**RW1(125-146)**	**RW1(11-31)**	**RW-1(126-146)**	**RW1(59-79)**	**RW-1(98-118)**
Sample Date		**10/10/2007**	**10/10/2007**	**10/10/2007**	**5/6/2008**	**5/7/2008**	**5/6/2008**	**5/7/2008**
VOC								
Benzene	1	< 0.19	< 0.19	< 0.19	< 0.26	< 0.26	< 0.26	< 0.26
Ethylbenzene	700	< 0.21	< 0.21	< 0.21	< 0.27	< 0.27	< 0.27	< 0.27
Toluene	1000	0.88 J	0.69 J	0.54 J	10.8	5.6	3.5	8.1
Xylene, -m	NS	NA	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	< 0.35	< 0.35	< 0.35	< 0.39	< 0.39	< 0.39	< 0.39
Xylene. -o	NS	< 0.2	< 0.2	< 0.2	< 0.45	< 0.45	< 0.45	< 0.45
Xylenes	1,000	< 0.2	< 0.2	< 0.2	< 0.39	< 0.39	< 0.39	< 0.39
PCBs								
PCB 1016	0.5	< 0.094	< 0.094	< 0.094	< 0.094	< 0.1	< 0.096	< 0.1
PCB 1221	0.5	< 0.47	< 0.47	< 0.47	< 0.47	< 0.5	< 0.48	< 0.5
PCB 1232	0.5	< 0.39	< 0.39	< 0.39	< 0.39	< 0.41	< 0.4	< 0.41
PCB 1242	0.5	< 0.16	< 0.16	< 0.16	< 0.16	< 0.17	< 0.17	< 0.17
PCB 1248	0.5	< 0.15	< 0.15	< 0.15	< 0.15	< 0.16	< 0.16	< 0.16
PCB 1254	0.5	< 0.11	< 0.11	< 0.11	< 0.11	< 0.12	< 0.11	< 0.12
PCB 1260	0.5	< 0.12	< 0.12	< 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	< 1.1	< 1.1	< 1.1	< 1.7	< 1.7	< 1.7	< 1.7
Iron	300	45.8 B	117	147	**699**	85.9 B	150	32.7 B
Lead	5	< 0.94	< 0.94	1.2 B	3.4	2.1 B	2 B	< 1.4
Manganese	50	3.2 B	7.8 B	26.3	24.9	23.4	6.9 B	2.1 B
Metals -Dissolved								
Arsenic	3	< 1.1	< 1.1	< 1.1	< 1.7	< 1.7	< 1.7	< 1.7
Iron	300	10.3 B	10.3 B	12.6 B	< 7.4	28 B	38.6 B	12.8 B
Lead	5	< 0.94	< 0.94	< 0.94	1.5 B	2.2 B	2.2 B	< 1.4
Manganese	50	2.2 B	1.9 B	19.4	6.1 B	22	3.4 B	2.2 B

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

ARCADIS

Table 6. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well					RW-1			
Sample Name	**GWQS[1]**	**JP-03(080507) (RW-1(98-11**	**RW-1 (126-146)**	**RW1(11-31)**	**RW1(59-79)**	**RW1(98-118)**	**RW-1(10-30)**	**RW-1(58-78)**
Sample Date		**5/7/2008**	**9/22/2008**	**9/18/2008**	**9/19/2008**	**9/19/2008**	**7/17/2009**	**7/17/2009**
VOC								
Benzene	1	< 0.26	**6.2**	**9.8**	**8.6**	**2**	< 0.23	< 0.23
Ethylbenzene	700	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27
Toluene	1000	6.9	13.8	15.7	14.7	5.9	< 0.3	< 0.3
Xylene, -m	NS	NA	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.25	< 0.25
Xylene. -o	NS	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.25	< 0.25
Xylenes	1,000	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.25	< 0.25
PCBs								
PCB 1016	0.5	< 0.1	< 0.096	< 0.099	< 0.1	< 0.1	< 0.22	< 0.21
PCB 1221	0.5	< 0.52	< 0.48	< 0.49	< 0.51	< 0.52	< 0.36	< 0.34
PCB 1232	0.5	< 0.43	< 0.4	< 0.41	< 0.42	< 0.43	< 0.24	< 0.23
PCB 1242	0.5	< 0.18	< 0.17	< 0.17	< 0.18	< 0.18	< 0.1	< 0.099
PCB 1248	0.5	< 0.17	< 0.16	< 0.16	< 0.16	< 0.17	< 0.3	< 0.28
PCB 1254	0.5	< 0.12	< 0.11	< 0.11	< 0.12	< 0.12	< 0.13	< 0.12
PCB 1260	0.5	< 0.13	< 0.12	< 0.12	< 0.13	< 0.13	< 0.17	< 0.16
Total PCBs	0.5	0	0	0	0	0	0	0
Metals -Total								
Arsenic	3	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 2.4	< 2.4
Iron	300	97.9 B	14.5 B	**323**	15.4 B	48.4 B	174	252
Lead	5	1.9 B	< 1.4	< 1.4	< 1.4	< 1.4	< 1.7	< 1.7
Manganese	50	6.7 B	11.9 B	11.5 B	2.4 B	2 B	14.5 B	7.4 B
Metals -Dissolved								
Arsenic	3	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 2.4	< 2.4
Iron	300	11.6 B	< 7.4	< 7.4	< 7.4	< 7.4	33.4 B	31 B
Lead	5	2.6 B	< 1.4	< 1.4	< 1.4	< 1.4	< 1.7	< 1.7
Manganese	50	1.7 B	3850 B	2320 B	4960 B	4540 B	12.7 B	7.2 B

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

ARCADIS

Table 6. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well				RW-1				
Sample Name	**GWQS[1]**	**RW-1(97-117)**	**RW-1(126-146)**	**RW-1(11-31)**	**RW-1(59-79)**	**RW-1(59-79) Dup**	**RW-1(98-118)**	**RW-1(126-146)**
Sample Date		**7/17/2009**	**7/17/2009**	**10/20/2009**	**10/20/2009**	**10/20/2009**	**10/20/2009**	**10/20/2009**
VOC								
Benzene	1	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Ethylbenzene	700	< 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	24.3
Xylene, -m	NS	NA	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Xylene. -o	NS	< 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
PCBs								
PCB 1016	0.5	< 0.63	< 0.63	< 0.32	< 0.33	< 0.34	< 0.34	< 0.34
PCB 1221	0.5	< 0.63	< 0.63	< 0.43	< 0.46	< 0.47	< 0.47	< 0.47
PCB 1232	0.5	< 0.63	< 0.63	< 0.33	< 0.34	< 0.35	< 0.35	< 0.35
PCB 1242	0.5	< 0.63	< 0.63	< 0.28	< 0.3	< 0.31	< 0.31	< 0.31
PCB 1248	0.5	< 0.63	< 0.63	< 0.29	< 0.31	< 0.32	< 0.32	< 0.32
PCB 1254	0.5	< 0.63	< 0.63	< 0.19	< 0.2	< 0.2	< 0.2	< 0.2
PCB 1260	0.5	< 0.63	< 0.63	< 0.15	< 0.16	< 0.16	< 0.16	< 0.16
Total PCBs	0.5	0	0	0	0	0	0	0
Metals -Total								
Arsenic	3	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4
Iron	300	**304**	**2450**	**313**	277 J	**318 J**	**441 J**	**19700**
Lead	5	< 1.7	2.3 B	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
Manganese	50	35.2	**318**	11.3 J	8.7 J	8.5 J	**52.4**	**937**
Metals -Dissolved								
Arsenic	3	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4
Iron	300	151	248	222	42.4 B	39.2 B	25.1 B	**15700**
Lead	5	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
Manganese	50	31.2	**265**	11.2 B	7.2 B	7.2 B	46.1	**940**

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

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Table 6. 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.

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Table 6. 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 6. 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)-DUP**	**RW2(370-380)(082984)**	**RW2(400-410)(082984)**
Sample Date		**8/16/1984**	**8/29/1984**	**8/29/1984**	**8/29/1984**	**8/29/1984**	**8/29/1984**
VOC							
Benzene	1	< 1	< 1	NA	< 1	< 1	< 1
Ethylbenzene	700	< 1	< 1	< 1	NA	< 1	< 1
Toluene	1000	< 1	< 1	< 1	NA	< 1	< 1
Xylene, -m	NS	< 1	< 1	< 1	NA	< 1	< 1
Xylene, -m,p	NS	< 1	< 1	< 1	NA	< 1	< 1
Xylene. -o	NS	< 1	< 1	< 1	NA	< 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 6. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		RW-2					
Sample Name	**GWQS[1]**	**RW2(450-460)(082984)**	**RW2(250)(092084)**	**RW2(061386)**	**RW2(032488)**	**RW-2(103089)**	**RW-2(012990)**
Sample Date		**8/29/1984**	**9/20/1984**	**6/13/1986**	**3/24/1988**	**10/30/1989**	**1/29/1990**
VOC							
Benzene	1	< 1	< 1	< 10	< 5	< 2	< 2
Ethylbenzene	700	< 1	NA	< 10	< 5	< 2	< 2
Toluene	1000	< 1	NA	< 10	< 5	< 2	< 2
Xylene, -m	NS	< 1	NA	NA	< 5	< 2	< 2
Xylene, -m,p	NS	< 1	NA	NA	< 5	< 2	< 2
Xylene. -o	NS	< 1	NA	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	< 2	NA	< 2	< 2
Iron	300	NA	NA	NA	NA	**10800 JMt**	**15900 R**
Lead	5	NA	NA	< 50	NA	NA	< 5
Manganese	50	NA	NA	NA	NA	**549**	**1010**
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 6. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		RW-2						
Sample Name	**GWQS[1]**	**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		**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	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	700	< 2	< 2	< 1	< 1	< 1	< 1	< 1
Toluene	1000	< 2	< 2	12.5	3.4	10.5	2.8	2.4
Xylene, -m	NS	< 2	< 2	< 1	< 1	< 1	< 1	< 1
Xylene, -m,p	NS	< 2	< 2	NA	NA	NA	NA	NA
Xylene. -o	NS	NA	NA	< 1	< 1	< 1	< 1	< 1
Xylenes	1,000	NA	NA	< 1	< 1	< 1	< 1	< 1
PCBs								
PCB 1016	0.5	NA	NA	< 0.51	< 0.5	< 0.5	< 0.5	< 0.59
PCB 1221	0.5	NA	NA	< 0.51	< 0.5	< 0.5	< 0.5	< 0.59
PCB 1232	0.5	NA	NA	< 0.51	< 0.5	< 0.5	< 0.5	< 0.59
PCB 1242	0.5	NA	NA	< 0.51	< 0.5	< 0.5	< 0.5	< 0.59
PCB 1248	0.5	NA	NA	< 0.51	< 0.5	< 0.5	< 0.5	< 0.59
PCB 1254	0.5	NA	NA	< 0.51	< 0.5	< 0.5	< 0.5	< 0.59
PCB 1260	0.5	NA	NA	< 0.51	< 0.5	< 0.5	< 0.5	< 0.59
Total PCBs	0.5	NA	NA	0	0	0	0	0
Metals -Total								
Arsenic	3	< 5	< 5	< 5	< 5	< 5	< 5	**6.8**
Iron	300	**48700**	**15600**	**1540**	**466**	**25300**	**3270**	**2020**
Lead	5	NA	NA	**7.3**	< 3	**64.6**	**7.6 J**	**45.5**
Manganese	50	**719**	**725**	**2370**	**900**	**18900**	**3290**	**2700**
Metals -Dissolved								
Arsenic	3	NA	NA	< 5	< 5	< 5	< 5	< 5
Iron	300	NA	NA	< 100	< 100	260 CJ	168 CJ	201
Lead	5	NA	NA	< 3	< 3	< 3	< 3	**9.3**
Manganese	50	NA	NA	**1140**	**754**	**1600**	**1310**	**1830**

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

ARCADIS

Table 6. 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.

ARCADIS

Table 6. 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.

ARCADIS

Table 6. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

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

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

ARCADIS

Table 6. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		RW-2					
Sample Name	**GWQS[1]**	**RW-2 (102-133)**	**RW-2 (162-192)**	**RW-2 (279-309)**	**RW-2(441-472)**	**RW-2(20-50)**	**RW-2(20-50) Dup**
Sample Date		**7/13/2009**	**7/13/2009**	**7/13/2009**	**7/14/2009**	**10/26/2009**	**10/26/2009**
VOC							
Benzene	1	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Ethylbenzene	700	< 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
Xylene, -m	NS	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Xylene. -o	NS	< 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
PCBs							
PCB 1016	0.5	< 0.56	< 0.57	< 0.56	< 2	< 0.33	< 0.33
PCB 1221	0.5	< 0.56	< 0.57	< 0.56	< 2	< 0.45	< 0.46
PCB 1232	0.5	< 0.56	< 0.57	< 0.56	< 2	< 0.34	< 0.34
PCB 1242	0.5	< 0.56	< 0.57	< 0.56	< 2	< 0.29	< 0.3
PCB 1248	0.5	< 0.56	< 0.57	< 0.56	< 2	< 0.3	< 0.31
PCB 1254	0.5	< 0.56	< 0.57	< 0.56	< 2	< 0.2	< 0.2
PCB 1260	0.5	< 0.56	< 0.57	< 0.56	< 2	< 0.15	< 0.16
Total PCBs	0.5	0	0	0	0	0	0
Metals -Total							
Arsenic	3	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4
Iron	300	**4160**	**4120**	**1390**	**930**	**2230**	**2290**
Lead	5	3.7	2 B	< 1.7	< 1.7	< 1.7	< 1.7
Manganese	50	**165**	**303**	**198**	**334**	**101**	**108**
Metals -Dissolved							
Arsenic	3	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4
Iron	300	154	< 42	98.3 B	< 42	< 12	12.2 B
Lead	5	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
Manganese	50	**125**	**160**	**108**	**226**	**63.3**	**61.8**

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

ARCADIS

Table 6. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well				RW-2	
Sample Name	**GWQS[1]**	**RW-2(103-133)**	**RW-2(162-192)**	**RW-2(279-309)**	**RW-2(441-472)**
Sample Date		**10/27/2009**	**10/27/2009**	**10/27/2009**	**10/28/2009**
VOC					
Benzene	1	< 0.23	< 0.23	< 0.23	< 0.23
Ethylbenzene	700	< 0.27	< 0.27	< 0.27	< 0.27
Toluene	1000	0.31 J	0.41 J	< 0.3	0.32 J
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	< 0.32	< 0.3	< 0.33	< 0.33
PCB 1221	0.5	< 0.44	< 0.41	< 0.46	< 0.46
PCB 1232	0.5	< 0.33	< 0.31	< 0.34	< 0.34
PCB 1242	0.5	< 0.29	< 0.27	< 0.3	< 0.3
PCB 1248	0.5	< 0.3	< 0.28	< 0.31	< 0.31
PCB 1254	0.5	< 0.19	< 0.18	< 0.2	< 0.2
PCB 1260	0.5	< 0.15	< 0.14	< 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	**1330**	**2700**	**1660**	**2990 J**
Lead	5	< 1.7	< 1.7	< 1.7	< 1.7
Manganese	50	**79.8 J**	**240 J**	**193 J**	**962**
Metals -Dissolved					
Arsenic	3	< 2.4	< 2.4	< 2.4	< 2.4
Iron	300	13.6 B	44.8 B	89.8 B	92.5 J
Lead	5	< 1.7	< 1.7	< 1.7	< 1.7
Manganese	50	48.7 J	**84.8 J**	**112 J**	**554**

