Environmental
Resources
Management

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29 May 2008
Reference: 0079837

Massachusetts Department of Environmental Protection
Northeast Regional Office
Bureau of Waste Site Cleanup
205B Lowell Street
Wilmington, MA 01887

Re: Remedy Operation Status Submittal
December 2007 through May 2008
Former Raytheon Facility
Wayland, Massachusetts
Release Tracking Number 3-13302, Tier IB Permit No. 133939

To Whom It May Concern:

On behalf of Raytheon Company (Raytheon), Environmental Resources Management (ERM) has prepared this Remedy Operation Status (ROS) Submittal for the Former Raytheon Facility located at 430 Boston Post Road in Wayland, Massachusetts (Site; Figure 1). This report covers the period from December 2007 through May 2008 to satisfy the requirements of the Massachusetts Contingency Plan (MCP) 310 CMR 40.0893. The Massachusetts Department of Environmental Protection (DEP) ROS transmittal form (BWSC 108) and Remedial Monitoring Report (RMR) were filed electronically via eDEP; copies of the forms and an electronic receipt are included in Appendix A.

BACKGROUND

A Phase IV Completion Report was submitted on 24 November 2004 to DEP for portions of the approximately 83-acre property (Figure 2). The Phase IV Completion Report documented wetland remediation activities conducted from October 2003 through October 2004, and groundwater remediation activities conducted from May through July 2004.

Since completion of the Phase IV, ROS reports were submitted to DEP summarizing the following periods:

- December 2004 through April 2005, dated 20 May 2005;
- May 2005 through November 2005, dated 14 November 2005;
- November 2005 through May 2006, dated 19 May 2006;
- May 2006 through November 2006, dated 20 November 2006;
- November 2006 through May 2007, dated 17 May 2007; and
- June 2007 through November 2007, dated 15 November 2007.

This report will discuss wetland and groundwater monitoring activities that have been conducted since the submission of the last ROS report, and also summarizes recently conducted groundwater remediation activities.

MONITORING DATA

Wetlands Monitoring Activities

No additional wetland monitoring has been conducted since submittal of the 2007 Annual Wetland Restoration Monitoring Report (ERM, 13 December 2007). A copy of the report was submitted to the DEP, U.S. Army Corps of Engineers, and Town of Wayland Conservation Commission. The findings of that report were discussed in the previous ROS submittal.

On 28 February 2008, ERM submitted a Final Restoration Plan on behalf of Raytheon to address the presence of invasive species (barnyard grass and purple loosestrife) in the wetland restoration area. The Restoration Plan was provided to the Wayland Conservation Commission in accordance with Special Condition 69 of the Order of Conditions (OOC) dated 26 September 2003. Wetland restoration monitoring and invasive plant species control activities conducted in 2008 will be implemented in accordance with the Restoration Plan. This is the fifth and final year of wetland restoration monitoring required by the OOC.

Groundwater Monitoring Activities

Groundwater monitoring was conducted in accordance with the Phase IV Completion Report, with modifications presented in the ROS Report dated 14 November 2005, to evaluate the efficacy of the in situ chemical oxidation (ISCO) treatment program over time. Groundwater samples were collected from the following wells (Figure 3) for colorimetric analysis of permanganate on 25 & 26 February 2008:

- MW-102 Area (18 wells): MW-47S/M/D, MW-101, MW-102, MW-103, MW-201S/M/D, MW-203S/M/D, MW-204S/M/D, MW-213, MW-214, and MW-403;
- MW-33 Area (11 wells): MW-33S/M, MW-107, MW-109, MW-111, MW-113, MW-115, MW-202S/M, and MW-208S/M;
- MW-43 Area (11 wells): MW-43S, MW-104, MW-105/M, MW-106/M, MW-209, MW-210, MW-211, and MW-212/M;
- MW-40 Area (two wells): MW-40/S; and
- Main Building Area (seven wells): MW-117, MW-118, MW-404, MW-405S, IP-16S/D, and IP-17D.

Table 1 summarizes the groundwater monitoring schedule for monitoring wells applicable to RTN 3-13302 for calendar year (CY) 2007. Data collected during the February sampling event are summarized in Tables 2a and 2b.

The groundwater monitoring program will continue until such time as permanganate concentrations have significantly decreased in Site monitoring wells, concentrations of compounds of concern (COCs) approach background, or applicable standards are achieved. The next groundwater monitoring event is scheduled for May 2008. Results will be presented in the next ROS Submittal.

In addition to the regularly scheduled monitoring program described above, samples were collected in December 2007 from injection points and monitoring wells in the Main Building Area (Figure 4). The purpose of this sampling event was to aid in the design of a second-phase ISCO application in the Main Building Area as described below. These 47 samples were collected using a modified low-flow sampling method

employing a set purge time of 10 minutes. If the samples did not exhibit visual signs of permanganate presence, geochemical parameters were measured at the time of the sampling. The samples were analyzed for chlorinated volatile organic compounds (CVOCs) and permanganate. Table 3 contains a summary of resulting data.

Groundwater Monitoring – Results

Color and permanganate data collected from the monitoring wells and injection points listed above were consistent with previous monitoring rounds. Color observations confirmed the declining trend in residual permanganate concentrations in the application areas.

The presence of CVOCs in the Main Building Area is consistent with concentrations noted in the previous ROS Submittal, and does not indicate any significant change in groundwater. Table 3 summarizes the results of the December 2007 sampling event. Corresponding analytical laboratory reports are presented in Appendix B.

NOVEMBER 2007 MW-33 AREA SECOND-PHASE ISCO INJECTION

The MW-33 Area was one of the five areas of the Site targeted by the 2004 ISCO application (Figure 3). Concentrations of CVOCs and permanganate in groundwater have been tracked since that time via the periodic monitoring program described above. Analysis of groundwater data collected since the 2004 sodium permanganate ($NaMnO_4$) injection identified locations within the MW-33 Area where trichloroethene (TCE) persists at concentrations above the MCP Method 1 GW-1 standard of 5 micrograms per liter. The November 2007 injection employed potassium permanganate ($KMnO_4$) in an effort to deliver a greater volume of lower concentration oxidant to the impacted area (Figure 5). The injection points were placed to utilize the predominantly northwesterly groundwater flow pattern to spread the oxidant throughout the area. As such, the points were arranged in two arcs along the southeastern edge of the MW-33 Area. Injection through temporary points via direct-push rig tooling was chosen as the most cost-effective method for accessing the impacted geologic units. Additionally, pressure-pulse technology was

used in an effort to increase the radius of influence and decrease injection time at each point.

Methodology and Results

Injection activities commenced on 12 November 2007. In addition to IP-201 through IP-214, two established injection points from the 2004 $NaMnO_4$ injection event were also utilized (IP-127 and IP-131).

A direct-push rig advanced the injection tip to the base of the target interval at each injection point (approximately 40 feet bgs). The tooling was then retracted to expose a 3-foot screened interval. Six discrete injection intervals were targeted in each boring. This methodology was implemented at injection points, IP-201, IP-204, and IP-205.

Pressure within the silt layer at the deepest target intervals was too great to achieve desired flow rates of the applied oxidant. Remaining injection points were advanced to approximately 30 feet bgs, and four discrete injection intervals were completed. To compensate for the two excluded intervals, the concentration of $KMnO_4$ solution was adjusted from approximately 0.74% to 1.5% (by weight). A detailed summary of gallons applied to each injection point interval can be found in Table 4. Injection activities concluded 28 November 2007. Approximately 37,000 gallons of solution containing approximately 4,200 pounds of $KMnO_4$ were applied to the 15 injection points.

MAIN BUILDING AREA VERTICAL PROFILING

A vertical profiling program was designed for the Main Building Area to fill data gaps identified in the monitoring round data from December 2007. The data from the profiling program was used to confirm the lateral and vertical extents of CVOCs in the subsurface and to aid in the design of an upcoming second-phase ISCO injection inside the building.

Vertical profiling activities commenced on 29 January 2008 with direct-push drill rigs and two Waterloo Profiler set-ups. Profiling was conducted at eight locations (labeled B-600 through B-607, Figure 6). The profiling points were placed to:

- Evaluate the concentration of CVOCs following the 2004 $NaMnO_4$ injection in a previously profiled location;
- Delineate the lateral extents of CVOCs in groundwater; and
- Gather CVOC data closer to the suspected source area than was previously possible.

The Waterloo Profiler tip was driven by a direct-push rig while spring water was injected into the formation to create a real time log of depth versus Index of Hydraulic Conductivity (I_K). If possible, a groundwater sample was collected via low-flow methods once every 5 vertical feet traveled. Additionally, high conductivity (sand) layers were targeted for sample collection using the I_K log.

Thirty-seven groundwater samples were collected for analysis of CVOCs and $NaMnO_4$. Vertical Profiling activities concluded on 1 February.

Vertical Profiling Results

Chlorinated volatile organic compound and $NaMnO_4$ concentrations in the groundwater samples collected during the vertical profiling program are summarized in Table 5. The logs depicting I_K, geochemical parameters, and analytical results are presented in Appendix C along with the corresponding analytical laboratory reports.

The I_K results from the vertical profiling program are consistent with the previous programs conducted in 2002 and 2004, and with the Site conceptual model which generalizes the overburden geology to three units. The CVOC concentrations detected in all three units are lower than the range of concentrations detected during the previous vertical profiling programs.

As stated above, these data will be used to design the upcoming second-phase ISCO application in the Main Building Area. The injection will be summarized in the next ROS Submittal.

REMEDY OPERATING STATUS OPINION

See BWSC Form 108 in Appendix A.

If you have any questions or comments in regard to this submittal please contact the undersigned at (617) 646-7800.

Sincerely,

John C. Drobinski, P.G., LSP
Principal-in-Charge

Jason D. Flattery
Project Manager

encl:

Table 1	Groundwater Monitoring Schedule
Table 2a & b	Summary of Permanganate Color and Concentration
Table 3	Summary of Interior Injection Point Data
Table 4	MW-33 Area ISCO Injection Summary
Table 5	Vertical Profiling Program Summary
Figure 1	Site Locus Map
Figure 2	Remediation Site Plan
Figure 3	ISCO Treatment Areas
Figure 4	December 2007 TCE Concentrations
Figure 5	MW-33 Area ISCO Injection
Figure 6	2008 Vertical Profiler Locations
Appendix A	BWSC 108 Form and RMR (copies)
Appendix B	Laboratory Analytical Data Reports
Appendix C	Vertical Profiler Logs and Analytical Reports

cc: Louis Burkhardt, Raytheon
Benson Gould, CMG
Brian Monahan, Town of Wayland Conservation Commission
Public Repositories (2)
Paula Phillips, Congress Group

Tables

Table 1
Groundwater Monitoring Schedule
Former Raytheon Facility
Wayland, Massachusetts

Well Designation	Area of Concern	Laboratory Sampling Schedule CVOCs	Colorimetry
IP-16S	Main Building	Dec	Dec & Feb
IP-16D	Main Building	Dec	Dec & Feb
IP-17D	Main Building	Dec	Dec & Feb
MW-33S	MW-33		Feb
MW-33M	MW-33		Feb
MW-40	MW-40		Feb
MW-40S	MW-40		Feb
MW-43S	MW-43		Feb
MW-47S	MW-102		Feb
MW-47M	MW-102		Feb
MW-47D	MW-102		Feb
MW-101	MW-102		Feb
MW-102	MW-102		Feb
MW-103	MW-102		Feb
MW-104	MW-43		
MW-105	MW-43		Feb
MW-105M	MW-43		Feb
MW-106	MW-43		
MW-106M	MW-43		Feb
MW-107	MW-33		Feb
MW-109	MW-33		Feb
MW-111	MW-33		Feb
MW-113	MW-33		Feb
MW-115	MW-33		
MW-117	Main Building		Feb
MW-118	Main Building	Dec	Dec & Feb
MW-201S	MW-102		Feb
MW-201M	MW-102		Feb
MW-201D	MW-102		Feb
MW-202S	MW-33		Feb
MW-202M	MW-33		Feb
MW-203S	MW-102		Feb
MW-203M	MW-102		Feb
MW-203D	MW-102		Feb
MW-204S	MW-102		Feb
MW-204M	MW-102		Feb
MW-204D	MW-102		Feb
MW-208S	MW-33		Feb
MW-208M	MW-33		Feb
MW-209	MW-43		
MW-210	MW-43		
MW-211	MW-43		Feb
MW-212	MW-43		Feb
MW-212M	MW-43		Feb
MW-213	MW-102		
MW-214	MW-102		
MW-403	MW-102		Feb
MW-404	Main Building	Dec	Dec & Feb
MW-405S	Main Building		Dec & Feb

Notes:

Several wells were not sampled in February due to accumulation of ice and snow.

MW-117 was dry in December and was not sampled.

Table 2a
Summary of Permanganate Color
Former Raytheon Facility
Wayland, Massachusetts

Well	Visual Permanganate Presence													
Designation	**Apr-2004**	**Jul-2004**	**Sep-2004**	**Dec-2004**	**Apr-2005**	**Oct-2005**	**Apr-2006**	**Sep-2006**	**Feb-2007**	**Apr-2007**	**Jul-2007**	**Oct-2007**	**Dec-2007**	**Feb-2008**
IP-16S		Dark Purple		Purple	Dark Purple	Purple	Purple	Purple	Clear	Dark Purple	Purple	Purple	Pink	Lt. Purple
IP-16D		Purple	Pink	Dark Purple	Dark Purple		Magenta						Purple	Lt. Purple
IP-17S		Dark Purple	Dark Purple	Purple		Light Pink							Pink	
IP-17D		Dark Purple	Purple	Dark Purple	Dark Purple	Pink	Light Pink	Clear	Clear	Dark Purple	Clear	Clear	Clear	Clear
MW-33S	Clear			Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear		Clear
MW-33M	Clear			Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear		Clear
MW-33D			Clear	Clear										
MW-33B			Clear	Clear										
MW-40	Clear	Clear		Clear	Clear		Clear	Clear	Clear	Clear	Clear	Clear		Clear
MW-40S		Light Pink		Pink	Light Pink	Light Pink	Light Pink	Light Pink	Clear	Light Pink	Clear	Light Pink		Clear
MW-42S			Clear	Clear										
MW-43S	Clear	Light Pink		Dark Purple	Light Pink	Clear	Clear	Clear	Clear	Clear	Clear	Clear		Clear
MW-43D		Clear		Clear										
MW-45S	Clear			Clear						Clear				
MW-45M	Clear			Clear						Clear				
MW-45D	Clear			Clear						Clear				
MW-45B										Clear				
MW-46M										Clear				
MW-47S	Clear	Clear		Clear	Light Purple	Pink	Light Pink	Light Pink		Light Pink	Clear	Clear		Clear
MW-47M	Clear	Clear		Clear	Clear	Clear	Clear	Clear		Clear	Clear	Clear		Clear
MW-47D	Clear	Clear		Clear	Clear	Light Pink	Clear	Clear		Clear	Clear	Clear		Clear
MW-101	Clear	Light Pink		Dark Purple	Dark Pink	Pink	Light Pink	Clear		Light Pink	Clear	Clear		Pink
MW-102	Clear	Dark Purple		Magenta	Light Pink	Clear	Clear	Purple		Purple	Purple	Purple		Lt. Purple
MW-103	Clear	Clear		Clear	Clear	Light Pink	Clear	Clear		Clear	Clear	Clear		Clear
MW-104	Clear	Dark Purple		Light Pink	Clear	Dark Pink	Clear	Clear		Clear	Clear	Clear		
MW-105	Clear	Dark Purple		Dark Purple	Pink	Dark Pink	Clear	Pink		Clear	Clear	Clear		Clear
MW-105M	Pink	Dark Purple		Dark Purple	Dark Purple	Pink	Pink	Clear	Black, Cloudy	Clear	Clear	Clear		Clear
MW-106	Pink	Dark Purple		Dark Purple	Light Pink	Clear	Clear	Clear	Clear	Clear	Clear	Clear		
MW-106M	Purple	Dark Purple		Purple	Pink	Light Pink	Clear	Clear	Clear	Clear	Clear	Clear		Clear
MW-107	Clear	Clear		Clear	Clear	Clear	Clear	Clear		Clear	Clear	Clear		Clear
MW-108			Clear	Clear										
MW-109	Clear	Clear		Clear	Clear	Clear	Clear	Clear		Clear	Clear	Clear		Clear
MW-110			Pink	Clear										
MW-111	Clear	Clear		Clear	Clear	Clear	Clear	Clear		Clear	Clear	Clear		Pink
MW-112	Clear		Clear	Clear										
MW-113	Clear	Clear		Clear	Clear	Clear	Clear	Clear		Clear	Clear	Clear		Clear

Table 2a
Summary of Permanganate Color
Former Raytheon Facility
Wayland, Massachusetts

Well	Visual Permanganate Presence													
Designation	Apr-2004	Jul-2004	Sep-2004	Dec-2004	Apr-2005	Oct-2005	Apr-2006	Sep-2006	Feb-2007	Apr-2007	Jul-2007	Oct-2007	Dec-2007	Feb-2008
MW-114	Clear		Clear	Clear										
MW-115	Clear	Clear		Clear	Clear	Clear	Clear	Clear		Clear	Clear	Clear		
MW-116	Clear		Clear	Clear										
MW-117	Clear	Clear		Clear	Clear			Clear	Clear	Clear	Clear			Clear
MW-118	Clear	Clear		Clear	Light Pink	Pink	Light Pink	Clear	Clear	Purple	Clear	Pink	Lt. Purple	Purple
MW-201S	Clear	Purple		Pink	Clear	Purple	Clear	Magenta	Pink	Light Pink	Light Pink	Purple		Pink
MW-201M	Clear	Purple		Pink	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear		Clear
MW-201D	Clear	Clear		Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear		Clear
MW-202S	Clear	Clear		Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear		Clear
MW-202M	Clear	Clear		Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear		Clear
MW-202D	Clear	Clear		Clear						Clear				
MW-203S	Clear	Clear		Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear		Clear
MW-203M	Clear	Clear		Clear	Clear	Clear	Clear	Clear	Clear	Light Pink	Clear	Clear		Clear
MW-203D	Clear	Clear		Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear		Clear
MW-204S	Clear	Clear		Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear		Clear
MW-204M	Clear	Clear		Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear		Clear
MW-204D	Clear	Clear		Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear		Clear
MW-205S	Clear			Clear						Clear				
MW-205M	Clear			Clear						Clear				
MW-205D	Clear			Clear						Clear				
MW-206S										Clear				
MW-206M										Clear				
MW-206D										Clear				
MW-207S										Clear				
Mw-207M										Clear				
MW-207D										Clear				
MW-208S	Clear	Clear		Clear	Clear	Clear	Clear	Clear		Clear	Clear	Clear		Clear
MW-208M	Clear	Clear		Clear	Clear	Clear	Clear	Clear		Clear	Clear	Clear		Clear
MW-208D	Clear			Clear						Clear				
MW-209	Clear	Clear		Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear		
MW-210	Purple/Pink	Dark Purple		Dark Purple	Dark Purple	Light Purple	Light Pink	Clear		Clear	Clear	Clear		
MW-211	Clear	Clear		Clear	Clear	Clear	Clear	Clear		Clear	Clear	Clear		Clear
MW-212	Clear	Clear		Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear		Clear
MW-212M	Pink	Pink		Clear	Clear	Clear	Clear	Clear	Light Yellow	Clear	Clear	Clear		Clear
MW-213	Clear	Clear		Light Pink	Clear	Light Pink	Clear	Trace Pink		Clear	Clear	Light Pink		
MW-214	Clear	Dark Purple		Clear	Clear	Clear	Clear	Clear		Clear	Clear	Clear		
MW-216S			Clear	Clear										
MW-216M			Clear	Clear										
MW-216D			Clear	Clear			Clear	Clear						

Table 2a
Summary of Permanganate Color
Former Raytheon Facility
Wayland, Massachusetts

Well	Visual Permanganate Presence													
Designation	**Apr-2004**	**Jul-2004**	**Sep-2004**	**Dec-2004**	**Apr-2005**	**Oct-2005**	**Apr-2006**	**Sep-2006**	**Feb-2007**	**Apr-2007**	**Jul-2007**	**Oct-2007**	**Dec-2007**	**Feb-2008**
MW-217S										Clear				
MW-217M										Clear				
MW-217D										Clear				
MW-218S										Clear				
MW-218M										Clear				
MW-218D										Clear				
MW-221M										Clear				
MW-221D										Clear				
MW-403	Clear	Clear		Clear	Clear	Clear	Clear	Clear		Clear	Clear	Clear		Clear
MW-404	Clear	Dark Purple		Dark Purple	Dark Purple	Dark Purple	Dark Purple	Purple	Purple	Dark Purple	Purple	Purple	Lt. Purple	Lt. Purple
MW-405S	Clear	Dark Purple		Dark Purple	Dark Purple	Purple	Purple	Purple	Purple	Dark Purple	Purple	Purple	Purple	Purple
MW-405D		Dark Purple												

Notes:
Blank cells indicate a sample that was not analyzed.
- = Not detected.

Table 2b
Summary of Permanganate Concentration
Former Raytheon Facility
Wayland, Massachusetts

Well	Sodium Permanganate Concentration (ppm)													
Designation	Apr-2004	Jul-2004	Sep-2004	Dec-2004	Apr-2005	Oct-2005	Apr-2006	Sep-2006	Feb-2007	Apr-2007	Jul-2007	Oct-2007	Dec-2007	Feb-2008
IP-16S		3,560		2,200	5,140	1,130	670	907	-	380	295	217	145	145
IP-16D		165	76	5,330	6,850		225						290	296
IP-17S		5,310	1,010	397		110							123	
IP-17D		8,770	230	3,400	5,140	99	24.5	-	-	480	-	-	< 1	-
MW-33S				-	-	-	-	-	-	-	-	-		-
MW-33M				-	-	-	-	-	-	-	-	-		-
MW-33D			-	-										
MW-33B			-	-										
MW-40		-		-	0.6		-	-	-	-	-	-		-
MW-40S		9.2		86	7.8	55	20.6	3.4	-	5.3	-	1.0		-
MW-42S			-	-										
MW-43S		13.0		1500	60	0.9	-	-	-	-	-	-		-
MW-43D		-		-										
MW-45S				-						-				
MW-45M				-						-				
MW-45D				-						-				
MW-45B										-				
MW-46M										-				
MW-47S		-		-	37	10.9	19.5	3.9		-	-	-		-
MW-47M		-		-	1.4	-	1.6	-		-	-	-		-
MW-47D		-		-	-	1.0	-	-		-	-	-		-
MW-101		6.0		1,700	240	65.7	9.6	-		5.1	-	-		11.9
MW-102		830		78.8	5.8	1.0	-	243		228	235	271		237
MW-103		-		-	-	1.0	2.2	-		-	-	-		-
MW-104		4,770		43.1	-	47.1	-	-		-	-	-		
MW-105		1,140		1,710	106	131	-	11.4		-	-	-		-
MW-105M		961		1,300	510	34.7	29.6	-	-	-	-	-		-
MW-106		3,390		16,200	8.8	-	-	-	-	-	-	-		
MW-106M		666		400	99	4.7	1.3	-	-	-	-	-		-
MW-107		-		-	-	-	-	-		-	-	-		-
MW-108			-	1.3										
MW-109		-		-	16	1.1	-	-		-	-	-		-
MW-110			76.4	-										
MW-111		-		-	4.2	-	-	-		-	-	-		29.5
MW-112			-	1.4										
MW-113		-		-	-	-	4.0	-		-	-	-		-
MW-114			-	-										
MW-115		-		-	2.3	-	-	-		-	-	-		
MW-116			-	-										
MW-117		-		-	3.3			-	-	-	-			-

Table 2b
Summary of Permanganate Concentration
Former Raytheon Facility
Wayland, Massachusetts

Well	Sodium Permanganate Concentration (ppm)													
Designation	Apr-2004	Jul-2004	Sep-2004	Dec-2004	Apr-2005	Oct-2005	Apr-2006	Sep-2006	Feb-2007	Apr-2007	Jul-2007	Oct-2007	Dec-2007	Feb-2008
MW-118		-		-	12.4	260	22.9	-	-	323	-	8.8	126	754
MW-201S		790		78.8	3.8	240	-	49.7	30.2	2.2	2.2	244		3.4
MW-201M		21,000		21.4	-	-	-	-	-	-	-	-		-
MW-201D		-		-	-	1.2	1.5	-	-	-	-	-		-
MW-202S		-		-	-	1.1	-	-	-	-	-	-		-
MW-202M		-		-	-	-	-	-	-	-	-	-		-
MW-202D		-		-						-				
MW-203S		-		-	-	1.2	-	-	-	-	-	-		-
MW-203M		-		-	-	1.3	6.6	-	-	3.3	-	-		-
MW-203D		-		-	4.9	1.0	-	-	-	-	-	-		-
MW-204S		-		-	-	1.3	-	-	-	-	-	-		-
MW-204M		-		-	2.5	-	-	-	-	-	-	-		-
MW-204D		-		-	2.3	-	-	-	-	-	-	-		-
MW-205S				-						-				
MW-205M				-						-				
MW-205D				-						-				
MW-206S										-				
MW-206M										-				
MW-206D										-				
MW-207S										-				
Mw-207M										-				
MW-207D										-				
MW-208S		-		-	-	-	-	-		-	-	-		-
MW-208M		-		-	-	0.9	4.7	-		-	-	-		-
MW-208D				-						-				
MW-209		-		-	1.5	-	10.5	-	-	-	-	-		
MW-210		360		2,570	1,010	220	15.7	-		-	-	-		
MW-211		-		-	-	-	-	-		-	-	-		-
MW-212		-		-	-	-	-	-	-	-	-	-		-
MW-212M		24.0		-	1.6	-	-	-	1.0	-	-	-		-
MW-213		-		10.9	1.0	-	-	-		-	-	-		
MW-214		720		-	3.8	2.1	-	-		-	-	-		
MW-216S			1.3	1.0										
MW-216M			-	-										
MW-216D			-	-			-	-						

Table 2b
Summary of Permanganate Concentration
Former Raytheon Facility
Wayland, Massachusetts

Well	Sodium Permanganate Concentration (ppm)													
Designation	**Apr-2004**	**Jul-2004**	**Sep-2004**	**Dec-2004**	**Apr-2005**	**Oct-2005**	**Apr-2006**	**Sep-2006**	**Feb-2007**	**Apr-2007**	**Jul-2007**	**Oct-2007**	**Dec-2007**	**Feb-2008**
MW-217S										-				
MW-217M										-				
MW-217D										-				
MW-218S										-				
MW-218M										-				
MW-218D										-				
MW-221M										-				
MW-221D										-				
MW-403		-		-	5.6	1.2	-	-		-	-	-		-
MW-404		22,500		14,400	9,520	8,490	2,830	1,160	311	510	440	453	196	53.3
MW-405S		3,570		3,390	2,860	2,000	810	1,550	1,390	1,070	1,190	898	1,070	718
MW-405D		8,720												

Notes:
Blank cells indicate a sample that was not analyzed.
- = Not detected.

Table 3
Summary of Interior Injection Point Data
Former Raytheon Facility
Wayland, Massachusetts

Sample I.D.	**MCP Standard**	**IP-1**	**IP-2**	**IP-3S**	**IP-3D**	**IP-4**	**IP-5**	**IP-5**	**IP-6**	**IP-7**
Date Sampled	**Method 1**	20-Dec-07	20-Dec-07	20-Dec-07	20-Dec-07	20-Dec-07	20-Dec-07	20-Dec-07	19-Dec-07	19-Dec-07
Comments	**GW 1**							DUP		
Volatile Organic Compounds (VOCs) (µg/L)		NA		Dry						
Tetrachloroethene	5		1.4		< 0.50	< 0.50	< 0.50	< 0.50	1.4	1.4
Trichloroethene	5		**99**		**63**	**62**	**61**	**66**	**12**	**11**
cis-1,2-Dichloroethene	70		4.2		10	10	16	18	0.67	< 0.50
1,1-Dichloroethene	7		< 0.50		**11**	**10**	< 0.50	< 0.50	< 0.50	< 0.50
1,1-Dichloroethane	70		< 0.75		4.7	4.5	< 0.75	< 0.75	< 0.75	< 0.75
Chloroform	5		1.1		< 0.75	< 0.75	< 0.75	< 0.75	2.5	2.6
Bromodichloromethane	3		< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.4
Colorimetry								NA		
Observed Color	NS	Purple	Clear		Purple	Clear	Clear		Clear	Clear
Sodium Permanganate (ppm)	NS	435	< 1		227	< 1	< 1		< 1	< 1
Geochemical Parameters		NM			NM			NA		
Temperature (degrees Celsius)	NS		13.83			14.12	12.82		12.93	13.65
Specific Conductivity (µS/cm)	NS		1,226			1,002	612		640	773
Dissolved Oxygen (mg/L)	NS		3.59			3.81	3.98		7.31	4.32
pH (standard units)	NS		7.13			7.36	3.80		7.40	7.62
ORP (mV)	NS		150.8			148.3	160.0		91.9	79.9

Notes:

Bold cells indicate exceedance of MCP standard.
DUP = Field duplicate.
< = Not detected at or above the reported detection limt.
mg/L = Milligrams per liter (parts per million [ppm]).
µg/L = Micrograms per liter, (parts per billion [ppb]).
µS/cm = Microsiemens per centimeter.
mV = Millivolts.
NA = Not analyzed.
NM = Not measured due to presence of permanganate.
NS = No standard.

Table 3
Summary of Interior Injection Point Data
Former Raytheon Facility
Wayland, Massachusetts

Sample I.D.	**MCP Standard**	**IP-8**	**IP-9D**	**IP-10**	**IP-11S**	**IP-11D**	**IP-12**	**IP-13**	**IP-14**
Date Sampled	**Method 1**	19-Dec-07	20-Dec-07	19-Dec-07	19-Dec-07	19-Dec-07	19-Dec-07	20-Dec-07	19-Dec-07
Comments	**GW 1**								
Volatile Organic Compounds (VOCs) (µg/L)									
Tetrachloroethene	5	1.2	0.52	< 0.50	< 0.50	**5.4**	< 1.0	< 0.50	1.1
Trichloroethene	5	**25**	**16**	< 0.50	< 0.50	**380**	**84**	**11**	**11**
cis-1,2-Dichloroethene	70	< 0.50	< 0.50	< 0.50	< 0.50	13	1.0	4.4	< 0.50
1,1-Dichloroethene	7	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 1.0	< 0.50	< 0.50
1,1-Dichloroethane	70	< 0.75	< 0.75	< 0.75	< 0.75	< 7.5	< 1.5	1.5	< 0.75
Chloroform	5	0.8	1.1	1.1	< 0.75	< 7.5	1.7	< 0.75	2.6
Bromodichloromethane	3	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 1.0	< 0.50	< 0.50
Colorimetry									
Observed Color	NS	Clear	Pink	Purple	Purple	Clear	Pink	Clear	Clear
Sodium Permanganate (ppm)	NS	< 1	36.5	373	745	< 1	110	< 1	< 1
Geochemical Parameters			NM	NM	NM		NM		
Temperature (degrees Celsius)	NS	14.27				13.92		11.78	13.34
Specific Conductivity (µS/cm)	NS	935				1,191		644	799
Dissolved Oxygen (mg/L)	NS	5.61				2.78		4.10	5.91
pH (standard units)	NS	7.82				7.89		7.78	7.62
ORP (mV)	NS	44.2				16.5		117.1	61.7

Notes:

Bold cells indicate exceedance of MCP standard.
DUP = Field duplicate.
< = Not detected at or above the reported detection limt.
mg/L = Milligrams per liter (parts per million [ppm]).
µg/L = Micrograms per liter, (parts per billion [ppb]).
µS/cm = Microsiemens per centimeter.
mV = Millivolts.
NA = Not analyzed.
NM = Not measured due to presence of permanganate.
NS = No standard.

Table 3
Summary of Interior Injection Point Data
Former Raytheon Facility
Wayland, Massachusetts

Sample I.D.	**MCP Standard**	**IP-15S**	**IP-15D**	**IP-16S**	**IP-16D**	**IP-17S**	**IP-17D**	**IP-18**	**IP-19**	**IP-20**
Date Sampled	**Method 1**	19-Dec-07	19-Dec-07	19-Dec-07	19-Dec-07	19-Dec-07	19-Dec-07	19-Dec-07	19-Dec-07	19-Dec-07
Comments	**GW 1**									
Volatile Organic Compounds (VOCs) (µg/L)										
Tetrachloroethene	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.58	< 0.50
Trichloroethene	5	**6.2**	4.0	< 0.50	< 0.50	0.83	**60**	< 0.50	**12**	< 0.50
cis-1,2-Dichloroethene	70	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.1	< 0.50	< 0.50	< 0.50
1,1-Dichloroethene	7	< 0.50	< 0.50	< 0.75	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1-Dichloroethane	70	< 0.75	< 0.75	< 0.50	< 0.75	< 0.75	0.93	< 0.75	< 0.75	< 0.75
Chloroform	5	1.8	1.5	1.1	0.95	< 0.75	1.4	1.2	0.92	0.85
Bromodichloromethane	3	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.5	< 0.50	< 0.50
Colorimetry										
Observed Color	NS	Clear	Pink	Pink	Purple	Pink	Clear	Purple	Pink	Pink
Sodium Permanganate (ppm)	NS	< 1	11.7	145	290	123	< 1	305	39.7	80.8
Geochemical Parameters		NM	NM	NM	NM	NM		NM	NM	NM
Temperature (degrees Celsius)	NS						14.33			
Specific Conductivity (µS/cm)	NS						1,267			
Dissolved Oxygen (mg/L)	NS						4.64			
pH (standard units)	NS						7.49			
ORP (mV)	NS						86.0			

Notes:

Bold cells indicate exceedance of MCP standard.
DUP = Field duplicate.
< = Not detected at or above the reported detection limt.
mg/L = Milligrams per liter (parts per million [ppm]).
µg/L = Micrograms per liter, (parts per billion [ppb]).
µS/cm = Microsiemens per centimeter.
mV = Millivolts.
NA = Not analyzed.
NM = Not measured due to presence of permanganate.
NS = No standard.

Table 3
Summary of Interior Injection Point Data
Former Raytheon Facility
Wayland, Massachusetts

Sample I.D.	**MCP Standard**	**IP-21**	**IP-22**	**IP-23**	**IP-24S**	**IP-24D**	**IP-25S**	**IP-25D**	**IP-26S**	**IP-26D**
Date Sampled	**Method 1**	19-Dec-07	19-Dec-07	20-Dec-07	19-Dec-07	19-Dec-07	19-Dec-07	19-Dec-07	19-Dec-07	19-Dec-07
Comments	**GW 1**									
Volatile Organic Compounds (VOCs) (µg/L)				NA						
Tetrachloroethene	5	< 0.50	1.2		< 0.50	**6.1**	< 0.50	< 0.50	0.68	< 0.50
Trichloroethene	5	1.4	**12**		**6.5**	**71**	**17**	0.72	**64**	**20**
cis-1,2-Dichloroethene	70	< 0.50	0.81		< 0.50	3.8	< 0.50	< 0.50	< 0.50	1.1
1,1-Dichloroethene	7	< 0.50	< 0.50		< 0.50	4.1	< 0.50	< 0.50	< 0.50	1.2
1,1-Dichloroethane	70	< 0.75	< 0.75		< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
Chloroform	5	< 0.75	3.1		< 0.75	< 0.75	< 0.75	0.85	< 0.75	< 0.75
Bromodichloromethane	3	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Colorimetry										
Observed Color	NS	Pink	Clear	Purple	Clear	Clear	Lt. Pink	Pink	Clear	Lt. Pink
Sodium Permanganate (ppm)	NS	48.9	< 1	792	< 1	< 1	< 1	21.5	< 1	< 1
Geochemical Parameters		NM	NM	NM			NM	NM	NM	
Temperature (degrees Celsius)	NS				14.06	13.33				13.62
Specific Conductivity (µS/cm)	NS				714	832				656
Dissolved Oxygen (mg/L)	NS				7.22	6.08				4.60
pH (standard units)	NS				7.60	6.88				7.28
ORP (mV)	NS				103.2	121.2				106.6

Notes:

Bold cells indicate exceedance of MCP standard.
DUP = Field duplicate.
< = Not detected at or above the reported detection limt.
mg/L = Milligrams per liter (parts per million [ppm]).
µg/L = Micrograms per liter, (parts per billion [ppb]).
µS/cm = Microsiemens per centimeter.
mV = Millivolts.
NA = Not analyzed.
NM = Not measured due to presence of permanganate.
NS = No standard.

Table 3
Summary of Interior Injection Point Data
Former Raytheon Facility
Wayland, Massachusetts

Sample I.D.	**MCP Standard**	**IP-27**	**IP-28**	**IP-30**	**IP-30**	**IP-33**	**IP-35**	**IP-35**	**IP-36**	**IP-37**
Date Sampled	**Method 1**	20-Dec-07	20-Dec-07	20-Dec-07	20-Dec-07	20-Dec-07	20-Dec-07	20-Dec-07	20-Dec-07	20-Dec-07
Comments	**GW 1**				DUP			DUP		
Volatile Organic Compounds (VOCs) (µg/L)										
Tetrachloroethene	5	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	2.3
Trichloroethene	5	**85**	1.5	1.8	2.2	0.96	0.76	1.2	< 0.50	**17**
cis-1,2-Dichloroethene	70	5.1	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.72
1,1-Dichloroethene	7	**7.7**	1.6	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.69
1,1-Dichloroethane	70	1.7	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75
Chloroform	5	< 1.5	0.85	< 0.75	< 0.75	< 0.75	0.94	1.2	1.9	< 0.75
Bromodichloromethane	3	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Colorimetry					NA			NA		
Observed Color	NS	Clear	Clear	Clear		Clear	Clear		Pink	Lt. Pink
Sodium Permanganate (ppm)	NS	< 1	< 1	< 1		< 1	< 1		8.4	2.2
Geochemical Parameters					NA			NA	NM	NM
Temperature (degrees Celsius)	NS	15.01	11.99	11.82		11.55	11.39			
Specific Conductivity (µS/cm)	NS	905	1,391	509		1,031	641			
Dissolved Oxygen (mg/L)	NS	3.40	2.98	7.67		3.33	3.31			
pH (standard units)	NS	7.88	6.98	7.38		7.25	6.83			
ORP (mV)	NS	28.0	152.0	114.8		125.0	126.3			

Notes:

Bold cells indicate exceedance of MCP standard.
DUP = Field duplicate.
< = Not detected at or above the reported detection limt.
mg/L = Milligrams per liter (parts per million [ppm]).
µg/L = Micrograms per liter, (parts per billion [ppb]).
µS/cm = Microsiemens per centimeter.
mV = Millivolts.
NA = Not analyzed.
NM = Not measured due to presence of permanganate.
NS = No standard.

Table 3
Summary of Interior Injection Point Data
Former Raytheon Facility
Wayland, Massachusetts

Sample I.D.	**MCP Standard**	**IP-38**	**IP-39**	**MW-117**	**MW-118**	**MW-404**	**MW-405S**
Date Sampled	**Method 1**	20-Dec-07	20-Dec-07	20-Dec-07	20-Dec-07	20-Dec-07	20-Dec-07
Comments	**GW 1**						
Volatile Organic Compounds (VOCs) (µg/L)				Dry			NA
Tetrachloroethene	5	< 0.50	< 0.50		< 0.50	< 0.50	
Trichloroethene	5	2.8	**6.4**		**33**	**10**	
cis-1,2-Dichloroethene	70	< 0.50	0.56		< 0.50	< 0.50	
1,1-Dichloroethene	7	< 0.50	0.50		< 0.50	< 0.50	
1,1-Dichloroethane	70	< 0.75	< 0.75		< 0.75	< 0.75	
Chloroform	5	< 0.75	< 0.75		< 0.75	1.4	
Bromodichloromethane	3	< 0.50	< 0.50		< 0.50	< 0.50	
Colorimetry							
Observed Color	NS	Clear	Clear		Lt. Purple	Lt. Purple	Purple
Sodium Permanganate (ppm)	NS	< 1	< 1		126	196	1,070
Geochemical Parameters					NM	NM	NM
Temperature (degrees Celsius)	NS	12.29	12.40				
Specific Conductivity (µS/cm)	NS	372	417				
Dissolved Oxygen (mg/L)	NS	8.01	4.24				
pH (standard units)	NS	7.75	7.48				
ORP (mV)	NS	127.7	133.6				

Notes:

Bold cells indicate exceedance of MCP standard.
DUP = Field duplicate.
< = Not detected at or above the reported detection limt.
mg/L = Milligrams per liter (parts per million [ppm]).
µg/L = Micrograms per liter, (parts per billion [ppb]).
µS/cm = Microsiemens per centimeter.
mV = Millivolts.
NA = Not analyzed.
NM = Not measured due to presence of permanganate.
NS = No standard.

Table 4
MW-33 Area ISCO Injection Summary
Former Raytheon Facility
Wayland, Massachusetts

	Injection Point	**IP-127[1]**		**IP-131[2]**		**IP-201**		**IP-202**		**IP-203[3]**		**IP-204**	
	Potassium Permanganate Concentration	0.74%	1.50%	0.74%	1.50%	0.74%	1.50%	0.74%	1.50%	0.74%	1.50%	0.74%	1.50%
Interval Number	Depth (bgs)												
6	15-18'						284	Point was abandoned due to short-circuiting observed while injecting at IP-201. Permanganate was not applied at this location.					
5	20-23'						567				412		284
4	25-28'	1,166	2,284			184	78				2,078		578
3	30-33'				2,906	1,125							554
2	35-38'					1,140						530	569
1	40-43'					564						559	43
	Total Gallons of Solution:	1,166	2,284		2,906	3,013	929				2,490	1,089	2,028
	Pounds of Permanganate:	72	286		363	185	116				311	67	254
	Total Pounds of Permanganate:		*357*		*363*		*301*				*311*		*320*

Notes:
1 = Injection point screened at 25-35 feet bgs.
2 = Injection point screened at 30-35 feet bgs.
3 = Injection met refusal.

Table 4
MW-33 Area ISCO Injection Summary
Former Raytheon Facility
Wayland, Massachusetts

	Injection Point	**IP-205[3]**		**IP-206**		**IP-207**		**IP-208[3]**		**IP-209**		**IP-210**	
	Potassium Permanganate Concentration	0.74%	1.50%	0.74%	1.50%	0.74%	1.50%	0.74%	1.50%	0.74%	1.50%	0.74%	1.50%
Interval Number	Depth (bgs)												
6	15-18'				636		632				290		289
5	20-23'				916		916		572		570		592
4	25-28'				919		919		566		558		567
3	30-33'				564		914		583		915		556
2	35-38'	388											
1	40-43'	562											
	Total Gallons of Solution:	950			3,035		3,381		1,721		2,333		2,004
	Pounds of Permanganate:	58			379		423		215		292		251
	Total Pounds of Permanganate:		*58*		*379*		*423*		*215*		*292*		*251*

Notes:
1 = Injection point screened at 25-35 feet bgs.
2 = Injection point screened at 30-35 feet bgs.
3 = Injection met refusal.

Table 4
MW-33 Area ISCO Injection Summary
Former Raytheon Facility
Wayland, Massachusetts

	Injection Point	**IP-211**		**IP-212**		**IP-213**[3]		**IP-214**[3]		**Totals**
	Potassium Permanganate Concentration	0.74%	1.50%	0.74%	1.50%	0.74%	1.50%	0.74%	1.50%	
Interval Number	Depth (bgs)									
6	15-18'		604		282		286		142	3,445
5	20-23'		567		568		106		573	6,643
4	25-28'		564		678		567		560	12,266
3	30-33'		574		558		575		565	10,389
2	35-38'									2,627
1	40-43'									1,728
	Total Gallons of Solution:		2,309		2,086		1,534		1,840	*37,098*
	Pounds of Permanganate:		289		261		192		230	
	Total Pounds of Permanganate:		*289*		*261*		*192*		*230*	*4,241*

Notes:
1 = Injection point screened at 25-35 feet bgs.
2 = Injection point screened at 30-35 feet bgs.
3 = Injection met refusal.

Table 5
Vertical Profiling Program Summary
Former Raytheon Facility
Wayland, Massachusetts

		Sample I.D.	**B-600**	**B-601**	**B-601**	**B-601**	**B-601**	**B-601**	**B-601**	**B-601**	**B-601**
		Date Sampled	30-Jan-08	30-Jan-08	30-Jan-08	30-Jan-08	30-Jan-08	30-Jan-08	30-Jan-08	30-Jan-08	30-Jan-08
		Depth (ft)	**40.50**	**18.00**	**23.00**	**41.02**	**46.08**	**51.05**	**56.06**	**61.01**	**66.00**
Parameter	**RCGW-1**	Comments									
Volatile Organic Compounds (µg/L)											
Tetrachloroethene	5		**8.6**	< 2.0	< 2.0	3.2	**7.2**	**17**	**11**	< 2.0	< 2.0
Trichloroethene	5		**85**	**24**	< 2.0	**62**	**54**	**98**	**110**	< 2.0	< 2.0
cis-1,2-Dichloroethene	70		2.3	< 2.0	< 2.0	2.4	5.6	8.2	11	< 2.0	< 2.0
1,1-Dichloroethene	7		3.9	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,1-Dichloroethane	70		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Permanganate (mg/L)											
Sodium permanganate	NS		< 1	< 1	230	< 1	< 1	< 1	< 1	< 1	< 1

Notes:
< = Not detected at or above method detection limit.
µg/L = Micrograms per liter.
mg/L = Milligrams per liter.
NS = No standard.
DUP = Field duplicate.
Bold and shaded cells = Exceedance of RCGW-1 standard.
Empty cells = Not analyzed.
Only detected compounds shown.

Table 5
Vertical Profiling Program Summary
Former Raytheon Facility
Wayland, Massachusetts

		Sample I.D.	**B-602**	**B-602**	**B-602**	**B-602**	**B-602**	**B-602**	**B-602**
		Date Sampled	30-Jan-08	30-Jan-08	30-Jan-08	30-Jan-08	30-Jan-08	30-Jan-08	30-Jan-08
		Depth (ft)	**24.00**	**36.30**	**41.30**	**46.30**	**51.20**	**56.20**	**61.30**
Parameter	**RCGW-1**	Comments							
Volatile Organic Compounds (µg/L)									
Tetrachloroethene	5		< 2.0	**6.9**	**5.5**	< 2.0	< 2.0	< 2.0	< 2.0
Trichloroethene	5		**17**	**150**	**58**	< 2.0	< 2.0	< 2.0	< 2.0
cis-1,2-Dichloroethene	70		< 2.0	2.2	3.7	< 2.0	< 2.0	< 2.0	< 2.0
1,1-Dichloroethene	7		< 2.0	2.2	2.9	< 2.0	< 2.0	< 2.0	< 2.0
1,1-Dichloroethane	70		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Permanganate (mg/L)									
Sodium permanganate	NS		< 1	< 1	< 1	< 1	< 1	< 1	< 1

Notes:
< = Not detected at or above method detection limit.
µg/L = Micrograms per liter.
mg/L = Milligrams per liter.
NS = No standard.
DUP = Field duplicate.
Bold and shaded cells = Exceedance of RCGW-1 standard.
Empty cells = Not analyzed.
Only detected compounds shown.

Table 5
Vertical Profiling Program Summary
Former Raytheon Facility
Wayland, Massachusetts

		Sample I.D.	**B-603**	**B-603**	**B-603**	**B-603**	**B-603**	**B-603**	**B-603**	**B-603**
		Date Sampled	30-Jan-08	30-Jan-08	30-Jan-08	30-Jan-08	31-Jan-08	31-Jan-08	31-Jan-08	31-Jan-08
		Depth (ft)	**30.00**	**34.00**	**41.66**	**46.78**	**52.04**	**52.04**	**57.08**	**62.01**
Parameter	**RCGW-1**	Comments						DUP		
Volatile Organic Compounds (µg/L)										
Tetrachloroethene	5		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Trichloroethene	5		< 2.0	< 2.0	**80**	**5.6**	< 2.0	< 2.0	< 2.0	< 2.0
cis-1,2-Dichloroethene	70		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,1-Dichloroethene	7		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,1-Dichloroethane	70		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Permanganate (mg/L)										
Sodium permanganate	NS		61.7	19.0	< 1	< 1	< 1		< 1	< 1

Notes:
< = Not detected at or above method detection limit.
µg/L = Micrograms per liter.
mg/L = Milligrams per liter.
NS = No standard.
DUP = Field duplicate.
Bold and shaded cells = Exceedance of RCGW-1 standard.
Empty cells = Not analyzed.
Only detected compounds shown.

Table 5
Vertical Profiling Program Summary
Former Raytheon Facility
Wayland, Massachusetts

		Sample I.D.	**B-604**	**B-604**	**B-604**	**B-604**	**B-604**	**B-605**	**B-605**	**B-605**	**B-605**	**B-605**
		Date Sampled	31-Jan-08	31-Jan-08	31-Jan-08	31-Jan-08	31-Jan-08	31-Jan-08	31-Jan-08	31-Jan-08	31-Jan-08	31-Jan-08
		Depth (ft)	**22.20**	**39.60**	**44.20**	**50.00**	**55.00**	**26.20**	**26.20**	**35.40**	**42.80**	**47.50**
Parameter	**RCGW-1**	Comments							DUP			
Volatile Organic Compounds (µg/L)												
Tetrachloroethene	5		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Trichloroethene	5		**12**	**82**	**8.8**	< 2.0	< 2.0	**17**	**19**	**94**	**180**	< 2.0
cis-1,2-Dichloroethene	70		< 2.0	3.4	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	11	11	< 2.0
1,1-Dichloroethene	7		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	3.2	3.7	**31**	3.1	< 2.0
1,1-Dichloroethane	70		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	6.7	< 2.0	< 2.0
Permanganate (mg/L)												
Sodium permanganate	NS		< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1

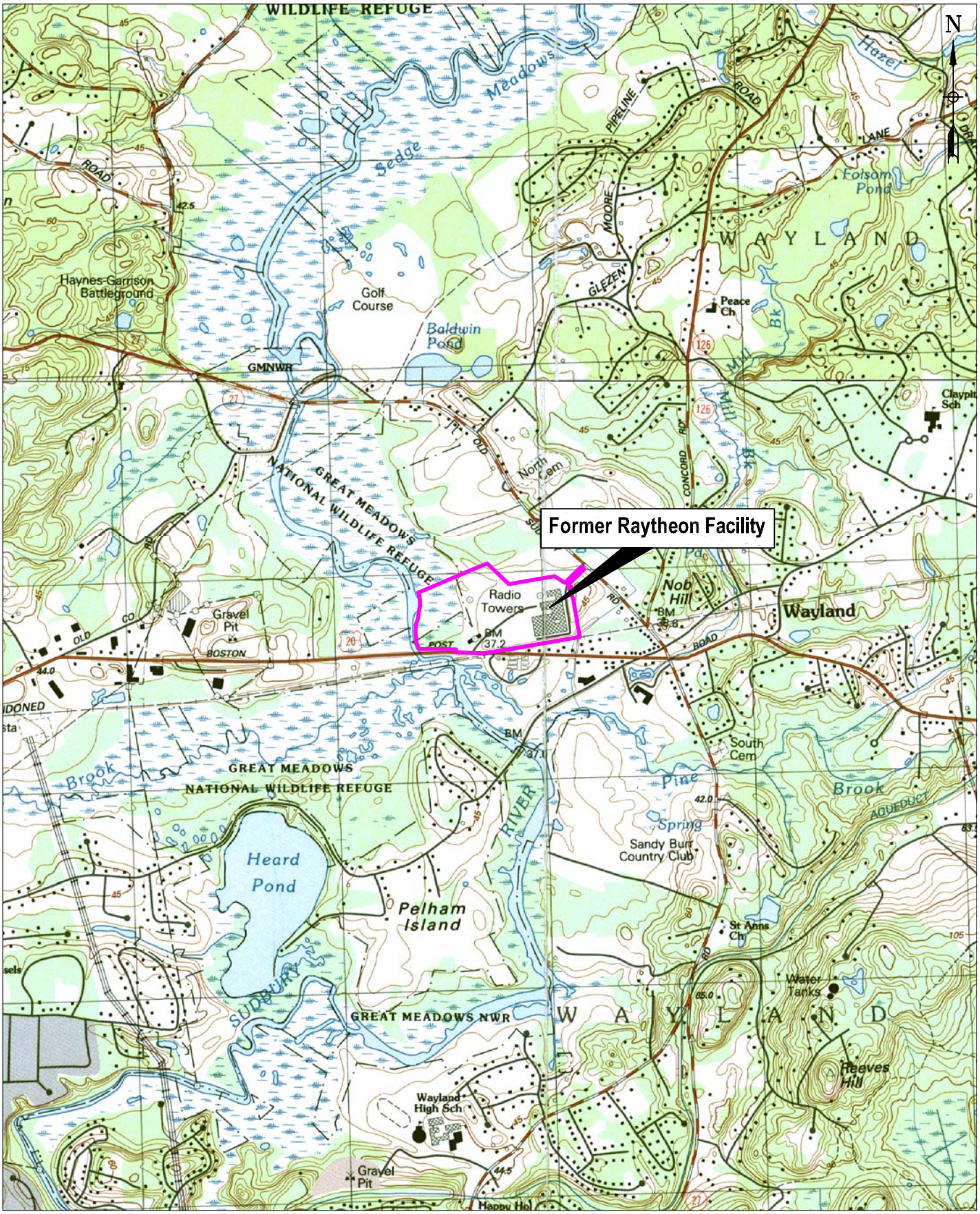
Notes:
< = Not detected at or above method detection limit.
µg/L = Micrograms per liter.
mg/L = Milligrams per liter.
NS = No standard.
DUP = Field duplicate.
Bold and shaded cells = Exceedance of RCGW-1 standard.
Empty cells = Not analyzed.
Only detected compounds shown.

Table 5
Vertical Profiling Program Summary
Former Raytheon Facility
Wayland, Massachusetts

		Sample I.D.	**B-606**	**B-606**	**B-606**	**B-606**	**B-607**	**B-607**	**B-607**
		Date Sampled	01-Feb-08	01-Feb-08	01-Feb-08	01-Feb-08	01-Feb-08	01-Feb-08	01-Feb-08
		Depth (ft)	**20.20**	**29.00**	**29.00**	**32.00**	**22.20**	**28.40**	**28.40**
Parameter	**RCGW-1**	Comments			DUP				DUP
Volatile Organic Compounds (µg/L)									
Tetrachloroethene	5		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Trichloroethene	5		**40**	**76**	**68**	**15**	< 2.0	< 2.0	< 2.0
cis-1,2-Dichloroethene	70		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,1-Dichloroethene	7		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,1-Dichloroethane	70		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Permanganate (mg/L)									
Sodium permanganate	NS		< 1	< 1		< 1	814	2,890	

Notes:
< = Not detected at or above method detection limit.
µg/L = Micrograms per liter.
mg/L = Milligrams per liter.
NS = No standard.
DUP = Field duplicate.
Bold and shaded cells = Exceedance of RCGW-1 standard.
Empty cells = Not analyzed.
Only detected compounds shown.

Figures



Legend

Former Raytheon Facility Property Boundary

Scale = 1:25,000

Figure 1 - Site Locus Map
Former Raytheon Facility
and Former Hamlen Parcel - Wayland, MA

ERM

R:\Raytheon\Wayland - 1922\Raytheon ROS\ROS Locus.dwg (05/24/2005 - 11:50am Boston)

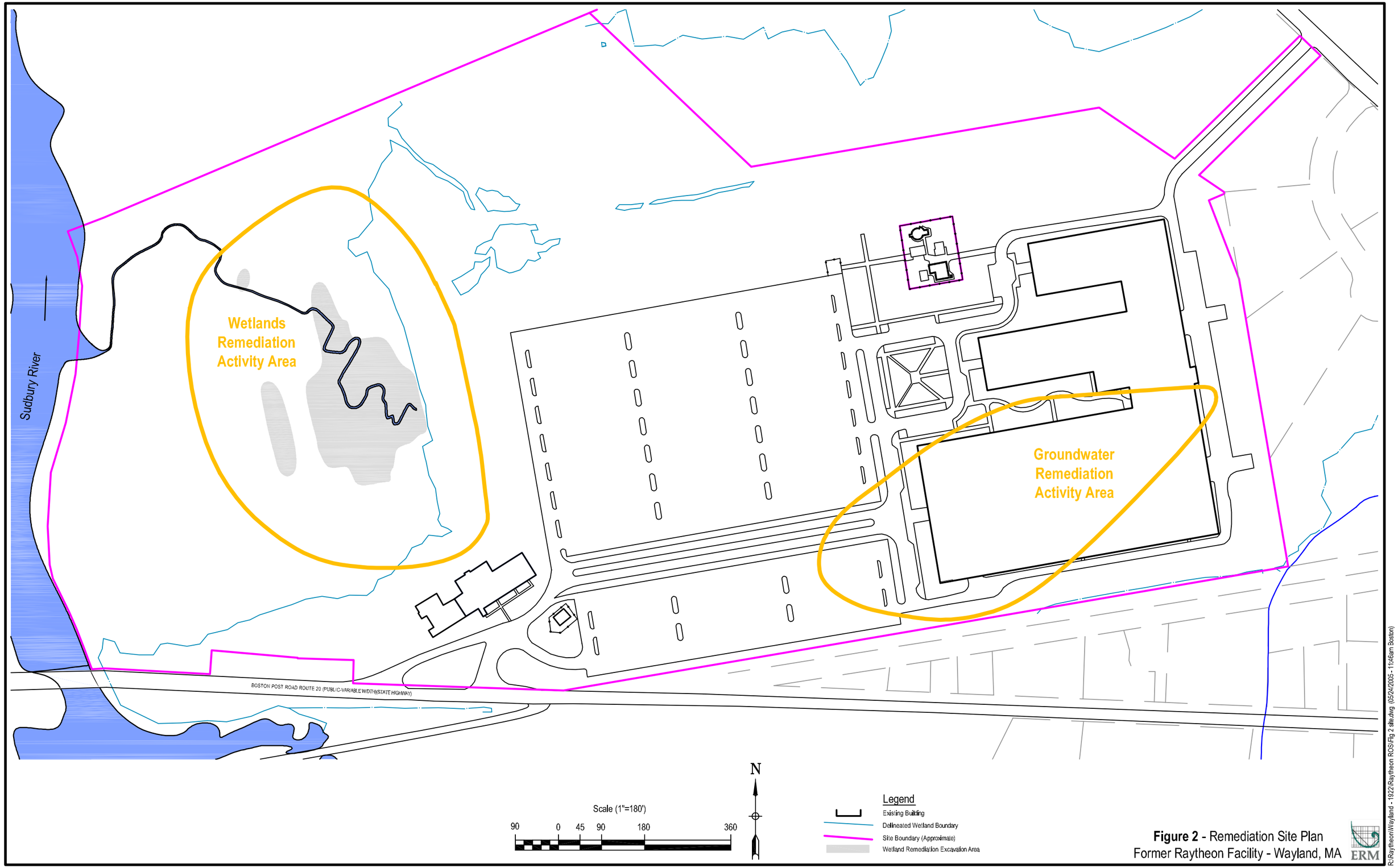


Figure 2 - Remediation Site Plan
Former Raytheon Facility - Wayland, MA

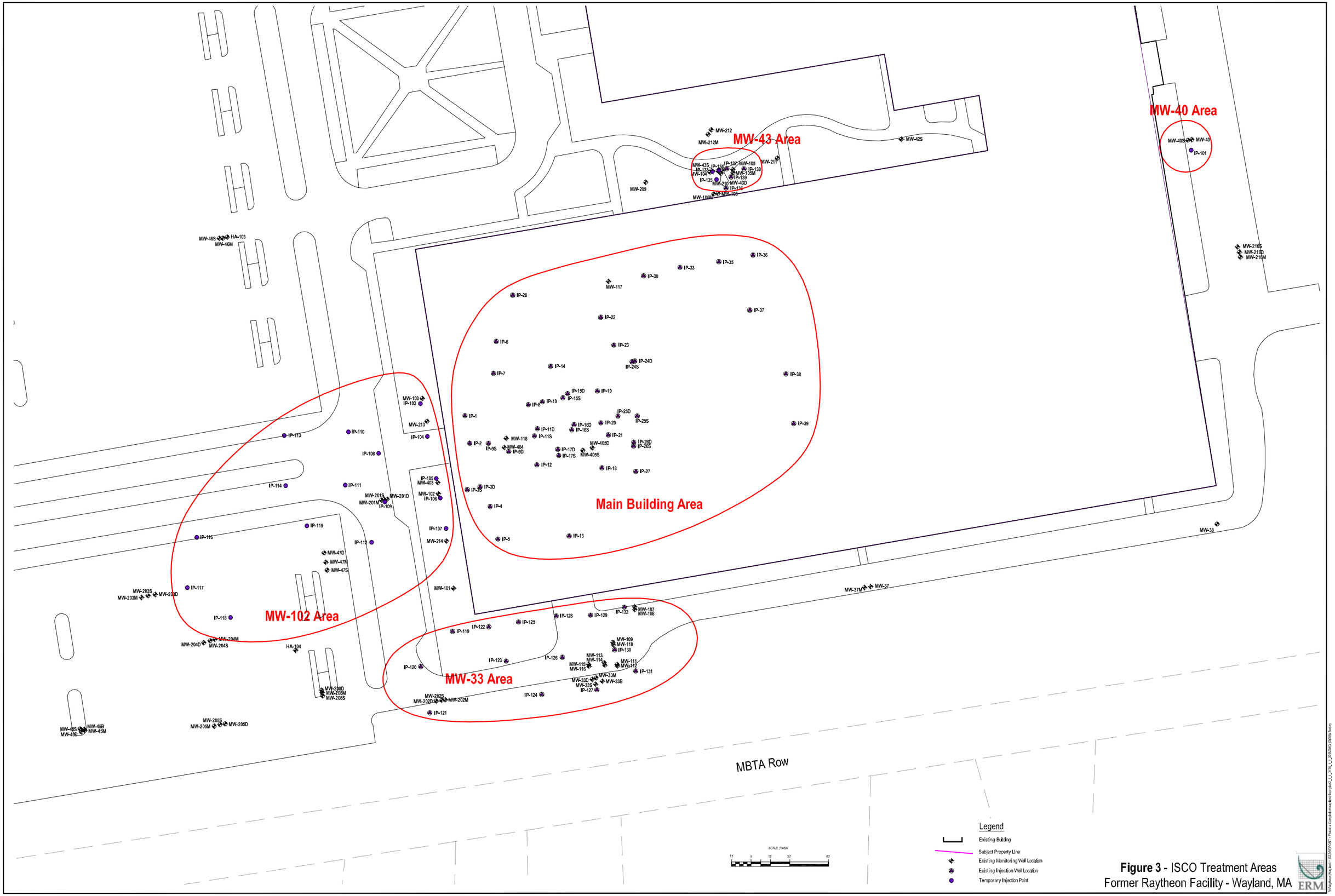
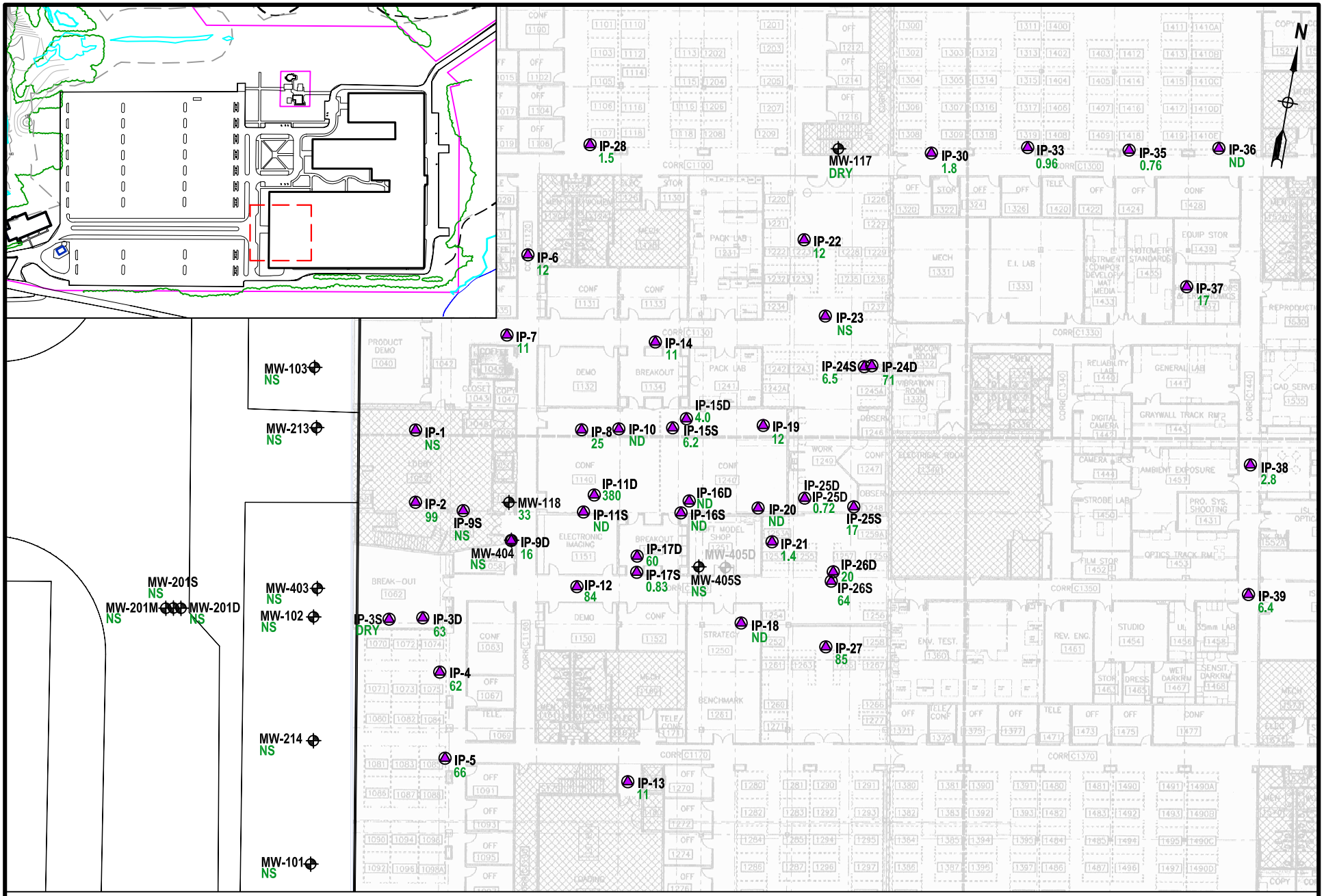