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

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Table 6. 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)**	**RW-3(072390)**	**RW3(011492)**
Sample Date		**9/20/1984**	**6/14/1986**	**3/24/1988**	**10/30/1989**	**1/29/1990**	**4/23/1990**	**7/23/1990**	**1/14/1992**
VOC									
Benzene	1	< 10	< 10	< 5	< 2	< 2	< 2	< 2	< 1
Ethylbenzene	700	< 10	< 10	< 5	< 2	< 2	< 2	< 2	< 5
Toluene	1000	< 10	< 10	< 5	< 2	< 2	< 2	< 2	< 5
Xylene, -m	NS	NA	NA	< 5	< 2	< 2	< 2	< 2	< 5
Xylene, -m,p	NS	NA	NA	< 5	< 2	< 2	< 2	< 2	NA
Xylene. -o	NS	NA	NA	NA	NA	NA	NA	NA	< 5
Xylenes	1,000	NA	NA	NA	NA	NA	NA	NA	NA
PCBs									
PCB 1016	0.5	< 1	NA	NA	NA	NA	NA	NA	NA
PCB 1221	0.5	< 1	NA	NA	NA	NA	NA	NA	NA
PCB 1232	0.5	< 1	NA	NA	NA	NA	NA	NA	NA
PCB 1242	0.5	< 1	NA	NA	NA	NA	NA	NA	NA
PCB 1248	0.5	< 1	NA	NA	NA	NA	NA	NA	NA
PCB 1254	0.5	< 1	NA	NA	NA	NA	NA	NA	NA
PCB 1260	0.5	< 1	NA	NA	NA	NA	NA	NA	NA
Total PCBs	0.5	0	NA	NA	NA	NA	NA	NA	NA
Metals -Total									
Arsenic	3	< 5	< 2	NA	< 2	< 2	< 5	< 5	**5**
Iron	300	160	NA	NA	**5990 JMt**	**14500**	**40000**	**11100**	**47200**
Lead	5	**50**	< 50	NA	NA	< 5	NA	NA	< 20.8
Manganese	50	**130**	NA	NA	**218**	**255**	**891**	**206**	**1100**
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.

ARCADIS

Table 6. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well				RW-3				
Sample Name	**GWQS[1]**	**RW003(073092)**	**RW003(021893)**	**RW-3(021893)**	**RW-3(072793)**	**RW3(022295)**	**RW3(022695)**	**RW3(080795)**
Sample Date		**7/30/1992**	**2/18/1993**	**2/18/1993**	**7/27/1993**	**2/22/1995**	**2/26/1995**	**8/7/1995**
VOC								
Benzene	1	**6**	NA	< 1	< 1	< 1	NA	< 1
Ethylbenzene	700	< 5	NA	< 5	< 5	< 10	NA	< 10
Toluene	1000	< 5	NA	< 5	< 5	< 10	NA	< 10
Xylene, -m	NS	< 5	NA	< 5	< 5	< 10	NA	< 10
Xylene, -m,p	NS	NA	NA	NA	NA	NA	NA	NA
Xylene. -o	NS	< 5	NA	< 5	< 5	< 10	NA	< 10
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	0.5	NA	NA	NA	NA	NA	NA	NA
Metals -Total								
Arsenic	3	**34.4**	2.6 B	NA	< 2	NA	< 2	< 1
Iron	300	**87700**	**23900**	NA	**5200**	NA	**8010**	**2460**
Lead	5	**34.1**	**6.3**	NA	< 1.3	NA	< 2	< 0.48
Manganese	50	**2160**	**551**	NA	**184**	NA	**110**	**71**
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.

ARCADIS

Table 6. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well					RW-3				
Sample Name	**GWQS[1]**	**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)**	**RW-3(62-98)**
Sample Date		**10/29/2004**	**9/29/2006**	**4/5/2007**	**10/12/2007**	**4/30/2008**	**9/8/2008**	**7/6/2009**	**10/19/2009**
VOC									
Benzene	1	< 1	< 0.21	< 0.21	< 0.19	< 0.26	< 0.26	< 0.23	< 0.23
Ethylbenzene	700	< 1	< 0.2	< 0.2	< 0.21	< 0.27	< 0.27	< 0.27	< 0.27
Toluene	1000	0.62 J	1.4	3.1	< 0.21	3.1	20.6	< 0.3	< 0.3
Xylene, -m	NS	< 1	< 0.31	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	NA	NA	0.61 J	< 0.35	< 0.39	< 0.39	< 0.25	< 0.25
Xylene. -o	NS	< 1	< 0.42	< 0.31	< 0.2	< 0.45	< 0.45	< 0.25	< 0.25
Xylenes	1,000	< 1	< 0.31	0.61 J	< 0.2	< 0.39	< 0.39	< 0.25	< 0.25
PCBs									
PCB 1016	0.5	< 0.5	< 0.1	< 0.1	< 0.094	< 0.1	< 0.099	< 0.21	< 0.3
PCB 1221	0.5	< 0.5	< 0.52	< 0.52	< 0.47	< 0.51	< 0.49	< 0.34	< 0.41
PCB 1232	0.5	< 0.5	< 0.43	< 0.43	< 0.39	< 0.42	< 0.41	< 0.23	< 0.31
PCB 1242	0.5	< 0.5	< 0.18	< 0.18	< 0.16	< 0.18	< 0.17	< 0.099	< 0.27
PCB 1248	0.5	< 0.5	< 0.17	< 0.17	< 0.15	< 0.17	< 0.16	< 0.28	< 0.28
PCB 1254	0.5	< 0.5	< 0.12	< 0.12	< 0.11	< 0.12	< 0.11	< 0.12	< 0.18
PCB 1260	0.5	< 0.5	< 0.13	< 0.13	< 0.12	< 0.13	< 0.12	< 0.16	< 0.14
Total PCBs	0.5	0	0	0	0	0	0	0	0
Metals -Total									
Arsenic	3	< 5	< 1.5	< 1.5	< 1.1	< 1.7	< 1.7	< 2.4	< 2.4
Iron	300	**3450 J**	**407**	240	**3470**	**1520**	253	**1830**	**904**
Lead	5	< 3	< 2.6	3	< 0.94	4.7	1.6 B	< 1.7	< 1.7
Manganese	50	**140**	**150**	**101**	**172**	**149 J**	**167**	**275**	**238**
Metals -Dissolved									
Arsenic	3	< 5	< 1.5	< 1.5	< 1.1	< 1.7	< 1.7	< 2.4	< 2.4
Iron	300	166	157	25.3 B	32.7 B	42.1 B	< 7.4	86.1 B	< 100
Lead	5	< 3	< 2.6	< 2.8	< 0.94	2.3 B	< 1.4	< 1.7	< 1.7
Manganese	50	**128**	**144**	**103**	**146**	**116 J**	**143**	**266**	**237**

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

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Table 6. 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)**
Sample Date		**9/3/1984**	**9/3/1984**	**9/3/1984**	**9/3/1984**	**9/3/1984**	**9/3/1984**
VOC							
Benzene	1	< 10	< 10	< 1	< 1	< 1	< 1
Ethylbenzene	700	< 10	< 10	< 1	< 1	< 1	< 1
Toluene	1000	< 10	< 10	< 1	< 1	< 1	< 1
Xylene, -m	NS	NA	NA	< 1	< 1	< 1	< 1
Xylene, -m,p	NS	NA	NA	< 1	< 1	< 1	< 1
Xylene. -o	NS	NA	NA	< 1	< 1	< 1	< 1
Xylenes	1,000	NA	NA	NA	NA	NA	NA
PCBs							
PCB 1016	0.5	< 1	< 1	NA	NA	NA	NA
PCB 1221	0.5	< 1	< 1	NA	NA	NA	NA
PCB 1232	0.5	< 1	< 1	NA	NA	NA	NA
PCB 1242	0.5	< 1	< 1	NA	NA	NA	NA
PCB 1248	0.5	< 1	< 1	NA	NA	NA	NA
PCB 1254	0.5	< 1	< 1	NA	NA	NA	NA
PCB 1260	0.5	< 1	< 1	NA	NA	NA	NA
Total PCBs	0.5	0	0	NA	NA	NA	NA
Metals -Total							
Arsenic	3	< 5	< 5	NA	NA	NA	NA
Iron	300	**420**	**390**	NA	NA	NA	NA
Lead	5	< 50	< 50	NA	NA	NA	NA
Manganese	50	< 20	< 20	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 6. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well					RW-4		
Sample Name	**GWQS[1]**	**RW4(061486)**	**RW4(032488)**	**RW-4 (56.5-75.5')**	**RW-4 (108-127')**	**RW-4 (328-347')**	**RW-4 (388-407')**
Sample Date		**6/14/1986**	**3/24/1988**	**10/22/2004**	**10/22/2004**	**10/25/2004**	**10/25/2004**
VOC							
Benzene	1	< 10	< 5	< 0.31	< 0.31	< 0.31	< 0.31
Ethylbenzene	700	< 10	< 5	< 0.27	< 0.27	1.4	1.3
Toluene	1000	< 10	< 5	2.6	0.49 J	21.2	17.8
Xylene, -m	NS	NA	< 5	< 0.17	< 0.17	0.61 J	0.59 J
Xylene, -m,p	NS	NA	< 5	NA	NA	NA	NA
Xylene. -o	NS	NA	NA	< 0.36	< 0.36	3.9	3.4
Xylenes	1,000	NA	NA	< 0.17	< 0.17	4.6	4
PCBs							
PCB 1016	0.5	NA	NA	< 0.075	< 0.075	< 0.076	< 0.076
PCB 1221	0.5	NA	NA	< 0.085	< 0.085	< 0.086	< 0.086
PCB 1232	0.5	NA	NA	< 0.12	< 0.12	< 0.13	< 0.13
PCB 1242	0.5	NA	NA	< 0.13	< 0.13	< 0.13	< 0.13
PCB 1248	0.5	NA	NA	< 0.072	< 0.072	< 0.073	< 0.073
PCB 1254	0.5	NA	NA	< 0.072	< 0.072	< 0.073	< 0.073
PCB 1260	0.5	NA	NA	< 0.1	< 0.1	< 0.1	< 0.1
Total PCBs	0.5	NA	NA	0	0	0	0
Metals -Total							
Arsenic	3	< 2	NA	< 5	< 5	< 5	< 5
Iron	300	NA	NA	**1520**	**1060**	**20000**	**15900**
Lead	5	< 50	NA	4.4	**18.6**	**12.6**	**12.5**
Manganese	50	NA	NA	16.3 J	< 15 J	**80.5 J**	**62.5 J**
Metals -Dissolved							
Arsenic	3	NA	NA	< 5	< 5	< 5	< 5
Iron	300	NA	NA	< 100	< 100	< 100	< 100
Lead	5	NA	NA	< 3	< 3	< 3	3
Manganese	50	NA	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.

ARCADIS

Table 6. 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.

ARCADIS

Table 6. 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.

ARCADIS

Table 6. 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)**
Sample Date		**4/29/2008**	**4/29/2008**	**4/29/2008**	**4/28/2008**	**9/16/2008**	**9/9/2008**
VOC							
Benzene	1	< 0.26	< 0.26	< 0.26	< 0.26	**3.3**	0.3 J
Ethylbenzene	700	< 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
Xylene, -m	NS	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	< 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
Xylenes	1,000	< 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
PCB 1221	0.5	< 0.51	< 0.5	< 0.51	< 0.49	< 0.5	< 0.5
PCB 1232	0.5	< 0.42	< 0.42	< 0.42	< 0.41	< 0.41	< 0.41
PCB 1242	0.5	< 0.18	< 0.18	< 0.18	< 0.17	< 0.17	< 0.17
PCB 1248	0.5	< 0.16	< 0.16	< 0.17	< 0.16	< 0.16	< 0.16
PCB 1254	0.5	< 0.12	< 0.12	< 0.12	< 0.11	< 0.12	< 0.12
PCB 1260	0.5	< 0.13	< 0.13	< 0.13	< 0.12	< 0.12	< 0.12
Total PCBs	0.5	0	0	0	0	0	0
Metals -Total							
Arsenic	3	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
Iron	300	**602**	**316**	**1170**	**1180**	105	**336**
Lead	5	3.1	2.5 B	3.3	3.4	< 1.4	1.8 B
Manganese	50	5.8 B	1.8 B	5.3 B	17.2	5.7 B	6.5 B
Metals -Dissolved							
Arsenic	3	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	2.7 B
Iron	300	11.3 B	9.7 B	12 B	54.1 B	< 7.4	**521**
Lead	5	< 1.4	1.8 B	< 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**

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

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Table 6. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		RW-4						
Sample Name	**GWQS[1]**	**RW-4(388-408)**	**RW4(57-77)**	**RW-4(56-77)**	**RW-4(108-128)**	**RW-4(328-349)**	**RW-4(388-408)**	**RW-4(57-77)**
Sample Date		**9/10/2008**	**9/15/2008**	**6/30/2009**	**6/30/2009**	**7/2/2009**	**7/2/2009**	**10/21/2009**
VOC								
Benzene	1	< 0.26	**14.3**	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Ethylbenzene	700	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27
Toluene	1000	4.2	20.3	< 0.3	< 0.3	0.4 J	0.32 J	< 0.3
Xylene, -m	NS	NA	NA					NA
Xylene, -m,p	NS	< 0.39	< 0.39	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Xylene. -o	NS	< 0.45	< 0.45	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Xylenes	1,000	< 0.39	< 0.39	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
PCBs								
PCB 1016	0.5	< 0.094	< 0.1	< 0.19	< 0.19	< 0.19	< 0.2	< 0.34
PCB 1221	0.5	< 0.47	< 0.52	< 0.31	< 0.31	< 0.31	< 0.33	< 0.47
PCB 1232	0.5	< 0.39	< 0.43	< 0.21	< 0.21	< 0.21	< 0.22	< 0.35
PCB 1242	0.5	< 0.16	< 0.18	< 0.091	< 0.089	< 0.089	< 0.096	< 0.31
PCB 1248	0.5	< 0.15	< 0.17	< 0.26	< 0.25	< 0.25	< 0.27	< 0.32
PCB 1254	0.5	< 0.11	< 0.12	< 0.11	< 0.11	< 0.11	< 0.12	< 0.2
PCB 1260	0.5	< 0.12	< 0.13	< 0.15	< 0.14	< 0.14	< 0.15	< 0.16
Total PCBs	0.5	0	0	0	0	0	0	0
Metals -Total								
Arsenic	3	< 1.7	< 1.7	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4
Iron	300	**352**	**3360**	**7060**	**4430**	**2610**	**2970**	**3330**
Lead	5	< 1.4	< 1.4	3.4	< 1.7	3	1.8 B	< 1.7
Manganese	50	3.3 B	**75.8**	**111**	44.8	**67.4**	30.7	40.5
Metals -Dissolved								
Arsenic	3	< 1.7	< 1.7	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4
Iron	300	8.1 B	**507**	99.4 B	72.9 B	57.1 B	41.3 B	270
Lead	5	< 1.4	< 1.4	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
Manganese	50	2 B	**78.4**	**82.5**	28.1	**56.5**	24.9	40.2