Figure 3 - ISCO Treatment Areas
Former Raytheon Facility - Wayland, MA



Legend

- Existing Monitoring Well Location
- Decommissioned Monitoring Well Location
- Existing Injection Well Location
- 84 December 2007TCE Concentration (µg/L)
- ND Below Detection Limit
- NS Not Sampled
- Dry Well Dry

Scale (1"=30')

15' 0 15' 30' 60'

Figure 4 - December 2007 TCE Concentrations
Former Raytheon Facility - Wayland, MA

ERM

R:\Raytheon\Wayland - 1922\Report-ROS (May 2008)\CAD\Figure 4 - Interior Injection Points with TCE Detections.dwg (05/30/2008 - 3:36pm Boston)

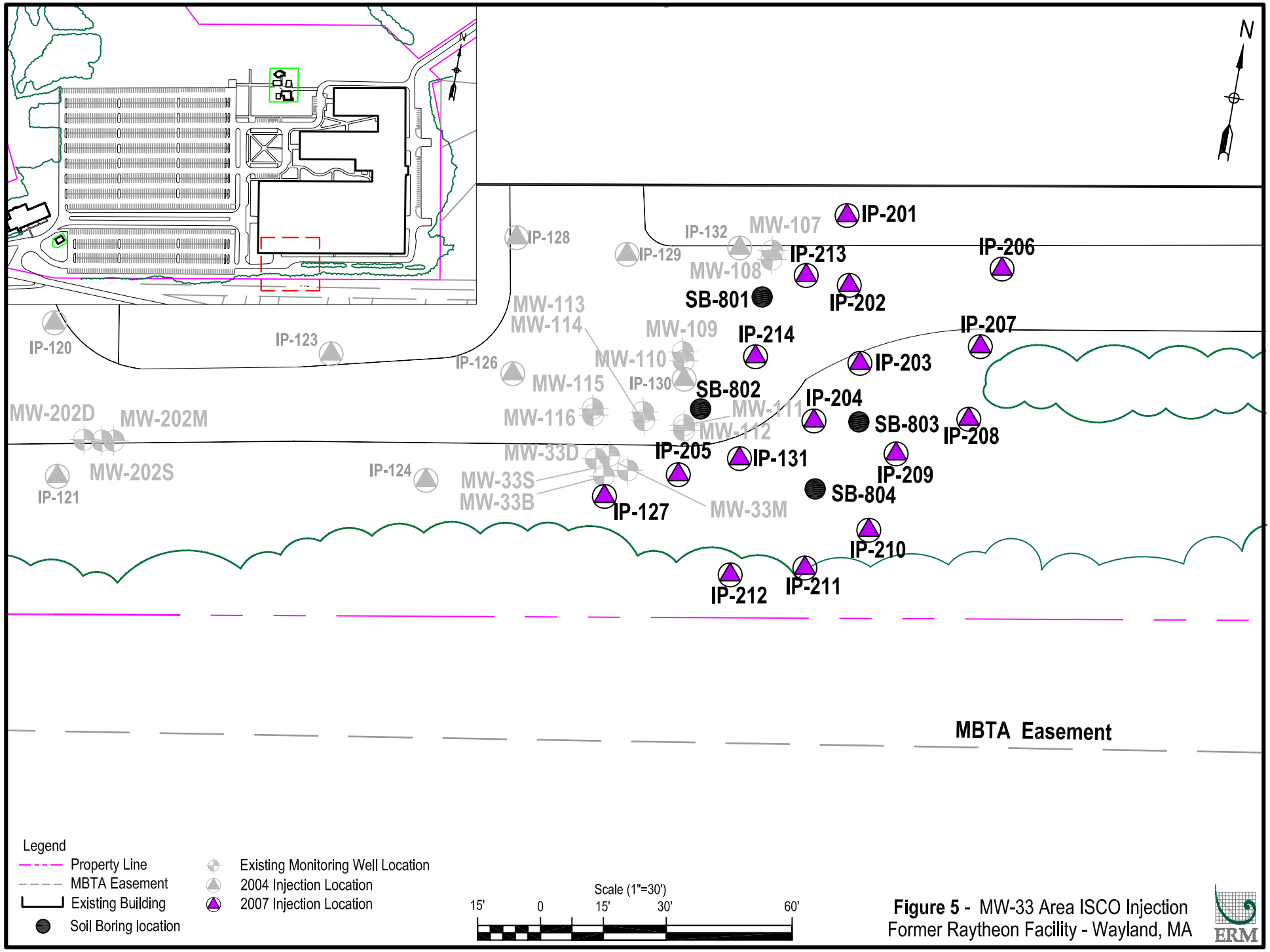


Figure 5 - MW-33 Area ISCO Injection
Former Raytheon Facility - Wayland, MA

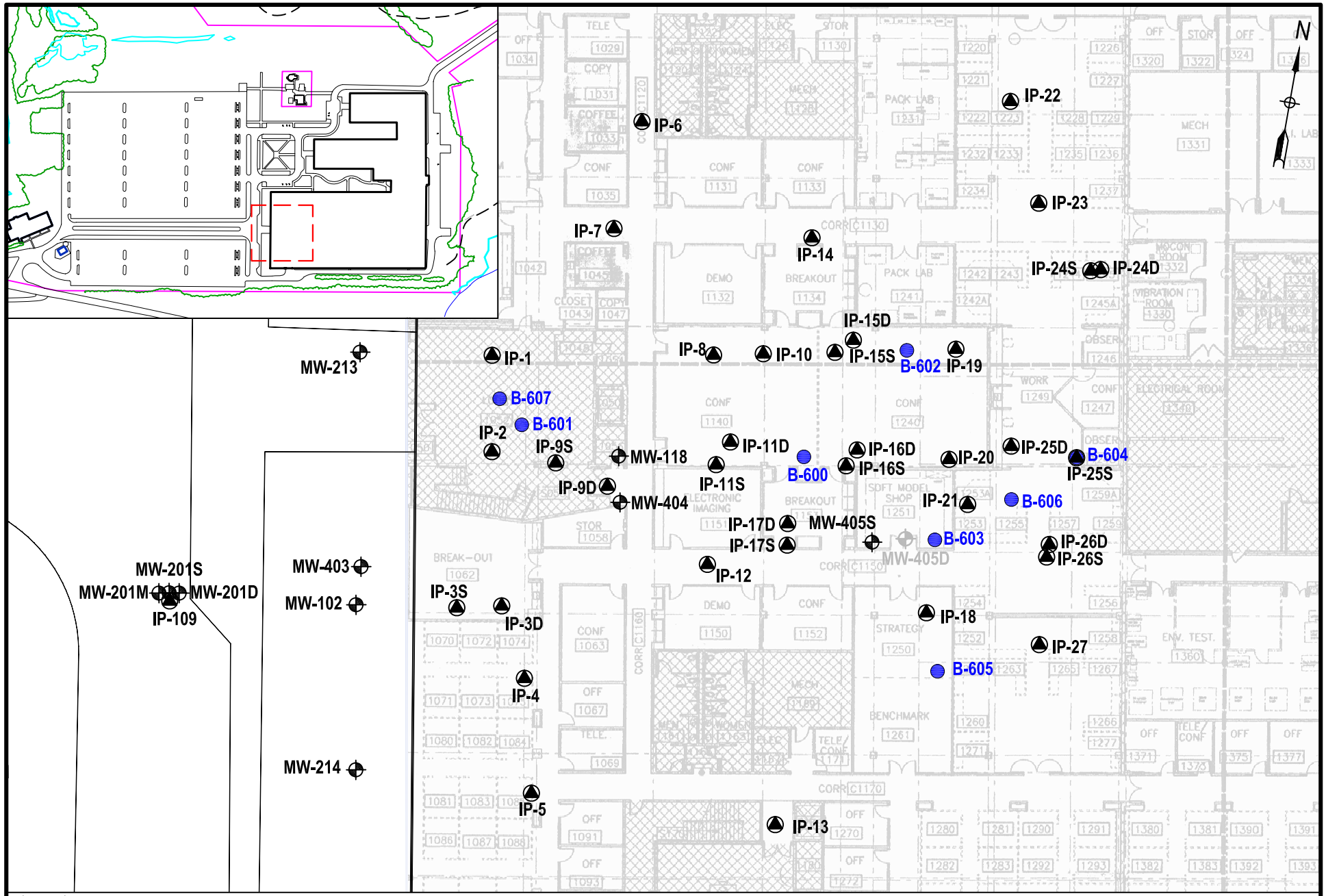


Figure 6 - 2008 Vertical Profiler Locations
Former Raytheon Facility - Wayland, MA

ERM

R:\Raytheon\Wayland - 1922\Report-ROS (May 2008)\CAD\Figure 6- 2008 Vertical Profiler Locations.dwg (05/30/2008 - 3:49pm Boston)

Appendix A
BWSC Forms

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC108

COMPREHENSIVE RESPONSE ACTION TRANSMITTAL FORM & PHASE I COMPLETION STATEMENT

Pursuant to 310 CMR 40.0484 (Subpart D) and 40.0800 (Subpart H)

Release Tracking Number
3 - 13302

A. SITE LOCATION:

1. Site Name: RAYTHEON COMPANY
2. Street Address: 430 BOSTON POST RD
3. City/Town: WAYLAND 4. ZIP Code: 01778-0000
5. UTM Coordinates: a. UTM N: 4692920 b. UTM E: 305006

☑ 6. Check here if a Tier Classification Submittal has been provided to DEP for this disposal site.

☐ a. Tier IA ☑ b. Tier IB ☐ c. Tier IC ☐ d. Tier II

7. If applicable, provide the Permit Number: W045278

B. THIS FORM IS BEING USED TO: (check all that apply)

☐ 1. Submit a **Phase I Completion Statement**, pursuant to 310 CMR 40.0484.

☐ 2. Submit a **Revised Phase I Completion Statement**, pursuant to 310 CMR 40.0484.

☐ 3. Submit a **Phase II Scope of Work**, pursuant to 310 CMR 40.0834.

☐ 4. Submit an **interim Phase II Report**. This report does not satisfy the response action deadline requirements in 310 CMR 40.0500.

☐ 5. Submit a **final Phase II Report and Completion Statement**, pursuant to 310 CMR 40.0836.

☐ 6. Submit a **Revised Phase II Report and Completion Statement**, pursuant to 310 CMR 40.0836.

☐ 7. Submit a **Phase III Remedial Action Plan and Completion Statement**, pursuant to 310 CMR 40.0862.

☐ 8. Submit a **Revised Phase III Remedial Action Plan and Completion Statement**, pursuant to 310 CMR 40.0862.

☐ 9. Submit a **Phase IV Remedy Implementation Plan**, pursuant to 310 CMR 40.0874.

☐ 10. Submit a **Modified Phase IV Remedy Implementation Plan**, pursuant to 310 CMR 40.0874.

☐ 11. Submit an **As-Built Construction Report**, pursuant to 310 CMR 40.0875.

☐ 12. Submit a **Phase IV Status Report**, pursuant to 310 CMR 40.0877.

☐ 13. Submit a **Phase IV Completion Statement**, pursuant to 310 CMR 40.0878 and 40.0879.

Specify the outcome of Phase IV activities: (check one)

☐ a. Phase V Operation, Maintenance or Monitoring of the Comprehensive Remedial Action is necessary to achieve a Response Action Outcome.

☐ b. The requirements of a Class A Response Action Outcome have been met. No additional Operation, Maintenance or Monitoring is necessary to ensure the integrity of the Response Action Outcome. A completed Response Action Outcome Statement and Report (BWSC104) will be submitted to DEP.

☐ c. The requirements of a Class C Response Action Outcome have been met. No additional Operation, Maintenance or Monitoring is necessary to ensure the integrity of the Response Action Outcome. A completed Response Action Outcome Statement and Report (BWSC104) will be submitted to DEP.

☐ d. The requirements of a Class C Response Action Outcome have been met. Further Operation, Maintenance or Monitoring of the remedial action is necessary to ensure that conditions are maintained and that further progress is made toward a Permanent Solution. A completed Response Action Outcome Statement and Report (BWSC104) will be submitted to DEP.

(All sections of this transmittal form must be filled out unless otherwise noted above)

B. THIS FORM IS BEING USED TO (cont.): (check all that apply)

☐ 14. Submit a **Revised Phase IV Completion Statement**, pursuant to 310 CMR 40.0878 and 40.0879.

☐ 15. Submit a **Phase V Status Report**, pursuant to 310 CMR 40.0892.

☑ 16. Submit a **Remedial Monitoring Report**. (This report can only be submitted through eDEP.)

a. Type of Report: (check one) ☐ i. Initial Report ☑ ii. Interim Report ☐ iii. Final Report

b. Frequency of Submittal: (check all that apply)

☐ i. A Remedial Monitoring Report(s) submitted monthly to address an Imminent Hazard.

☐ ii. A Remedial Monitoring Report(s) submitted monthly to address a Condition of Substantial Release Migration.

☑ iii. A Remedial Monitoring Report(s) submitted concurrent with a Status Report.

c. Status of Site: (check one) ☐ i. Phase V ☑ ii. Remedy Operation Status ☐ iii. Class C RAO

d. Number of Remedial Systems and/or Monitoring Programs: 1

A separate BWSC108A, CRA Remedial Monitoring Report, must be filled out for each Remedial System and/or Monitoring Program addressed by this transmittal form.

☐ 17. Submit a **Remedy Operation Status**, pursuant to 310 CMR 40.0893.

☑ 18. Submit a **Status Report to maintain a Remedy Operation Status**, pursuant to 310 CMR 40.0893(2).

☐ 19. Submit a **Modification of a Remedy Operation Status**, pursuant to 310 CMR 40.0893(5).

☐ 20. Submit a **Termination of a Remedy Operation Status**, pursuant to 310 CMR 40.0893(6).

☐ 21. Submit a **Phase V Completion Statement**, pursuant to 310 CMR 40.0894.

Specify the outcome of Phase V activities: (check one)

☐ a. The requirements of a Class A Response Action Outcome have been met. No additional Operation, Maintenance or Monitoring is necessary to ensure the integrity of the Response Action Outcome. A completed Response Action Outcome Statement (BWSC104) will be submitted to DEP.

☐ b. The requirements of a Class C Response Action Outcome have been met. No additional Operation, Maintenance or Monitoring is necessary to ensure the integrity of the Response Action Outcome. A completed Response Action Outcome Statement and Report (BWSC104) will be submitted to DEP.

☐ c. The requirements of a Class C Response Action Outcome have been met. Further Operation, Maintenance or Monitoring of the remedial action is necessary to ensure that conditions are maintained and/or that further progress is made toward a Permanent Solution. A completed Response Action Outcome Statement and Report (BWSC104) will be submitted to DEP.

☐ 22. Submit a **Revised Phase V Completion Statement**, pursuant to 310 CMR 40.0894.

☐ 23. Submit a **Post-Class C Response Action Outcome Status Report**, pursuant to 310 CMR 40.0898.

(All sections of this transmittal form must be filled out unless otherwise noted above)

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC108

COMPREHENSIVE RESPONSE ACTION TRANSMITTAL FORM & PHASE I COMPLETION STATEMENT

Release Tracking Number
3 - 13302

Pursuant to 310 CMR 40.0484 (Subpart D) and 40.0800 (Subpart H)

C. LSP SIGNATURE AND STAMP:

I attest under the pains and penalties of perjury that I have personally examined and am familiar with this transmittal form, including any and all documents accompanying this submittal. In my professional opinion and judgment based upon application of (i) the standard of care in 309 CMR 4.02(1), (ii) the applicable provisions of 309 CMR 4.02(2) and (3), and 309 CMR 4.03(2), and (iii) the provisions of 309 CMR 4.03(3), to the best of my knowledge, information and belief,

> *if Section B indicates that a* ***Phase I, Phase II, Phase III, Phase IV or Phase V Completion Statement*** *is being submitted*, the response action(s) that is (are) the subject of this submittal (i) has (have) been developed and implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and (iii) comply(ies) with the identified provisions of all orders, permits, and approvals identified in this submittal;

> *if Section B indicates that a* ***Phase II Scope of Work*** *or a* ***Phase IV Remedy Implementation Plan*** *is being submitted*, the response action(s) that is (are) the subject of this submittal (i) has (have) been developed in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and (iii) comply(ies) with the identified provisions of all orders, permits, and approvals identified in this submittal;

> *if Section B indicates that an* ***As-Built Construction Report****,* ***a Remedy Operation Status****,a* ***Phase IV, Phase V or Post-Class C RAO Status Report,*** *a* ***Status Report to Maintain a Remedy Operation Status*** *and/or a* ***Remedial Monitoring Report*** *is being submitted*, the response action(s) that is (are) the subject of this submittal (i) is (are) being implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and (iii) comply(ies) with the identified provisions of all orders, permits, and approvals identified in this submittal.

I am aware that significant penalties may result, including, but not limited to, possible fines and imprisonment, if I submit information which I know to be false, inaccurate or materially incomplete.

1. LSP #: 2196
2. First Name: JOHN C
3. Last Name: DROBINSKI
4. Telephone: (617) 267-8377
5. Ext.:
6. FAX:
7. Signature:
8. Date: (mm/dd/yyyy)
9. LSP Stamp:

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC108

Release Tracking Number

3 - 13302

COMPREHENSIVE RESPONSE ACTION TRANSMITTAL FORM & PHASE I COMPLETION STATEMENT

Pursuant to 310 CMR 40.0484 (Subpart D) and 40.0800 (Subpart H)

D. PERSON UNDERTAKING RESPONSE ACTIONS:

1. Check all that apply: ☐ a. change in contact name ☐ b. change of address ☐ c. change in the person undertaking response actions

2. Name of Organization: RAYTHEON COMPANY

3. Contact First Name: LOUIS 4. Last Name: BURKHARDT

5. Street: 880 TECHNOLOGY PARK DR MS 2-21 6. Title:

7. City/Town: BILLERICA 8. State: MA 9. ZIP Code: 01821-0000

10. Telephone: (978) 436-8238 11. Ext.: 12. FAX: (978) 436-8581

E. RELATIONSHIP TO SITE OF PERSON UNDERTAKING RESPONSE ACTIONS:

☑ 1. RP or PRP ☐ a. Owner ☑ b. Operator ☐ c. Generator ☐ d. Transporter

☐ e. Other RP or PRP Specify:

☐ 2. Fiduciary, Secured Lender or Municipality with Exempt Status (as defined by M.G.L. c. 21E, s. 2)

☐ 3. Agency or Public Utility on a Right of Way (as defined by M.G.L. c. 21E, s. 5(j))

☐ 4. Any Other Person Undertaking Response Actions Specify Relationship:

F. REQUIRED ATTACHMENT AND SUBMITTALS:

☐ 1. Check here if the Response Action(s) on which this opinion is based, if any, are (were) subject to any order(s), permit(s) and/or approval(s) issued by DEP or EPA. If the box is checked, you MUST attach a statement identifying the applicable provisions thereof.

☐ 2. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of the submittal of any Phase Reports to DEP.

☐ 3. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of the availability of a Phase III Remedial Action Plan.

☐ 4. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of the availability of a Phase IV Remedy Implementation Plan.

☐ 5. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of any field work involving the implementation of a Phase IV Remedial Action.

☐ 6. If submitting a Modification of a Remedy Operation Status, check here to certify that a statement detailing the compliance history, as per 310 CMR 40.0893(5), for the person making this submittal is attached.

☐ 7. If submitting a Modification of a Remedy Operation Status, check here to certify that written consent of the person who submitted the Remedy Operation Status submittal, as per 310 CMR 40.0893(5), is attached.

☐ 8. Check here if any non-updatable information provided on this form is incorrect, e.g. Site Name. Send corrections to the DEP Regional Office.

☑ 9. Check here to certify that the LSP Opinion containing the material facts, data, and other information is attached.

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC108

COMPREHENSIVE RESPONSE ACTION TRANSMITTAL FORM & PHASE I COMPLETION STATEMENT

Pursuant to 310 CMR 40.0484 (Subpart D) and 40.0800 (Subpart H)

Release Tracking Number

3 - 13302

G. CERTIFICATION OF PERSON UNDERTAKING RESPONSE ACTIONS:

1. I, **LOUIS BURKHARDT**, attest under the pains and penalties of perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this transmittal form, (ii) that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained in this submittal is, to the best of my knowledge and belief, true, accurate and complete, and (iii) that I am fully authorized to make this attestation on behalf of the entity legally responsible for this submittal. I/the person or entity on whose behalf this submittal is made am/is aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

2. By: _____ 3. Title: _____
Signature

4. For: **RAYTHEON COMPANY** 5. Date: _____
(Name of person or entity recorded in Section D) (mm/dd/yyyy)

☐ 6. Check here if the address of the person providing certification is different from address recorded in Section D.

7. Street: _____

8. City/Town: _____ 9. State: _____ 10. ZIP Code: _____

11. Telephone: _____ 12. Ext.: _____ 13. FAX: _____

YOU ARE SUBJECT TO AN ANNUAL COMPLIANCE ASSURANCE FEE OF UP TO $10,000 PER BILLABLE YEAR FOR THIS DISPOSAL SITE. YOU MUST LEGIBLY COMPLETE ALL RELEVANT SECTIONS OF THIS FORM OR DEP MAY RETURN THE DOCUMENT AS INCOMPLETE. IF YOU SUBMIT AN INCOMPLETE FORM, YOU MAY BE PENALIZED FOR MISSING A REQUIRED DEADLINE.

Date Stamp (DEP USE ONLY:)

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC108 A

CRA REMEDIAL MONITORING REPORT

Pursuant to 310 CMR 40.0800 (SUBPART H)

Remedial System or Monitoring Program: 1 of: 1

Release Tracking Number: 3 - 13302

A. DESCRIPTION OF ACTIVE REMEDIAL SYSTEM OR ACTIVE REMEDIAL MONITORING PROGRAM:

1. Type of Active Remedial System or Active Remedial Monitoring Program: (check all that apply)

☐ a. Active Remedial System: (check all that apply)

☐ i. NAPL Recovery ☐ ii. Soil Vapor Extraction/Bioventing ☐ iii. Vapor-phase Carbon Adsorption
☐ iv. Groundwater Recovery ☐ v. Dual/Multi-phase Extraction ☐ vi. Aqueous-phase Carbon Adsorption
☐ vii. Air Stripping ☐ viii. Sparging/Biosparging ☐ ix. Cat/Thermal Oxidation
☐ x. Other Describe: _____

☑ b. Application of Remedial Additives: (check all that apply)

☐ i. To the Subsurface ☑ ii. To Groundwater (Injection) ☐ iii. To the Surface

☐ c. Active Remedial Monitoring Program Without the Application of Remedial Additives: (check all that apply; Sections C, D and E are not required; attach supporting information, data, maps and/or sketches needed by checking Section F5)

☐ i. Reactive Wall ☐ ii. Natural Attenuation ☐ iii. Other Describe: _____

2. Mode of Operation: (check one)

☐ a. Continuous ☐ b. Intermittent ☐ c. Pulsed ☑ d. One-time Event Only ☐ e. Other: _____

3. System Effluent/Discharge: (check all that apply)

☐ a. Sanitary Sewer/POTW
☐ b. Groundwater Re-infiltration/Re-injection: (check one) ☐ i. Downgradient ☐ ii. Upgradient
☐ c. Vapor-phase Discharge to Ambient Air: (check one) ☐ i. Off-gas Controls ☐ ii. No Off-gas Controls
☐ d. Drinking Water Supply
☐ e. Surface Water (including Storm Drains)
☑ f. Other Describe: NO EFFLUENT

B. MONITORING FREQUENCY:

1. Reporting period that is the subject of this submittal: From: 12/01/2007 (mm/dd/yyyy) To: 05/01/2008 (mm/dd/yyyy)

2. Number of monitoring events during the reporting period: (check one)

☐ a. System Startup: (if applicable)

☐ i. Days 1, 3, 6, and then weekly thereafter, for the first month.
☐ ii. Other Describe: _____

☑ b. Post-system Startup (after first month) or Monitoring Program:

☐ i. Monthly
☑ ii. Quarterly
☐ iii. Other Describe: _____

☑ 3. Check here to certify that the number of required monitoring events were conducted during the reporting period.

C. EFFLUENT/DISCHARGE REGULATION: (check one to indicate how the effluent/discharge limits were established)

☐ 1. NPDES: (check one) ☐ a. Remediation General Permit ☐ b. Individual Permit
☐ c. Emergency Exclusion Effective Date of Permit: _____ (mm/dd/yyyy)

☐ 2. MCP Performance Standard MCP Citations(s): _____

☐ 3. DEP Approval Letter Date of Letter: _____ (mm/dd/yyyy)

☑ 4. Other Describe: NO EFFLUENT

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC108 A

CRA REMEDIAL MONITORING REPORT

Pursuant to 310 CMR 40.0800 (SUBPART H)

Remedial System or Monitoring Program: 1 of: 1

Release Tracking Number
3 - 13302

D. WASTEWATER TREATMENT PLANT OPERATOR: (check one)

☐ 1. Required due to Remedial Wastewater Treatment Plant in place for more than 30 days.

a. Name: _____ b. Grade: _____

c. License No.: _____ d. License Exp. Date: _____ (mm/dd/yyyy)

☐ 2. Not Required

☑ 3. Not Applicable

E. STATUS OF ACTIVE REMEDIAL SYSTEM OR ACTIVE REMEDIAL MONITORING PROGRAM DURING REPORTING PERIOD: (check all that apply)

☐ 1. The Active Remedial System was functional one or more days during the Reporting Period.

a. Days System was Fully Functional: _____ b. GW Recovered (gals): _____

c. NAPL Recovered (gals): _____ d. GW Discharged (gals): _____

e. Avg. Soil Gas Recovery Rate (scfm): _____ f. Avg. Sparging Rate (scfm) : _____

☑ 2. Remedial Additives: (check all that apply)

☐ a. No Remedial Additives applied during the Reporting Period.

☐ b. Enhanced Bioremediation Additives applied: (total quantity applied at the site for the current reporting period)

☐ i. Nitrogen/Phosphorus:

Name of Additive	Date	Quantity	Units

☐ ii. Peroxides:

Name of Additive	Date	Quantity	Units

☐ iii. Microorganisms:

Name of Additive	Date	Quantity	Units

☐ iv. Other:

Name of Additive	Date	Quantity	Units

☑ c. Chemical oxidation/reduction additives applied: (total quantity applied at the site for the current reporting period)

☑ i. Permanganates:

Name of Additive	Date	Quantity	Units
POTASSIUM PERMANGA	05/09/2008	16,400.0	LBS
SODIUM PERMANGANAT	04/21/2008	9,000.00	LBS

☐ ii. Peroxides:

Name of Additive	Date	Quantity	Units

☐ iii. Persulfates:

Name of Additive	Date	Quantity	Units

☐ iv. Other:

Name of Additive	Date	Quantity	Units

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC108A

CRA REMEDIAL MONITORING REPORT

Pursuant to 310 CMR 40.0800 (SUBPART H)

Release Tracking Number: 3 - 13302

Remedial System or Monitoring Program: 1 of: 1

E. STATUS OF ACTIVE REMEDIAL SYSTEM OR ACTIVE REMEDIAL MONITORING PROGRAM DURING REPORTING PERIOD: (cont.) (check all that apply)

☐ d. Other additives applied: (total quantity applied at the site for the current reporting period)

Name of Additive	Date	Quantity	Units

Name of Additive	Date	Quantity	Units

☐ e. Check here if any additional Remedial Additives were applied. Attach list of additional additives and include Name of Additive, Date Applied, Quantity Applied and Units (in gals. or lbs.)

F. SHUTDOWNS OF ACTIVE REMEDIAL SYSTEM OR ACTIVE REMEDIAL MONITORING PROGRAM: (check all that apply)

☐ 1. The Active Remedial System had unscheduled shutdowns on one or more occasions during the Reporting Period.

a. Number of Unscheduled Shutdowns: b. Total Number of Days of Unscheduled Shutdowns:

c. Reason(s) for Unscheduled Shutdowns:

☐ 2. The Active Remedial System had scheduled shutdowns on one or more occasions during the Reporting Period.

a. Number of Scheduled Shutdowns: b. Total Number of Days of Scheduled Shutdowns:

c. Reason(s) for Scheduled Shutdowns:

☑ 3. The Active Remedial System or Active Remedial Monitoring Program was permanently shutdown/discontinued during the Reporting Period.

a. Date of Final System or Monitoring Program Shutdown: 05/09/2008 (mm/dd/yyyy)

☐ b. No Further Effluent Discharges.

☑ c. No Further Application of Remedial Additives planned; sufficient monitoring completed to demonstrate compliance with 310 CMR 40.0046.

☐ d. No Further Submittals Planned.

☐ e. Other: Describe:

G. SUMMARY STATEMENTS: (check all that apply for the current reporting period)

☑ 1. All Active Remedial System checks and effluent analyses required by the approved plan and/or permit were performed when applicable.

☑ 2. There were no significant problems or prolonged (>25% of reporting period) unscheduled shutdowns of the Active Remedial System.

☑ 3. The Active Remedial System or Active Remedial Monitoring Program operated in conformance with the MCP, and all applicable approval conditions and/or permits.

4. Indicate any Operational Problems or Notes:

☑ 5. Check here if additional/supporting Information, data, maps, and/or sketches are attached to the form.

Appendix B
Laboratory Analytical Reports

ALPHA WOODS HOLE LABS

ANALYTICAL REPORT

Lab Number:	L0719065
Client:	ERM-New England 399 Boylston Street 6th Floor Boston, MA 02116
ATTN:	Jason Flattery
Project Name:	ISCO SAMPLING
Project Number:	0061882.01
Report Date:	12/31/07

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (200305), NJ (MA935), RI (LAO00065), ME (2006012), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: ISCO SAMPLING
Project Number: 0061882.01

Lab Number: L0719065
Report Date: 12/31/07

Alpha Sample ID	Client ID	Sample Location
L0719065-01	IP-17D-20071219-01	RAYTHEON, WAYLAND
L0719065-02	IP-14-20071219-01	RAYTHEON, WAYLAND
L0719065-03	IP-25D-20071219-01	RAYTHEON, WAYLAND
L0719065-04	IP-17S-20071219-01	RAYTHEON, WAYLAND
L0719065-05	IP-7-20071219-01	RAYTHEON, WAYLAND
L0719065-06	IP-12-20071219-01	RAYTHEON, WAYLAND
L0719065-07	IP-11S-20071219-01	RAYTHEON, WAYLAND
L0719065-08	IP-20-20071219-01	RAYTHEON, WAYLAND
L0719065-09	IP-16D-20071219-01	RAYTHEON, WAYLAND
L0719065-10	IP-11D-20071219-01	RAYTHEON, WAYLAND
L0719065-11	IP-10-20071219-01	RAYTHEON, WAYLAND
L0719065-12	IP-8S-20071219-01	RAYTHEON, WAYLAND
L0719065-13	IP-18-20071219-01	RAYTHEON, WAYLAND
L0719065-14	IP-15D-20071219-01	RAYTHEON, WAYLAND
L0719065-15	IP-26D-20071219-01	RAYTHEON, WAYLAND
L0719065-16	IP-19-20071219-01	RAYTHEON, WAYLAND
L0719065-17	IP-16S-20071219-01	RAYTHEON, WAYLAND
L0719065-18	IP-25S-20071219-01	RAYTHEON, WAYLAND
L0719065-19	IP-15S-20071219-01	RAYTHEON, WAYLAND
L0719065-20	IP-24S-20071219-01	RAYTHEON, WAYLAND
L0719065-21	IP-22-20071219-01	RAYTHEON, WAYLAND
L0719065-22	IP-23-20071219-01	RAYTHEON, WAYLAND
L0719065-23	IP-21-20071219-01	RAYTHEON, WAYLAND
L0719065-24	IP-6-20071219-01	RAYTHEON, WAYLAND
L0719065-25	IP-24D-20071219-01	RAYTHEON, WAYLAND
L0719065-26	IP-26S-20071219-01	RAYTHEON, WAYLAND

Project Name:	ISCO SAMPLING	**Lab Number:**	L0719065
Project Number:	0061882.01	**Report Date:**	12/31/07

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A, B, C & D is required for "Presumptive Certainty" status		
A	Were all samples received by the laboratory in a condition consistent with those described on their Chain-of-Custody documentation for the data set?	YES
B	Were all QA/QC procedures required for the specified analytical methods(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	YES
C	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	YES
D	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	N/A

A response to questions E and F is required for "Presumptive Certainty" status		
E	Were all QC performance standards and recommendations for the specified method(s) achieved?	NO
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	NO

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

Project Name: ISCO SAMPLING **Lab Number:** L0719065
Project Number: 0061882.01 **Report Date:** 12/31/07

Case Narrative

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

MCP Related Narratives

Sample Receipt/Log-in

Per client request, analysis of L0719065-22 was cancelled due to the remaining presence of permanganate in the sample.

Volatile Organics

L0719065-01 through -21 and -23 through 26 were processed against a curve that utilized a quadratic fit for Chloroethane.

L0719065-01, -03, -04, -06 through -11, -13, -14, -16 through -19, 21, -23 and -26 pH of the vials submitted are greater than 2.

L0719065-06 and -10 have elevated detection limits due to the dilutions required by the elevated concentrations of target compounds in the samples.

In reference to question E:

The WG307066-1/2 LCS/LCSD % recoveries for Chloroethane and Acetone, a difficult analyte, are above the individual acceptance criteria for the compounds, but within the overall method allowances.

The WG307189-1/2 LCS/LCSD % recoveries for Acetone and the LCSD % recovery for Chloroethane are above the individual acceptance criteria for the compounds, but within the overall method allowances.

The WG307304-1/2 LCS/LCSD % recoveries for Chloroethane are above the individual acceptance criteria for the compound, but within the overall method allowances.

In reference to question F:

At the client's request, all submitted samples were not analyzed for the full MCP list of compounds specified for the Method.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative Date: 12/31/07

ORGANICS

VOLATILES

Project Name: ISCO SAMPLING **Lab Number:** L0719065

Project Number: 0061882.01 **Report Date:** 12/31/07

SAMPLE RESULTS

Lab ID:	L0719065-01	Date Collected:	12/19/07 12:03
Client ID:	IP-17D-20071219-01	Date Received:	12/21/07
Sample Location:	RAYTHEON, WAYLAND	Field Prep:	Not Specified
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	12/27/07 19:06		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	0.93		ug/l	0.75	1
Chloroform	1.4		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	60		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	1.1		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: ISCO SAMPLING **Lab Number:** L0719065

Project Number: 0061882.01 **Report Date:** 12/31/07

SAMPLE RESULTS

Lab ID:	L0719065-01	Date Collected:	12/19/07 12:03
Client ID:	IP-17D-20071219-01	Date Received:	12/21/07
Sample Location:	RAYTHEON, WAYLAND	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	103		70-130

Project Name: ISCO SAMPLING **Lab Number:** L0719065

Project Number: 0061882.01 **Report Date:** 12/31/07

SAMPLE RESULTS

Lab ID:	L0719065-02	Date Collected:	12/19/07 12:00
Client ID:	IP-14-20071219-01	Date Received:	12/21/07
Sample Location:	RAYTHEON, WAYLAND	Field Prep:	Not Specified
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	12/27/07 19:45		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	2.6		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	1.1		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	11		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: ISCO SAMPLING **Lab Number:** L0719065

Project Number: 0061882.01 **Report Date:** 12/31/07

SAMPLE RESULTS

Lab ID:	L0719065-02	Date Collected:	12/19/07 12:00
Client ID:	IP-14-20071219-01	Date Received:	12/21/07
Sample Location:	RAYTHEON, WAYLAND	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	107		70-130

Project Name: ISCO SAMPLING **Lab Number:** L0719065

Project Number: 0061882.01 **Report Date:** 12/31/07

SAMPLE RESULTS

Lab ID:	L0719065-03	Date Collected:	12/19/07 15:00
Client ID:	IP-25D-20071219-01	Date Received:	12/21/07
Sample Location:	RAYTHEON, WAYLAND	Field Prep:	Not Specified
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	12/27/07 20:24		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	0.85		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	0.72		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: ISCO SAMPLING **Lab Number:** L0719065

Project Number: 0061882.01 **Report Date:** 12/31/07

SAMPLE RESULTS

Lab ID:	L0719065-03	Date Collected:	12/19/07 15:00
Client ID:	IP-25D-20071219-01	Date Received:	12/21/07
Sample Location:	RAYTHEON, WAYLAND	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	107		70-130

Project Name: ISCO SAMPLING **Lab Number:** L0719065

Project Number: 0061882.01 **Report Date:** 12/31/07

SAMPLE RESULTS

Lab ID:	L0719065-04	Date Collected:	12/19/07 12:10
Client ID:	IP-17S-20071219-01	Date Received:	12/21/07
Sample Location:	RAYTHEON, WAYLAND	Field Prep:	Not Specified
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	12/27/07 21:03		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	0.83		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: ISCO SAMPLING **Lab Number:** L0719065

Project Number: 0061882.01 **Report Date:** 12/31/07

SAMPLE RESULTS

Lab ID:	L0719065-04	Date Collected:	12/19/07 12:10
Client ID:	IP-17S-20071219-01	Date Received:	12/21/07
Sample Location:	RAYTHEON, WAYLAND	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	106		70-130

Project Name: ISCO SAMPLING **Lab Number:** L0719065

Project Number: 0061882.01 **Report Date:** 12/31/07

SAMPLE RESULTS

Lab ID:	L0719065-05	Date Collected:	12/19/07 12:30
Client ID:	IP-7-20071219-01	Date Received:	12/21/07
Sample Location:	RAYTHEON, WAYLAND	Field Prep:	Not Specified
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	12/27/07 21:42		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	2.6		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	1.4		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	1.4		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	11		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: ISCO SAMPLING **Lab Number:** L0719065

Project Number: 0061882.01 **Report Date:** 12/31/07

SAMPLE RESULTS

Lab ID:	L0719065-05	Date Collected:	12/19/07 12:30
Client ID:	IP-7-20071219-01	Date Received:	12/21/07
Sample Location:	RAYTHEON, WAYLAND	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	107		70-130

Project Name: ISCO SAMPLING **Lab Number:** L0719065

Project Number: 0061882.01 **Report Date:** 12/31/07

SAMPLE RESULTS

Lab ID:	L0719065-06	Date Collected:	12/19/07 12:50
Client ID:	IP-12-20071219-01	Date Received:	12/21/07
Sample Location:	RAYTHEON, WAYLAND	Field Prep:	Not Specified
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	12/28/07 17:10		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	10	2
1,1-Dichloroethane	ND		ug/l	1.5	2
Chloroform	1.7		ug/l	1.5	2
Carbon tetrachloride	ND		ug/l	1.0	2
1,2-Dichloropropane	ND		ug/l	3.5	2
Dibromochloromethane	ND		ug/l	1.0	2
1,1,2-Trichloroethane	ND		ug/l	1.5	2
Tetrachloroethene	ND		ug/l	1.0	2
Chlorobenzene	ND		ug/l	1.0	2
1,2-Dichloroethane	ND		ug/l	1.0	2
1,1,1-Trichloroethane	ND		ug/l	1.0	2
Bromodichloromethane	ND		ug/l	1.0	2
trans-1,3-Dichloropropene	ND		ug/l	1.0	2
cis-1,3-Dichloropropene	ND		ug/l	1.0	2
Bromoform	ND		ug/l	4.0	2
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	2
Chloromethane	ND		ug/l	5.0	2
Vinyl chloride	ND		ug/l	2.0	2
Chloroethane	ND		ug/l	2.0	2
1,1-Dichloroethene	ND		ug/l	1.0	2
trans-1,2-Dichloroethene	ND		ug/l	1.5	2
Trichloroethene	84		ug/l	1.0	2
1,2-Dichlorobenzene	ND		ug/l	5.0	2
1,3-Dichlorobenzene	ND		ug/l	5.0	2
1,4-Dichlorobenzene	ND		ug/l	5.0	2
cis-1,2-Dichloroethene	1.0		ug/l	1.0	2
Dichlorodifluoromethane	ND		ug/l	10	2
2,2-Dichloropropane	ND		ug/l	5.0	2
1,2-Dibromoethane	ND		ug/l	4.0	2
1,3-Dichloropropane	ND		ug/l	5.0	2

Project Name: ISCO SAMPLING **Lab Number:** L0719065

Project Number: 0061882.01 **Report Date:** 12/31/07

SAMPLE RESULTS

Lab ID:	L0719065-06	Date Collected:	12/19/07 12:50
Client ID:	IP-12-20071219-01	Date Received:	12/21/07
Sample Location:	RAYTHEON, WAYLAND	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	2
o-Chlorotoluene	ND		ug/l	5.0	2
p-Chlorotoluene	ND		ug/l	5.0	2
Hexachlorobutadiene	ND		ug/l	1.2	2
1,2,4-Trichlorobenzene	ND		ug/l	5.0	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	110		70-130

Project Name: ISCO SAMPLING **Lab Number:** L0719065

Project Number: 0061882.01 **Report Date:** 12/31/07

SAMPLE RESULTS

Lab ID:	L0719065-07	Date Collected:	12/19/07 10:00
Client ID:	IP-11S-20071219-01	Date Received:	12/21/07
Sample Location:	RAYTHEON, WAYLAND	Field Prep:	Not Specified
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	12/28/07 17:49		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	ND		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: ISCO SAMPLING **Lab Number:** L0719065

Project Number: 0061882.01 **Report Date:** 12/31/07

SAMPLE RESULTS

Lab ID:	L0719065-07	Date Collected:	12/19/07 10:00
Client ID:	IP-11S-20071219-01	Date Received:	12/21/07
Sample Location:	RAYTHEON, WAYLAND	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	108		70-130

Project Name: ISCO SAMPLING **Lab Number:** L0719065

Project Number: 0061882.01 **Report Date:** 12/31/07

SAMPLE RESULTS

Lab ID:	L0719065-08	Date Collected:	12/19/07 10:05
Client ID:	IP-20-20071219-01	Date Received:	12/21/07
Sample Location:	RAYTHEON, WAYLAND	Field Prep:	Not Specified
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	12/28/07 18:28		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	0.85		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	ND		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: ISCO SAMPLING **Lab Number:** L0719065

Project Number: 0061882.01 **Report Date:** 12/31/07

SAMPLE RESULTS

Lab ID:	L0719065-08	Date Collected:	12/19/07 10:05
Client ID:	IP-20-20071219-01	Date Received:	12/21/07
Sample Location:	RAYTHEON, WAYLAND	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	110		70-130

Project Name: ISCO SAMPLING **Lab Number:** L0719065

Project Number: 0061882.01 **Report Date:** 12/31/07

SAMPLE RESULTS

Lab ID:	L0719065-09	Date Collected:	12/19/07 10:55
Client ID:	IP-16D-20071219-01	Date Received:	12/21/07
Sample Location:	RAYTHEON, WAYLAND	Field Prep:	Not Specified
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	12/28/07 19:07		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	0.95		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	ND		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: ISCO SAMPLING **Lab Number:** L0719065

Project Number: 0061882.01 **Report Date:** 12/31/07

SAMPLE RESULTS

Lab ID:	L0719065-09	Date Collected:	12/19/07 10:55
Client ID:	IP-16D-20071219-01	Date Received:	12/21/07
Sample Location:	RAYTHEON, WAYLAND	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	114		70-130

Project Name: ISCO SAMPLING **Lab Number:** L0719065

Project Number: 0061882.01 **Report Date:** 12/31/07

SAMPLE RESULTS

Lab ID:	L0719065-10	Date Collected:	12/19/07 10:40
Client ID:	IP-11D-20071219-01	Date Received:	12/21/07
Sample Location:	RAYTHEON, WAYLAND	Field Prep:	Not Specified
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	12/28/07 19:46		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	50	10
1,1-Dichloroethane	ND		ug/l	7.5	10
Chloroform	ND		ug/l	7.5	10
Carbon tetrachloride	ND		ug/l	5.0	10
1,2-Dichloropropane	ND		ug/l	18	10
Dibromochloromethane	ND		ug/l	5.0	10
1,1,2-Trichloroethane	ND		ug/l	7.5	10
Tetrachloroethene	5.4		ug/l	5.0	10
Chlorobenzene	ND		ug/l	5.0	10
1,2-Dichloroethane	ND		ug/l	5.0	10
1,1,1-Trichloroethane	ND		ug/l	5.0	10
Bromodichloromethane	ND		ug/l	5.0	10
trans-1,3-Dichloropropene	ND		ug/l	5.0	10
cis-1,3-Dichloropropene	ND		ug/l	5.0	10
Bromoform	ND		ug/l	20	10
1,1,2,2-Tetrachloroethane	ND		ug/l	5.0	10
Chloromethane	ND		ug/l	25	10
Vinyl chloride	ND		ug/l	10	10
Chloroethane	ND		ug/l	10	10
1,1-Dichloroethene	ND		ug/l	5.0	10
trans-1,2-Dichloroethene	ND		ug/l	7.5	10
Trichloroethene	380		ug/l	5.0	10
1,2-Dichlorobenzene	ND		ug/l	25	10
1,3-Dichlorobenzene	ND		ug/l	25	10
1,4-Dichlorobenzene	ND		ug/l	25	10
cis-1,2-Dichloroethene	13		ug/l	5.0	10
Dichlorodifluoromethane	ND		ug/l	50	10
2,2-Dichloropropane	ND		ug/l	25	10
1,2-Dibromoethane	ND		ug/l	20	10
1,3-Dichloropropane	ND		ug/l	25	10

Project Name: ISCO SAMPLING **Lab Number:** L0719065

Project Number: 0061882.01 **Report Date:** 12/31/07

SAMPLE RESULTS

Lab ID:	L0719065-10	Date Collected:	12/19/07 10:40
Client ID:	IP-11D-20071219-01	Date Received:	12/21/07
Sample Location:	RAYTHEON, WAYLAND	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	5.0	10
o-Chlorotoluene	ND		ug/l	25	10
p-Chlorotoluene	ND		ug/l	25	10
Hexachlorobutadiene	ND		ug/l	6.0	10
1,2,4-Trichlorobenzene	ND		ug/l	25	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	111		70-130

Project Name: ISCO SAMPLING **Lab Number:** L0719065

Project Number: 0061882.01 **Report Date:** 12/31/07

SAMPLE RESULTS

Lab ID:	L0719065-11	Date Collected:	12/19/07 11:40
Client ID:	IP-10-20071219-01	Date Received:	12/21/07
Sample Location:	RAYTHEON, WAYLAND	Field Prep:	Not Specified
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	12/28/07 20:25		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	1.1		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	ND		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: ISCO SAMPLING **Lab Number:** L0719065

Project Number: 0061882.01 **Report Date:** 12/31/07

SAMPLE RESULTS

Lab ID:	L0719065-11	Date Collected:	12/19/07 11:40
Client ID:	IP-10-20071219-01	Date Received:	12/21/07
Sample Location:	RAYTHEON, WAYLAND	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	112		70-130

Project Name: ISCO SAMPLING **Lab Number:** L0719065

Project Number: 0061882.01 **Report Date:** 12/31/07

SAMPLE RESULTS

Lab ID:	L0719065-12	Date Collected:	12/19/07 11:15
Client ID:	IP-8S-20071219-01	Date Received:	12/21/07
Sample Location:	RAYTHEON, WAYLAND	Field Prep:	Not Specified
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	12/28/07 21:05		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	0.80		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	1.2		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	25		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: ISCO SAMPLING **Lab Number:** L0719065

Project Number: 0061882.01 **Report Date:** 12/31/07

SAMPLE RESULTS

Lab ID:	L0719065-12	Date Collected:	12/19/07 11:15
Client ID:	IP-8S-20071219-01	Date Received:	12/21/07
Sample Location:	RAYTHEON, WAYLAND	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	112		70-130

Project Name: ISCO SAMPLING **Lab Number:** L0719065

Project Number: 0061882.01 **Report Date:** 12/31/07

SAMPLE RESULTS

Lab ID:	L0719065-13	Date Collected:	12/19/07 13:10
Client ID:	IP-18-20071219-01	Date Received:	12/21/07
Sample Location:	RAYTHEON, WAYLAND	Field Prep:	Not Specified
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	12/28/07 12:17		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	1.2		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	ND		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: ISCO SAMPLING **Lab Number:** L0719065

Project Number: 0061882.01 **Report Date:** 12/31/07

SAMPLE RESULTS

Lab ID:	L0719065-13	Date Collected:	12/19/07 13:10
Client ID:	IP-18-20071219-01	Date Received:	12/21/07
Sample Location:	RAYTHEON, WAYLAND	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	106		70-130

Project Name: ISCO SAMPLING **Lab Number:** L0719065

Project Number: 0061882.01 **Report Date:** 12/31/07

SAMPLE RESULTS

Lab ID:	L0719065-14	Date Collected:	12/19/07 11:35
Client ID:	IP-15D-20071219-01	Date Received:	12/21/07
Sample Location:	RAYTHEON, WAYLAND	Field Prep:	Not Specified
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	12/28/07 12:55		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	1.5		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	4.0		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: ISCO SAMPLING **Lab Number:** L0719065

Project Number: 0061882.01 **Report Date:** 12/31/07

SAMPLE RESULTS

Lab ID:	L0719065-14	Date Collected:	12/19/07 11:35
Client ID:	IP-15D-20071219-01	Date Received:	12/21/07
Sample Location:	RAYTHEON, WAYLAND	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	109		70-130

Project Name: ISCO SAMPLING **Lab Number:** L0719065

Project Number: 0061882.01 **Report Date:** 12/31/07

SAMPLE RESULTS

Lab ID:	L0719065-15	Date Collected:	12/19/07 14:00
Client ID:	IP-26D-20071219-01	Date Received:	12/21/07
Sample Location:	RAYTHEON, WAYLAND	Field Prep:	Not Specified
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	12/28/07 13:34		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	1.2		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	20		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	1.1		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: ISCO SAMPLING **Lab Number:** L0719065

Project Number: 0061882.01 **Report Date:** 12/31/07

SAMPLE RESULTS

Lab ID:	L0719065-15	Date Collected:	12/19/07 14:00
Client ID:	IP-26D-20071219-01	Date Received:	12/21/07
Sample Location:	RAYTHEON, WAYLAND	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	105		70-130

Project Name: ISCO SAMPLING **Lab Number:** L0719065

Project Number: 0061882.01 **Report Date:** 12/31/07

SAMPLE RESULTS

Lab ID:	L0719065-16	Date Collected:	12/19/07 10:00
Client ID:	IP-19-20071219-01	Date Received:	12/21/07
Sample Location:	RAYTHEON, WAYLAND	Field Prep:	Not Specified
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	12/28/07 14:13		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	0.92		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	0.58		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	12		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: ISCO SAMPLING **Lab Number:** L0719065

Project Number: 0061882.01 **Report Date:** 12/31/07

SAMPLE RESULTS

Lab ID:	L0719065-16	Date Collected:	12/19/07 10:00
Client ID:	IP-19-20071219-01	Date Received:	12/21/07
Sample Location:	RAYTHEON, WAYLAND	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	109		70-130

Project Name: ISCO SAMPLING **Lab Number:** L0719065

Project Number: 0061882.01 **Report Date:** 12/31/07

SAMPLE RESULTS

Lab ID:	L0719065-17	Date Collected:	12/19/07 10:50
Client ID:	IP-16S-20071219-01	Date Received:	12/21/07
Sample Location:	RAYTHEON, WAYLAND	Field Prep:	Not Specified
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	12/28/07 14:53		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	1.1		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	ND		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: ISCO SAMPLING **Lab Number:** L0719065

Project Number: 0061882.01 **Report Date:** 12/31/07

SAMPLE RESULTS

Lab ID:	L0719065-17	Date Collected:	12/19/07 10:50
Client ID:	IP-16S-20071219-01	Date Received:	12/21/07
Sample Location:	RAYTHEON, WAYLAND	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	110		70-130

Project Name: ISCO SAMPLING **Lab Number:** L0719065

Project Number: 0061882.01 **Report Date:** 12/31/07

SAMPLE RESULTS

Lab ID:	L0719065-18	Date Collected:	12/19/07 15:05
Client ID:	IP-25S-20071219-01	Date Received:	12/21/07
Sample Location:	RAYTHEON, WAYLAND	Field Prep:	Not Specified
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	12/28/07 15:32		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	17		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: ISCO SAMPLING **Lab Number:** L0719065

Project Number: 0061882.01 **Report Date:** 12/31/07

SAMPLE RESULTS

Lab ID:	L0719065-18	Date Collected:	12/19/07 15:05
Client ID:	IP-25S-20071219-01	Date Received:	12/21/07
Sample Location:	RAYTHEON, WAYLAND	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	109		70-130

Project Name: ISCO SAMPLING **Lab Number:** L0719065

Project Number: 0061882.01 **Report Date:** 12/31/07

SAMPLE RESULTS

Lab ID:	L0719065-19	Date Collected:	12/19/07 11:30
Client ID:	IP-15S-20071219-01	Date Received:	12/21/07
Sample Location:	RAYTHEON, WAYLAND	Field Prep:	Not Specified
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	12/28/07 16:11		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	1.8		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	6.2		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: ISCO SAMPLING **Lab Number:** L0719065

Project Number: 0061882.01 **Report Date:** 12/31/07

SAMPLE RESULTS

Lab ID:	L0719065-19	Date Collected:	12/19/07 11:30
Client ID:	IP-15S-20071219-01	Date Received:	12/21/07
Sample Location:	RAYTHEON, WAYLAND	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	110		70-130

Project Name: ISCO SAMPLING **Lab Number:** L0719065

Project Number: 0061882.01 **Report Date:** 12/31/07

SAMPLE RESULTS

Lab ID:	L0719065-20	Date Collected:	12/19/07 15:20
Client ID:	IP-24S-20071219-01	Date Received:	12/21/07
Sample Location:	RAYTHEON, WAYLAND	Field Prep:	Not Specified
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	12/28/07 16:50		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	6.5		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: ISCO SAMPLING **Lab Number:** L0719065

Project Number: 0061882.01 **Report Date:** 12/31/07

SAMPLE RESULTS

Lab ID:	L0719065-20	Date Collected:	12/19/07 15:20
Client ID:	IP-24S-20071219-01	Date Received:	12/21/07
Sample Location:	RAYTHEON, WAYLAND	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	109		70-130

Project Name: ISCO SAMPLING **Lab Number:** L0719065

Project Number: 0061882.01 **Report Date:** 12/31/07

SAMPLE RESULTS

Lab ID:	L0719065-21	Date Collected:	12/19/07 14:30
Client ID:	IP-22-20071219-01	Date Received:	12/21/07
Sample Location:	RAYTHEON, WAYLAND	Field Prep:	Not Specified
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	12/28/07 17:29		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	3.1		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	1.2		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	12		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	0.81		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: ISCO SAMPLING **Lab Number:** L0719065

Project Number: 0061882.01 **Report Date:** 12/31/07

SAMPLE RESULTS

Lab ID:	L0719065-21	Date Collected:	12/19/07 14:30
Client ID:	IP-22-20071219-01	Date Received:	12/21/07
Sample Location:	RAYTHEON, WAYLAND	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	111		70-130

Project Name: ISCO SAMPLING **Lab Number:** L0719065

Project Number: 0061882.01 **Report Date:** 12/31/07

SAMPLE RESULTS

Lab ID:	L0719065-23	Date Collected:	12/19/07 14:45
Client ID:	IP-21-20071219-01	Date Received:	12/21/07
Sample Location:	RAYTHEON, WAYLAND	Field Prep:	Not Specified
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	12/28/07 18:47		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	1.4		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: ISCO SAMPLING **Lab Number:** L0719065

Project Number: 0061882.01 **Report Date:** 12/31/07

SAMPLE RESULTS

Lab ID:	L0719065-23	Date Collected:	12/19/07 14:45
Client ID:	IP-21-20071219-01	Date Received:	12/21/07
Sample Location:	RAYTHEON, WAYLAND	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	107		70-130

Project Name: ISCO SAMPLING **Lab Number:** L0719065

Project Number: 0061882.01 **Report Date:** 12/31/07

SAMPLE RESULTS

Lab ID:	L0719065-24	Date Collected:	12/19/07 13:00
Client ID:	IP-6-20071219-01	Date Received:	12/21/07
Sample Location:	RAYTHEON, WAYLAND	Field Prep:	Not Specified
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	12/28/07 19:26		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	2.5		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	1.4		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	12		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	0.67		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: ISCO SAMPLING **Lab Number:** L0719065

Project Number: 0061882.01 **Report Date:** 12/31/07

SAMPLE RESULTS

Lab ID:	L0719065-24	Date Collected:	12/19/07 13:00
Client ID:	IP-6-20071219-01	Date Received:	12/21/07
Sample Location:	RAYTHEON, WAYLAND	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	109		70-130

Project Name: ISCO SAMPLING **Lab Number:** L0719065

Project Number: 0061882.01 **Report Date:** 12/31/07

SAMPLE RESULTS

Lab ID:	L0719065-25	Date Collected:	12/19/07 15:45
Client ID:	IP-24D-20071219-01	Date Received:	12/21/07
Sample Location:	RAYTHEON, WAYLAND	Field Prep:	Not Specified
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	12/28/07 20:06		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	6.1		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	4.1		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	71		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	3.8		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: ISCO SAMPLING **Lab Number:** L0719065

Project Number: 0061882.01 **Report Date:** 12/31/07

SAMPLE RESULTS

Lab ID:	L0719065-25	Date Collected:	12/19/07 15:45
Client ID:	IP-24D-20071219-01	Date Received:	12/21/07
Sample Location:	RAYTHEON, WAYLAND	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	113		70-130

Project Name: ISCO SAMPLING **Lab Number:** L0719065

Project Number: 0061882.01 **Report Date:** 12/31/07

SAMPLE RESULTS

Lab ID:	L0719065-26	Date Collected:	12/19/07 13:50
Client ID:	IP-26S-20071219-01	Date Received:	12/21/07
Sample Location:	RAYTHEON, WAYLAND	Field Prep:	Not Specified
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	12/29/07 17:36		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	0.68		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	64		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: ISCO SAMPLING **Lab Number:** L0719065

Project Number: 0061882.01 **Report Date:** 12/31/07

SAMPLE RESULTS

Lab ID:	L0719065-26	Date Collected:	12/19/07 13:50
Client ID:	IP-26S-20071219-01	Date Received:	12/21/07
Sample Location:	RAYTHEON, WAYLAND	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	108		70-130

Project Name: ISCO SAMPLING **Lab Number:** L0719065

Project Number: 0061882.01 **Report Date:** 12/31/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 12/27/07 11:56
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01-05 Batch: WG307066-3				
Methylene chloride	ND		ug/l	5.0
1,1-Dichloroethane	ND		ug/l	0.75
Chloroform	ND		ug/l	0.75
Carbon tetrachloride	ND		ug/l	0.50
1,2-Dichloropropane	ND		ug/l	1.8
Dibromochloromethane	ND		ug/l	0.50
1,1,2-Trichloroethane	ND		ug/l	0.75
Tetrachloroethene	ND		ug/l	0.50
Chlorobenzene	ND		ug/l	0.50
Trichlorofluoromethane	ND		ug/l	2.5
1,2-Dichloroethane	ND		ug/l	0.50
1,1,1-Trichloroethane	ND		ug/l	0.50
Bromodichloromethane	ND		ug/l	0.50
trans-1,3-Dichloropropene	ND		ug/l	0.50
cis-1,3-Dichloropropene	ND		ug/l	0.50
1,1-Dichloropropene	ND		ug/l	2.5
Bromoform	ND		ug/l	2.0
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50
Benzene	ND		ug/l	0.50
Toluene	ND		ug/l	0.75
Ethylbenzene	ND		ug/l	0.50
Chloromethane	ND		ug/l	2.5
Bromomethane	ND		ug/l	1.0
Vinyl chloride	ND		ug/l	1.0
Chloroethane	ND		ug/l	1.0
1,1-Dichloroethene	ND		ug/l	0.50
trans-1,2-Dichloroethene	ND		ug/l	0.75
Trichloroethene	ND		ug/l	0.50
1,2-Dichlorobenzene	ND		ug/l	2.5
1,3-Dichlorobenzene	ND		ug/l	2.5
1,4-Dichlorobenzene	ND		ug/l	2.5

Project Name: ISCO SAMPLING **Lab Number:** L0719065

Project Number: 0061882.01 **Report Date:** 12/31/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 12/27/07 11:56
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01-05 Batch: WG307066-3				
Methyl tert butyl ether	ND		ug/l	1.0
p/m-Xylene	ND		ug/l	1.0
o-Xylene	ND		ug/l	1.0
cis-1,2-Dichloroethene	ND		ug/l	0.50
Dibromomethane	ND		ug/l	5.0
1,2,3-Trichloropropane	ND		ug/l	5.0
Styrene	ND		ug/l	1.0
Dichlorodifluoromethane	ND		ug/l	5.0
Acetone	ND		ug/l	5.0
Carbon disulfide	ND		ug/l	5.0
2-Butanone	ND		ug/l	5.0
4-Methyl-2-pentanone	ND		ug/l	5.0
2-Hexanone	ND		ug/l	5.0
Bromochloromethane	ND		ug/l	2.5
Tetrahydrofuran	ND		ug/l	10
2,2-Dichloropropane	ND		ug/l	2.5
1,2-Dibromoethane	ND		ug/l	2.0
1,3-Dichloropropane	ND		ug/l	2.5
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50
Bromobenzene	ND		ug/l	2.5
n-Butylbenzene	ND		ug/l	0.50
sec-Butylbenzene	ND		ug/l	0.50
tert-Butylbenzene	ND		ug/l	2.5
o-Chlorotoluene	ND		ug/l	2.5
p-Chlorotoluene	ND		ug/l	2.5
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5
Hexachlorobutadiene	ND		ug/l	0.60
Isopropylbenzene	ND		ug/l	0.50
p-Isopropyltoluene	ND		ug/l	0.50
Naphthalene	ND		ug/l	2.5
n-Propylbenzene	ND		ug/l	0.50

Project Name: ISCO SAMPLING **Lab Number:** L0719065

Project Number: 0061882.01 **Report Date:** 12/31/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 12/27/07 11:56
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01-05 Batch: WG307066-3				
1,2,3-Trichlorobenzene	ND		ug/l	2.5
1,2,4-Trichlorobenzene	ND		ug/l	2.5
1,3,5-Trimethylbenzene	ND		ug/l	2.5
1,2,4-Trimethylbenzene	ND		ug/l	2.5
Ethyl ether	ND		ug/l	2.5
Isopropyl Ether	ND		ug/l	2.0
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0
1,4-Dioxane	ND		ug/l	250

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	106		70-130

Project Name: ISCO SAMPLING **Lab Number:** L0719065

Project Number: 0061882.01 **Report Date:** 12/31/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 12/28/07 11:18
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 06-12 Batch: WG307189-3				
Methylene chloride	ND		ug/l	5.0
1,1-Dichloroethane	ND		ug/l	0.75
Chloroform	ND		ug/l	0.75
Carbon tetrachloride	ND		ug/l	0.50
1,2-Dichloropropane	ND		ug/l	1.8
Dibromochloromethane	ND		ug/l	0.50
1,1,2-Trichloroethane	ND		ug/l	0.75
Tetrachloroethene	ND		ug/l	0.50
Chlorobenzene	ND		ug/l	0.50
Trichlorofluoromethane	ND		ug/l	2.5
1,2-Dichloroethane	ND		ug/l	0.50
1,1,1-Trichloroethane	ND		ug/l	0.50
Bromodichloromethane	ND		ug/l	0.50
trans-1,3-Dichloropropene	ND		ug/l	0.50
cis-1,3-Dichloropropene	ND		ug/l	0.50
1,1-Dichloropropene	ND		ug/l	2.5
Bromoform	ND		ug/l	2.0
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50
Benzene	ND		ug/l	0.50
Toluene	ND		ug/l	0.75
Ethylbenzene	ND		ug/l	0.50
Chloromethane	ND		ug/l	2.5
Bromomethane	ND		ug/l	1.0
Vinyl chloride	ND		ug/l	1.0
Chloroethane	ND		ug/l	1.0
1,1-Dichloroethene	ND		ug/l	0.50
trans-1,2-Dichloroethene	ND		ug/l	0.75
Trichloroethene	ND		ug/l	0.50
1,2-Dichlorobenzene	ND		ug/l	2.5
1,3-Dichlorobenzene	ND		ug/l	2.5
1,4-Dichlorobenzene	ND		ug/l	2.5