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

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Table 6. 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)**
Sample Date		**10/22/2009**	**10/23/2009**	**10/23/2009**
VOC				
Benzene	1	< 0.23	< 0.23	< 0.23
Ethylbenzene	700	< 0.27	< 0.27	< 0.27
Toluene	1000	0.63 J	0.57 J	0.53 J
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	< 0.33	< 0.33	< 0.33
PCB 1221	0.5	< 0.46	< 0.45	< 0.46
PCB 1232	0.5	< 0.34	< 0.34	< 0.34
PCB 1242	0.5	< 0.3	< 0.29	< 0.3
PCB 1248	0.5	< 0.31	< 0.3	< 0.31
PCB 1254	0.5	< 0.2	< 0.2	< 0.2
PCB 1260	0.5	< 0.16	< 0.15	< 0.16
Total PCBs	0.5	0	0	0
Metals -Total				
Arsenic	3	< 2.4	< 2.4	< 2.4
Iron	300	**1600**	**1290 J**	**1310 J**
Lead	5	< 1.7	< 1.7	< 1.7
Manganese	50	26.3	36.3	36.7
Metals -Dissolved				
Arsenic	3	< 2.4	< 2.4	< 2.4
Iron	300	164	84 J	56.9 J
Lead	5	< 1.7	< 1.7	< 1.7
Manganese	50	25.8	13.1 B	36

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

ARCADIS

Table 6. 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)**	**RW-5(65-76)(041207)**
Sample Date		**5/16/2006**	**5/17/2006**	**9/27/2006**	**9/27/2006**	**9/29/2006**	**10/5/2006**	**4/12/2007**
VOC								
Benzene	1	**3.4**	**3**	1	**3**	< 0.21	**1.8**	**1.5**
Ethylbenzene	700	5.8	< 0.2	0.67 J	0.38 J	< 0.2	< 0.2	0.32 J
Toluene	1000	28.2	6.4	21.8	2	0.71 J	7.2	27.1 J
Xylene, -m	NS	13.1	0.67 J	0.86 J	< 0.31	< 0.31	< 0.31	NA
Xylene, -m,p	NS	NA	NA	NA	NA	NA	NA	0.97 J
Xylene. -o	NS	35.1	3	2.1	6	< 0.42	< 0.42	< 0.31
Xylenes	1,000	48.3	3.7	2.9	6	< 0.31	< 0.31	0.97
PCBs								
PCB 1016	0.5	NA	< 0.094	< 0.15	< 0.11	< 0.11	< 0.11	< 0.094
PCB 1221	0.5	NA	< 0.47	< 0.76	< 0.55	< 0.53	< 0.54	< 0.47
PCB 1232	0.5	NA	< 0.39	< 0.63	< 0.45	< 0.44	< 0.45	< 0.39
PCB 1242	0.5	NA	< 0.16	< 0.26	< 0.19	< 0.18	< 0.19	< 0.16
PCB 1248	0.5	NA	< 0.15	< 0.25	< 0.18	< 0.17	< 0.18	< 0.15
PCB 1254	0.5	NA	< 0.11	< 0.18	< 0.13	< 0.12	< 0.13	< 0.11
PCB 1260	0.5	NA	< 0.12	< 0.19	< 0.14	< 0.13	< 0.13	< 0.12
Total PCBs	0.5	NA	0	0	0	0	0	0
Metals -Total								
Arsenic	3	**17.7**	< 3.1	1.7 B	< 1.5	< 1.5	**4.7**	< 1.5
Iron	300	**14900 J**	**2510 J**	**7050**	**39300**	**4860**	**5350**	**12200**
Lead	5	**39.8**	3.3	**68.4**	< 2.6	**24.7**	**32.7**	**13.9**
Manganese	50	**8270**	**2460**	**1610**	**12400**	**4140**	**1890**	**3550**
Metals -Dissolved								
Arsenic	3	NA	< 3.1	< 1.5	< 1.5	< 1.5	< 1.5	NA
Iron	300	NA	235 J	**2490**	**39700**	67.4 B	118	NA
Lead	5	NA	< 2.6	< 2.6	< 2.6	< 7.8	< 2.6	NA
Manganese	50	NA	**2160 J**	**1610**	**12600**	**4070**	**1980**	NA

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

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Table 6. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		RW-5						
Sample Name	**GWQS[1]**	**RW-5(97-118)**	**RW-5(40-51)(041307)**	**RW-5(071015)**	**RW-5(080502)**	**RW-5 DUP(080917)**	**RW-5(070709)**	**RW-5(102709)**
Sample Date		**4/12/2007**	**4/13/2007**	**10/15/2007**	**5/2/2008**	**9/17/2008**	**7/7/2009**	**10/27/2009**
VOC								
Benzene	1	**2.6**	**1.9**	**1.8**	0.89 J	0.42J	0.26 J	< 0.23
Ethylbenzene	700	< 0.2	0.33 J	< 0.21	< 0.27	< 0.27	< 0.27	< 0.27
Toluene	1000	89.7	31.5	< 0.21	< 0.15	< 0.15	< 0.3	< 0.3
Xylene, -m	NS	NA	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	0.44 J	1.2	< 0.35	< 0.39	< 0.39	< 0.25	< 0.25
Xylene. -o	NS	< 0.31	0.34 J	< 0.2	< 0.45	< 0.45	< 0.25	< 0.25
Xylenes	1,000	0.44 J	1.5	< 0.2	< 0.39	< 0.39	< 0.25	< 0.25
PCBs								
PCB 1016	0.5	< 0.1	< 0.094	< 0.1	< 0.1	< 0.094	< 0.19	< 0.33
PCB 1221	0.5	< 0.51	< 0.47	< 0.51	< 0.5	< 0.47	< 0.31	< 0.46
PCB 1232	0.5	< 0.42	< 0.39	< 0.42	< 0.41	< 0.39	< 0.21	< 0.34
PCB 1242	0.5	< 0.18	< 0.16	< 0.18	< 0.17	< 0.16	< 0.089	< 0.3
PCB 1248	0.5	< 0.16	< 0.15	< 0.16	< 0.16	< 0.15	< 0.25	< 0.31
PCB 1254	0.5	< 0.12	< 0.11	< 0.12	< 0.12	< 0.11	< 0.11	< 0.2
PCB 1260	0.5	< 0.13	< 0.12	< 0.13	< 0.12	< 0.12	< 0.14	< 0.16
Total PCBs	0.5	0	0	0	0	0	0	0
Metals -Total								
Arsenic	3	< 1.5	< 1.5	< 1.1	**4.1**	2.3 B	< 2.4	< 2.4
Iron	300	**1980**	**21400**	**4700**	**15200**	**7290**	**8700**	**9040**
Lead	5	**7**	**44.3**	1.5 B	< 1.4	< 1.4	< 1.7	< 1.7
Manganese	50	**5340**	**3970**	**5050**	**4890**	**3990**	**3670**	**3360 J**
Metals -Dissolved								
Arsenic	3	< 1.5	< 0.94	< 1.1	< 1.7	< 1.7	< 2.4	< 2.4
Iron	300	**950**	< 25	**1280**	**1210**	**700**	**2240**	**1580**
Lead	5	4.6	< 2.8	1 B	< 1.4	< 1.4	< 1.7	< 1.7
Manganese	50	**5330**	**2920**	**4860**	**4720**	**3980**	**3520**	**3680 J**

All results are in micrograms per liter (u

See footnotes for additional information

ARCADIS

Table 6. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well				RW-5A		
Sample Name	**GWQS[1]**	**RW-5A(071015)**	**RW-5A(080429)**	**RW-5A(080912)**	**RW-5A(070709)**	**RW-5A(102809)**
Sample Date		**10/15/2007**	**4/29/2008**	**9/12/2008**	**7/7/2009**	**10/28/2009**
VOC						
Benzene	1	< 0.19	< 0.26	< 0.26	< 0.23	< 0.23
Ethylbenzene	700	< 0.21	< 0.27	< 0.27	< 0.27	< 0.27
Toluene	1000	< 0.21	< 0.15	< 0.15	< 0.3	0.66 J
Xylene, -m	NS	NA	NA	NA	NA	NA
Xylene, -m,p	NS	< 0.35	< 0.39	< 0.39	< 0.25	< 0.25
Xylene. -o	NS	< 0.2	< 0.45	< 0.45	< 0.25	< 0.25
Xylenes	1,000	< 0.2	< 0.39	< 0.39	< 0.25	< 0.25
PCBs						
PCB 1016	0.5	< 0.1	< 0.094	< 0.099	< 0.19	< 0.33
PCB 1221	0.5	< 0.51	< 0.47	< 0.49	< 0.31	< 0.45
PCB 1232	0.5	< 0.42	< 0.39	< 0.41	< 0.21	< 0.34
PCB 1242	0.5	< 0.18	< 0.16	< 0.17	< 0.089	< 0.29
PCB 1248	0.5	< 0.17	< 0.15	< 0.16	< 0.25	< 0.3
PCB 1254	0.5	< 0.12	< 0.11	< 0.11	< 0.11	< 0.2
PCB 1260	0.5	< 0.13	< 0.12	< 0.12	< 0.14	< 0.15
Total PCBs	0.5	0	0	0	0	0
Metals -Total						
Arsenic	3	< 1.1	**8.6**	**10**	< 2.4	**3.5**
Iron	300	**524**	**704**	**605**	**1420**	**1290 J**
Lead	5	1.9 B	2.9 B	2.2 B	< 1.7	< 1.7
Manganese	50	**364**	**123**	**234**	**320**	**209**
Metals -Dissolved						
Arsenic	3	< 1.1	**11.8**	**9.7**	< 2.4	< 2.4
Iron	300	< 6.3	50.6 B	162	106	**322 J**
Lead	5	< 0.94	2.5 B	< 1.4	< 1.7	< 1.7
Manganese	50	**396**	7.2 B	**201**	**244**	**141**

All results are in micrograms per liter (u

See footnotes for additional information

ARCADIS

Table 6. 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

ARCADIS

Table 6. 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)**	**RW-6(102809)**
Sample Date		**4/3/2007**	**4/6/2007**	**10/11/2007**	**5/2/2008**	**9/15/2008**	**7/9/2009**	**10/28/2009**
VOC								
Benzene	1	**1.9**	**2.7**	**2.6**	**1.7**	**2.1**	**2**	**1.5**
Ethylbenzene	700	< 0.2	< 0.2	< 0.21	< 0.27	< 0.27	< 0.27	< 0.27
Toluene	1000	0.69 J	88.4	< 0.21	< 0.15	< 0.15	< 0.3	< 0.3
Xylene, -m	NS	NA	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	0.55 J	2	< 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	0.55 J	2	< 0.2	< 0.39	< 0.39	< 0.25	< 0.25
PCBs								
PCB 1016	0.5	< 0.1	< 0.1	< 0.094	< 0.1	< 0.1	< 0.19	< 0.33
PCB 1221	0.5	< 0.52	< 0.51	< 0.47	< 0.52	< 0.51	< 0.31	< 0.46
PCB 1232	0.5	< 0.43	< 0.42	< 0.39	< 0.43	< 0.42	< 0.21	< 0.34
PCB 1242	0.5	< 0.18	< 0.18	< 0.16	< 0.18	< 0.18	< 0.089	< 0.3
PCB 1248	0.5	< 0.17	< 0.16	< 0.15	< 0.17	< 0.17	< 0.25	< 0.31
PCB 1254	0.5	< 0.12	< 0.12	< 0.11	< 0.12	< 0.12	< 0.11	< 0.2
PCB 1260	0.5	< 0.13	< 0.13	< 0.12	< 0.13	< 0.13	< 0.14	< 0.16
Total PCBs	0.5	0	0	0	0	0	0	0
Metals -Total								
Arsenic	3	< 1.5	< 1.5	2.5 B	**3.8**	2.4 B	**4.1**	< 2.4
Iron	300	**16000**	**39200**	**50800**	**36400**	**43200**	**37600**	**37800 J**
Lead	5	**32.3 J**	4.6	< 0.94	1.5 B	< 1.4	< 1.7	< 1.7
Manganese	50	**11300**	**6620**	**5210**	**6640**	**4500**	**4860**	**4920**
Metals -Dissolved								
Arsenic	3	< 1.5	< 1.5	1.2 B	2.5 B	2.1 B	< 2.4	< 2.4
Iron	300	**15200**	**36800**	**29700**	**7550**	**29600**	**27800**	**10500 J**
Lead	5	< 2.8	< 2.8	1.3 B	< 1.4	< 1.4	< 1.7	< 1.7
Manganese	50	**11300**	**6460**	**5360**	**6140**	**4340**	**4750**	**4680**

All results are in micrograms per liter (u

See footnotes for additional information

ARCADIS

Table 6. 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)**	**RW-6A (102809)**
Sample Date		**10/16/2007**	**5/2/2008**	**9/15/2008**	**7/9/2009**	**10/28/2009**
VOC						
Benzene	1	**5.5**	**1.7**	**2.9**	**1.3**	**2.4**
Ethylbenzene	700	15.2	< 0.27	< 0.27	< 0.27	< 0.27
Toluene	1000	< 0.21	< 0.15	< 0.15	< 0.3	0.32 J
Xylene, -m	NS	NA	NA	NA		NA
Xylene, -m,p	NS	240	1.8	49.6	2.5	15.1
Xylene. -o	NS	2.6	< 0.45	< 0.45	< 0.25	< 0.25
Xylenes	1,000	242	1.8	49.6	2.5	15.1
PCBs						
PCB 1016	0.5	< 0.1	< 0.1	< 0.094	< 0.22	< 0.3
PCB 1221	0.5	< 0.5	< 0.52	< 0.47	< 0.36	< 0.41
PCB 1232	0.5	< 0.41	< 0.43	< 0.39	< 0.24	< 0.31
PCB 1242	0.5	< 0.17	< 0.18	< 0.16	< 0.1	< 0.27
PCB 1248	0.5	< 0.16	< 0.17	< 0.15	< 0.3	< 0.28
PCB 1254	0.5	< 0.12	< 0.12	< 0.11	< 0.13	< 0.18
PCB 1260	0.5	< 0.12	< 0.13	< 0.12	< 0.17	< 0.14
Total PCBs	0.5	0	0	0	0	0
Metals -Total						
Arsenic	3	< 1.1	2.9 B	1.9B	2.7 B	< 2.4
Iron	300	**11700 J**	**9290**	**9460**	**10000**	**9810 J**
Lead	5	< 0.94	2.8 B	< 1.4	< 1.7	< 1.7
Manganese	50	**11200**	**10200 J**	**9770**	**10300**	**10600**
Metals -Dissolved						
Arsenic	3	< 1.1	1.8 B	< 1.7	< 2.4	< 2.4
Iron	300	**5520 J**	**331**	**2070**	**2760**	**5550 J**
Lead	5	< 0.94	1.8 B	< 1.4	< 1.7	< 1.7
Manganese	50	**11100**	**10000 J**	**9510**	**9960**	**10400**