Project Name: ISCO SAMPLING **Lab Number:** L0719065

Project Number: 0061882.01 **Report Date:** 12/31/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 12/28/07 11:18
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 06-12 Batch: WG307189-3				
Methyl tert butyl ether	ND		ug/l	1.0
p/m-Xylene	ND		ug/l	1.0
o-Xylene	ND		ug/l	1.0
cis-1,2-Dichloroethene	ND		ug/l	0.50
Dibromomethane	ND		ug/l	5.0
1,2,3-Trichloropropane	ND		ug/l	5.0
Styrene	ND		ug/l	1.0
Dichlorodifluoromethane	ND		ug/l	5.0
Acetone	ND		ug/l	5.0
Carbon disulfide	ND		ug/l	5.0
2-Butanone	ND		ug/l	5.0
4-Methyl-2-pentanone	ND		ug/l	5.0
2-Hexanone	ND		ug/l	5.0
Bromochloromethane	ND		ug/l	2.5
Tetrahydrofuran	ND		ug/l	10
2,2-Dichloropropane	ND		ug/l	2.5
1,2-Dibromoethane	ND		ug/l	2.0
1,3-Dichloropropane	ND		ug/l	2.5
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50
Bromobenzene	ND		ug/l	2.5
n-Butylbenzene	ND		ug/l	0.50
sec-Butylbenzene	ND		ug/l	0.50
tert-Butylbenzene	ND		ug/l	2.5
o-Chlorotoluene	ND		ug/l	2.5
p-Chlorotoluene	ND		ug/l	2.5
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5
Hexachlorobutadiene	ND		ug/l	0.60
Isopropylbenzene	ND		ug/l	0.50
p-Isopropyltoluene	ND		ug/l	0.50
Naphthalene	ND		ug/l	2.5
n-Propylbenzene	ND		ug/l	0.50

Project Name: ISCO SAMPLING **Lab Number:** L0719065

Project Number: 0061882.01 **Report Date:** 12/31/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 12/28/07 11:18
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 06-12 Batch: WG307189-3				
1,2,3-Trichlorobenzene	ND		ug/l	2.5
1,2,4-Trichlorobenzene	ND		ug/l	2.5
1,3,5-Trimethylbenzene	ND		ug/l	2.5
1,2,4-Trimethylbenzene	ND		ug/l	2.5
Ethyl ether	ND		ug/l	2.5
Isopropyl Ether	ND		ug/l	2.0
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0
1,4-Dioxane	ND		ug/l	250

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	109		70-130

Project Name: ISCO SAMPLING **Lab Number:** L0719065

Project Number: 0061882.01 **Report Date:** 12/31/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 12/28/07 11:38
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 13-21,23-25 Batch: WG307265-3				
Methylene chloride	ND		ug/l	5.0
1,1-Dichloroethane	ND		ug/l	0.75
Chloroform	ND		ug/l	0.75
Carbon tetrachloride	ND		ug/l	0.50
1,2-Dichloropropane	ND		ug/l	1.8
Dibromochloromethane	ND		ug/l	0.50
1,1,2-Trichloroethane	ND		ug/l	0.75
Tetrachloroethene	ND		ug/l	0.50
Chlorobenzene	ND		ug/l	0.50
1,2-Dichloroethane	ND		ug/l	0.50
1,1,1-Trichloroethane	ND		ug/l	0.50
Bromodichloromethane	ND		ug/l	0.50
trans-1,3-Dichloropropene	ND		ug/l	0.50
cis-1,3-Dichloropropene	ND		ug/l	0.50
Bromoform	ND		ug/l	2.0
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50
Chloromethane	ND		ug/l	2.5
Vinyl chloride	ND		ug/l	1.0
Chloroethane	ND		ug/l	1.0
1,1-Dichloroethene	ND		ug/l	0.50
trans-1,2-Dichloroethene	ND		ug/l	0.75
Trichloroethene	ND		ug/l	0.50
1,2-Dichlorobenzene	ND		ug/l	2.5
1,3-Dichlorobenzene	ND		ug/l	2.5
1,4-Dichlorobenzene	ND		ug/l	2.5
cis-1,2-Dichloroethene	ND		ug/l	0.50
Dichlorodifluoromethane	ND		ug/l	5.0
2,2-Dichloropropane	ND		ug/l	2.5
1,2-Dibromoethane	ND		ug/l	2.0
1,3-Dichloropropane	ND		ug/l	2.5
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50

Project Name: ISCO SAMPLING **Lab Number:** L0719065

Project Number: 0061882.01 **Report Date:** 12/31/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 12/28/07 11:38
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 13-21,23-25 Batch: WG307265-3				
o-Chlorotoluene	ND		ug/l	2.5
p-Chlorotoluene	ND		ug/l	2.5
Hexachlorobutadiene	ND		ug/l	0.60
1,2,4-Trichlorobenzene	ND		ug/l	2.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	107		70-130

Project Name: ISCO SAMPLING **Lab Number:** L0719065

Project Number: 0061882.01 **Report Date:** 12/31/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 12/29/07 16:57
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 26 Batch: WG307304-3				
Methylene chloride	ND		ug/l	5.0
1,1-Dichloroethane	ND		ug/l	0.75
Chloroform	ND		ug/l	0.75
Carbon tetrachloride	ND		ug/l	0.50
1,2-Dichloropropane	ND		ug/l	1.8
Dibromochloromethane	ND		ug/l	0.50
1,1,2-Trichloroethane	ND		ug/l	0.75
Tetrachloroethene	ND		ug/l	0.50
Chlorobenzene	ND		ug/l	0.50
1,2-Dichloroethane	ND		ug/l	0.50
1,1,1-Trichloroethane	ND		ug/l	0.50
Bromodichloromethane	ND		ug/l	0.50
trans-1,3-Dichloropropene	ND		ug/l	0.50
cis-1,3-Dichloropropene	ND		ug/l	0.50
Bromoform	ND		ug/l	2.0
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50
Chloromethane	ND		ug/l	2.5
Vinyl chloride	ND		ug/l	1.0
Chloroethane	ND		ug/l	1.0
1,1-Dichloroethene	ND		ug/l	0.50
trans-1,2-Dichloroethene	ND		ug/l	0.75
Trichloroethene	ND		ug/l	0.50
1,2-Dichlorobenzene	ND		ug/l	2.5
1,3-Dichlorobenzene	ND		ug/l	2.5
1,4-Dichlorobenzene	ND		ug/l	2.5
cis-1,2-Dichloroethene	ND		ug/l	0.50
Dichlorodifluoromethane	ND		ug/l	5.0
2,2-Dichloropropane	ND		ug/l	2.5
1,2-Dibromoethane	ND		ug/l	2.0
1,3-Dichloropropane	ND		ug/l	2.5
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50

Project Name: ISCO SAMPLING **Lab Number:** L0719065

Project Number: 0061882.01 **Report Date:** 12/31/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 12/29/07 16:57
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 26 Batch: WG307304-3				
o-Chlorotoluene	ND		ug/l	2.5
p-Chlorotoluene	ND		ug/l	2.5
Hexachlorobutadiene	ND		ug/l	0.60
1,2,4-Trichlorobenzene	ND		ug/l	2.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	112		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: ISCO SAMPLING
Project Number: 0061882.01

Lab Number: L0719065
Report Date: 12/31/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-05 Batch: WG307066-1 WG307066-2					
Methylene chloride	119	118	70-130	1	25
1,1-Dichloroethane	115	111	70-130	4	25
Chloroform	114	112	70-130	2	25
Carbon tetrachloride	113	102	70-130	10	25
1,2-Dichloropropane	109	109	70-130	0	25
Dibromochloromethane	122	117	70-130	4	25
1,1,2-Trichloroethane	97	99	70-130	2	25
Tetrachloroethene	101	100	70-130	1	25
Chlorobenzene	104	103	70-130	1	25
Trichlorofluoromethane	126	119	70-130	6	25
1,2-Dichloroethane	117	117	70-130	0	25
1,1,1-Trichloroethane	112	107	70-130	5	25
Bromodichloromethane	116	112	70-130	4	25
trans-1,3-Dichloropropene	93	88	70-130	6	25
cis-1,3-Dichloropropene	109	105	70-130	4	25
1,1-Dichloropropene	112	110	70-130	2	25
Bromoform	126	119	70-130	6	50
1,1,2,2-Tetrachloroethane	105	104	70-130	1	25
Benzene	111	109	70-130	2	25
Toluene	102	102	70-130	0	25
Ethylbenzene	103	102	70-130	1	25

Lab Control Sample Analysis
Batch Quality Control

Project Name: ISCO SAMPLING
Project Number: 0061882.01

Lab Number: L0719065
Report Date: 12/31/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-05 Batch: WG307066-1 WG307066-2					
Chloromethane	103	104	70-130	1	50
Bromomethane	114	115	70-130	1	50
Vinyl chloride	103	98	70-130	5	25
Chloroethane	**134**	**132**	70-130	2	25
1,1-Dichloroethene	111	106	70-130	5	25
trans-1,2-Dichloroethene	115	110	70-130	4	25
Trichloroethene	105	104	70-130	1	25
1,2-Dichlorobenzene	100	100	70-130	0	25
1,3-Dichlorobenzene	102	102	70-130	0	25
1,4-Dichlorobenzene	102	100	70-130	2	25
Methyl tert butyl ether	104	123	70-130	17	25
p/m-Xylene	108	107	70-130	1	25
o-Xylene	108	108	70-130	0	25
cis-1,2-Dichloroethene	110	109	70-130	1	25
Dibromomethane	114	113	70-130	1	25
1,2,3-Trichloropropane	107	102	70-130	5	25
Styrene	109	110	70-130	1	25
Dichlorodifluoromethane	96	93	70-130	3	50
Acetone	**160**	**188**	70-130	16	50
Carbon disulfide	103	100	70-130	3	25
2-Butanone	120	119	70-130	1	50

Lab Control Sample Analysis
Batch Quality Control

Project Name: ISCO SAMPLING
Project Number: 0061882.01
Lab Number: L0719065
Report Date: 12/31/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-05 Batch: WG307066-1 WG307066-2					
4-Methyl-2-pentanone	112	107	70-130	5	50
2-Hexanone	101	99	70-130	2	50
Bromochloromethane	113	113	70-130	0	25
Tetrahydrofuran	118	115	70-130	3	25
2,2-Dichloropropane	107	100	70-130	7	50
1,2-Dibromoethane	98	96	70-130	2	25
1,3-Dichloropropane	102	101	70-130	1	25
1,1,1,2-Tetrachloroethane	94	90	70-130	4	25
Bromobenzene	98	98	70-130	0	25
n-Butylbenzene	102	97	70-130	5	25
sec-Butylbenzene	101	96	70-130	5	25
tert-Butylbenzene	100	96	70-130	4	25
o-Chlorotoluene	99	96	70-130	3	25
p-Chlorotoluene	102	99	70-130	3	25
1,2-Dibromo-3-chloropropane	103	97	70-130	6	50
Hexachlorobutadiene	102	99	70-130	3	25
Isopropylbenzene	111	110	70-130	1	25
p-Isopropyltoluene	104	99	70-130	5	25
Naphthalene	98	95	70-130	3	25
n-Propylbenzene	102	99	70-130	3	25
1,2,3-Trichlorobenzene	100	99	70-130	1	25

Lab Control Sample Analysis
Batch Quality Control

Project Name: ISCO SAMPLING
Project Number: 0061882.01
Lab Number: L0719065
Report Date: 12/31/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-05 Batch: WG307066-1 WG307066-2					
1,2,4-Trichlorobenzene	101	100	70-130	1	25
1,3,5-Trimethylbenzene	101	97	70-130	4	25
1,2,4-Trimethylbenzene	102	99	70-130	3	25
Ethyl ether	118	112	70-130	5	25
Isopropyl Ether	112	111	70-130	1	25
Ethyl-Tert-Butyl-Ether	113	109	70-130	4	25
Tertiary-Amyl Methyl Ether	105	106	70-130	1	25
1,4-Dioxane	113	117	70-130	3	50

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		105		70-130
Toluene-d8	96		94		70-130
4-Bromofluorobenzene	98		96		70-130
Dibromofluoromethane	106		104		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: ISCO SAMPLING
Project Number: 0061882.01

Lab Number: L0719065
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Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 06-12 Batch: WG307189-1 WG307189-2					
Methylene chloride	120	118	70-130	2	25
1,1-Dichloroethane	112	114	70-130	2	25
Chloroform	114	114	70-130	0	25
Carbon tetrachloride	116	102	70-130	13	25
1,2-Dichloropropane	110	109	70-130	1	25
Dibromochloromethane	120	112	70-130	7	25
1,1,2-Trichloroethane	100	97	70-130	3	25
Tetrachloroethene	99	102	70-130	3	25
Chlorobenzene	102	101	70-130	1	25
Trichlorofluoromethane	123	126	70-130	2	25
1,2-Dichloroethane	119	117	70-130	2	25
1,1,1-Trichloroethane	111	106	70-130	5	25
Bromodichloromethane	118	107	70-130	10	25
trans-1,3-Dichloropropene	90	83	70-130	8	25
cis-1,3-Dichloropropene	108	103	70-130	5	25
1,1-Dichloropropene	112	113	70-130	1	25
Bromoform	122	110	70-130	10	50
1,1,2,2-Tetrachloroethane	105	98	70-130	7	25
Benzene	111	112	70-130	1	25
Toluene	101	101	70-130	0	25
Ethylbenzene	102	102	70-130	0	25

Lab Control Sample Analysis
Batch Quality Control

Project Name: ISCO SAMPLING
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Lab Number: L0719065
Report Date: 12/31/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 06-12 Batch: WG307189-1 WG307189-2					
Chloromethane	100	107	70-130	7	50
Bromomethane	112	124	70-130	10	50
Vinyl chloride	100	102	70-130	2	25
Chloroethane	129	**136**	70-130	5	25
1,1-Dichloroethene	112	109	70-130	3	25
trans-1,2-Dichloroethene	114	113	70-130	1	25
Trichloroethene	105	108	70-130	3	25
1,2-Dichlorobenzene	99	99	70-130	0	25
1,3-Dichlorobenzene	102	101	70-130	1	25
1,4-Dichlorobenzene	100	101	70-130	1	25
Methyl tert butyl ether	104	121	70-130	15	25
p/m-Xylene	106	107	70-130	1	25
o-Xylene	108	109	70-130	1	25
cis-1,2-Dichloroethene	109	114	70-130	4	25
Dibromomethane	119	113	70-130	5	25
1,2,3-Trichloropropane	104	99	70-130	5	25
Styrene	108	108	70-130	0	25
Dichlorodifluoromethane	89	94	70-130	5	50
Acetone	**167**	**180**	70-130	7	50
Carbon disulfide	95	96	70-130	1	25
2-Butanone	119	115	70-130	3	50

Lab Control Sample Analysis
Batch Quality Control

Project Name: ISCO SAMPLING
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Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 06-12 Batch: WG307189-1 WG307189-2					
4-Methyl-2-pentanone	112	109	70-130	3	50
2-Hexanone	96	93	70-130	3	50
Bromochloromethane	121	116	70-130	4	25
Tetrahydrofuran	114	114	70-130	0	25
2,2-Dichloropropane	105	102	70-130	3	50
1,2-Dibromoethane	98	90	70-130	9	25
1,3-Dichloropropane	102	99	70-130	3	25
1,1,1,2-Tetrachloroethane	93	83	70-130	11	25
Bromobenzene	99	97	70-130	2	25
n-Butylbenzene	101	102	70-130	1	25
sec-Butylbenzene	99	100	70-130	1	25
tert-Butylbenzene	99	98	70-130	1	25
o-Chlorotoluene	98	98	70-130	0	25
p-Chlorotoluene	100	102	70-130	2	25
1,2-Dibromo-3-chloropropane	100	94	70-130	6	50
Hexachlorobutadiene	98	96	70-130	2	25
Isopropylbenzene	110	112	70-130	2	25
p-Isopropyltoluene	106	105	70-130	1	25
Naphthalene	96	93	70-130	3	25
n-Propylbenzene	100	101	70-130	1	25
1,2,3-Trichlorobenzene	102	94	70-130	8	25

Lab Control Sample Analysis
Batch Quality Control

Project Name: ISCO SAMPLING
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Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 06-12 Batch: WG307189-1 WG307189-2					
1,2,4-Trichlorobenzene	102	97	70-130	5	25
1,3,5-Trimethylbenzene	99	99	70-130	0	25
1,2,4-Trimethylbenzene	101	101	70-130	0	25
Ethyl ether	112	114	70-130	2	25
Isopropyl Ether	112	110	70-130	2	25
Ethyl-Tert-Butyl-Ether	110	108	70-130	2	25
Tertiary-Amyl Methyl Ether	107	102	70-130	5	25
1,4-Dioxane	119	115	70-130	3	50

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		109		70-130
Toluene-d8	95		93		70-130
4-Bromofluorobenzene	100		96		70-130
Dibromofluoromethane	107		105		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: ISCO SAMPLING
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Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 13-21,23-25 Batch: WG307265-1 WG307265-2					
Methylene chloride	120	123	70-130	2	25
1,1-Dichloroethane	117	117	70-130	0	25
Chloroform	119	121	70-130	2	25
Carbon tetrachloride	112	116	70-130	4	25
1,2-Dichloropropane	113	116	70-130	3	25
Dibromochloromethane	106	110	70-130	4	25
1,1,2-Trichloroethane	102	106	70-130	4	25
Tetrachloroethene	106	100	70-130	6	25
Chlorobenzene	106	105	70-130	1	25
1,2-Dichloroethane	120	123	70-130	2	25
1,1,1-Trichloroethane	112	112	70-130	0	25
Bromodichloromethane	115	121	70-130	5	25
trans-1,3-Dichloropropene	87	92	70-130	6	25
cis-1,3-Dichloropropene	106	114	70-130	7	25
Bromoform	102	105	70-130	3	50
1,1,2,2-Tetrachloroethane	102	109	70-130	7	25
Chloromethane	107	102	70-130	5	50
Vinyl chloride	103	101	70-130	2	25
Chloroethane	124	118	70-130	5	25
1,1-Dichloroethene	111	110	70-130	1	25
trans-1,2-Dichloroethene	112	111	70-130	1	25

Lab Control Sample Analysis
Batch Quality Control

Project Name: ISCO SAMPLING
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Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 13-21,23-25 Batch: WG307265-1 WG307265-2					
Trichloroethene	110	106	70-130	4	25
1,2-Dichlorobenzene	102	104	70-130	2	25
1,3-Dichlorobenzene	104	106	70-130	2	25
1,4-Dichlorobenzene	102	106	70-130	4	25
cis-1,2-Dichloroethene	114	115	70-130	1	25
Dichlorodifluoromethane	91	91	70-130	0	50
2,2-Dichloropropane	110	107	70-130	3	50
1,2-Dibromoethane	98	101	70-130	3	25
1,3-Dichloropropane	100	104	70-130	4	25
1,1,1,2-Tetrachloroethane	90	93	70-130	3	25
o-Chlorotoluene	101	102	70-130	1	25
p-Chlorotoluene	105	107	70-130	2	25
Hexachlorobutadiene	104	95	70-130	9	25
1,2,4-Trichlorobenzene	104	106	70-130	2	25

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		108		70-130
Toluene-d8	95		94		70-130
4-Bromofluorobenzene	96		98		70-130
Dibromofluoromethane	108		106		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: ISCO SAMPLING
Project Number: 0061882.01

Lab Number: L0719065
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Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 26 Batch: WG307304-1 WG307304-2					
Methylene chloride	121	119	70-130	2	25
1,1-Dichloroethane	114	116	70-130	2	25
Chloroform	114	121	70-130	6	25
Carbon tetrachloride	104	124	70-130	18	25
1,2-Dichloropropane	110	115	70-130	4	25
Dibromochloromethane	116	125	70-130	7	25
1,1,2-Trichloroethane	97	99	70-130	2	25
Tetrachloroethene	97	100	70-130	3	25
Chlorobenzene	102	103	70-130	1	25
1,2-Dichloroethane	122	122	70-130	0	25
1,1,1-Trichloroethane	105	115	70-130	9	25
Bromodichloromethane	115	124	70-130	8	25
trans-1,3-Dichloropropene	85	91	70-130	7	25
cis-1,3-Dichloropropene	105	111	70-130	6	25
Bromoform	112	124	70-130	10	50
1,1,2,2-Tetrachloroethane	98	106	70-130	8	25
Chloromethane	106	102	70-130	4	50
Vinyl chloride	100	102	70-130	2	25
Chloroethane	**132**	**134**	70-130	2	25
1,1-Dichloroethene	109	111	70-130	2	25
trans-1,2-Dichloroethene	112	116	70-130	4	25

Lab Control Sample Analysis
Batch Quality Control

Project Name: ISCO SAMPLING
Project Number: 0061882.01
Lab Number: L0719065
Report Date: 12/31/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 26 Batch: WG307304-1 WG307304-2					
Trichloroethene	105	106	70-130	1	25
1,2-Dichlorobenzene	96	98	70-130	2	25
1,3-Dichlorobenzene	100	102	70-130	2	25
1,4-Dichlorobenzene	99	100	70-130	1	25
cis-1,2-Dichloroethene	113	112	70-130	1	25
Dichlorodifluoromethane	90	91	70-130	1	50
2,2-Dichloropropane	100	110	70-130	10	50
1,2-Dibromoethane	94	100	70-130	6	25
1,3-Dichloropropane	102	104	70-130	2	25
1,1,1,2-Tetrachloroethane	89	99	70-130	11	25
o-Chlorotoluene	95	100	70-130	5	25
p-Chlorotoluene	97	102	70-130	5	25
Hexachlorobutadiene	92	98	70-130	6	25
1,2,4-Trichlorobenzene	95	100	70-130	5	25

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		111		70-130
Toluene-d8	93		94		70-130
4-Bromofluorobenzene	95		97		70-130
Dibromofluoromethane	110		111		70-130

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Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0719065-01A	Vial Na2S2O3 preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719065-01B	Vial Na2S2O3 preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719065-02A	Vial HCl preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719065-02B	Vial HCl preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719065-03A	Vial Na2S2O3 preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719065-03B	Vial Na2S2O3 preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719065-04A	Vial Na2S2O3 preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719065-04B	Vial Na2S2O3 preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719065-05A	Vial HCl preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719065-05B	Vial HCl preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719065-06A	Vial Na2S2O3 preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719065-06B	Vial Na2S2O3 preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719065-07A	Vial Na2S2O3 preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719065-07B	Vial Na2S2O3 preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719065-08A	Vial Na2S2O3 preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719065-08B	Vial Na2S2O3 preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719065-09A	Vial Na2S2O3 preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719065-09B	Vial Na2S2O3 preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719065-10A	Vial Na2S2O3 preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719065-10B	Vial Na2S2O3 preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719065-11A	Vial Na2S2O3 preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719065-11B	Vial Na2S2O3 preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719065-12A	Vial HCl preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719065-12B	Vial HCl preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719065-13A	Vial Na2S2O3 preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719065-13B	Vial Na2S2O3 preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719065-14A	Vial Na2S2O3 preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719065-14B	Vial Na2S2O3 preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719065-15A	Vial HCl preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719065-15B	Vial HCl preserved	A	N/A	2 C	Y	Absent	MCP-8260-04

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Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0719065-16A	Vial Na2S2O3 preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719065-16B	Vial Na2S2O3 preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719065-17A	Vial Na2S2O3 preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719065-17B	Vial Na2S2O3 preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719065-18A	Vial Na2S2O3 preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719065-18B	Vial Na2S2O3 preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719065-19A	Vial Na2S2O3 preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719065-19B	Vial Na2S2O3 preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719065-20A	Vial HCl preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719065-20B	Vial HCl preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719065-21A	Vial Na2S2O3 preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719065-21B	Vial Na2S2O3 preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719065-22A	Vial Na2S2O3 preserved	A	N/A	2 C	Y	Absent	HOLD
L0719065-22B	Vial Na2S2O3 preserved	A	N/A	2 C	Y	Absent	HOLD
L0719065-23A	Vial Na2S2O3 preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719065-23B	Vial Na2S2O3 preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719065-24A	Vial HCl preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719065-24B	Vial HCl preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719065-25A	Vial HCl preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719065-25B	Vial HCl preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719065-26A	Vial Na2S2O3 preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719065-26B	Vial Na2S2O3 preserved	A	N/A	2 C	Y	Absent	MCP-8260-04

Project Name:	ISCO SAMPLING	**Lab Number:**	L0719065
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GLOSSARY

Acronyms

EPA - Environmental Protection Agency.
LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD - Laboratory Control Sample Duplicate: Refer to LCS.
MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD - Matrix Spike Sample Duplicate: Refer to MS.
NA - Not Applicable.
NI - Not Ignitable.
NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
ND - Not detected at the reported detection limit for the sample.
RDL - Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

The following data qualifiers have been identified for use under the CT DEP Reasonable Confidence Protocols.

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

J - Estimated value. The analyte was tentatively identified; the quantitation is an estimation. (Tentatively identified compounds only.)

Standard Qualifiers

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

Project Name: ISCO SAMPLING **Lab Number:** L0719065
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REFERENCES

60 Quality Assurance and Quality Control Requirements and Performance Standards for SW-846 Methods. MADEP BWSC. WSC-CAM-IIA (Revision 4), WSC-CAM-V C (Revision 2), WSC-CAM-IIIA (Revision 5). May 2004.

LIMITATION OF LIABILITIES

Alpha Woods Hole Labs performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Woods Hole Labs be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Woods Hole Labs.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

12310712:57

CHAIN OF CUSTODY

PAGE 1 OF 3

ALPHA ANALYTICAL

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193

MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 12/21

ALPHA Job #: L0719065

Client Information

Client: ERM-BOSTON

Address: 399 BOYLSTON ST. 6TH FLOOR BOSTON, MA 02116

Phone: (617) 646-7800

Fax: (617) 267-6447

Email: jason.flattery

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: ISCO SAMPLING

Project Location: RAYTHEON WAYLAND

Project #: 0061882.01

Project Manager: JASON FLATTERY

ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 1/2 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL

☒ FEDEX ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria
MA MCP	METHOD 1 GW 1

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

☒ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS: CVOCs 8021c by 8260; SVOCs 8021c by 8260

SAMPLE HANDLING: Filtration ☐ Done ☒ Not needed ☐ Lab to do; Preservation ☐ Lab to do (Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	CVOCs 8021c by 8260	SVOCs 8021c by 8260	Sample Specific Comments	TOTAL # BOTTLES
9065-1	IP-17D-20071219-01	12/19/07	12:03	GW	MS	2			2
2	IP-14-20071219-01		12:00		JM	2			2
3	IP-25D-20071219-01		15:00		MS	2			2
4	IP-17S-20071219-01		12:10		MS	2			2
5	IP-7-20071219-01		12:30		JM	2			2
6	IP-12-20071219-01		12:50		MS	2			2
7	IP-11S-20071219-01		10:00		JM	2			2
8	IP-20-20071219-01		10:05		MS	2			2
9	IP-16D-20071219-01		10:55		MS	2			2
10	IP-11D-20071219-01		10:40		JM	2			2

Container Type: V V

Preservative: B H

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
Monica Jordan 12/21/07	12/21/07 10:45	[illegible] 12/21/07	10:45
		12/21 1835	

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

FORM NO: 01-01 (rev. 30-JUL-07)

12310712:57

CHAIN OF CUSTODY

PAGE 2 OF 3

ALPHA ANALYTICAL

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193

MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 12/21

ALPHA Job #: L0719065

Client Information

Client: ERM BOSTON

Address: 399 BOYLSTON ST 6TH FLOOR BOSTON, MA 02116

Phone: (617) 646-7800

Fax: (617) 267-6447

Email: jason.flattery@erm.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: ISCO SAMPLING

Project Location: RAYTHEON-WAYLAND

Project #: 0061832.01

Project Manager: JASON FLATTERY

ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 1/2 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL

☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria
MA MCP	METHOD 1 GW1

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

☒ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

SAMPLE HANDLING

Filtration: ☐ Done ☒ Not needed ☐ Lab to do

Preservation: ☐ Lab to do (Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	CVOCs 8021c by 8260	CVOCs 8021c by 8260	Sample Specific Comments	TOTAL # BOTTLES
9065-11	IP-10-20071219-01	12/19/07	11:40	GW	JM		2		2
12	IP-8S-20071219-01		11:15		JM	2			2
13	IP-18-20071219-01		13:10		MS		2		2
14	IP-15D-20071219-01		11:35		MS		2		2
15	IP-26D-20071219-01		14:00		MS	2			2
16	IP-19-20071219-01		10:00		MS		2		2
17	IP-16S-20071219-01		10:50		MS		2		2
18	IP-25S-20071219-01		15:05		MS		2		2
19	IP-15S-20071219-01		11:30		MS		2		2
20	IP-24S-20071219-01		15:20		JM	2			2

Container Type	V	V
Preservative	B	H

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible] - BTEC/ICI	12/21/07 1045	[illegible]	12/21/07 1045
			12/21 1835

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

FORM NO: 01-01 (rev. 30-JUL-07)

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CHAIN OF CUSTODY

PAGE 3 OF 3

Date Rec'd in Lab: 12/21

ALPHA Job #: L0719065

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: ERM BOSTON
Address: 399 BOYLSTON ST 6TH FLOOR BOSTON, MA 02116
Phone: (617) 646-7800
Fax: (617) 267-6447
Email: jason.flattery@erm.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: ISCO SAMPLING
Project Location: RAYTHEON WAYLAND
Project #: 0061882.01
Project Manager: JASON FLATTERY
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 1/2 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria
MA MCP	METHOD 1 GW 1

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

☒ Yes ☐ No Are MCP Analytical Methods Required?
☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	CVOCs 8021c by 8260	CVOCs 8021c by 8260	Sample Specific Comments	TOTAL # BOTTLES
9065-21	IP-22-20071219-01	12/19/07	14:30	GW	JM		2		2
22	IP-23-20071219-01		14:55		JM		2		2
23	IP-21-20071219-01		14:45		MS		2		2
24	IP-6-20071219-01		13:00		JM	2			2
25	IP-24D-20071219-01		15:45		JM	2			2
26	IP-26S-20071219-01		13:50		MS		2		2
						4	8		

SAMPLE HANDLING
Filtration
☐ Done
☒ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

Container Type	V	V
Preservative	B	H

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible] 12/21/07	12/21/07 10:45	[illegible]	12/21/07 [illegible]
[illegible] 12/21/07	[illegible]	[illegible] 12/21	1 of 3

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

FORM NO: 01-01 (rev. 30-JUL-07)

ANALYTICAL REPORT

Lab Number:	L0719063
Client:	ERM-New England 399 Boylston Street 6th Floor Boston, MA 02116
ATTN:	Jason Flattery
Project Name:	ISCO SAMPLING
Project Number:	0061882.01
Report Date:	12/29/07

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (200305), NJ (MA935), RI (LAO00065), ME (2006012), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: ISCO SAMPLING
Project Number: 0061882.01

Lab Number: L0719063
Report Date: 12/29/07

Alpha Sample ID	Client ID	Sample Location
L0719063-01	IP-1-20071220-01	RAYTHEON-WAYLAND
L0719063-02	IP-2-20071220-01	RAYTHEON-WAYLAND
L0719063-03	IP-3D-20071220-01	RAYTHEON-WAYLAND
L0719063-04	IP-4-20071220-01	RAYTHEON-WAYLAND
L0719063-05	IP-5-20071220-01	RAYTHEON-WAYLAND
L0719063-06	IP-9S-20071220-01	RAYTHEON-WAYLAND
L0719063-07	IP-9D-20071220-01	RAYTHEON-WAYLAND
L0719063-08	IP-13-20071220-01	RAYTHEON-WAYLAND
L0719063-09	MW-405S-20071220-01	RAYTHEON-WAYLAND
L0719063-10	MW-118-20071220-01	RAYTHEON-WAYLAND
L0719063-11	IP-27-20071220-01	RAYTHEON-WAYLAND
L0719063-12	IP-28-20071220-01	RAYTHEON-WAYLAND
L0719063-13	IP-30-20071220-01	RAYTHEON-WAYLAND
L0719063-14	IP-33-20071220-01	RAYTHEON-WAYLAND
L0719063-15	IP-35-20071220-01	RAYTHEON-WAYLAND
L0719063-16	IP-36-20071220-01	RAYTHEON-WAYLAND
L0719063-17	IP-38-20071220-01	RAYTHEON-WAYLAND
L0719063-18	IP-37-20071220-01	RAYTHEON-WAYLAND
L0719063-19	IP-39-20071220-01	RAYTHEON-WAYLAND
L0719063-20	DUP-001-20071220-01	RAYTHEON-WAYLAND
L0719063-21	DUP-002-20071220-01	RAYTHEON-WAYLAND
L0719063-22	DUP-003-20071220-01	RAYTHEON-WAYLAND
L0719063-23	DUP-004-20071220-01	RAYTHEON-WAYLAND
L0719063-24	TB-001-20071220-01	RAYTHEON-WAYLAND

Project Name:	ISCO SAMPLING	**Lab Number:**	L0719063
Project Number:	0061882.01	**Report Date:**	12/29/07

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A, B, C & D is required for "Presumptive Certainty" status		
A	Were all samples received by the laboratory in a condition consistent with those described on their Chain-of-Custody documentation for the data set?	YES
B	Were all QA/QC procedures required for the specified analytical methods(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	YES
C	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	YES
D	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	N/A

A response to questions E and F is required for "Presumptive Certainty" status		
E	Were all QC performance standards and recommendations for the specified method(s) achieved?	NO
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	NO

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

Project Name: ISCO SAMPLING
Project Number: 0061882.01
Lab Number: L0719063
Report Date: 12/29/07

Case Narrative

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

MCP Related Narratives:

Volatile Organics

L0719063-11 has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

L0719063-18, -19, and -21 through -24 were processed against a calibration curve that utilized a quadratic fit for Chloroethane.

L0719063-18 and -24 were received in the laboratory with a pH greater than two.

In reference to question E:

The WG307066-1/-2 LCS/LCSD % recoveries for Chloroethane, a difficult analyte, are above the individual acceptance criteria for the compound, but within the overall method allowances.

The WG307140-1/-2 LCS/LCSD % recoveries for Dichlorodifluoromethane, a difficult analyte, are below the individual acceptance criteria for the compound, but within the overall method allowances.

In reference to question F:

At the client's request, all submitted samples were not analyzed for the full MCP list of compounds specified for the Method.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

Title: Technical Director/Representative

Date: 12/29/07

ORGANICS

VOLATILES

Project Name: ISCO SAMPLING **Lab Number:** L0719063

Project Number: 0061882.01 **Report Date:** 12/29/07

SAMPLE RESULTS

Lab ID:	L0719063-02	Date Collected:	12/20/07 12:20
Client ID:	IP-2-20071220-01	Date Received:	12/21/07
Sample Location:	RAYTHEON-WAYLAND	Field Prep:	Not Specified
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	12/27/07 12:33		
Analyst:	GK		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	1.1		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	1.4		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	99		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	4.2		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: ISCO SAMPLING **Lab Number:** L0719063

Project Number: 0061882.01 **Report Date:** 12/29/07

SAMPLE RESULTS

Lab ID:	L0719063-02	Date Collected:	12/20/07 12:20
Client ID:	IP-2-20071220-01	Date Received:	12/21/07
Sample Location:	RAYTHEON-WAYLAND	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	103		70-130

Project Name: ISCO SAMPLING **Lab Number:** L0719063

Project Number: 0061882.01 **Report Date:** 12/29/07

SAMPLE RESULTS

Lab ID:	L0719063-03	Date Collected:	12/20/07 10:10
Client ID:	IP-3D-20071220-01	Date Received:	12/21/07
Sample Location:	RAYTHEON-WAYLAND	Field Prep:	Not Specified
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	12/27/07 13:12		
Analyst:	GK		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	4.7		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	11		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	63		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	10		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: ISCO SAMPLING **Lab Number:** L0719063

Project Number: 0061882.01 **Report Date:** 12/29/07

SAMPLE RESULTS

Lab ID:	L0719063-03	Date Collected:	12/20/07 10:10
Client ID:	IP-3D-20071220-01	Date Received:	12/21/07
Sample Location:	RAYTHEON-WAYLAND	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	105		70-130

Project Name: ISCO SAMPLING **Lab Number:** L0719063

Project Number: 0061882.01 **Report Date:** 12/29/07

SAMPLE RESULTS

Lab ID:	L0719063-04	Date Collected:	12/20/07 10:25
Client ID:	IP-4-20071220-01	Date Received:	12/21/07
Sample Location:	RAYTHEON-WAYLAND	Field Prep:	Not Specified
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	12/27/07 13:50		
Analyst:	GK		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	4.5		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	10		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	62		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	10		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: ISCO SAMPLING **Lab Number:** L0719063

Project Number: 0061882.01 **Report Date:** 12/29/07

SAMPLE RESULTS

Lab ID:	L0719063-04	Date Collected:	12/20/07 10:25
Client ID:	IP-4-20071220-01	Date Received:	12/21/07
Sample Location:	RAYTHEON-WAYLAND	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	103		70-130

Project Name: ISCO SAMPLING **Lab Number:** L0719063

Project Number: 0061882.01 **Report Date:** 12/29/07

SAMPLE RESULTS

Lab ID:	L0719063-05	Date Collected:	12/20/07 09:25
Client ID:	IP-5-20071220-01	Date Received:	12/21/07
Sample Location:	RAYTHEON-WAYLAND	Field Prep:	Not Specified
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	12/27/07 14:29		
Analyst:	GK		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	61		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	16		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: ISCO SAMPLING **Lab Number:** L0719063

Project Number: 0061882.01 **Report Date:** 12/29/07

SAMPLE RESULTS

Lab ID:	L0719063-05	Date Collected:	12/20/07 09:25
Client ID:	IP-5-20071220-01	Date Received:	12/21/07
Sample Location:	RAYTHEON-WAYLAND	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	105		70-130

Project Name: ISCO SAMPLING **Lab Number:** L0719063

Project Number: 0061882.01 **Report Date:** 12/29/07

SAMPLE RESULTS

Lab ID:	L0719063-06	Date Collected:	12/20/07 11:50
Client ID:	IP-9S-20071220-01	Date Received:	12/21/07
Sample Location:	RAYTHEON-WAYLAND	Field Prep:	Not Specified
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	12/27/07 15:08		
Analyst:	GK		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	1.1		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	0.52		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	16		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: ISCO SAMPLING **Lab Number:** L0719063

Project Number: 0061882.01 **Report Date:** 12/29/07

SAMPLE RESULTS

Lab ID:	L0719063-06	Date Collected:	12/20/07 11:50
Client ID:	IP-9S-20071220-01	Date Received:	12/21/07
Sample Location:	RAYTHEON-WAYLAND	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	103		70-130

Project Name: ISCO SAMPLING **Lab Number:** L0719063

Project Number: 0061882.01 **Report Date:** 12/29/07

SAMPLE RESULTS

Lab ID:	L0719063-07	Date Collected:	12/20/07 11:45
Client ID:	IP-9D-20071220-01	Date Received:	12/21/07
Sample Location:	RAYTHEON-WAYLAND	Field Prep:	Not Specified
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	12/27/07 15:46		
Analyst:	GK		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	1.4		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	10		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: ISCO SAMPLING **Lab Number:** L0719063

Project Number: 0061882.01 **Report Date:** 12/29/07

SAMPLE RESULTS

Lab ID:	L0719063-07	Date Collected:	12/20/07 11:45
Client ID:	IP-9D-20071220-01	Date Received:	12/21/07
Sample Location:	RAYTHEON-WAYLAND	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	102		70-130

Project Name: ISCO SAMPLING **Lab Number:** L0719063

Project Number: 0061882.01 **Report Date:** 12/29/07

SAMPLE RESULTS

Lab ID:	L0719063-08	Date Collected:	12/20/07 09:15
Client ID:	IP-13-20071220-01	Date Received:	12/21/07
Sample Location:	RAYTHEON-WAYLAND	Field Prep:	Not Specified
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	12/27/07 16:25		
Analyst:	GK		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	1.5		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	11		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	4.4		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: ISCO SAMPLING **Lab Number:** L0719063

Project Number: 0061882.01 **Report Date:** 12/29/07

SAMPLE RESULTS

Lab ID:	L0719063-08	Date Collected:	12/20/07 09:15
Client ID:	IP-13-20071220-01	Date Received:	12/21/07
Sample Location:	RAYTHEON-WAYLAND	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	101		70-130

Project Name: ISCO SAMPLING **Lab Number:** L0719063

Project Number: 0061882.01 **Report Date:** 12/29/07

SAMPLE RESULTS

Lab ID:	L0719063-10	Date Collected:	12/20/07 12:10
Client ID:	MW-118-20071220-01	Date Received:	12/21/07
Sample Location:	RAYTHEON-WAYLAND	Field Prep:	Not Specified
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	12/27/07 17:04		
Analyst:	GK		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	33		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: ISCO SAMPLING **Lab Number:** L0719063

Project Number: 0061882.01 **Report Date:** 12/29/07

SAMPLE RESULTS

Lab ID:	L0719063-10	Date Collected:	12/20/07 12:10
Client ID:	MW-118-20071220-01	Date Received:	12/21/07
Sample Location:	RAYTHEON-WAYLAND	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	103		70-130

Project Name: ISCO SAMPLING **Lab Number:** L0719063

Project Number: 0061882.01 **Report Date:** 12/29/07

SAMPLE RESULTS

Lab ID:	L0719063-11	Date Collected:	12/20/07 08:20
Client ID:	IP-27-20071220-01	Date Received:	12/21/07
Sample Location:	RAYTHEON-WAYLAND	Field Prep:	Not Specified
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	12/27/07 17:42		
Analyst:	GK		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	10	2
1,1-Dichloroethane	1.7		ug/l	1.5	2
Chloroform	ND		ug/l	1.5	2
Carbon tetrachloride	ND		ug/l	1.0	2
1,2-Dichloropropane	ND		ug/l	3.5	2
Dibromochloromethane	ND		ug/l	1.0	2
1,1,2-Trichloroethane	ND		ug/l	1.5	2
Tetrachloroethene	ND		ug/l	1.0	2
Chlorobenzene	ND		ug/l	1.0	2
1,2-Dichloroethane	ND		ug/l	1.0	2
1,1,1-Trichloroethane	ND		ug/l	1.0	2
Bromodichloromethane	ND		ug/l	1.0	2
trans-1,3-Dichloropropene	ND		ug/l	1.0	2
cis-1,3-Dichloropropene	ND		ug/l	1.0	2
Bromoform	ND		ug/l	4.0	2
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	2
Chloromethane	ND		ug/l	5.0	2
Vinyl chloride	ND		ug/l	2.0	2
Chloroethane	ND		ug/l	2.0	2
1,1-Dichloroethene	7.7		ug/l	1.0	2
trans-1,2-Dichloroethene	ND		ug/l	1.5	2
Trichloroethene	85		ug/l	1.0	2
1,2-Dichlorobenzene	ND		ug/l	5.0	2
1,3-Dichlorobenzene	ND		ug/l	5.0	2
1,4-Dichlorobenzene	ND		ug/l	5.0	2
cis-1,2-Dichloroethene	5.1		ug/l	1.0	2
Dichlorodifluoromethane	ND		ug/l	10	2
2,2-Dichloropropane	ND		ug/l	5.0	2
1,2-Dibromoethane	ND		ug/l	4.0	2
1,3-Dichloropropane	ND		ug/l	5.0	2

Project Name: ISCO SAMPLING **Lab Number:** L0719063

Project Number: 0061882.01 **Report Date:** 12/29/07

SAMPLE RESULTS

Lab ID:	L0719063-11	Date Collected:	12/20/07 08:20
Client ID:	IP-27-20071220-01	Date Received:	12/21/07
Sample Location:	RAYTHEON-WAYLAND	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	2
o-Chlorotoluene	ND		ug/l	5.0	2
p-Chlorotoluene	ND		ug/l	5.0	2
Hexachlorobutadiene	ND		ug/l	1.2	2
1,2,4-Trichlorobenzene	ND		ug/l	5.0	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	104		70-130

Project Name: ISCO SAMPLING **Lab Number:** L0719063

Project Number: 0061882.01 **Report Date:** 12/29/07

SAMPLE RESULTS

Lab ID:	L0719063-12	Date Collected:	12/20/07 11:50
Client ID:	IP-28-20071220-01	Date Received:	12/21/07
Sample Location:	RAYTHEON-WAYLAND	Field Prep:	Not Specified
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	12/27/07 18:21		
Analyst:	GK		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	0.85		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	1.6		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	1.5		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: ISCO SAMPLING **Lab Number:** L0719063

Project Number: 0061882.01 **Report Date:** 12/29/07

SAMPLE RESULTS

Lab ID:	L0719063-12	Date Collected:	12/20/07 11:50
Client ID:	IP-28-20071220-01	Date Received:	12/21/07
Sample Location:	RAYTHEON-WAYLAND	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	101		70-130

Project Name: ISCO SAMPLING **Lab Number:** L0719063

Project Number: 0061882.01 **Report Date:** 12/29/07

SAMPLE RESULTS

Lab ID:	L0719063-13	Date Collected:	12/20/07 10:10
Client ID:	IP-30-20071220-01	Date Received:	12/21/07
Sample Location:	RAYTHEON-WAYLAND	Field Prep:	Not Specified
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	12/27/07 18:59		
Analyst:	GK		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	1.8		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: ISCO SAMPLING **Lab Number:** L0719063

Project Number: 0061882.01 **Report Date:** 12/29/07

SAMPLE RESULTS

Lab ID:	L0719063-13	Date Collected:	12/20/07 10:10
Client ID:	IP-30-20071220-01	Date Received:	12/21/07
Sample Location:	RAYTHEON-WAYLAND	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	102		70-130

Project Name: ISCO SAMPLING **Lab Number:** L0719063

Project Number: 0061882.01 **Report Date:** 12/29/07

SAMPLE RESULTS

Lab ID:	L0719063-14	Date Collected:	12/20/07 10:05
Client ID:	IP-33-20071220-01	Date Received:	12/21/07
Sample Location:	RAYTHEON-WAYLAND	Field Prep:	Not Specified
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	12/27/07 19:38		
Analyst:	GK		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	0.96		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: ISCO SAMPLING **Lab Number:** L0719063

Project Number: 0061882.01 **Report Date:** 12/29/07

SAMPLE RESULTS

Lab ID:	L0719063-14	Date Collected:	12/20/07 10:05
Client ID:	IP-33-20071220-01	Date Received:	12/21/07
Sample Location:	RAYTHEON-WAYLAND	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	103		70-130

Project Name: ISCO SAMPLING **Lab Number:** L0719063

Project Number: 0061882.01 **Report Date:** 12/29/07

SAMPLE RESULTS

Lab ID:	L0719063-15	Date Collected:	12/20/07 08:42
Client ID:	IP-35-20071220-01	Date Received:	12/21/07
Sample Location:	RAYTHEON-WAYLAND	Field Prep:	Not Specified
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	12/27/07 20:17		
Analyst:	GK		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	0.94		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	0.76		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: ISCO SAMPLING **Lab Number:** L0719063

Project Number: 0061882.01 **Report Date:** 12/29/07

SAMPLE RESULTS

Lab ID:	L0719063-15	Date Collected:	12/20/07 08:42
Client ID:	IP-35-20071220-01	Date Received:	12/21/07
Sample Location:	RAYTHEON-WAYLAND	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	101		70-130

Project Name: ISCO SAMPLING **Lab Number:** L0719063

Project Number: 0061882.01 **Report Date:** 12/29/07

SAMPLE RESULTS

Lab ID:	L0719063-16	Date Collected:	12/20/07 13:10
Client ID:	IP-36-20071220-01	Date Received:	12/21/07
Sample Location:	RAYTHEON-WAYLAND	Field Prep:	Not Specified
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	12/27/07 20:55		
Analyst:	GK		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	1.9		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	ND		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: ISCO SAMPLING **Lab Number:** L0719063

Project Number: 0061882.01 **Report Date:** 12/29/07

SAMPLE RESULTS

Lab ID:	L0719063-16	Date Collected:	12/20/07 13:10
Client ID:	IP-36-20071220-01	Date Received:	12/21/07
Sample Location:	RAYTHEON-WAYLAND	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	104		70-130

Project Name: ISCO SAMPLING **Lab Number:** L0719063

Project Number: 0061882.01 **Report Date:** 12/29/07

SAMPLE RESULTS

Lab ID:	L0719063-17	Date Collected:	12/20/07 12:40
Client ID:	IP-38-20071220-01	Date Received:	12/21/07
Sample Location:	RAYTHEON-WAYLAND	Field Prep:	Not Specified
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	12/27/07 21:34		
Analyst:	GK		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	2.8		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: ISCO SAMPLING **Lab Number:** L0719063

Project Number: 0061882.01 **Report Date:** 12/29/07

SAMPLE RESULTS

Lab ID:	L0719063-17	Date Collected:	12/20/07 12:40
Client ID:	IP-38-20071220-01	Date Received:	12/21/07
Sample Location:	RAYTHEON-WAYLAND	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	105		70-130

Project Name: ISCO SAMPLING **Lab Number:** L0719063

Project Number: 0061882.01 **Report Date:** 12/29/07

SAMPLE RESULTS

Lab ID:	L0719063-18	Date Collected:	12/20/07 11:55
Client ID:	IP-37-20071220-01	Date Received:	12/21/07
Sample Location:	RAYTHEON-WAYLAND	Field Prep:	Not Specified
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	12/27/07 15:12		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	2.3		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	0.69		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	17		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	0.72		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: ISCO SAMPLING **Lab Number:** L0719063

Project Number: 0061882.01 **Report Date:** 12/29/07

SAMPLE RESULTS

Lab ID:	L0719063-18	Date Collected:	12/20/07 11:55
Client ID:	IP-37-20071220-01	Date Received:	12/21/07
Sample Location:	RAYTHEON-WAYLAND	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	105		70-130

Project Name: ISCO SAMPLING **Lab Number:** L0719063

Project Number: 0061882.01 **Report Date:** 12/29/07

SAMPLE RESULTS

Lab ID:	L0719063-19	Date Collected:	12/20/07 12:45
Client ID:	IP-39-20071220-01	Date Received:	12/21/07
Sample Location:	RAYTHEON-WAYLAND	Field Prep:	Not Specified
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	12/27/07 15:51		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	0.50		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	6.4		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	0.56		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: ISCO SAMPLING **Lab Number:** L0719063

Project Number: 0061882.01 **Report Date:** 12/29/07

SAMPLE RESULTS

Lab ID:	L0719063-19	Date Collected:	12/20/07 12:45
Client ID:	IP-39-20071220-01	Date Received:	12/21/07
Sample Location:	RAYTHEON-WAYLAND	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	105		70-130

Project Name: ISCO SAMPLING **Lab Number:** L0719063

Project Number: 0061882.01 **Report Date:** 12/29/07

SAMPLE RESULTS

Lab ID:	L0719063-21	Date Collected:	12/20/07 00:00
Client ID:	DUP-002-20071220-01	Date Received:	12/21/07
Sample Location:	RAYTHEON-WAYLAND	Field Prep:	Not Specified
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	12/27/07 16:30		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	66		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	18		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: ISCO SAMPLING **Lab Number:** L0719063

Project Number: 0061882.01 **Report Date:** 12/29/07

SAMPLE RESULTS

Lab ID:	L0719063-21	Date Collected:	12/20/07 00:00
Client ID:	DUP-002-20071220-01	Date Received:	12/21/07
Sample Location:	RAYTHEON-WAYLAND	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	102		70-130

Project Name: ISCO SAMPLING **Lab Number:** L0719063

Project Number: 0061882.01 **Report Date:** 12/29/07

SAMPLE RESULTS

Lab ID:	L0719063-22	Date Collected:	12/20/07 00:00
Client ID:	DUP-003-20071220-01	Date Received:	12/21/07
Sample Location:	RAYTHEON-WAYLAND	Field Prep:	Not Specified
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	12/27/07 17:09		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	1.2		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	1.2		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: ISCO SAMPLING **Lab Number:** L0719063

Project Number: 0061882.01 **Report Date:** 12/29/07

SAMPLE RESULTS

Lab ID:	L0719063-22	Date Collected:	12/20/07 00:00
Client ID:	DUP-003-20071220-01	Date Received:	12/21/07
Sample Location:	RAYTHEON-WAYLAND	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	107		70-130

Project Name: ISCO SAMPLING **Lab Number:** L0719063

Project Number: 0061882.01 **Report Date:** 12/29/07

SAMPLE RESULTS

Lab ID:	L0719063-23	Date Collected:	12/20/07 00:00
Client ID:	DUP-004-20071220-01	Date Received:	12/21/07
Sample Location:	RAYTHEON-WAYLAND	Field Prep:	Not Specified
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	12/27/07 17:48		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	2.2		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: ISCO SAMPLING **Lab Number:** L0719063

Project Number: 0061882.01 **Report Date:** 12/29/07

SAMPLE RESULTS

Lab ID:	L0719063-23	Date Collected:	12/20/07 00:00
Client ID:	DUP-004-20071220-01	Date Received:	12/21/07
Sample Location:	RAYTHEON-WAYLAND	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	104		70-130

Project Name: ISCO SAMPLING **Lab Number:** L0719063

Project Number: 0061882.01 **Report Date:** 12/29/07

SAMPLE RESULTS

Lab ID:	L0719063-24	Date Collected:	12/19/07 10:10
Client ID:	TB-001-20071220-01	Date Received:	12/21/07
Sample Location:	RAYTHEON-WAYLAND	Field Prep:	Not Specified
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	12/27/07 18:27		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	ND		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: ISCO SAMPLING **Lab Number:** L0719063

Project Number: 0061882.01 **Report Date:** 12/29/07

SAMPLE RESULTS

Lab ID:	L0719063-24	Date Collected:	12/19/07 10:10
Client ID:	TB-001-20071220-01	Date Received:	12/21/07
Sample Location:	RAYTHEON-WAYLAND	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	107		70-130

Project Name: ISCO SAMPLING **Lab Number:** L0719063

Project Number: 0061882.01 **Report Date:** 12/29/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 12/27/07 11:56
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 18-19,21-24 Batch: WG307066-3				
Methylene chloride	ND		ug/l	5.0
1,1-Dichloroethane	ND		ug/l	0.75
Chloroform	ND		ug/l	0.75
Carbon tetrachloride	ND		ug/l	0.50
1,2-Dichloropropane	ND		ug/l	1.8
Dibromochloromethane	ND		ug/l	0.50
1,1,2-Trichloroethane	ND		ug/l	0.75
Tetrachloroethene	ND		ug/l	0.50
Chlorobenzene	ND		ug/l	0.50
Trichlorofluoromethane	ND		ug/l	2.5
1,2-Dichloroethane	ND		ug/l	0.50
1,1,1-Trichloroethane	ND		ug/l	0.50
Bromodichloromethane	ND		ug/l	0.50
trans-1,3-Dichloropropene	ND		ug/l	0.50
cis-1,3-Dichloropropene	ND		ug/l	0.50
1,1-Dichloropropene	ND		ug/l	2.5
Bromoform	ND		ug/l	2.0
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50
Benzene	ND		ug/l	0.50
Toluene	ND		ug/l	0.75
Ethylbenzene	ND		ug/l	0.50
Chloromethane	ND		ug/l	2.5
Bromomethane	ND		ug/l	1.0
Vinyl chloride	ND		ug/l	1.0
Chloroethane	ND		ug/l	1.0
1,1-Dichloroethene	ND		ug/l	0.50
trans-1,2-Dichloroethene	ND		ug/l	0.75
Trichloroethene	ND		ug/l	0.50
1,2-Dichlorobenzene	ND		ug/l	2.5
1,3-Dichlorobenzene	ND		ug/l	2.5
1,4-Dichlorobenzene	ND		ug/l	2.5

Project Name: ISCO SAMPLING **Lab Number:** L0719063

Project Number: 0061882.01 **Report Date:** 12/29/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 12/27/07 11:56
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 18-19,21-24 Batch: WG307066-3				
Methyl tert butyl ether	ND		ug/l	1.0
p/m-Xylene	ND		ug/l	1.0
o-Xylene	ND		ug/l	1.0
cis-1,2-Dichloroethene	ND		ug/l	0.50
Dibromomethane	ND		ug/l	5.0
1,2,3-Trichloropropane	ND		ug/l	5.0
Styrene	ND		ug/l	1.0
Dichlorodifluoromethane	ND		ug/l	5.0
Acetone	ND		ug/l	5.0
Carbon disulfide	ND		ug/l	5.0
2-Butanone	ND		ug/l	5.0
4-Methyl-2-pentanone	ND		ug/l	5.0
2-Hexanone	ND		ug/l	5.0
Bromochloromethane	ND		ug/l	2.5
Tetrahydrofuran	ND		ug/l	10
2,2-Dichloropropane	ND		ug/l	2.5
1,2-Dibromoethane	ND		ug/l	2.0
1,3-Dichloropropane	ND		ug/l	2.5
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50
Bromobenzene	ND		ug/l	2.5
n-Butylbenzene	ND		ug/l	0.50
sec-Butylbenzene	ND		ug/l	0.50
tert-Butylbenzene	ND		ug/l	2.5
o-Chlorotoluene	ND		ug/l	2.5
p-Chlorotoluene	ND		ug/l	2.5
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5
Hexachlorobutadiene	ND		ug/l	0.60
Isopropylbenzene	ND		ug/l	0.50
p-Isopropyltoluene	ND		ug/l	0.50
Naphthalene	ND		ug/l	2.5
n-Propylbenzene	ND		ug/l	0.50

Project Name: ISCO SAMPLING **Lab Number:** L0719063

Project Number: 0061882.01 **Report Date:** 12/29/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 12/27/07 11:56
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 18-19,21-24 Batch: WG307066-3				
1,2,3-Trichlorobenzene	ND		ug/l	2.5
1,2,4-Trichlorobenzene	ND		ug/l	2.5
1,3,5-Trimethylbenzene	ND		ug/l	2.5
1,2,4-Trimethylbenzene	ND		ug/l	2.5
Ethyl ether	ND		ug/l	2.5
Isopropyl Ether	ND		ug/l	2.0
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0
1,4-Dioxane	ND		ug/l	250

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	106		70-130

Project Name: ISCO SAMPLING **Lab Number:** L0719063

Project Number: 0061882.01 **Report Date:** 12/29/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 12/27/07 11:55
Analyst: GK

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 02-08,10-17 Batch: WG307140-3				
Methylene chloride	ND		ug/l	5.0
1,1-Dichloroethane	ND		ug/l	0.75
Chloroform	ND		ug/l	0.75
Carbon tetrachloride	ND		ug/l	0.50
1,2-Dichloropropane	ND		ug/l	1.8
Dibromochloromethane	ND		ug/l	0.50
1,1,2-Trichloroethane	ND		ug/l	0.75
Tetrachloroethene	ND		ug/l	0.50
Chlorobenzene	ND		ug/l	0.50
1,2-Dichloroethane	ND		ug/l	0.50
1,1,1-Trichloroethane	ND		ug/l	0.50
Bromodichloromethane	ND		ug/l	0.50
trans-1,3-Dichloropropene	ND		ug/l	0.50
cis-1,3-Dichloropropene	ND		ug/l	0.50
Bromoform	ND		ug/l	2.0
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50
Chloromethane	ND		ug/l	2.5
Vinyl chloride	ND		ug/l	1.0
Chloroethane	ND		ug/l	1.0
1,1-Dichloroethene	ND		ug/l	0.50
trans-1,2-Dichloroethene	ND		ug/l	0.75
Trichloroethene	ND		ug/l	0.50
1,2-Dichlorobenzene	ND		ug/l	2.5
1,3-Dichlorobenzene	ND		ug/l	2.5
1,4-Dichlorobenzene	ND		ug/l	2.5
cis-1,2-Dichloroethene	ND		ug/l	0.50
Dichlorodifluoromethane	ND		ug/l	5.0
2,2-Dichloropropane	ND		ug/l	2.5
1,2-Dibromoethane	ND		ug/l	2.0
1,3-Dichloropropane	ND		ug/l	2.5
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50

Project Name: ISCO SAMPLING **Lab Number:** L0719063

Project Number: 0061882.01 **Report Date:** 12/29/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 12/27/07 11:55
Analyst: GK

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 02-08,10-17 Batch: WG307140-3				
o-Chlorotoluene	ND		ug/l	2.5
p-Chlorotoluene	ND		ug/l	2.5
Hexachlorobutadiene	ND		ug/l	0.60
1,2,4-Trichlorobenzene	ND		ug/l	2.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	108		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: ISCO SAMPLING
Project Number: 0061882.01

Lab Number: L0719063
Report Date: 12/29/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 18-19,21-24 Batch: WG307066-1 WG307066-2					
Methylene chloride	119	118	70-130	1	25
1,1-Dichloroethane	115	111	70-130	4	25
Chloroform	114	112	70-130	2	25
Carbon tetrachloride	113	102	70-130	10	25
1,2-Dichloropropane	109	109	70-130	0	25
Dibromochloromethane	122	117	70-130	4	25
1,1,2-Trichloroethane	97	99	70-130	2	25
Tetrachloroethene	101	100	70-130	1	25
Chlorobenzene	104	103	70-130	1	25
Trichlorofluoromethane	126	119	70-130	6	25
1,2-Dichloroethane	117	117	70-130	0	25
1,1,1-Trichloroethane	112	107	70-130	5	25
Bromodichloromethane	116	112	70-130	4	25
trans-1,3-Dichloropropene	93	88	70-130	6	25
cis-1,3-Dichloropropene	109	105	70-130	4	25
1,1-Dichloropropene	112	110	70-130	2	25
Bromoform	126	119	70-130	6	50
1,1,2,2-Tetrachloroethane	105	104	70-130	1	25
Benzene	111	109	70-130	2	25
Toluene	102	102	70-130	0	25
Ethylbenzene	103	102	70-130	1	25

Lab Control Sample Analysis
Batch Quality Control

Project Name: ISCO SAMPLING
Project Number: 0061882.01

Lab Number: L0719063
Report Date: 12/29/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 18-19,21-24 Batch: WG307066-1 WG307066-2					
Chloromethane	103	104	70-130	1	50
Bromomethane	114	115	70-130	1	50
Vinyl chloride	103	98	70-130	5	25
Chloroethane	**134**	**132**	70-130	2	25
1,1-Dichloroethene	111	106	70-130	5	25
trans-1,2-Dichloroethene	115	110	70-130	4	25
Trichloroethene	105	104	70-130	1	25
1,2-Dichlorobenzene	100	100	70-130	0	25
1,3-Dichlorobenzene	102	102	70-130	0	25
1,4-Dichlorobenzene	102	100	70-130	2	25
Methyl tert butyl ether	104	123	70-130	17	25
p/m-Xylene	108	107	70-130	1	25
o-Xylene	108	108	70-130	0	25
cis-1,2-Dichloroethene	110	109	70-130	1	25
Dibromomethane	114	113	70-130	1	25
1,2,3-Trichloropropane	107	102	70-130	5	25
Styrene	109	110	70-130	1	25
Dichlorodifluoromethane	96	93	70-130	3	50
Acetone	**160**	**188**	70-130	16	50
Carbon disulfide	103	100	70-130	3	25
2-Butanone	120	119	70-130	1	50

Lab Control Sample Analysis
Batch Quality Control

Project Name: ISCO SAMPLING
Project Number: 0061882.01
Lab Number: L0719063
Report Date: 12/29/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 18-19,21-24 Batch: WG307066-1 WG307066-2					
4-Methyl-2-pentanone	112	107	70-130	5	50
2-Hexanone	101	99	70-130	2	50
Bromochloromethane	113	113	70-130	0	25
Tetrahydrofuran	118	115	70-130	3	25
2,2-Dichloropropane	107	100	70-130	7	50
1,2-Dibromoethane	98	96	70-130	2	25
1,3-Dichloropropane	102	101	70-130	1	25
1,1,1,2-Tetrachloroethane	94	90	70-130	4	25
Bromobenzene	98	98	70-130	0	25
n-Butylbenzene	102	97	70-130	5	25
sec-Butylbenzene	101	96	70-130	5	25
tert-Butylbenzene	100	96	70-130	4	25
o-Chlorotoluene	99	96	70-130	3	25
p-Chlorotoluene	102	99	70-130	3	25
1,2-Dibromo-3-chloropropane	103	97	70-130	6	50
Hexachlorobutadiene	102	99	70-130	3	25
Isopropylbenzene	111	110	70-130	1	25
p-Isopropyltoluene	104	99	70-130	5	25
Naphthalene	98	95	70-130	3	25
n-Propylbenzene	102	99	70-130	3	25
1,2,3-Trichlorobenzene	100	99	70-130	1	25