All results are in micrograms per liter (u

See footnotes for additional information

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Table 6. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well					RW-7		
Sample Name	**GWQS[1]**	**21BR-(34-45)**	**21BR-(49-60)**	**21BR(80-100)**	**21BR(105-120)**	**RW-07(34-35)**	**RW-07(49-60)**
Sample Date		**5/9/2006**	**5/9/2006**	**5/10/2006**	**5/10/2006**	**9/26/2006**	**9/26/2006**
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	0.98 J	1.1	0.79 J	3.4	20.6	3.7
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	< 0.1	< 0.094	< 0.094	< 0.094	< 0.094	< 0.094
PCB 1221	0.5	< 0.51	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47
PCB 1232	0.5	< 0.42	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39
PCB 1242	0.5	< 0.18	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
PCB 1248	0.5	< 0.17	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
PCB 1254	0.5	< 0.12	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
PCB 1260	0.5	< 0.13	< 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	< 8	< 1.5	< 1.5 J
Iron	300	**8360**	**2160**	**416**	147	**1570**	**997**
Lead	5	< 3 J	< 3 J	< 3	< 3	< 2.6	< 2.6
Manganese	50	**92.4 J**	18.7 J	< 15	< 15	23	6.6 BJ
Metals -Dissolved							
Arsenic	3	< 8	< 8	< 8	< 8	< 1.5	1.8 BJ
Iron	300	< 100	< 100	< 100	< 100	108	90.9 B
Lead	5	< 3 J	< 3 J	< 3	3.8	< 2.6	< 2.6
Manganese	50	26.6 J	< 15 J	< 15	< 15	12.9 B	4.6 BJ

All results are in micrograms per liter (u

See footnotes for additional information

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Table 6. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		RW-7				
Sample Name	**GWQS[1]**	**RW-07(80-100)**	**RW-07(105-120)**	**RW-07(34-45)(040307)**	**RW-07(80-101)(040307)**	**RW-7(49-60) (040407)**
Sample Date		**9/28/2006**	**9/28/2006**	**4/3/2007**	**4/3/2007**	**4/4/2007**
VOC						
Benzene	1	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Ethylbenzene	700	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Toluene	1000	1	1.8	0.54 J	2.6	2.7
Xylene, -m	NS	< 0.31	< 0.31	NA	NA	NA
Xylene, -m,p	NS	NA	NA	< 0.42	< 0.42	< 0.42
Xylene. -o	NS	< 0.42	< 0.42	< 0.31	< 0.31	< 0.31
Xylenes	1,000	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
PCBs						
PCB 1016	0.5	< 0.098	< 0.1	< 0.11	< 0.1	< 0.1 J
PCB 1221	0.5	< 0.49	< 0.51	< 0.53	< 0.52	< 0.51 J
PCB 1232	0.5	< 0.41	< 0.42	< 0.44	< 0.43	< 0.42 J
PCB 1242	0.5	< 0.17	< 0.18	< 0.18	< 0.18	< 0.18 J
PCB 1248	0.5	< 0.16	< 0.17	< 0.17	< 0.17	< 0.16 J
PCB 1254	0.5	< 0.11	< 0.12	< 0.12	< 0.12	< 0.12 J
PCB 1260	0.5	< 0.12	< 0.13	< 0.13	< 0.13	< 0.13 J
Total PCBs	0.5	0	0	0	0	0
Metals -Total						
Arsenic	3	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Iron	300	**378**	175	**3150**	**490**	**489**
Lead	5	< 2.6	< 2.6	< 2.8	< 2.8	< 2.8
Manganese	50	8.5 B	6.8 B	**63.9**	7.6 B	8 B
Metals -Dissolved						
Arsenic	3	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Iron	300	85.9 B	< 67	55.5 B	< 25	< 25
Lead	5	< 2.6	< 2.6	< 2.8	< 2.8	< 2.8
Manganese	50	5.5 B	5.6 B	8.2 B	4.1 B	3.4 B

All results are in micrograms per liter (u

See footnotes for additional information

ARCADIS

Table 6. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well				RW-7				
Sample Name	**GWQS[1]**	**RW-7(103-119) (040407)**	**RW-7(071015)**	**RW-7 (080505)**	**RW-7(080912)**	**RW-7(070709)**	**RW-7(102709)**	**RW-7(102709) Dup**
Sample Date		**4/4/2007**	**10/15/2007**	**5/5/2008**	**9/12/2008**	**7/7/2009**	**10/27/2009**	**10/27/2009**
VOC								
Benzene	1	< 0.21	< 0.19	< 0.26	< 0.26	< 0.23	< 0.23	0.41 J
Ethylbenzene	700	< 0.2	< 0.21	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27
Toluene	1000	1.8	< 0.21	< 0.15	<0.15	< 0.3	< 0.3	< 0.3
Xylene, -m	NS	NA	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	< 0.42	< 0.35	< 0.39	< 0.39	< 0.25	< 0.25	< 0.25
Xylene. -o	NS	< 0.31	< 0.2	< 0.45	< 0.45	< 0.25	< 0.25	< 0.25
Xylenes	1,000	< 0.31	< 0.2	< 0.39	< 0.39	< 0.25	< 0.25	< 0.25
PCBs								
PCB 1016	0.5	< 0.094	< 0.094	< 0.094	< 0.094	< 0.19	< 0.3	< 0.3
PCB 1221	0.5	< 0.47	< 0.47	< 0.47	< 0.47	< 0.31	< 0.41	< 0.41
PCB 1232	0.5	< 0.39	< 0.39	< 0.39	< 0.39	< 0.21	< 0.31	< 0.31
PCB 1242	0.5	< 0.16	< 0.16	< 0.16	< 0.16	< 0.089	< 0.27	< 0.27
PCB 1248	0.5	< 0.15	< 0.15	< 0.15	< 0.15	< 0.25	< 0.28	< 0.28
PCB 1254	0.5	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.18	< 0.18
PCB 1260	0.5	< 0.12	< 0.12	< 0.12	< 0.12	< 0.14	< 0.14	< 0.14
Total PCBs	0.5	0	0	0	0	0	0	0
Metals -Total								
Arsenic	3	< 1.5	< 1.1	< 1.7	< 1.7	< 2.4	< 2.4	< 2.4
Iron	300	213	**342**	< 186 B	**1350**	**2130**	**887**	**21000**
Lead	5	< 2.8	< 0.94	1.5 B	< 1.4	**5.1**	< 1.7	< 1.7
Manganese	50	4.3 B	6.9 B	< 1.7 B	9.3 B	**64.4**	11.4 J	**401 J**
Metals -Dissolved								
Arsenic	3	< 1.5	< 1.1	< 1.7	< 1.7	< 2.4	< 2.4	< 2.4
Iron	300	35 B	< 6.3	< 21 B	15.1 B	< 42	37.5 B	**14400**
Lead	5	< 2.8	< 0.94	< 1.4	< 1.4	< 1.7	< 1.7	< 1.7
Manganese	50	2.8 B	6 BJ	< 1 B	1.1 B	13 B	1.3 J	**396**

All results are in micrograms per liter (u

See footnotes for additional information

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Table 6. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		RW-8								
Sample Name	**GWQS[1]**	**RW8(42-62)**	**RW8(158-178)**	**RW8(199-219)**	**RW-8(42-62)**	**RW-8(158-178)**	**RW-8(199-219)**	**RW-8(42-62)**	**RW-8(158-178)**	**RW-8(199-219)**
Sample Date		**7/31/2008**	**7/21/2008**	**7/22/2008**	**7/7/2009**	**7/7/2009**	**7/7/2009**	**11/4/2009**	**11/4/2009**	**11/4/2009**
VOC										
Benzene	1	0.62 J	< 0.26	0.38 J	< 0.23	< 0.23	< 0.23	< 0.23	< 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	27.8	50.9	140	< 0.3	< 0.3	0.66 J	< 0.3	< 0.3	0.77 J
Xylene, -m	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	< 0.39	< 0.39	< 0.39	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Xylene. -o	NS	< 0.45	< 0.45	< 0.45	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Xylenes	1,000	< 0.39	< 0.39	< 0.39	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
PCBs										
PCB 1016	0.5	< 0.1	< 0.094	< 0.094	< 0.19	< 0.24	< 0.24	< 0.32	< 0.33	< 0.3
PCB 1221	0.5	< 0.51	< 0.47	< 0.47	< 0.31	< 0.39	< 0.38	< 0.44	< 0.45	< 0.41
PCB 1232	0.5	< 0.42	< 0.39	< 0.39	< 0.21	< 0.26	< 0.26	< 0.33	< 0.34	< 0.31
PCB 1242	0.5	< 0.18	< 0.16	< 0.16	< 0.091	< 0.11	< 0.11	< 0.29	< 0.29	< 0.27
PCB 1248	0.5	< 0.17	< 0.15	< 0.15	< 0.26	< 0.32	< 0.32	< 0.3	< 0.3	< 0.28
PCB 1254	0.5	< 0.12	< 0.11	< 0.11	< 0.11	< 0.14	< 0.14	< 0.19	< 0.2	< 0.18
PCB 1260	0.5	< 0.13	< 0.12	< 0.12	< 0.15	< 0.18	< 0.18	< 0.15 J	< 0.15	< 0.14
Total PCBs	0.5	0	0	0	0	0	0	0	0	0
Metals -Total										
Arsenic	3	< 1.7	**4.3**	2.5 B	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4
Iron	300	169	158	**405**	**1570**	**759**	**895**	**593**	**423**	**1350**
Lead	5	4	< 1.4	< 1.4	**17.9**	**6**	2 B	< 1.7	< 1.7	< 1.7
Manganese	50	**75.4**	**65.8**	**94.9**	**135**	**158**	**126**	**132**	**171**	**172**
Metals -Dissolved										
Arsenic	3	< 1.7	**3.2**	**3.6**	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4
Iron	300	23.7 B	12.4 B	37.9 B	**653**	122	46.8 B	**418**	29.7 J	59.6 J
Lead	5	1.9 B	< 1.4	< 1.4	5	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
Manganese	50	**72.3**	**61.6**	**89.9**	**137**	**158**	**121**	**124**	**174**	**175**

All results are in micrograms per liter (u

See footnotes for additional information

Table 6. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well							RW-9									
Sample Name	**GWQS[1]**	**RW9(20-40)**	**RW9 (80-100)**	**RW9 (134-154)**	**RW-9 (201-221)**	**DUP 1**	**RW-9(20-40)**	**RW-9(80-100)**	**DUP**	**RW-9(134-154)**	**RW-9(201-221)**	**RW-9(20-40)**	**RW-9(80-100)**	**RW-9(134-154)**	**RW-9(201-221)**
Sample Date		**7/30/2008**	**7/23/2008**	**7/23/2008**	**7/24/2008**	**7/23/2008**	**7/15/2009**	**7/15/2009**	**DUP(071609)**	**7/16/2009**	**7/16/2009**	**11/2/2009**	**11/2/2009**	**11/2/2009**	**11/3/2009**
VOC															
Benzene	1	**7**	0.93 J	0.7 J	**1.5**	**1.1**	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Ethylbenzene	700	0.43 J	< 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	198	34.3	32.8	65.1	32.9	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Xylene, -m	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Xylene. -o	NS	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Xylenes	1,000	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
PCBs															
PCB 1016	0.5	< 0.11	< 0.094	< 0.094	< 0.1	< 0.094	< 0.52	< 0.51	< 0.24	< 0.2	< 0.24	< 0.3	< 0.33	< 0.33	< 0.3
PCB 1221	0.5	< 0.54	< 0.47	< 0.47	< 0.52	< 0.47	< 0.52	< 0.51	< 0.38	< 0.33	< 0.38	< 0.41	< 0.46	< 0.46	< 0.41
PCB 1232	0.5	< 0.45	< 0.39	< 0.39	< 0.43	< 0.39	< 0.52	< 0.51	< 0.26	< 0.22	< 0.26	< 0.31	< 0.34	< 0.34	< 0.31
PCB 1242	0.5	< 0.19	< 0.16	< 0.16	< 0.18	< 0.16	< 0.52	< 0.51	< 0.11	< 0.095	< 0.11	< 0.27	< 0.3	< 0.3	< 0.27
PCB 1248	0.5	< 0.18	< 0.15	< 0.15	< 0.17	< 0.15	< 0.52	< 0.51	< 0.32	< 0.27	< 0.32	< 0.28	< 0.31	< 0.31	< 0.28
PCB 1254	0.5	< 0.13	< 0.11	< 0.11	< 0.12	< 0.11	< 0.52	< 0.51	< 0.14	< 0.12	< 0.14	< 0.18	< 0.2	< 0.2	< 0.18
PCB 1260	0.5	< 0.13	< 0.12	< 0.12	< 0.13	< 0.12	< 0.52	< 0.51	< 0.18	< 0.15	< 0.18	< 0.14	< 0.16	< 0.16	< 0.14
Total PCBs	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Metals -Total															
Arsenic	3	< 1.7	1.7 B	< 1.7	< 1.7	2.1 B	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4
Iron	300	210	**466**	**365**	**490**	**327**	143	**317**	**1240**	**1330**	**888**	**365**	**816**	**604**	**929**
Lead	5	**5.2**	< 1.4	< 1.4	< 1.4	< 1.4	2.8 B	< 1.7	**6.4**	**6.4**	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
Manganese	50	20.2	33.3	**50.1**	**65.5**	27.5	15.3	10.4 B	**188**	**202**	**170**	13.1 B	27.8	31.6	**104**
Metals -Dissolved															
Arsenic	3	< 1.7	< 1.7	2.1 B	2.4 B	2 B	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4
Iron	300	13.1 B	22.5 B	44 B	147	31.8 B	< 12	42.5 B	232	140	131	137 J	87.5 J	65.9 J	105
Lead	5	2.1 B	< 1.4	< 1.4	< 1.4	< 1.4	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
Manganese	50	17.1	12.7 B	22.9	**50.1**	12.5 B	10.6 B	7.4 B	**117**	**119**	**135**	10.7 B	23.1	22.4	**94**

All results are in micrograms per liter (u

See footnotes for additional information

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Table 6. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well						RW-10				
Sample Name	**GWQS[1]**	**RW-10 (46-66)**	**RW10(70-90)**	**RW10 (115-135)**	**RW-10 (180-200)**	**RW-10**	**RW-10**	**RW-10**	**RW-10**	**RW-10**
Sample Date		**7/25/2008**	**7/28/2008**	**7/28/2008**	**7/29/2008**	**RW-10(22-42)**	**RW-10(46-66)**	**RW-10(70-90)**	**RW-10(115-135)**	**RW-10(180-200)**
VOC										
Benzene	1	< 0.26	0.26 J	< 0.26	0.57 J	< 0.23	< 0.23	< 0.23	< 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	37.5	94	75.5	66.4	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Xylene, -m	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	< 0.39	0.77 J	0.54 J	0.75 J	< 0.25	< 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	< 0.25
Xylenes	1,000	< 0.39	0.77 J	0.54 J	0.75 J	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
PCBs										
PCB 1016	0.5	< 0.1	< 0.094	< 0.094	< 0.094	< 0.2	< 0.22	< 0.22	< 0.22	< 0.21
PCB 1221	0.5	< 0.5	< 0.47	< 0.47	< 0.47	< 0.32	< 0.36	< 0.35	< 0.35	< 0.34
PCB 1232	0.5	< 0.41	< 0.39	< 0.39	< 0.39	< 0.22	< 0.24	< 0.24	< 0.24	< 0.23
PCB 1242	0.5	< 0.17	< 0.16	< 0.16	< 0.16	< 0.094	< 0.1	< 0.1	< 0.1	< 0.1
PCB 1248	0.5	< 0.16	< 0.15	< 0.15	< 0.15	< 0.27	< 0.3	< 0.29	< 0.29	< 0.29
PCB 1254	0.5	< 0.12	< 0.11	< 0.11	< 0.11	< 0.12	< 0.13	< 0.13	< 0.13	< 0.12
PCB 1260	0.5	< 0.12	< 0.12	< 0.12	< 0.12	< 0.15	< 0.17	< 0.16	< 0.16	< 0.16
Total PCBs	0.5	0	0	0	0	0	0	0	0	0
Metals -Total										
Arsenic	3	2.2 B	2.4 B	2 B	< 1.7	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4
Iron	300	**435**	**1270**	**1020**	**1720**	269	**1090**	**1620**	**1540**	**1410**
Lead	5	2.8 B	**7.3**	**6**	4.9	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
Manganese	50	**76**	**174**	**161**	**158**	11.8 B	12.7 B	16.9	21.4	**309**
Metals -Dissolved										
Arsenic	3	2.2 B	< 1.7	< 1.7	< 1.7	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4
Iron	300	12.5 B	15.6 B	38.6 B	20 B	85.3 B	202	**524**	293	**409**
Lead	5	1.6 B	1.6 B	1.4 B	1.5 B	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
Manganese	50	**70.4**	**159**	**120**	**120**	13.3 B	12.5 B	17.8	13.4 B	**307**

All results are in micrograms per liter (u

See footnotes for additional information

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Table 6. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well		RW-10					
Sample Name	**GWQS[1]**	**RW-10(22-42)**	**RW-10(46-66)**	**RW-10(70-90)**	**RW-10(115-135)**	**RW-10(180-200)**	**RW-10(180-200) Dup**
Sample Date		**10/29/2009**	**10/29/2009**	**10/29/2009**	**10/29/2009**	**10/30/2009**	**10/30/2009**
VOC							
Benzene	1	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Ethylbenzene	700	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27
Toluene	1000	< 0.3	< 0.3	< 0.3	< 0.3	1.2	1.1
Xylene, -m	NS	NA	NA	NA	NA	NA	NA
Xylene, -m,p	NS	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Xylene. -o	NS	< 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
PCBs							
PCB 1016	0.5	< 0.33	< 0.33	< 0.33	< 0.33	< 0.32	< 0.33
PCB 1221	0.5	< 0.46	< 0.46	< 0.46	< 0.46	< 0.44	< 0.46
PCB 1232	0.5	< 0.34	< 0.34	< 0.34	< 0.34	< 0.33	< 0.34
PCB 1242	0.5	< 0.3	< 0.3	< 0.3	< 0.3	< 0.29	< 0.3
PCB 1248	0.5	< 0.31	< 0.31	< 0.31	< 0.31	< 0.3	< 0.31
PCB 1254	0.5	< 0.2	< 0.2	< 0.2	< 0.2	< 0.19	< 0.2
PCB 1260	0.5	< 0.16	< 0.16	< 0.16	< 0.16	< 0.15	< 0.16
Total PCBs	0.5	0	0	0	0	0	0
Metals -Total							
Arsenic	3	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4
Iron	300	**614**	**815**	**824**	**1050**	**1990**	**2230**
Lead	5	2.2 B	< 1.7	< 1.7	< 1.7	**6**	**7**
Manganese	50	15	13.2 B	14.4 B	23	**294**	**300**
Metals -Dissolved							
Arsenic	3	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4
Iron	300	**415 J**	**610 J**	**427 J**	**421 J**	**367 J**	151 J
Lead	5	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
Manganese	50	13.6 B	11.8 J	13 J	21.6	**295**	**303**

All results are in micrograms per liter (u

See footnotes for additional information

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Table 6. 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)**
Sample Date		**10/5/2006**	**4/11/2007**	**10/16/2007**	**4/30/2008**	**4/30/2008**
VOC						
Benzene	1	< 0.21	**1.4**	**1.5**	**1.1**	0.93 J
Ethylbenzene	700	< 0.2	6.7	2.7	6.5	5.5
Toluene	1000	< 0.2	1.7	1.3	0.93 J	0.84 J
Xylene, -m	NS	< 0.31	NA	NA	NA	NA
Xylene, -m,p	NS	NA	76.7	51	34.8	30.2
Xylene. -o	NS	< 0.42	6	3.8	0.93 J	5.2
Xylenes	1,000	< 0.31	82.8	54.8	40.7	35.4
PCBs						
PCB 1016	0.5	< 0.094	< 0.1	< 0.094	< 0.094	< 0.094
PCB 1221	0.5	< 0.47	< 0.52	< 0.47	< 0.47	< 0.47
PCB 1232	0.5	< 0.39	< 0.43	< 0.39	< 0.39	< 0.39
PCB 1242	0.5	< 0.16	< 0.18	< 0.16	< 0.16	< 0.16
PCB 1248	0.5	< 0.15	< 0.17	< 0.15	< 0.15	< 0.15
PCB 1254	0.5	< 0.11	< 0.12	< 0.11	< 0.11	< 0.11
PCB 1260	0.5	< 0.12	< 0.13	< 0.12	< 0.12	< 0.12
Total PCBs	0.5	0	0	0	0	0
Metals -Total						
Arsenic	3	< 1.5	< 1.5	< 1.1	< 1.7	< 1.7
Iron	300	265	**39800**	**60800 J**	**29700**	**28200**
Lead	5	< 2.6	**6.3**	**8.8**	**5.4**	**6.6**
Manganese	50	46.7	**411**	**655**	**307 J**	**323 J**
Metals -Dissolved						
Arsenic	3	1.7 B	< 1.5	< 1.1	< 1.7	< 1.7
Iron	300	269	**38400**	**45300 J**	9.3 B	< 7.4
Lead	5	< 2.6	< 2.8	1.6 B	< 1.4	1.9 B
Manganese	50	44.1	**410**	**630**	**303 J**	**284 J**

All results are in micrograms per liter (ug/L).

See footnotes for additional information.

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Table 6. Select Historical Groundwater Sample Results, Ringwood Mines/Landfill Site, Ringwood, New Jersey

Well				SC-2		
Sample Name	**GWQS[1]**	**SC-1 (080917)**	**SC-1(070909)**	**SC-2 (080505)**	**SC-2 (080917)**	**SC-2(063009)**
Sample Date		**9/17/2008**	**7/9/2009**	**5/5/2008**	**9/17/2008**	**6/30/2009**
VOC						
Benzene	1	0.81 J	0.94 J	< 0.26	< 0.26	< 0.23
Ethylbenzene	700	1.6	2	< 0.27	< 0.27	< 0.27
Toluene	1000	0.36 J	0.51 J	< 0.15	< 0.15	< 0.3
Xylene, -m	NS	NA	NA	NA	NA	NA
Xylene, -m,p	NS	16.6	26	< 0.39	< 0.39	< 0.25
Xylene. -o	NS	3.3	3.2	< 0.45	< 0.45	< 0.25
Xylenes	1,000	19.9	29.1	< 0.39	< 0.39	< 0.25
PCBs						
PCB 1016	0.5	< 0.094	< 0.19	< 0.094	< 0.1	< 0.19
PCB 1221	0.5	< 0.47	< 0.31	< 0.47	< 0.51	< 0.31
PCB 1232	0.5	< 0.39	< 0.21	< 0.39	< 0.42	< 0.21
PCB 1242	0.5	< 0.16	< 0.089	< 0.16	< 0.18	< 0.091
PCB 1248	0.5	< 0.15	< 0.25	< 0.15	< 0.17	< 0.26
PCB 1254	0.5	< 0.11	< 0.11	< 0.11	< 0.12	< 0.11
PCB 1260	0.5	< 0.12	< 0.14	< 0.12	< 0.13	< 0.15
Total PCBs	0.5	0	0	0	0	0
Metals -Total						
Arsenic	3	< 1.7	< 2.4	< 1.7	2.1 B	< 2.4
Iron	300	**47100**	**33100**	**5240**	**8040**	**551**
Lead	5	**6.2**	**7.2**	2.8 B	< 1.4	< 1.7
Manganese	50	**518**	**343**	**658**	**619**	**227**
Metals -Dissolved						
Arsenic	3	< 1.7	< 2.4	< 1.7	< 1.7	< 2.4
Iron	300	**27300**	**27300**	< 213 B	96.3 B	34.1 B
Lead	5	< 1.4	1.7 B	< 1.4	< 1.4	< 1.7
Manganese	50	**497**	**344**	< 634 B	**599**	**183**

All results are in micrograms per

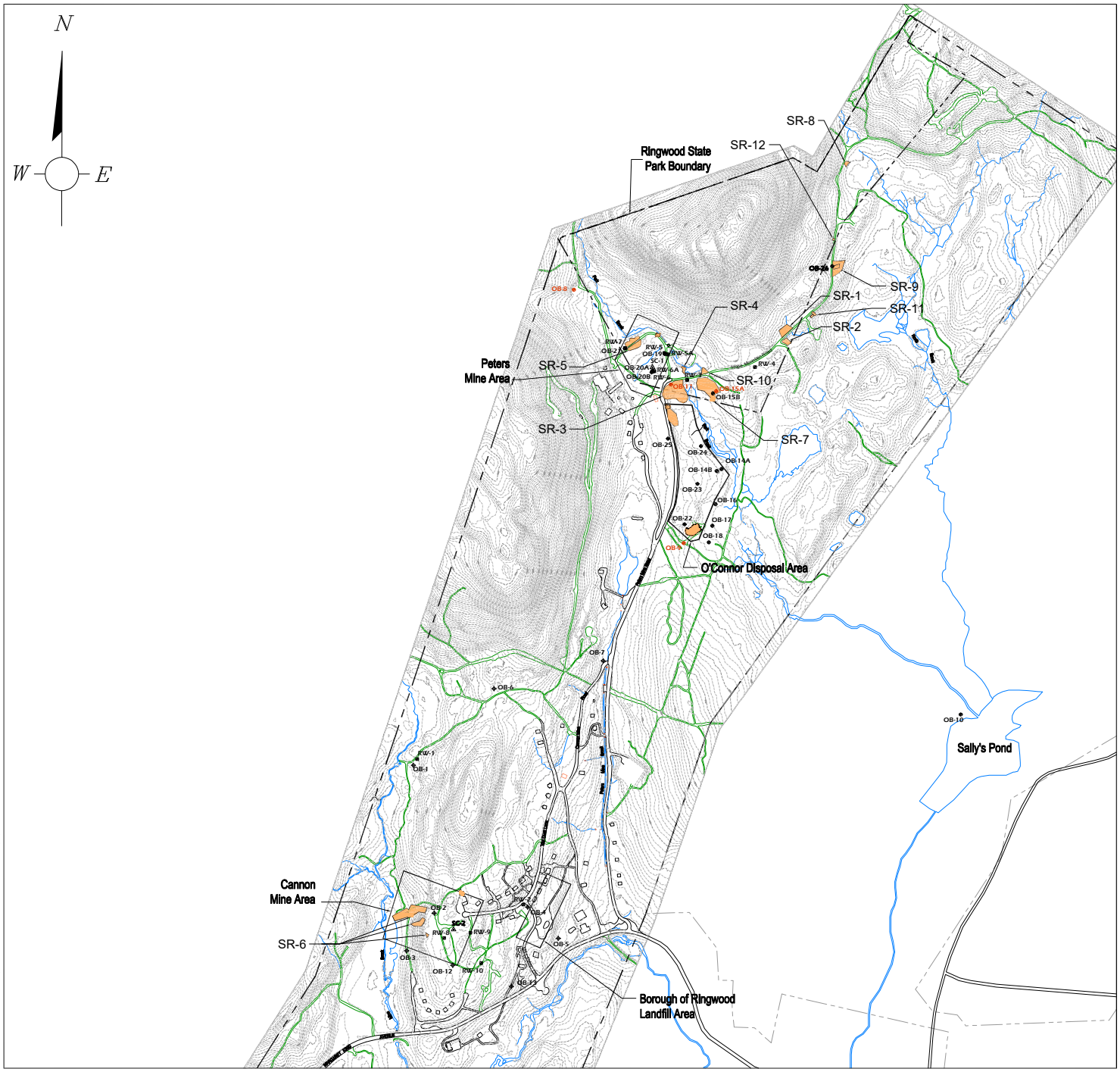
See footnotes for additional infor

Table 6. 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

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

SHEET TITLE
MONITORING WELL LOCATIONS

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

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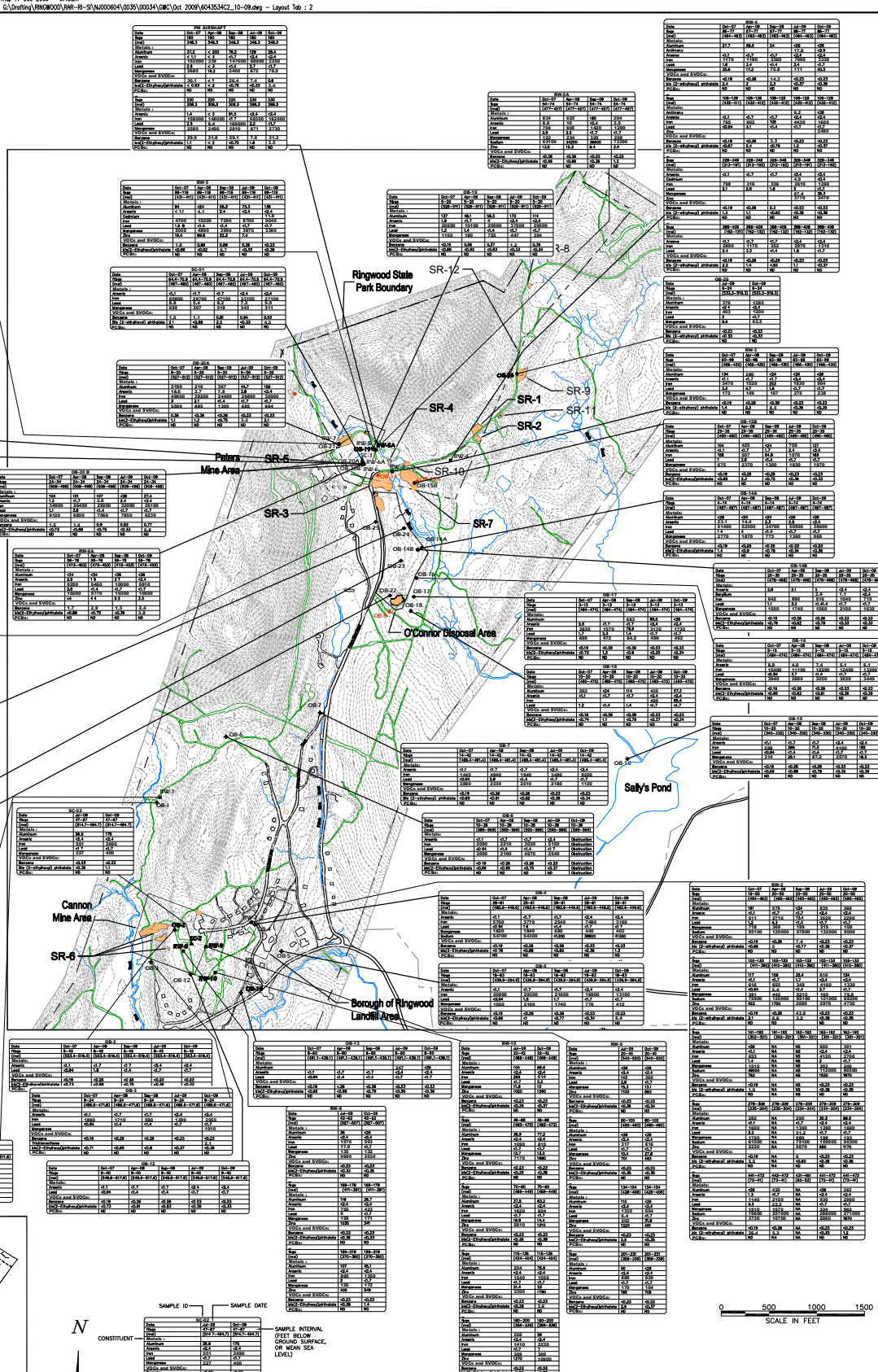