Lab Control Sample Analysis
Batch Quality Control

Project Name: ISCO SAMPLING
Project Number: 0061882.01
Lab Number: L0719063
Report Date: 12/29/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 18-19,21-24 Batch: WG307066-1 WG307066-2					
1,2,4-Trichlorobenzene	101	100	70-130	1	25
1,3,5-Trimethylbenzene	101	97	70-130	4	25
1,2,4-Trimethylbenzene	102	99	70-130	3	25
Ethyl ether	118	112	70-130	5	25
Isopropyl Ether	112	111	70-130	1	25
Ethyl-Tert-Butyl-Ether	113	109	70-130	4	25
Tertiary-Amyl Methyl Ether	105	106	70-130	1	25
1,4-Dioxane	113	117	70-130	3	50

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		105		70-130
Toluene-d8	96		94		70-130
4-Bromofluorobenzene	98		96		70-130
Dibromofluoromethane	106		104		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: ISCO SAMPLING
Project Number: 0061882.01

Lab Number: L0719063
Report Date: 12/29/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 02-08,10-17 Batch: WG307140-1 WG307140-2					
Methylene chloride	94	98	70-130	4	25
1,1-Dichloroethane	97	96	70-130	1	25
Chloroform	98	101	70-130	3	25
Carbon tetrachloride	85	92	70-130	8	25
1,2-Dichloropropane	94	92	70-130	2	25
Dibromochloromethane	78	89	70-130	13	25
1,1,2-Trichloroethane	82	89	70-130	8	25
Tetrachloroethene	94	99	70-130	5	25
Chlorobenzene	92	94	70-130	2	25
1,2-Dichloroethane	96	99	70-130	3	25
1,1,1-Trichloroethane	95	99	70-130	4	25
Bromodichloromethane	90	93	70-130	3	25
trans-1,3-Dichloropropene	81	89	70-130	9	25
cis-1,3-Dichloropropene	92	96	70-130	4	25
Bromoform	70	86	70-130	21	50
1,1,2,2-Tetrachloroethane	**56**	**68**	70-130	19	25
Chloromethane	80	84	70-130	5	50
Vinyl chloride	86	84	70-130	2	25
Chloroethane	91	95	70-130	4	25
1,1-Dichloroethene	100	99	70-130	1	25
trans-1,2-Dichloroethene	95	94	70-130	1	25

Lab Control Sample Analysis
Batch Quality Control

Project Name: ISCO SAMPLING
Project Number: 0061882.01
Lab Number: L0719063
Report Date: 12/29/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 02-08,10-17 Batch: WG307140-1 WG307140-2					
Trichloroethene	96	97	70-130	1	25
1,2-Dichlorobenzene	75	83	70-130	10	25
1,3-Dichlorobenzene	88	95	70-130	8	25
1,4-Dichlorobenzene	90	96	70-130	6	25
cis-1,2-Dichloroethene	96	99	70-130	3	25
Dichlorodifluoromethane	**61**	**62**	70-130	2	50
2,2-Dichloropropane	101	102	70-130	1	50
1,2-Dibromoethane	87	94	70-130	8	25
1,3-Dichloropropane	86	91	70-130	6	25
1,1,1,2-Tetrachloroethane	80	90	70-130	12	25
o-Chlorotoluene	83	91	70-130	9	25
p-Chlorotoluene	87	94	70-130	8	25
Hexachlorobutadiene	79	85	70-130	7	25
1,2,4-Trichlorobenzene	89	102	70-130	14	25

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		102		70-130
Toluene-d8	92		94		70-130
4-Bromofluorobenzene	90		95		70-130
Dibromofluoromethane	102		101		70-130

Project Name: ISCO SAMPLING
Project Number: 0061882.01

Lab Number: L0719063
Report Date: 12/29/07

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0719063-01A	Vial Na2S2O3 preserved	A	N/A	2 C	Y	Absent	HOLD
L0719063-01B	Vial Na2S2O3 preserved	A	N/A	2 C	Y	Absent	HOLD
L0719063-02A	Vial Na2S2O3 preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719063-02B	Vial Na2S2O3 preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719063-03A	Vial Na2S2O3 preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719063-03B	Vial Na2S2O3 preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719063-04A	Vial Na2S2O3 preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719063-04B	Vial Na2S2O3 preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719063-05A	Vial HCl preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719063-05B	Vial HCl preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719063-06A	Vial Na2S2O3 preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719063-06B	Vial Na2S2O3 preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719063-07A	Vial Na2S2O3 preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719063-07B	Vial Na2S2O3 preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719063-08A	Vial HCl preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719063-08B	Vial HCl preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719063-09A	Vial Na2S2O3 preserved	A	N/A	2 C	Y	Absent	HOLD
L0719063-09B	Vial Na2S2O3 preserved	A	N/A	2 C	Y	Absent	HOLD
L0719063-10A	Vial Na2S2O3 preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719063-10B	Vial Na2S2O3 preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719063-11A	Vial HCl preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719063-11B	Vial HCl preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719063-12A	Vial Na2S2O3 preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719063-12B	Vial Na2S2O3 preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719063-13A	Vial HCl preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719063-13B	Vial HCl preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719063-14A	Vial Na2S2O3 preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719063-14B	Vial Na2S2O3 preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719063-15A	Vial HCl preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719063-15B	Vial HCl preserved	A	N/A	2 C	Y	Absent	MCP-8260-04

Project Name: ISCO SAMPLING
Project Number: 0061882.01

Lab Number: L0719063
Report Date: 12/29/07

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0719063-16A	Vial Na2S2O3 preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719063-16B	Vial Na2S2O3 preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719063-17A	Vial HCl preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719063-17B	Vial HCl preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719063-18A	Vial Na2S2O3 preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719063-18B	Vial Na2S2O3 preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719063-19A	Vial HCl preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719063-19B	Vial HCl preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719063-20A	Vial Na2S2O3 preserved	A	N/A	2 C	Y	Absent	HOLD
L0719063-20B	Vial Na2S2O3 preserved	A	N/A	2 C	Y	Absent	HOLD
L0719063-21A	Vial HCl preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719063-21B	Vial HCl preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719063-22A	Vial HCl preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719063-22B	Vial HCl preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719063-23A	Vial HCl preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719063-23B	Vial HCl preserved	A	N/A	2 C	Y	Absent	MCP-8260-04
L0719063-24A	Vial Na2S2O3 preserved	A	N/A	2 C	Y	Absent	MCP-8260-04

Project Name:	ISCO SAMPLING	**Lab Number:**	L0719063
Project Number:	0061882.01	**Report Date:**	12/29/07

GLOSSARY

Acronyms

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NI - Not Ignitable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

ND - Not detected at the reported detection limit for the sample.

RDL - Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

The following data qualifiers have been identified for use under the CT DEP Reasonable Confidence Protocols.

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

J - Estimated value. The analyte was tentatively identified; the quantitation is an estimation. (Tentatively identified compounds only.)

Standard Qualifiers

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

Project Name:	ISCO SAMPLING	**Lab Number:**	L0719063
Project Number:	0061882.01	**Report Date:**	12/29/07

REFERENCES

60 Quality Assurance and Quality Control Requirements and Performance Standards for SW-846 Methods. MADEP BWSC. WSC-CAM-IIA (Revision 4), WSC-CAM-V C (Revision 2), WSC-CAM-IIIA (Revision 5). May 2004.

LIMITATION OF LIABILITIES

Alpha Woods Hole Labs performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Woods Hole Labs be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Woods Hole Labs.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

12290711:40

CHAIN OF CUSTODY

PAGE 1 OF 3

Date Rec'd in Lab: 12/21

ALPHA Job #: L071 9063

ALPHA ANALYTICAL

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193

MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: ERM-BOSTON

Address: 399 BOYLSTON ST, 6TH FLOOR BOSTON, MA 02116

Phone: (617) 646-7800

Fax: (617) 267-6447

Email: jason.flattery@erm.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: ISCO SAMPLING

Project Location: RAYTHEON - WAYLAND

Project #: 0061882.01

Project Manager: JASON FLATTERY

ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 1/2 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL

☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria
MA MCP	METHOD 1 GW 1

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

☒ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS: CVOCs 8021 by 8260; CVOCs 8021 by 3260

SAMPLE HANDLING

Filtration: ☐ Done ☒ Not needed ☐ Lab to do

Preservation: ☐ Lab to do (Please specify below)

JDF

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	CVOCs 8021 by 8260	CVOCs 8021 by 3260	Sample Specific Comments	TOTAL # BOTTLES
9063-1	IP-1-20071220-01	12/20/07	12:30	GW	MS	2			2
2	IP-2-20071220-01	12/20/07	12:20			2			2
3	IP-3D-20071220-01		10:10			2			2
4	IP-4-20071220-01		10:25			2			2
5	IP-5-20071220-01		9:25				2		2
6	IP-9S-20071220-01		11:50			2			2
7	IP-9D-20071220-01		11:45			2			2
8	IP-13-20071220-01		9:15				2		2
9	MW-405S-20071220-01		8:25			2			2
10	MW-118-20071220-01		12:10			2			2

Container Type	V	V
Preservative	B	H

JDF

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	12/21/07 10:45	[signature]	12/21/07 10:45
[signature]	12/21/07	[signature]	12/21 1835

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

FORM NO: 01-01 (rev. 30-JUL-07)

12290711:40

CHAIN OF CUSTODY

PAGE 2 OF 3

Date Rec'd in Lab: 12/21

ALPHA Job #: L0719063

ALPHA ANALYTICAL

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193

MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: ERM-BOSTON

Address: 399 BOYLSTON ST, 6TH FLOOR BOSTON, MA 02116

Phone: (617) 646-7800

Fax: (617) 267-6447

Email: jason.flattery@erm.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: ISCO SAMPLING

Project Location: RAYTHEON - WAYLAND

Project #: 0061882.01

Project Manager: JASON FLATTERY

ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 1/2 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL

☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program: MA MCP

Criteria: METHOD 1 GW1

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

☒ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	ANALYSIS: CVOC 8021c by 8260	ANALYSIS: CVOC 8021c by 8260	Sample Specific Comments	TOTAL # BOTTLES
9063.11	IP-27-20071220-01	12/20/07	8:20	GW	MS	2			2
12	IP-28-20071220-01		11:50		JDF		2		2
13	IP-30-20071220-01		10:10		JDF	2			2
14	IP-33-20071220-01		10:05		JDF		2		2
15	IP-35-20071220-01		8:42		JDF	2			2
16	IP-36-20071220-01		13:10		MS		2		2
17	IP-38-20071220-01		12:40		JDF	2			2
18	IP-37-20071220-01		11:55		JDF		2		2
19	IP-39-20071220-01		12:45		JDF	2			2
20	DUP-001-20071220-01		0:00		MS		2		2

SAMPLE HANDLING

Filtration
☐ Done
☒ Not needed
☐ Lab to do

Preservation
☐ Lab to do
(Please specify below)

Container Type	V	V
Preservative	B	H

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	12/21/07 10:45	[signature]	12/21 1045
[signature]	12/21/07 7:00	[signature]	12/21 1835

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

FORM NO: 01-01 (rev. 30-JUL-07)

12290711:40

CHAIN OF CUSTODY

PAGE 3 OF 3

Date Rec'd in Lab: 12/21

ALPHA Job #: L0719063

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: ERM - BOSTON
Address: 399 BOYLSTON ST 6TH FLOR BOSTON, MA 02116
Phone: (617) 646-7800
Fax: (617) 267-6447
Email: jason.flattery@erm.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: ISCO SAMPLING
Project Location: RAYTHEON - WAYLAND
Project #: 0061332.01
Project Manager: JASON FLATTERY
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 1/2 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria
MA MCP	METHOD 1 GW1

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

☒ Yes ☐ No Are MCP Analytical Methods Required?
☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs 8021c by 8260	VOCs 8021c by 8260					Sample Specific Comments	TOTAL # BOTTLES
9063.21	DUP-002-20071220-01	12/20/07	0:00	GW	MS	2							2
22	DUP-003-20071220-01	↓	24:00	↓	JDF	2							2
23	DUP-004-20071220-01	↓	24:00	↓	JDF	2							2
24	TB-001-20071220-01	12/19/07	10:10	TB	DS		1						1

SAMPLE HANDLING
Filtration
☐ Done
☒ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

JDF

Container Type	V	V
Preservative	B	H

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible]	12/21/07 1043	[illegible]	10/21/07 [illegible]
[illegible]	12/21/07 [illegible]	[illegible]	12/21 1835

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

FORM NO: 01-01 (rev. 30-JUL-07)

Appendix C
Vertical Profiler Logs and Analytical Reports

Onsite Laboratory Results Mobile Laboratory

Client: ERM
Location: Wayland, MA
Project ID: ERM-Wayland GW Profiling
SEI Project No: 081992-R
Matrix: Groundwater

Report Date: 2/1/2008
Date(s) Sampled: 01/29/2008 - 01/29/2008
Date(s) Analyzed: 01/31/0108 - 02/01/2008
Test Method: D6520,SW8260B
Results Given as: ug/L

Hole ID: B-600

Depth:	CAS #	000.00		04050	
Analysis Date:		01/30/08	EB	01/30/08	N
Vinyl Chloride	75-01-4	2.0 U		2.0 U	
1,1-Dichloroethene	75-35-4	2.0 U		3.9	
trans-1,2-Dichloroethene	156-60-5	2.0 U		2.0 U	
1,1-Dichloroethane	75-34-3	2.0 U		2.0 U	
cis-1,2-Dichloroethene	156-59-2	2.0 U		2.3	
1,1,1-Trichloroethane	71-55-6	2.0 U		2.0 U	
Trichloroethene	79-01-6	2.0 U		85	
Tetrachloroethene	127-18-4	2.0 U		8.6	
Bromofluorobenzene (SS)	460-00-4	104 %		107 %	

U = Not detected above the specified reporting limit.
J = Estimated value.
E = Estimated value, marginally above the calibration levels.
D = Sample analyzed at a dilution.

N = Normal sample.
EB = Equipment Blank
B = Indicates blank contamination.

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Onsite Laboratory Results Mobile Laboratory

Client:	**ERM**	**Report Date:**	**2/1/2008**
Location:	**Wayland, MA**	**Date(s) Sampled:**	**01/29/2008 - 01/30/2008**
Project ID:	**ERM-Wayland GW Profiling**	**Date(s) Analyzed:**	**01/31/0108 - 02/01/2008**
SEI Project No:	**081992-R**	**Test Method:**	**D6520,SW8260B**
Matrix:	**Groundwater**	**Results Given as:**	**ug/L**

Hole ID: **B-601**

Depth:		000.00		01800		02300		04102		04608		05105		05606		06101		06600	
Analysis Date:	CAS #	01/30/08	EB	01/30/08	N	01/30/08	N	01/30/08	N	01/30/08	N	01/30/08	N	01/30/08	N	01/30/08	N	01/30/08	N
Vinyl Chloride	75-01-4	2.0 U		2.0 U		2.0 U		2.0 U		2.0 U		2.0 U		2.0 U		2.0 U		2.0 U	
1,1-Dichloroethene	75-35-4	2.0 U		2.0 U		2.0 U		2.0 U		2.0 U		2.0 U		2.0 U		2.0 U		2.0 U	
trans-1,2-Dichloroethene	156-60-5	2.0 U		2.0 U		2.0 U		2.0 U		2.0 U		2.0 U		2.0 U		2.0 U		2.0 U	
1,1-Dichloroethane	75-34-3	2.0 U		2.0 U		2.0 U		2.0 U		2.0 U		2.0 U		2.0 U		2.0 U		2.0 U	
cis-1,2-Dichloroethene	156-59-2	2.0 U		2.0 U		2.0 U		2.4		5.6		8.2		11		2.0 U		2.0 U	
1,1,1-Trichloroethane	71-55-6	2.0 U		2.0 U		2.0 U		2.0 U		2.0 U		2.0 U		2.0 U		2.0 U		2.0 U	
Trichloroethene	79-01-6	2.0 U		24		2.0 U		62		54		98		110		2.0 U		2.0 U	
Tetrachloroethene	127-18-4	2.0 U		2.0 U		2.0 U		3.2		7.2		17		11		2.0 U		2.0 U	
Bromofluorobenzene (SS)	460-00-4	110 %		115 %		105 %		105 %		106 %		110 %		110 %		105 %		118 %	

U = Not detected above the specified reporting limit.
J = Estimated value.
E = Estimated value, marginally above the calibration levels.
D = Sample analyzed at a dilution.

N = Normal sample.
EB = Equipment Blank
B = Indicates blank contamination.

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Onsite Laboratory Results Mobile Laboratory

Client:	**ERM**	**Report Date:**	**2/1/2008**
Location:	**Wayland, MA**	**Date(s) Sampled:**	**01/29/2008 - 01/30/2008**
Project ID:	**ERM-Wayland GW Profiling**	**Date(s) Analyzed:**	**01/31/0108 - 02/01/2008**
SEI Project No:	**081992-R**	**Test Method:**	**D6520,SW8260B**
Matrix:	**Groundwater**	**Results Given as:**	**ug/L**

Hole ID: **B-602**

Depth:		02400		03630		04130		04630		05120		05620		06130	
Analysis Date:	CAS #	01/30/08	N	01/30/08	N	01/30/08	N	01/30/08	N	01/30/08	N	01/30/08	N	01/30/08	N
Vinyl Chloride	75-01-4	2.0 U		2.0 U		2.0 U		2.0 U		2.0 U		2.0 U		2.0 U	
1,1-Dichloroethene	75-35-4	2.0 U		2.2		2.9		2.0 U		2.0 U		2.0 U		2.0 U	
trans-1,2-Dichloroethene	156-60-5	2.0 U		2.0 U		2.0 U		2.0 U		2.0 U		2.0 U		2.0 U	
1,1-Dichloroethane	75-34-3	2.0 U		2.0 U		2.0 U		2.0 U		2.0 U		2.0 U		2.0 U	
cis-1,2-Dichloroethene	156-59-2	2.0 U		2.2		3.7		2.0 U		2.0 U		2.0 U		2.0 U	
1,1,1-Trichloroethane	71-55-6	2.0 U		2.0 U		2.0 U		2.0 U		2.0 U		2.0 U		2.0 U	
Trichloroethene	79-01-6	17		150		58		2.0 U		2.0 U		2.0 U		2.0 U	
Tetrachloroethene	127-18-4	2.0 U		6.9		5.5		2.0 U		2.0 U		2.0 U		2.0 U	
Bromofluorobenzene (SS)	460-00-4	100 %		106 %		107 %		110 %		103 %		108 %		106 %	

U = Not detected above the specified reporting limit.
J = Estimated value.
E = Estimated value, marginally above the calibration levels.
D = Sample analyzed at a dilution.

N = Normal sample.
EB = Equipment Blank
B = Indicates blank contamination.

STONE ENVIRONMENTAL INC

Onsite Laboratory Results Mobile Laboratory

Client:	**ERM**	**Report Date:**	**2/1/2008**
Location:	**Wayland, MA**	**Date(s) Sampled:**	**01/30/2008 - 01/31/2008**
Project ID:	**ERM-Wayland GW Profiling**	**Date(s) Analyzed:**	**01/31/0108 - 02/01/2008**
SEI Project No:	**081992-R**	**Test Method:**	**D6520,SW8260B**
Matrix:	**Groundwater**	**Results Given as:**	**ug/L**

Hole ID: **B-603**

Depth:		03000		03400		04166		04678		05204		05204		05708		06201	
Analysis Date:	CAS #	01/30/08	N	01/30/08	N	01/30/08	N	01/30/08	N	01/31/08	N	01/31/08	FD	01/31/08	N	01/31/08	N
Vinyl Chloride	75-01-4	2.0 U		2.0 U		2.0 U		2.0 U		2.0 U		2.0 U		2.0 U		2.0 U	
1,1-Dichloroethene	75-35-4	2.0 U		2.0 U		2.0 U		2.0 U		2.0 U		2.0 U		2.0 U		2.0 U	
trans-1,2-Dichloroethene	156-60-5	2.0 U		2.0 U		2.0 U		2.0 U		2.0 U		2.0 U		2.0 U		2.0 U	
1,1-Dichloroethane	75-34-3	2.0 U		2.0 U		2.0 U		2.0 U		2.0 U		2.0 U		2.0 U		2.0 U	
cis-1,2-Dichloroethene	156-59-2	2.0 U		2.0 U		2.0 U		2.0 U		2.0 U		2.0 U		2.0 U		2.0 U	
1,1,1-Trichloroethane	71-55-6	2.0 U		2.0 U		2.0 U		2.0 U		2.0 U		2.0 U		2.0 U		2.0 U	
Trichloroethene	79-01-6	2.0 U		2.0 U		80		5.6		2.0 U		2.0 U		2.0 U		2.0 U	
Tetrachloroethene	127-18-4	2.0 U		2.0 U		2.0 U		2.0 U		2.0 U		2.0 U		2.0 U		2.0 U	
Bromofluorobenzene (SS)	460-00-4	109 %		114 %		114 %		112 %		107 %		107 %		118 %		104 %	

U = Not detected above the specified reporting limit.
J = Estimated value.
E = Estimated value, marginally above the calibration levels.
D = Sample analyzed at a dilution.

N = Normal sample.
EB = Equipment Blank
B = Indicates blank contamination.

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Onsite Laboratory Results Mobile Laboratory

Client:	**ERM**	**Report Date:**	**2/1/2008**
Location:	**Wayland, MA**	**Date(s) Sampled:**	**01/31/2008 - 01/31/2008**
Project ID:	**ERM-Wayland GW Profiling**	**Date(s) Analyzed:**	**01/31/0108 - 02/01/2008**
SEI Project No:	**081992-R**	**Test Method:**	**D6520,SW8260B**
Matrix:	**Groundwater**	**Results Given as:**	**ug/L**

Hole ID: **B-604**

Depth:	CAS #	02220		03960		04420		05000		05500	
Analysis Date:		01/31/08	N	01/31/08	N	01/31/08	N	01/31/08	N	01/31/08	N
Vinyl Chloride	75-01-4	2.0 U		2.0 U		2.0 U		2.0 U		2.0 U	
1,1-Dichloroethene	75-35-4	2.0 U		2.0 U		2.0 U		2.0 U		2.0 U	
trans-1,2-Dichloroethene	156-60-5	2.0 U		2.0 U		2.0 U		2.0 U		2.0 U	
1,1-Dichloroethane	75-34-3	2.0 U		2.0 U		2.0 U		2.0 U		2.0 U	
cis-1,2-Dichloroethene	156-59-2	2.0 U		3.4 J		2.0 U		2.0 U		2.0 U	
1,1,1-Trichloroethane	71-55-6	2.0 U		2.0 U		2.0 U		2.0 U		2.0 U	
Trichloroethene	79-01-6	12		82		8.8		2.0 U		2.0 U	
Tetrachloroethene	127-18-4	2.0 U		2.0 U		2.0 U		2.0 U		2.0 U	
Bromofluorobenzene (SS)	460-00-4	117 %		119 %		122 %		124 %		100 %	

U = Not detected above the specified reporting limit.
J = Estimated value.
E = Estimated value, marginally above the calibration levels.
D = Sample analyzed at a dilution.

N = Normal sample.
EB = Equipment Blank
B = Indicates blank contamination.

STONE ENVIRONMENTAL INC

Onsite Laboratory Results Mobile Laboratory

Client:	**ERM**	**Report Date:**	**2/1/2008**
Location:	**Wayland, MA**	**Date(s) Sampled:**	**01/31/2008 - 01/31/2008**
Project ID:	**ERM-Wayland GW Profiling**	**Date(s) Analyzed:**	**01/31/0108 - 02/01/2008**
SEI Project No:	**081992-R**	**Test Method:**	**D6520,SW8260B**
Matrix:	**Groundwater**	**Results Given as:**	**ug/L**

Hole ID: **B-605**

Depth:	CAS #	02620		02620		03540		04280		04750	
Analysis Date:		01/31/08	N	01/31/08	FD	01/31/08	N	01/31/08	N	01/31/08	N
Vinyl Chloride	75-01-4	2.0 U		2.0 U		2.0 U		2.0 U		2.0 U	
1,1-Dichloroethene	75-35-4	3.2		3.7		31		3.1		2.0 U	
trans-1,2-Dichloroethene	156-60-5	2.0 U		2.0 U		2.0 U		2.0 U		2.0 U	
1,1-Dichloroethane	75-34-3	2.0 U		2.0 U		6.7		2.0 U		2.0 U	
cis-1,2-Dichloroethene	156-59-2	2.0 U		2.0 U		11		11		2.0 U	
1,1,1-Trichloroethane	71-55-6	2.0 U		2.0 U		2.0 U		2.0 U		2.0 U	
Trichloroethene	79-01-6	17		19		94		180		2.0 U	
Tetrachloroethene	127-18-4	2.0 U		2.0 U		2.0 U		2.0 U		2.0 U	
Bromofluorobenzene (SS)	460-00-4	112 %		125 %		115 %		121 %		127 %	

U = Not detected above the specified reporting limit.
J = Estimated value.
E = Estimated value, marginally above the calibration levels.
D = Sample analyzed at a dilution.

N = Normal sample.
EB = Equipment Blank
B = Indicates blank contamination.

Onsite Laboratory Results Mobile Laboratory

Client:	**ERM**	**Report Date:**	**2/1/2008**
Location:	**Wayland, MA**	**Date(s) Sampled:**	**01/31/2008 - 02/01/2008**
Project ID:	**ERM-Wayland GW Profiling**	**Date(s) Analyzed:**	**01/31/0108 - 02/01/2008**
SEI Project No:	**081992-R**	**Test Method:**	**D6520,SW8260B**
Matrix:	**Groundwater**	**Results Given as:**	**ug/L**

Hole ID: **B-606**

Depth:	CAS #	02020		02900		02900		03200	
Analysis Date:		02/01/08	N	02/01/08	N	02/01/08	FD	02/01/08	N
Vinyl Chloride	75-01-4	2.0 U		2.0 U		2.0 U		2.0 U	
1,1-Dichloroethene	75-35-4	2.0 U		2.0 U		2.0 U		2.0 U	
trans-1,2-Dichloroethene	156-60-5	2.0 U		2.0 U		2.0 U		2.0 U	
1,1-Dichloroethane	75-34-3	2.0 U		2.0 U		2.0 U		2.0 U	
cis-1,2-Dichloroethene	156-59-2	2.0 U		2.0 U		2.0 U		2.0 U	
1,1,1-Trichloroethane	71-55-6	2.0 U		2.0 U		2.0 U		2.0 U	
Trichloroethene	79-01-6	40		76		68		15	
Tetrachloroethene	127-18-4	2.0 U		2.0 U		2.0 U		2.0 U	
Bromofluorobenzene (SS)	460-00-4	115 %		118 %		119 %		108 %	

U = Not detected above the specified reporting limit.
J = Estimated value.
E = Estimated value, marginally above the calibration levels.
D = Sample analyzed at a dilution.

N = Normal sample.
EB = Equipment Blank
B = Indicates blank contamination.

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Onsite Laboratory Results Mobile Laboratory

Client: ERM
Location: Wayland, MA
Project ID: ERM-Wayland GW Profiling
SEI Project No: 081992-R
Matrix: Groundwater

Report Date: 2/1/2008
Date(s) Sampled: 02/01/2008 - 02/01/2008
Date(s) Analyzed: 01/31/0108 - 02/01/2008
Test Method: D6520,SW8260B
Results Given as: ug/L

Hole ID: B-607

Depth:	CAS #	02220		02840		02840	
Analysis Date:		02/01/08	N	02/01/08	N	02/01/08	FD
Vinyl Chloride	75-01-4	2.0 U		2.0 U		2.0 U	
1,1-Dichloroethene	75-35-4	2.0 U		2.0 U		2.0 U	
trans-1,2-Dichloroethene	156-60-5	2.0 U		2.0 U		2.0 U	
1,1-Dichloroethane	75-34-3	2.0 U		2.0 U		2.0 U	
cis-1,2-Dichloroethene	156-59-2	2.0 U		2.0 U		2.0 U	
1,1,1-Trichloroethane	71-55-6	2.0 U		2.0 U		2.0 U	
Trichloroethene	79-01-6	2.0 U		2.0 U		2.0 U	
Tetrachloroethene	127-18-4	2.0 U		2.0 U		2.0 U	
Bromofluorobenzene (SS)	460-00-4	105 %		104 %		108 %	

U = Not detected above the specified reporting limit.
J = Estimated value.
E = Estimated value, marginally above the calibration levels.
D = Sample analyzed at a dilution.

N = Normal sample.
EB = Equipment Blank
B = Indicates blank contamination.