PW AIRSHAFT				
Date	Oct-07	Apr-08	Sep-08	Oct-09
Top (ft)	15	15	15	15
Bot (ft)	348.3	348.3	348.3	348.3
Metals:				
Aluminum	21.2	< 200	76.7	128
Arsenic	< 1.1	< 2	< 2	< 2
Iron	1110	1200	1100000	2200000
Lead	1.8	< 3	< 1.4	< 1.7
Manganese	264	116.2	2490	972
VOCs and SVOCs:				
Benzene	0.5	< 1	25.4	2.5
bis(2-Ethylhexyl)phthalate	< 1.4	0.63	< 1	< 0.76
PCBs:	ND	ND	ND	ND

RW-1					
Date	Oct-07	Apr-08	Sep-08	Jul-09	Oct-09
Top (ft)	89-119	89-119	89-119	89-119	89-119
Bot (ft)	(103-43)	(103-43)	(103-43)	(103-43)	(103-43)
Metals:					
Aluminum	405	244	640	4940	920
Arsenic	< 1.1	< 2	< 2	< 2	< 2.4
Iron	2100	1100	2100	2130	1200
Lead	< 0.94	1.6	< 1.4	< 1.7	< 1.7
Manganese				54.4	301
VOCs and SVOCs:					
Benzene	< 0.19	< 0.38	< 0.38	< 0.33	< 0.41
bis(2-Ethylhexyl)phthalate	< 0.68	< 0.75	< 0.75	< 0.37	< 0.38
PCBs:	ND	ND	ND	ND	ND

RW-2					
Date	Oct-07	Apr-08	Sep-08	Jul-09	Oct-09
Top (ft)	89-119	89-119	89-119	89-119	89-119
Bot (ft)	(103-43)	(103-43)	(103-43)	(103-43)	(103-43)
Metals:					
Aluminum	5	< 200	< 200	1000	1000
Arsenic	< 1.1	< 2	< 2	< 2	< 2.4
Iron	20000	20400	43200	37000	37000
Lead	< 0.94	1.6	< 1.4	< 1.7	< 1.7
Manganese	5270	5000	6000	6900	4920
Zinc	11.4	20	20	10.4	14.4
VOCs and SVOCs:					
Benzene	2.2	1.7	2.1	2	1.8
bis(2-Ethylhexyl)phthalate	< 1.4	< 0.96	1.7	1.6	1.8
PCBs:	ND	ND	ND	ND	ND

OB-11					
Date	Oct-07	Apr-08	Sep-08	Jul-09	Oct-09
Top (ft)	0-37	0-37	0-37	0-37	0-37
Bot (ft)	(33-67)	(33-67)	(33-67)	(33-67)	(33-67)
Metals:					
Aluminum	33300	1820	2700	1150	335
Arsenic	9	< 2.1	< 2	< 2	< 2.4
Beryllium	1.7	< 0.15	< 0.15	< 0.1	< 0.1
Iron	24600	2170	1300	1330	1370
Lead	5.2	1.1	1.4	< 1.7	< 1.7
Manganese	2240	51	41	31.9	47
VOCs and SVOCs:					
Benzene	< 0.19	< 0.38	< 0.38	< 0.33	< 0.33
bis(2-Ethylhexyl)phthalate	< 0.73	1.1	< 0.76	< 0.38	< 0.38
PCBs:	ND	ND	ND	ND	ND

OB-20 E					
Date	Oct-07	Apr-08	Sep-08	Jul-09	Oct-09
Top (ft)	24-34	24-34	24-34	24-34	24-34
Bot (ft)	(106-96)	(106-96)	(106-96)	(106-96)	(106-96)
Metals:					
Aluminum	< 21	151	107	< 28	< 28
Arsenic	1.5	< 2	< 2	< 2	< 2.4
Iron	38600	29400	33000	32000	35100
Lead	1.1	3.8	< 1.4	< 1.7	< 1.7
Manganese	2120	5800	3600	3600	4320
VOCs and SVOCs:					
Benzene	1.6	1.4	1.4	0.8	0.83
bis(2-Ethylhexyl)phthalate	< 0.73	< 0.96	< 0.75	< 0.33	< 0.37
PCBs:	ND	ND	ND	ND	ND

OB-25					
Date	Oct-07	Apr-08	Sep-08	Jul-09	Oct-09
Top (ft)	0-10	0-10	0-10	0-10	0-10
Bot (ft)	(281-301)	(281-301)	(281-301)	(281-301)	(281-301)
Metals:					
Aluminum	1400	2020	42100	17700	3440
Arsenic	2.1	< 2	< 2	5.3	< 2.4
Cadmium	< 0.18	< 0.1	< 0.4	0.3	< 0.4
Chromium	3	5.4	81	31	4.6
Iron	542	11000	65000	23100	2.583
Lead	1.1	3.8	44.7	19.8	4.5
Manganese	23.8	133	2110	8	3.37
Zinc	14.4	20	41.1	20	14.4
Mercury	< 0.16	< 0.1	0.16	0.071	< 0.086
VOCs and SVOCs:					
Benzene	< 0.19	< 0.38	< 0.38	< 0.33	< 0.33
Methyl tert butyl ether				< 1.4	< 0.33
bis(2-Ethylhexyl)phthalate	< 0.73	1.1	< 0.76	< 0.38	< 0.38
PCBs:	ND	ND	ND	ND	ND

OB-20A					
Date	Oct-07	Apr-08	Sep-08	Jul-09	Oct-09
Top (ft)	0-37	0-37	0-37	0-37	0-37
Bot (ft)	(327-367)	(327-367)	(327-367)	(327-367)	(327-367)
Metals:					
Aluminum	2100	215	357	< 5.7	158
Arsenic	1.5	< 2	< 2	< 2	< 2.4
Iron	49600	23200	24000	23000	30300
Lead	1.1	< 3	< 1.4	< 1.7	< 1.7
Manganese	2320	885	1300	885	964
VOCs and SVOCs:					
Benzene	0.38	< 0.38	< 0.38	< 0.33	< 0.33
bis(2-Ethylhexyl)phthalate	1.1	1.2	< 0.76	< 0.2	3.1
PCBs:	ND	ND	ND	ND	ND

OB-15					
Date	Oct-07	Apr-08	Sep-08	Jul-09	Oct-09
Top (ft)	0-37	0-37	0-37	0-37	0-37
Bot (ft)	(327-367)	(327-367)	(327-367)	(327-367)	(327-367)
Metals:					
Aluminum	4	< 200	< 200	< 28	< 28
Arsenic	< 1.1	< 2	< 2	< 2	< 2.4
Iron	2000	1170	1100	1170	1310
Lead	1.1	1.1	1.4	< 1.7	< 1.7
Manganese	54.2	31	31	31.9	36
VOCs and SVOCs:					
Benzene	< 0.19	< 0.38	< 0.38	< 0.33	< 0.33
bis(2-Ethylhexyl)phthalate	< 0.68	< 0.75	< 0.75	< 0.37	< 0.38
PCBs:	ND	ND	ND	ND	ND

OB-20		
Date	Jul-09	Oct-09
Top (ft)	8-31	8-31
Bot (ft)	(313.1-316.1)	(313.1-316.1)
Metals:		
Aluminum	375	1.280
Arsenic	< 2	< 2
Iron	483	1320
Lead	2	< 1.7
Manganese	5.6	52.5
VOCs and SVOCs:		
Benzene	< 0.33	< 0.33
bis(2-Ethylhexyl)phthalate	< 0.33	< 0.33
PCBs:	ND	ND

OB-15B					
Date	Oct-07	Apr-08	Sep-08	Jul-09	Oct-09
Top (ft)	35-38	35-38	35-38	35-38	35-38
Bot (ft)	(297-480)	(297-480)	(297-480)	(297-480)	(297-480)
Metals:					
Aluminum	164	422	< 28	726	187
Arsenic	< 1.1	< 2	< 2	2.4	< 2.4
Iron	168	507	548	1070	189
Lead	1	3.8	< 1.4	< 1.7	< 1.7
Manganese	675	2370	1300	1830	1370
VOCs and SVOCs:					
Benzene	< 0.19	< 0.38	< 0.38	< 0.33	< 0.33
bis(2-Ethylhexyl)phthalate	< 0.68	< 0.75	< 0.75	< 0.37	< 0.38
PCBs:	ND	ND	ND	ND	ND

OB-14A					
Date	Oct-07	Apr-08	Sep-08	Jul-09	Oct-09
Top (ft)	0-37	0-37	0-37	0-37	0-37
Bot (ft)	(327-367)	(327-367)	(327-367)	(327-367)	(327-367)
Metals:					
Aluminum	< 28	< 200	< 28	< 28	< 28
Arsenic	2.3.1	< 4.4	2.3	2.3	< 2.4
Iron	21600	22000	24700	23000	28600
Lead	1.1	< 3	< 1.4	< 1.7	< 1.7
Manganese	2770	1870	1700	1380	1830
VOCs and SVOCs:					
Benzene	< 0.19	< 0.38	< 0.38	< 0.33	< 0.33
bis(2-Ethylhexyl)phthalate	1.4	< 0.8	< 0.75	< 0.37	< 0.38
PCBs:	ND	ND	ND	ND	ND

OB-14B					
Date	Oct-07	Apr-08	Sep-08	Jul-09	Oct-09
Top (ft)	0-37	0-37	0-37	0-37	0-37
Bot (ft)	(327-367)	(327-367)	(327-367)	(327-367)	(327-367)
Metals:					
Aluminum	< 28	< 200	< 28	< 28	< 28
Arsenic	3.8	< 2.1	< 2	< 2	< 2.4
Iron	1100	1270	1300	1170	1120
Lead	1.1	3.8	1.4	< 1.7	< 1.7
Manganese	52.2	47.2	54.4	43.6	47.2
VOCs and SVOCs:					
Benzene	< 0.19	< 0.38	< 0.38	< 0.33	< 0.33
bis(2-Ethylhexyl)phthalate	< 0.68	< 0.75	< 0.75	< 0.37	< 0.38
PCBs:	ND	ND	ND	ND	ND

OB-16					
Date	Oct-07	Apr-08	Sep-08	Jul-09	Oct-09
Top (ft)	0-37	0-37	0-37	0-37	0-37
Bot (ft)	(327-367)	(327-367)	(327-367)	(327-367)	(327-367)
Metals:					
Aluminum	2.2	< 200	< 28	< 28	< 28
Arsenic	3.8	3.1	3	< 2.1	< 2.4
Iron	12400	11100	12300	12000	12000
Lead	1.1	< 3	< 1.4	< 1.7	< 1.7
Manganese	3940	3860	3350	3830	3440
VOCs and SVOCs:					
Benzene	< 0.19	< 0.38	< 0.38	< 0.33	< 0.33
bis(2-Ethylhexyl)phthalate	< 0.68	< 0.92	< 0.81	< 0.38	< 0.38
PCBs:	ND	ND	ND	ND	ND

OB-17					
Date	Oct-07	Apr-08	Sep-08	Jul-09	Oct-09
Top (ft)	0-37	0-37	0-37	0-37	0-37
Bot (ft)	(327-374)	(327-374)	(327-374)	(327-374)	(327-374)
Metals:					
Aluminum	3.8	< 2.1	< 2.1	< 2.4	< 2.4
Arsenic	3.8	3.1	3.3	< 2.1	< 2.4
Iron	1200	1270	1300	1170	1120
Lead	1.1	3.8	1.4	< 1.7	< 1.7
Manganese	52.2	47.2	54.4	43.6	47.2
VOCs and SVOCs:					
Benzene	< 0.19	< 0.38	< 0.38	< 0.33	< 0.33
bis(2-Ethylhexyl)phthalate	< 0.73	< 0.8	< 0.8	< 0.38	< 0.38
PCBs:	ND	ND	ND	ND	ND

OB-18					
Date	Oct-07	Apr-08	Sep-08	Jul-09	Oct-09
Top (ft)	0-37	0-37	0-37	0-37	0-37
Bot (ft)	(327-367)	(327-367)	(327-367)	(327-367)	(327-367)
Metals:					
Aluminum	2.2	< 2.1	< 2	< 2.1	< 2.4
Arsenic	3.8	3.1	3.3	< 2.1	< 2.4
Iron	1200	1270	1300	1170	1120
Lead	1.1	3.8	1.4	< 1.7	< 1.7
Manganese	52.2	47.2	54.4	43.6	47.2
VOCs and SVOCs:					
Benzene	< 0.19	< 0.38	< 0.38	< 0.33	< 0.33
bis(2-Ethylhexyl)phthalate	< 0.68	< 0.75	< 0.75	< 0.37	< 0.38
PCBs:	ND	ND	ND	ND	ND

OB-23					
Date	Oct-07	Apr-08	Sep-08	Jul-09	Oct-09
Top (ft)	0-10	0-10	0-10	0-10	0-10
Bot (ft)	(502-492)	(502-492)	(502-492)	(502-492)	(502-492)
Metals:					
Aluminum	DRY	1.620	DRY	2.050	DRY
Arsenic	DRY	< 1.7	DRY	< 2.4	DRY
Iron	DRY	1.000	DRY	2.000	DRY
Lead	DRY	< 1.4	DRY	< 1.7	DRY
Manganese	DRY	34.4	DRY	54.4	DRY
VOCs and SVOCs:					
Benzene	DRY	< 38	DRY	< 33	DRY
bis(2-Ethylhexyl)phthalate	DRY	< 38	DRY	< 37	DRY
PCBs:	DRY	ND	DRY	ND	DRY

OB-24					
Date	Oct-07	Apr-08	Sep-08	Jul-09	Oct-09
Top (ft)	0-10	0-10	0-10	0-10	0-10
Bot (ft)	(502-492)	(502-492)	(502-492)	(502-492)	(502-492)
Metals:					
Aluminum	DRY	< 200	DRY	< 28	DRY
Arsenic	DRY	< 1.7	DRY	< 2.4	DRY
Iron	DRY	1.000	DRY	2.000	DRY
Lead	DRY	< 1.4	DRY	< 1.7	DRY
Manganese	DRY	34.4	DRY	54.4	DRY
VOCs and SVOCs:					
Benzene	DRY	< 38	DRY	< 33	DRY
bis(2-Ethylhexyl)phthalate	DRY	< 38	DRY	< 37	DRY
PCBs:	DRY	ND	DRY	ND	DRY

SC-03		
Date	Jul-09	Oct-09
Top (ft)	47-47	47-47
Bot (ft)	(811.7-884.7)	(811.7-884.7)
Metals:		
Aluminum	36.9	176
Arsenic	< 2.1	< 2.4
Iron	2.000	2.000
Lead	< 1.7	< 1.7
Manganese	227	450
VOCs and SVOCs:		
Benzene	< 0.33	< 0.33
bis (2-ethylhexyl) phthalate	< 0.38	< 0.38
PCBs:	ND	ND

OB-7					
Date	Oct-07	Apr-08	Sep-08	Jul-09	Oct-09
Top (ft)	12-42	12-42	12-42	12-42	12-42
Bot (ft)	(495.1-481.4)	(495.1-481.4)	(495.1-481.4)	(495.1-481.4)	(495.1-481.4)
Metals:					
Aluminum	< 21	< 2.1	< 2.1	< 2.1	< 2.4
Arsenic	1.622	2.660	1.940	3.690	2.095
Iron	2.000	1.8	< 1.4	< 1.7	< 1.7
Manganese	2880	2320	2510	2180	1128
VOCs and SVOCs:					
Benzene	< 0.19	< 0.38	< 0.38	< 0.33	< 0.33
bis(2-Ethylhexyl)phthalate	< 0.68	< 0.75	< 0.75	< 0.37	< 0.38
PCBs:	ND	ND	ND	ND	ND

OB-8					
Date	Oct-07	Apr-08	Sep-08	Jul-09	Oct-09
Top (ft)	12-42	12-42	12-42	12-42	12-42
Bot (ft)	(495.1-481.4)	(495.1-481.4)	(495.1-481.4)	(495.1-481.4)	(495.1-481.4)
Metals:					
Aluminum	< 21	< 2.1	< 2.1	< 2.1	Obstruction
Arsenic	1.622	2.660	1.940	3.690	Obstruction
Iron	2.000	1.8	< 1.4	< 1.7	Obstruction
Manganese	2000	2.100	2670	2.040	Obstruction
VOCs and SVOCs:					
Benzene	< 0.19	< 0.38	< 0.38	< 0.33	Obstruction
bis(2-Ethylhexyl)phthalate	< 0.68	< 0.75	< 0.75	< 0.37	Obstruction
PCBs:	ND	ND	ND	ND	Obstruction

RW-1					
Date	Oct-07	Apr-08	Sep-08	Jul-09	Oct-09
Top (ft)	31-241	Nov-11	31-241	31-241	Nov-11
Bot (ft)	(139-318)	(139-318)	(139-318)	(139-318)	(139-318)
Metals:					
Aluminum	2.520	1.000	1.610	1.610	< 28
Arsenic	< 1.1	< 1.7	< 1.7	< 2.4	< 2.4
Iron	2.270	2.000	1.900	1.770	1.310
Lead	3.5	3.4	< 1.4	< 1.7	< 1.7
Manganese	1.310	1.310	1.110	1.140	1.310
VOCs and SVOCs:					
Benzene	< 0.19	< 0.38	2.5	< 0.33	< 0.33
bis (2-ethylhexyl) phthalate	1.3	1.3	< 0.77	< 0.38	< 0.38
PCBs:	ND	ND	ND	ND	ND

RW-4					
Date	06-79	09-79	06-79	06-79	06-79
Top (ft)	(46-170)	(46-170)	(46-170)	(46-170)	(46-170)
Bot (ft)					
Metals:					
Aluminum	< 1.1	33.7	< 21	< 28	< 28
Arsenic	< 1.1	< 1.7	< 1.7	< 2.4	< 2.4
Iron	42.8	193	15.4	325	3.19
Lead	< 0.94	< 1	< 1.4	< 1.7	< 1.7
VOCs and SVOCs:					
Benzene	< 0.19	< 0.38	2.6	< 0.33	< 0.33
bis (2-ethylhexyl) phthalate	< 0.68	< 1.1	< 0.76	< 0.37	< 0.37
PCBs:	ND	ND	ND	ND	ND

Date	07-79	08-79	06-79	07-79	06-79
Top (ft)	(46-170)	(46-170)	(46-170)	(46-170)	(46-170)
Bot (ft)					
Metals:					
Aluminum	99.8	< 21	< 21	< 28	< 28
Arsenic	< 1.1	< 1.7	< 1.7	< 2.4	< 2.4
Iron	117	32.7	3.49	304	441
Lead	< 0.94	< 1.4	< 1.4	< 1.7	< 1.7
Manganese	7.8	2.1	2.23	33.5	33.4
Zinc			1.020	1.020	1.020
Trichloroethylene			2.3	1.4	1.3
VOCs and SVOCs:					
Benzene	< 0.19	< 0.38	2.5	< 0.33	< 0.33
bis (2-ethylhexyl) phthalate	1.3	1.3	< 0.77	< 0.38	< 0.38
PCBs:	ND	ND	ND	ND	ND

Date	12-79	12-79	12-79	12-79	12-79
Top (ft)	(46-170)	(46-170)	(46-170)	(46-170)	(46-170)
Bot (ft)					
Metals:					
Aluminum	< 1.1	< 1.7	< 1.7	< 2.4	< 2.4
Arsenic	1.3	3.1	< 1.4	< 1.7	< 1.7
Iron				2.810	10.700
Lead				< 1.7	< 1.7
Manganese				337	337
VOCs and SVOCs:					
Benzene	< 0.19	< 0.38	2.2	< 0.33	< 0.33
bis (2-ethylhexyl) phthalate	< 0.68	< 0.75	< 0.75	1.3	< 0.38
PCBs:	ND	ND	ND	ND	ND

OB-1				
Date	Jul-09	Oct-09		
Top (ft)	0-37	0-37		
Bot (ft)	(317.8-317.8)	(317.8-317.8)	(317.8-317.8)	(317.8-317.8)
Metals:				
Aluminum	< 28	1.270	< 28	< 28
Arsenic	< 1.1	< 1.7	< 1.7	< 2.4
Iron	32	1.000	1.000	1.000
Lead	< 0.94	< 1.4	< 1.4	< 1.7
VOCs and SVOCs:				
Benzene	< 0.19	< 0.38	< 0.38	< 0.33
bis(2-Ethylhexyl)phthalate	2.1	< 0.96	< 0.75	< 0.33
PCBs:	ND	ND	ND	ND

OB-2					
Date	Oct-07	Apr-08	Sep-08	Jul-09	Oct-09
Top (ft)	0-10	0-10	0-10	0-10	0-10
Bot (ft)	(503.5-519.0)	(503.5-519.0)	(503.5-519.0)	(503.5-519.0)	(503.5-519.0)
Metals:					
Aluminum	1.000	1.000	1.000	1.000	1.000
Arsenic	< 0.94	1.6	< 1.4	< 1.7	< 1.7
Iron				2.000	2.000
Lead				< 1.7	< 1.7
Manganese				54.4	47.2
VOCs and SVOCs:					
Benzene	< 0.19	< 0.38	< 0.38	< 0.33	< 0.33
bis(2-Ethylhexyl)phthalate	< 0.73	< 0.75	< 0.75	< 0.37	< 0.38
PCBs:	ND	ND	ND	ND	ND

OB-3					
Date	Oct-07	Apr-08	Sep-08	Jul-09	Oct-09
Top (ft)	0-10	0-10	0-10	0-10	0-10
Bot (ft)	(498.2-470)	(498.2-470)	(498.2-470)	(498.2-470)	(498.2-470)
Metals:					
Aluminum	< 1.1	< 1.7	< 1.7	< 2.4	< 2.4
Arsenic	< 0.94	1.6	< 1.4	< 1.7	< 1.7
Iron	2.000	1.710	2.000	1.900	2.000
Lead	1.1	3.1	1.4	< 1.7	< 1.7
Manganese	54.2	31	31	31.9	36
VOCs and SVOCs:					
Benzene	< 0.19	< 0.38	< 0.38	< 0.33	< 0.33
bis(2-Ethylhexyl)phthalate	< 0.73	< 0.75	< 0.75	< 0.37	< 0.38
PCBs:	ND	ND	ND	ND	ND

OB-12					
Date	Oct-07	Apr-08	Sep-08	Jul-09	Oct-09
Top (ft)	0-40	0-40	0-40	0-40	0-40
Bot (ft)	(498.2-517.8)	(498.2-517.8)	(498.2-517.8)	(498.2-517.8)	(498.2-517.8)
Metals:					
Aluminum	< 1.1	< 1.7	< 1.7	< 2.4	< 2.4
Arsenic	< 0.94	< 1.4	< 1.4	< 1.7	< 1.7
Iron					
Lead					
Manganese					
VOCs and SVOCs:					
Benzene	< 0.19	< 0.38	< 0.38	< 0.33	< 0.33
bis(2-Ethylhexyl)phthalate	< 0.73	< 0.81	< 0.83	< 0.38	< 0.33
PCBs:	ND	ND	ND	ND	ND

OB-13					
Date	Oct-07	Apr-08	Sep-08	Jul-09	Oct-09
Top (ft)	0-40	0-40	0-40	0-40	0-40
Bot (ft)	(481.1-439.1)	(481.1-439.1)	(481.1-439.1)	(481.1-439.1)	(481.1-439.1)
Metals:					
Aluminum	36	< 28		317	< 28
Arsenic	< 1.1	< 1.7	< 1.7	< 2.4	< 2.4
Iron	< 0.94	< 1.4	< 1.4	< 1.7	< 1.7
VOCs and SVOCs:					
Benzene	< 0.19	< 0.38	< 0.38	< 0.33	< 0.33
bis(2-Ethylhexyl)phthalate	< 0.68	< 0.96	< 0.79	< 0.35	< 0.38
PCBs:	ND	ND	ND	ND	ND

RW-5					
Date	Oct-07	Apr-08	Sep-08	Jul-09	Oct-09
Top (ft)	0-40	0-40	0-40	0-40	0-40
Bot (ft)	(503.1-519.0)	(503.1-519.0)	(503.1-519.0)	(503.1-519.0)	(503.1-519.0)
Metals:					
Aluminum	1.000	1.000	1.000	1.000	1.000
Arsenic	< 0.94	1.6	< 1.4	< 1.7	< 1.7
Iron				2.000	2.000
Lead				< 1.7	< 1.7
Manganese				54.4	47.2
VOCs and SVOCs:					
Benzene	< 0.19	< 0.38	< 0.38	< 0.33	< 0.33
bis(2-Ethylhexyl)phthalate	< 0.68	< 0.75	< 0.75	< 0.37	< 0.38
PCBs:	ND	ND	ND	ND	ND

RW-10					
Date	Oct-07	Apr-08	Sep-08	Jul-09	Oct-09
Top (ft)	0-40	0-40	0-40	0-40	0-40
Bot (ft)	(481.1-439.1)	(481.1-439.1)	(481.1-439.1)	(481.1-439.1)	(481.1-439.1)
Metals:					
Aluminum	104	69.4		317	< 28
Arsenic	< 1.1	< 1.7	< 1.7	< 2.4	< 2.4
Iron	284	274	< 1.4	< 1.7	< 1.7
Lead	< 0.94	1.6	3.3		
Manganese	17.4	3.1	1.8		
Zinc		1000	1990		
VOCs and SVOCs:					
Benzene	< 0.19	< 0.38	< 0.38	< 0.33	< 0.33
bis(2-Ethylhexyl)phthalate	< 0.68	< 0.75	< 0.75	< 0.37	< 0.38
PCBs:	ND	ND	ND	ND	ND

Date	06-80	06-80
Top (ft)	(482-437)	(482-437)
Bot (ft)		
Metals:		
Aluminum	< 28	< 28
Arsenic	< 2.4	< 2.4
Iron	1.110	1.110
Lead	< 1.7	< 1.7
Manganese	1.110	1.110
Zinc	2.170	1980
VOCs and SVOCs:		
Benzene	< 0.33	< 0.33
bis(2-Ethylhexyl)phthalate	< 0.38	< 0.38
PCBs:	ND	ND

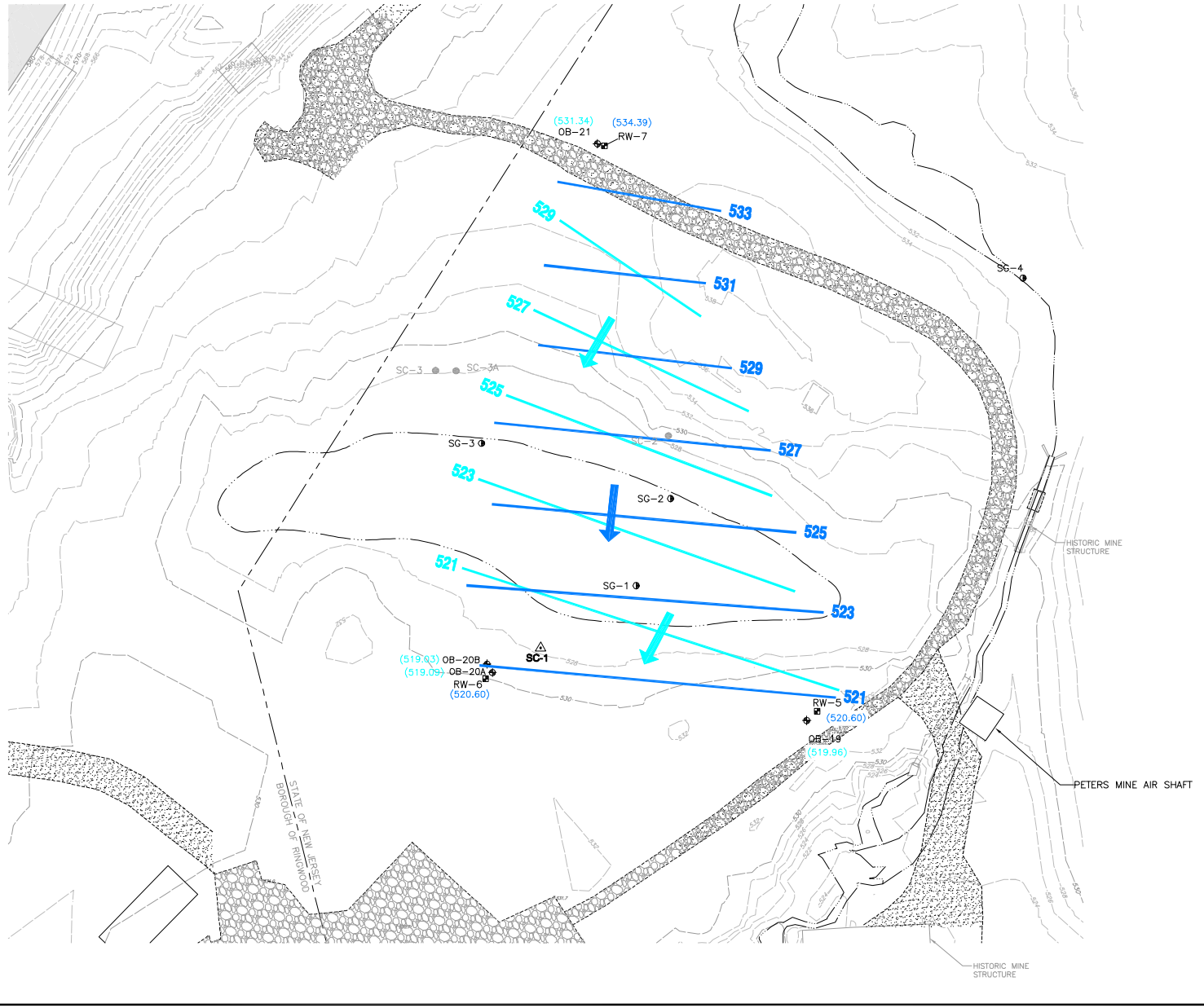
Date	70-80	70-80
Top (ft)	(482-448)	(482-448)
Bot (ft)		
Metals:		
Aluminum	212	212
Arsenic	< 2.4	< 2.4
Iron	1.020	1.020
Lead	< 1.7	< 1.7
Manganese	31.9	31.9
Zinc	1870	1870
VOCs and SVOCs:		
Benzene	< 0.33	< 0.33
bis(2-Ethylhexyl)phthalate	< 0.38	< 0.38
PCBs:	ND	ND

Date	110-130	110-130
Top (ft)	(364-344)	(364-344)
Bot (ft)		
Metals:		
Aluminum	254	76.4
Arsenic	< 2.4	< 2.4
Iron	1.020	1.020
Lead	< 1.7	< 1.7
Manganese	31.9	31.9
Zinc	1870	1870
VOCs and SVOCs:		
Benzene	< 0.33	< 0.33
bis(2-Ethylhexyl)phthalate	< 0.38	< 0.38
PCBs:	ND	ND

Date	180-200	180-200
Top (ft)	(288-338)	(288-338)
Bot (ft)		
Metals:		
Aluminum	220	38
Arsenic	< 2.4	< 2.4
Iron	1.410	2.510
Lead	< 1.7	< 1.7
Manganese	302	302
Zinc	1370	1800
VOCs and SVOCs:		
Benzene	< 0.33	< 0.33
bis(2-Ethylhexyl)phthalate	< 0.38	< 0.38
PCBs:	ND	ND

Date	210-230	210-230
Top (ft)	(288-338)	(288-338)
Bot (ft)		
Metals:		
Aluminum	197	36.1
Arsenic	< 2.4	< 2.4
Iron	2.540	1.020
Lead	< 1.7	< 1.7
Manganese	406	346
Zinc	1390	1790
VOCs and SVOCs:		
Benzene	< 0.33	< 0.33
bis(2-Ethylhexyl)phthalate	< 0.38	< 0.38
PCBs:	ND	ND

Date	250-270	250-270
Top (ft)	(288-338)	(288-338)
Bot (ft)		
Metals:		
Aluminum	254	76.4
Arsenic	< 2.4	< 2.4
Iron	1.020	1.020
Lead	< 1.7	< 1.7
Manganese	31.9	31.9
Zinc	1870	1870
VOCs and SVOCs:		
Benzene	< 0.33	< 0.33
bis(2-Ethylhexyl)phthalate	< 0.38	< 0.38
P



0 30 60 90
SCALE IN FEET

LEGEND:

- EXISTING CONTOUR
- 529 GROUNDWATER ELEVATION CONTOUR – OVERBURDEN
- GROUNDWATER FLOW DIRECTION OF OVERBURDEN (1-FT CONTOUR INTERVAL)
- 533 GROUNDWATER ELEVATION CONTOUR – BEDROCK (100' – 120')
- GROUNDWATER FLOW DIRECTION OF BEDROCK INTERVAL 100' – 120' APRIL 2007 (FT. MSL.) (1-FT CONTOUR INTERVAL)
- (519.03) 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
- OVERBURDEN MONITORING WELL
- SG-1 STAFF GAUGE
- RW-5 BEDROCK MONITORING WELL
- SC-1 DIRECTIONAL MONITORING WELL
- 001 BLOCK
- 12 LOT

NOTE:

1. WETLAND BOUNDARY ESTABLISHED BY TRIDENT ENVIRONMENTAL CONSULTANTS (2005).
2. SURFACE WATER ELEVATIONS FOR PMP AS RECORDED AT STAFF GAUGE 1 ON SEPTEMBER 22, 2008.
3. 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 OCTOBER 2009

ARCADIS

FIGURE 3

CITY:MAHWAH DIV/GROUP:ENVIRONMENTAL DB:J.GONZALEZ LD:J.SEEER PIC:M.MOHIUDDIN PM:E.ZIMMERMAN TM:(Opt) LYR:(On)ON=* OFF=*REF*
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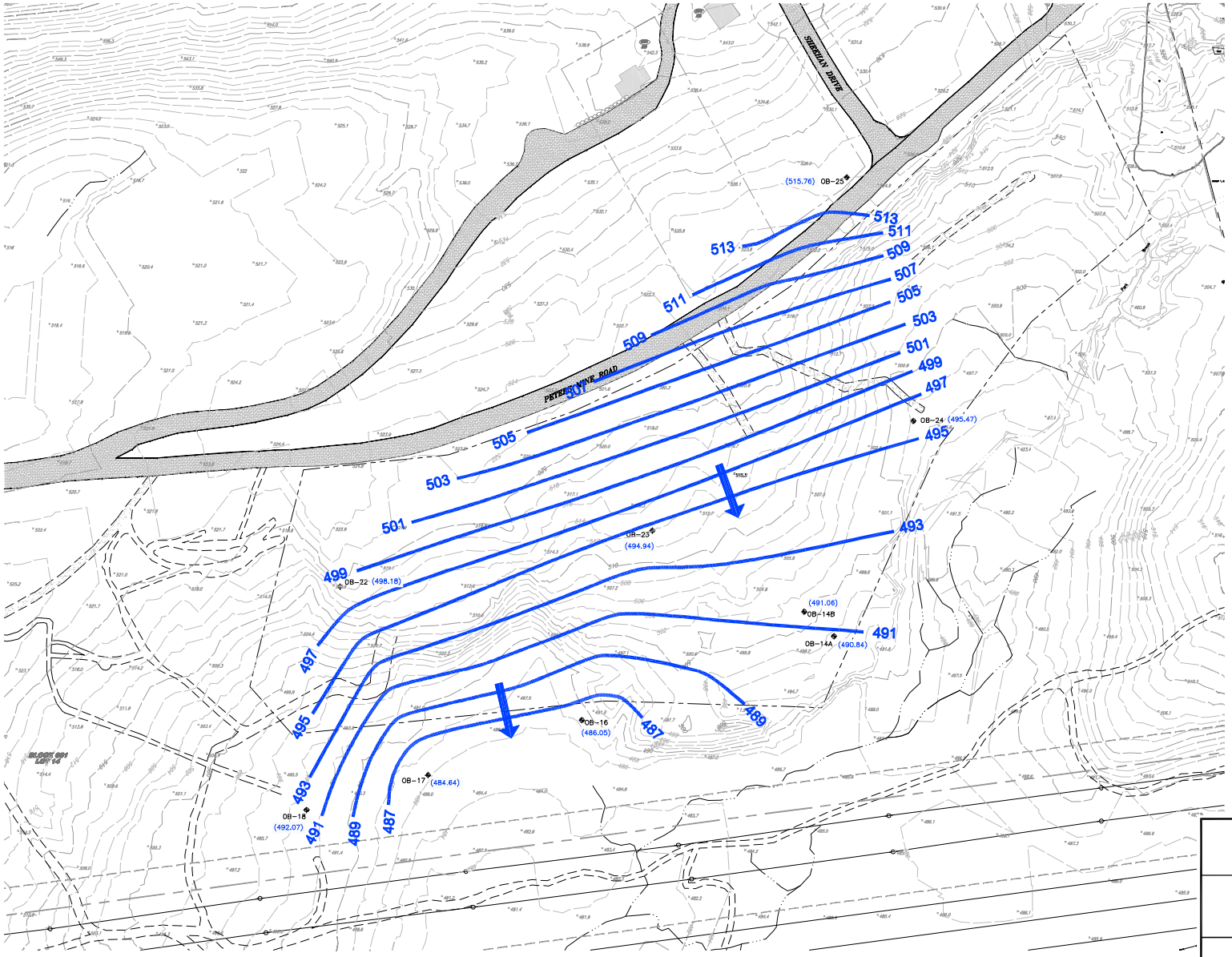
IMAGES:
PROJECTNAME: ----



0 30 60 90
SCALE IN FEET

LEGEND:

- 530 — EXISTING CONTOUR
- 487 — GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION
- (515.76) 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 OCTOBER 2009

ARCADIS

FIGURE 4

CITY:MAHWAH DIV/GROUP:ENVIRONMENTAL DB:JLGONZALEZ LD:JSEIER PIC:M.MOHIUDDIN PM:E.ZIMMERMAN TM:(Opt) LYR:(On)(On)*-OFF *REF*
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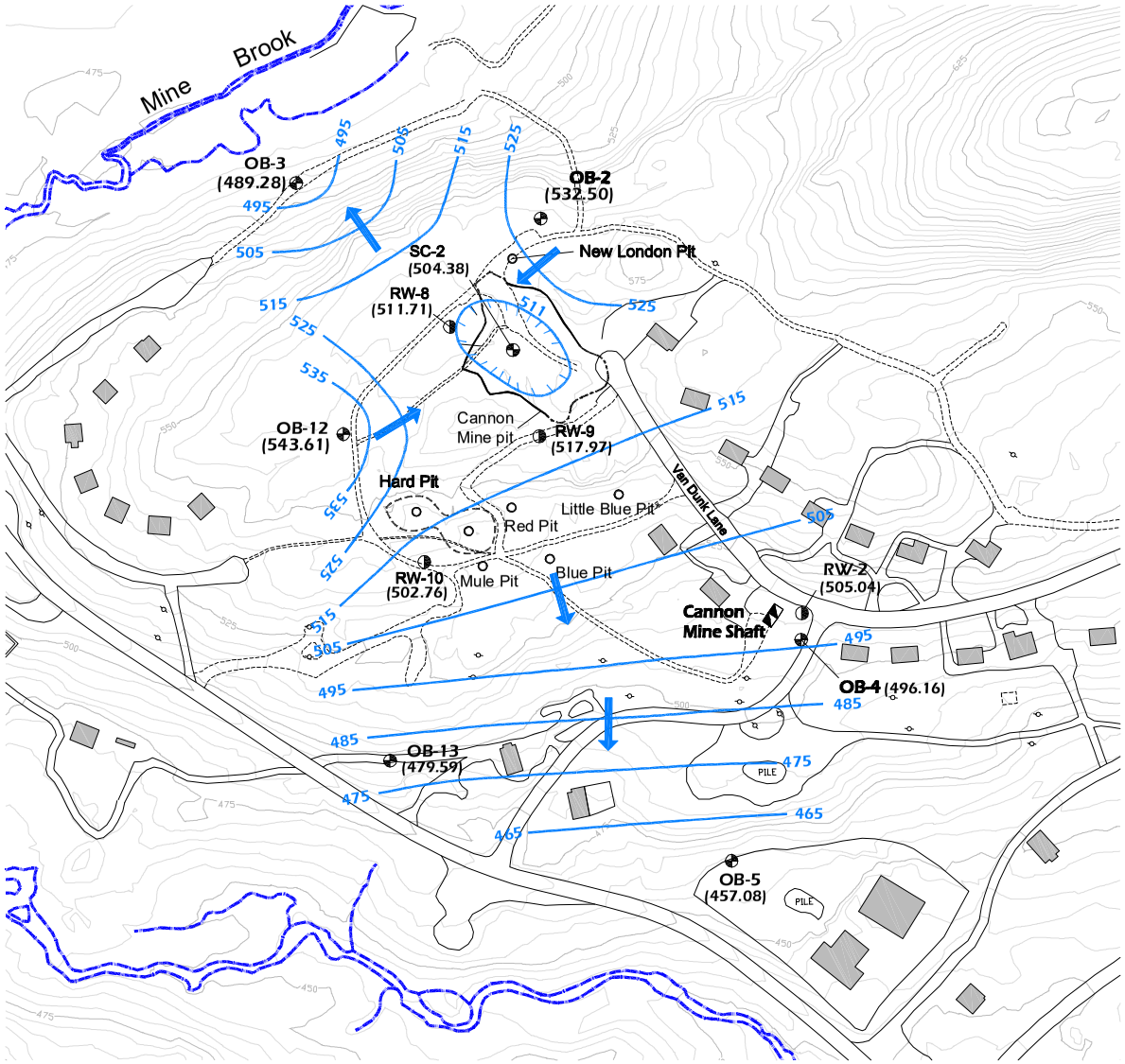
BLOCKNAME: PAGE
OCDA-AR-06



0 100 200 300
SCALE IN FEET

MONITORING INTERVALS	
WELL ID	SCREEN DEPTH (BGS)
RW-8	(42 - 62)
RW-9	(20 - 40)
RW-10	(22 - 42)
OB-2	(8 - 42)
OB-3	(9 - 24)
OB-4	(28 - 61)
OB-5	(18 - 63)
OB-12	(9 - 40)
OB-13	(8 - 60)
SC-12	(47 - 67)

NOTE:

1. ROCK WELL GROUNDWATER ELEVATIONS FOR RW-8, RW-9 AND RW-10 WERE COLLECTED IN JULY 2008. ALL OTHER GROUNDWATER ELEVATIONS WERE COLLECTED ON SEPTEMBER 8, 2008.

LEGEND

RESIDENCE

TRAILS

ROADWAYS

WATERWAYS, BROOKS

GROUND SURFACE ELEVATION CONTOUR

RW-10 (502.76) EXISTING BEDROCK MONITORING WELL WITH GROUNDWATER ELEVATION

465 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 OCTOBER 2009

ARCADIS

FIGURE
5

CITY:MAHWAH DIV/GROUP:ENVIRONMENTAL DB:J.GONZALEZ LD:J.SEEER PIC:M.MOHIUDDIN PM:E.ZIMMERMAN TM:(Opt) LYR:(On)ON=*;OFF=*REF*
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XREFS:
2:1NDSRAL IMAGES: PROJECTNAME: ----