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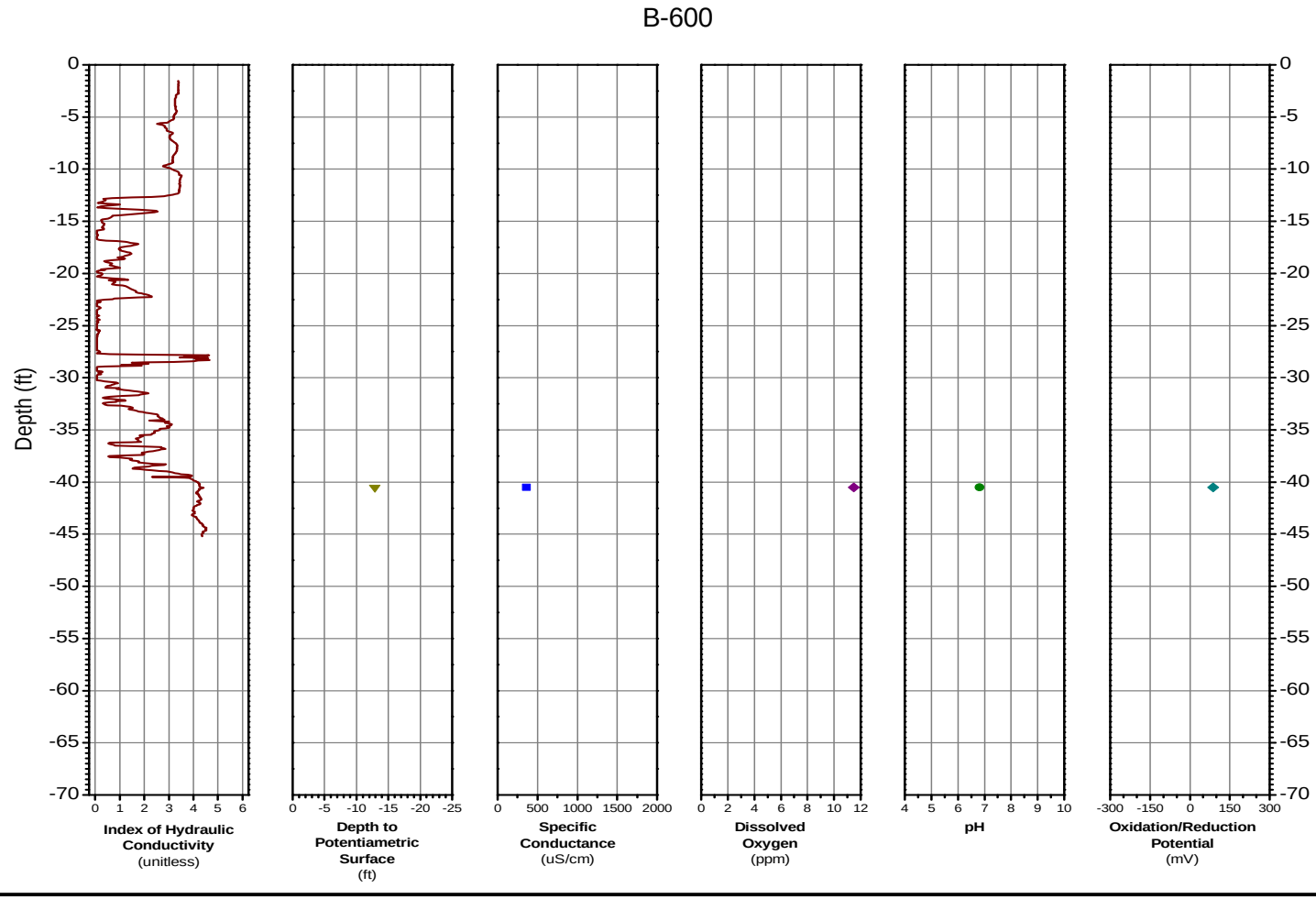


FIGURE B-600, I_K RECORD AND PHYSICO-CHEMICAL PARAMETERS

Dates Sampled : 1/29/2008

ERM / Wayland

Source: SEI groundwater quality profiling data
Path: O:\Proj-08\IR\1992-R ERM Wayland 2008\F-Data\Profile\Origin\PhysChem_B-600.opj
Date: 02/05/08 jab

STONE ENVIRONMENTAL INC

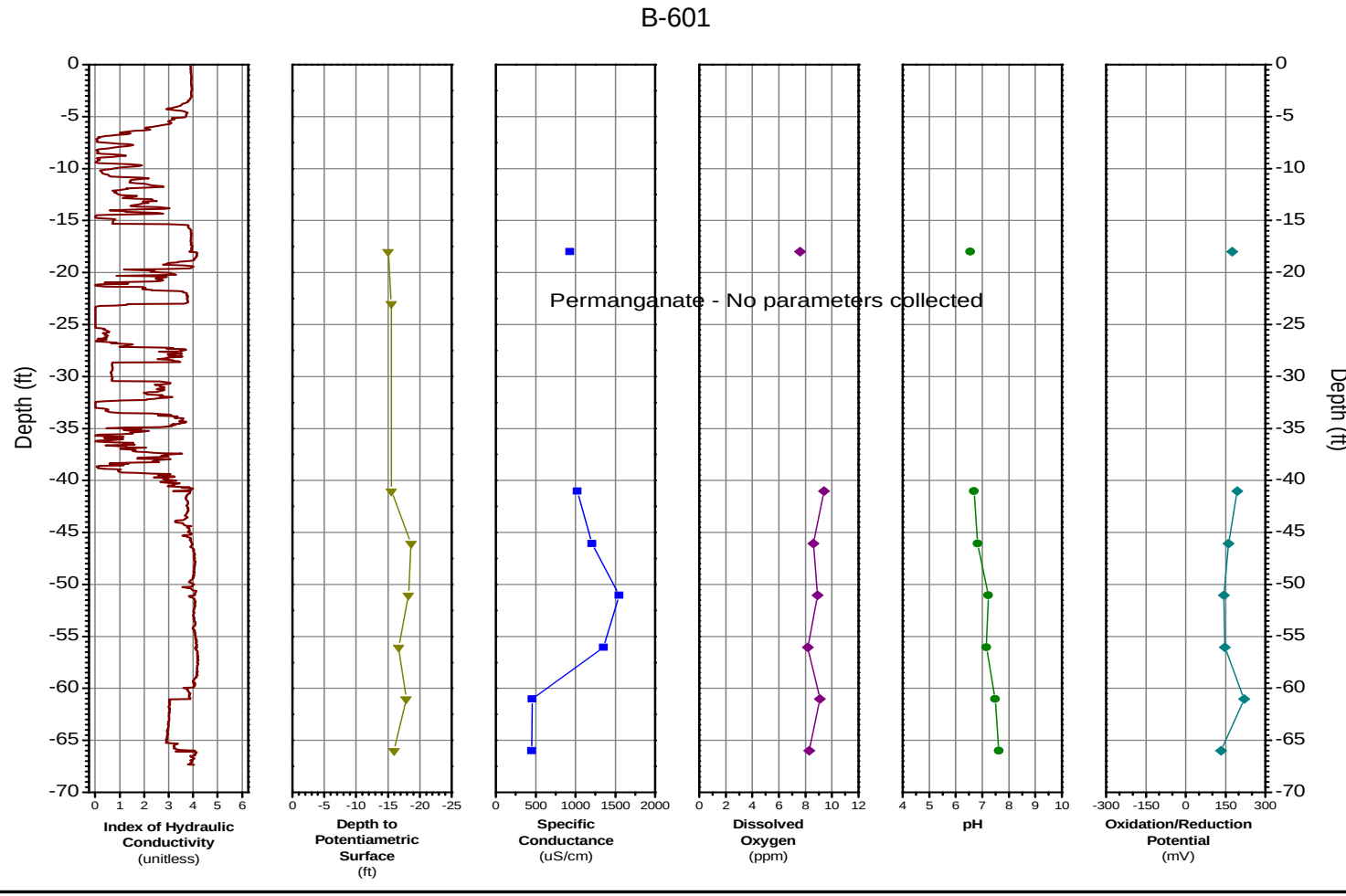


FIGURE B-601, I_K RECORD AND PHYSICO-CHEMICAL PARAMETERS

Dates Sampled : 1/29/2008 - 1/30/2008

ERM / Wayland

Source: SEI groundwater quality profiling data
Path: O:\Proj-08\IR\1992-R ERM Wayland 2008\F-Data\Profile\Origin\PhysChem_B-601.opj
Date: 1/30/08 VLD

STONE ENVIRONMENTAL INC

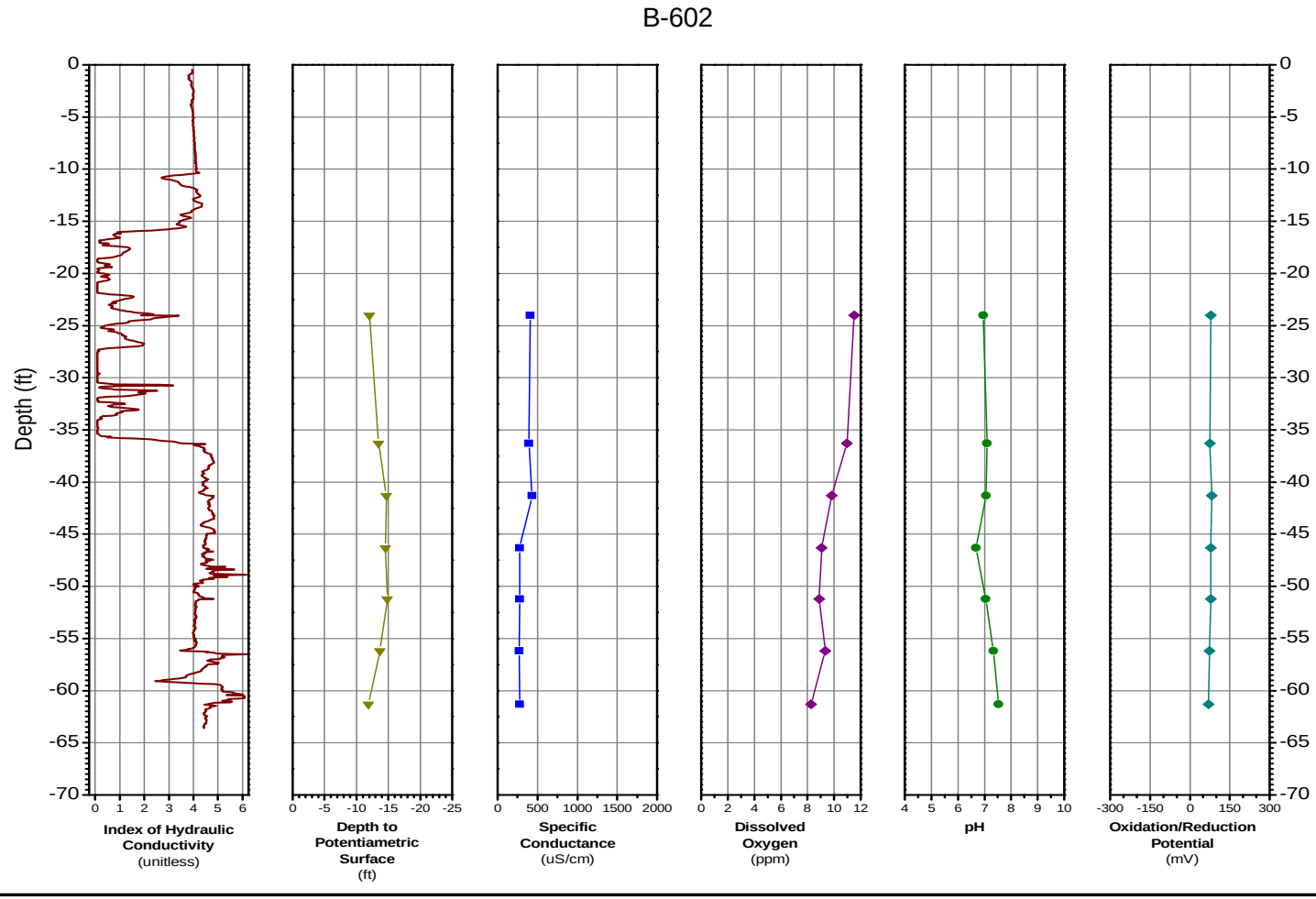


FIGURE B-602, I_K RECORD AND PHYSICO-CHEMICAL PARAMETERS

Dates Sampled : 1/29/2008 - 1/30/2008

ERM / Wayland

Source: SEI groundwater quality profiling data
Path: O:\Proj-08\IR\1992-R ERM Wayland 2008\F-Data\Profile\Origin\PhysChem_B-602.opj
Date: 02/05/08 jab

STONE ENVIRONMENTAL INC

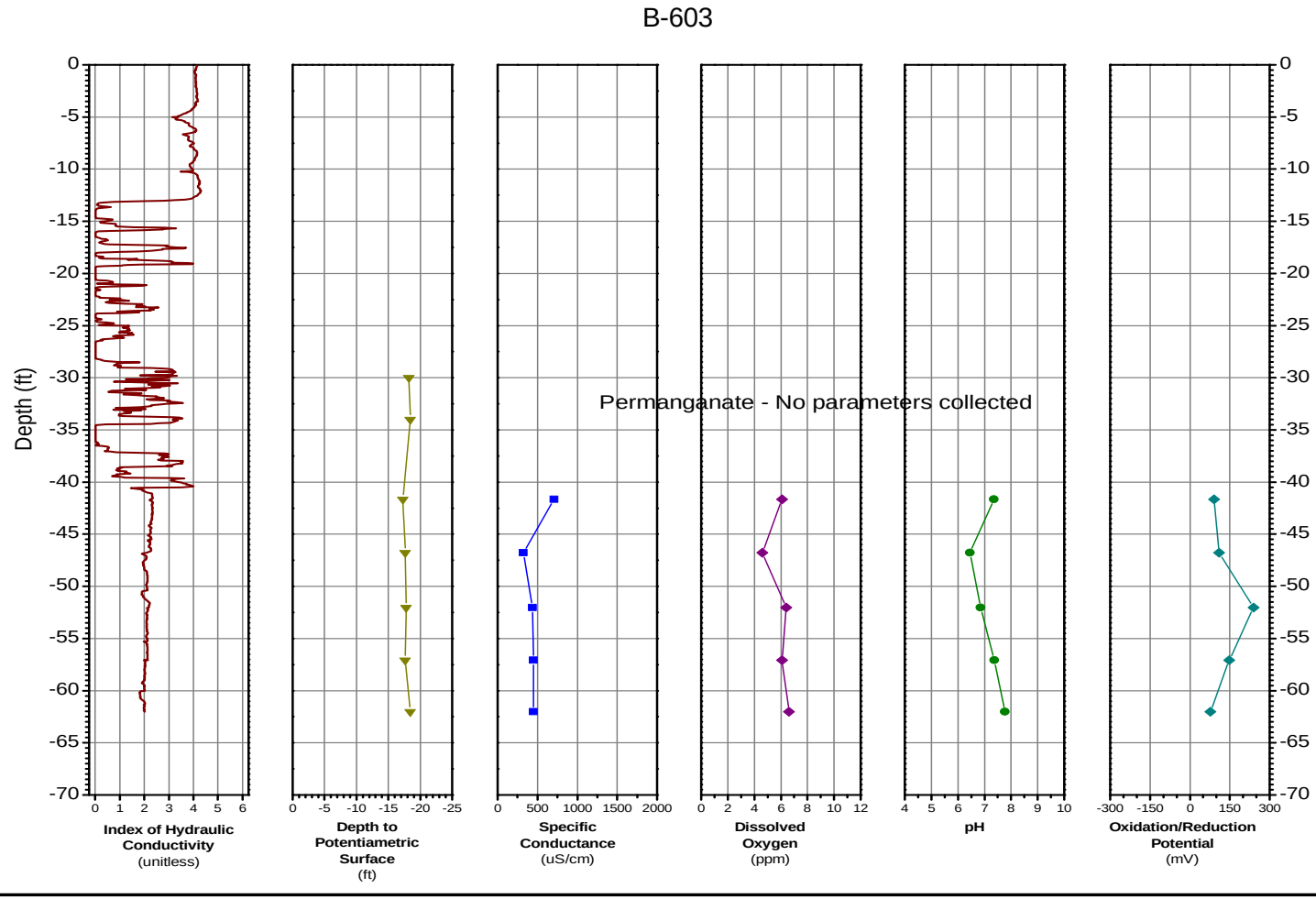


FIGURE B-603, I_K RECORD AND PHYSICO-CHEMICAL PARAMETERS

Dates Sampled : 1/30/2008

ERM / Wayland

Source: SEI groundwater quality profiling data
Path: O:\Proj-08\IR\1992-R ERM Wayland 2008\F-Data\Profile\Origin\PhysChem_B-603.opj
Date: 02/05/08 jab

STONE ENVIRONMENTAL INC

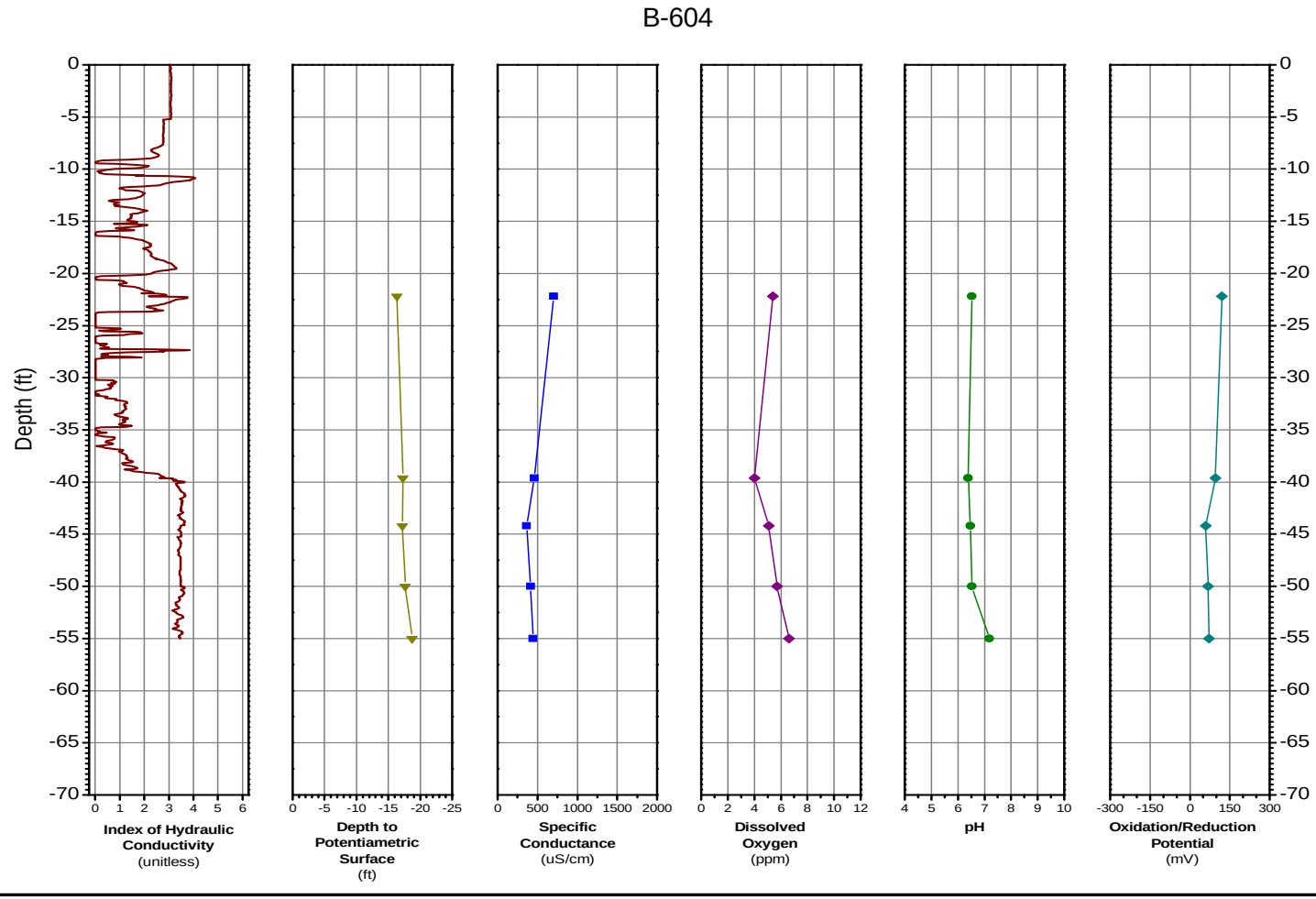


FIGURE B-604, I_K RECORD AND PHYSICO-CHEMICAL PARAMETERS

Dates Sampled : 1/31/2008

ERM / Wayland

Source: SEI groundwater quality profiling data
Path: O:\Proj-08\IR\1992-R ERM Wayland 2008\F-Data\Profile\Origin\PhysChem_B-604.opj
Date: 1/31/08 vld

STONE ENVIRONMENTAL INC

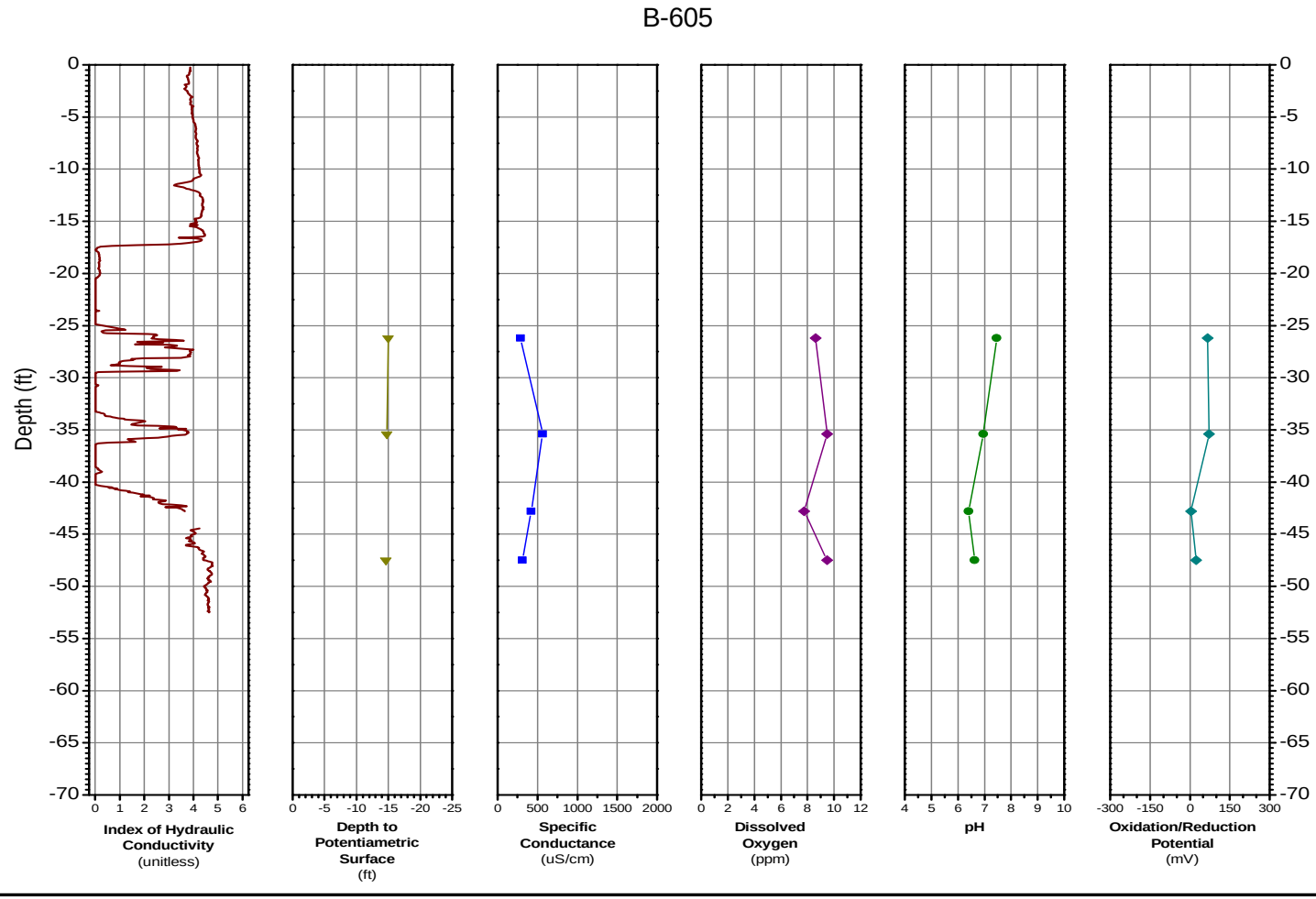


FIGURE B-605, I_K RECORD AND PHYSICO-CHEMICAL PARAMETERS

Dates Sampled : 1/31/2008

ERM / Wayland

Source: SEI groundwater quality profiling data
Path: O:\Proj-08\IR\1992-R ERM Wayland 2008\F-Data\Profile\Origin\PhysChem_B-605.opj
Date: 02/01/08 jab

STONE ENVIRONMENTAL INC

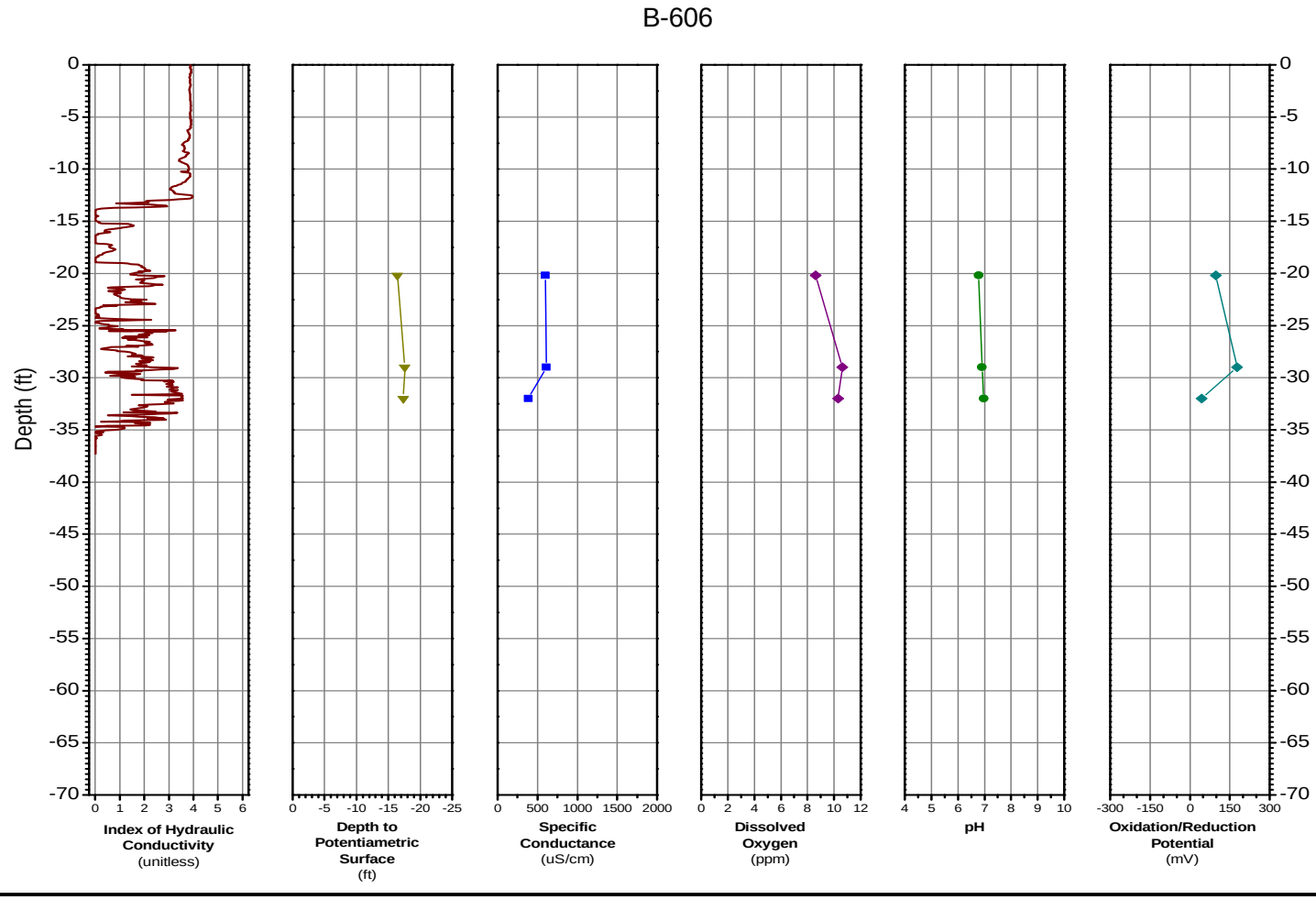


FIGURE B-606, I_K RECORD AND PHYSICO-CHEMICAL PARAMETERS

Dates Sampled : 1/31/2008 - 2/01/2008

ERM / Wayland

Source: SEI groundwater quality profiling data
Path: O:\Proj-08\IR\1992-R ERM Wayland 2008\F-Data\Profile\Origin\PhysChem_B-606.opj
Date: 2/1/08 VLD

STONE ENVIRONMENTAL INC

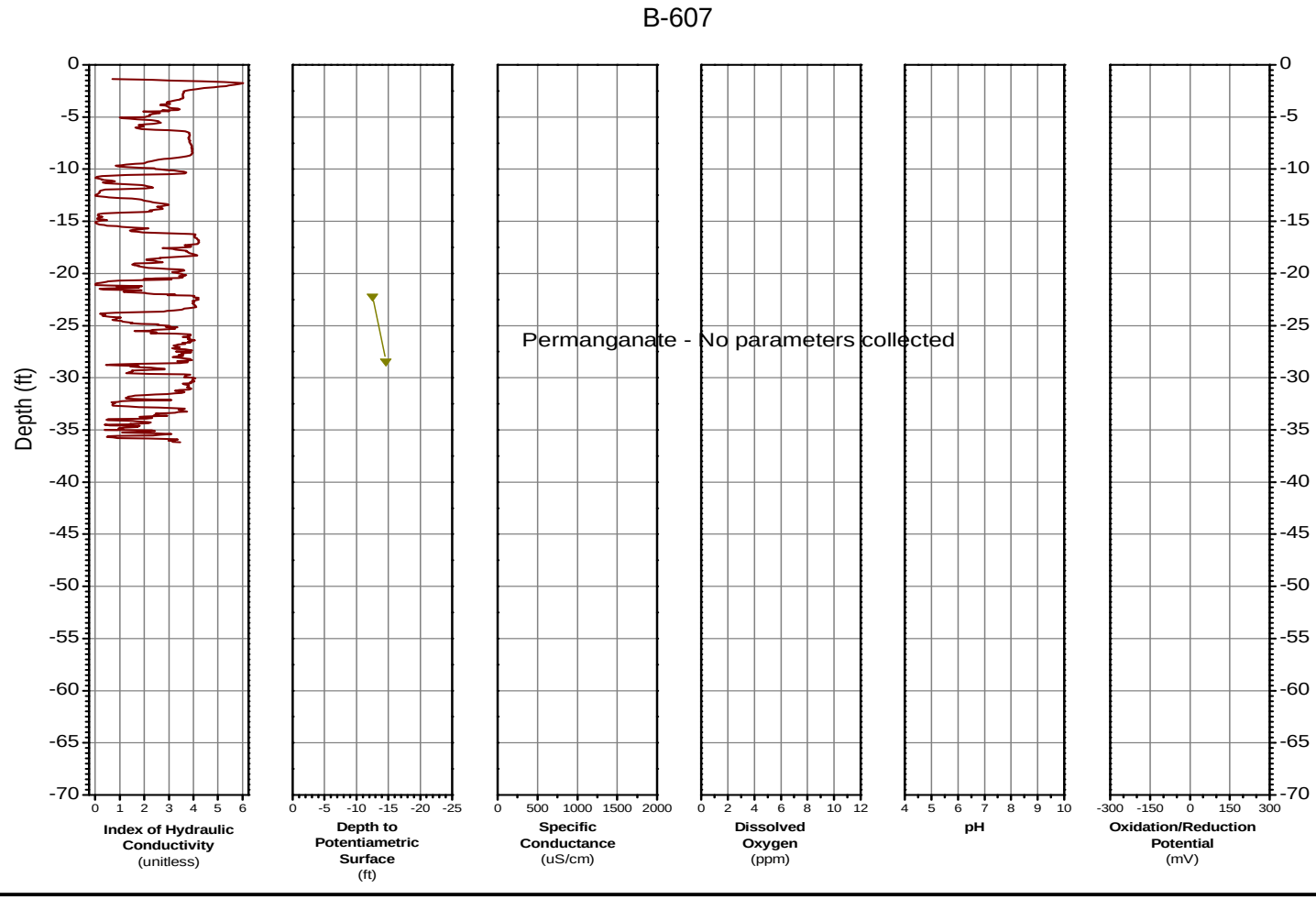


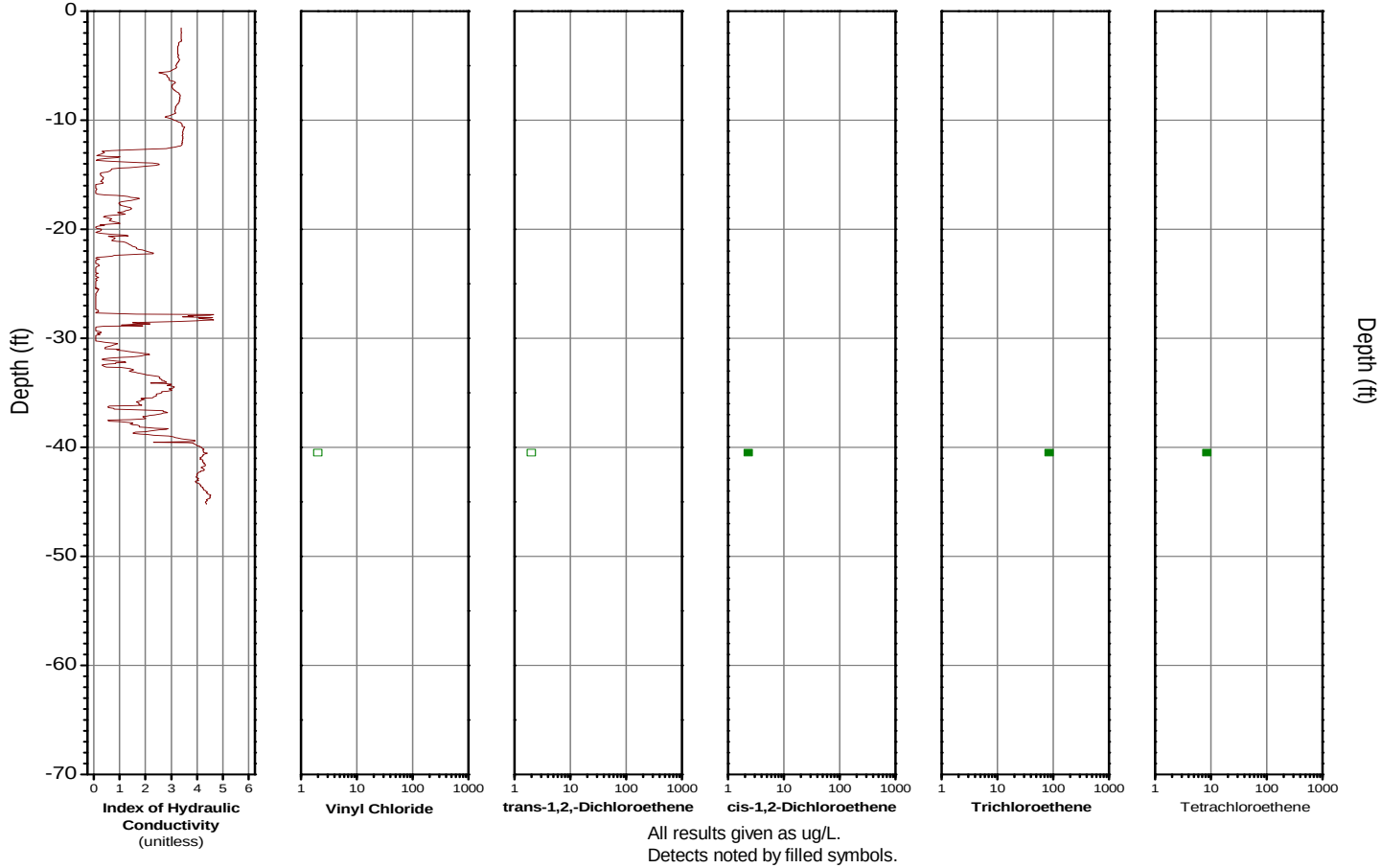
FIGURE B-607, I_K RECORD AND PHYSICO-CHEMICAL PARAMETERS

Dates Sampled : 2/1/2008

ERM / Wayland

Source: SEI groundwater quality profiling data
Path: O:\Proj-08\IR\1992-R ERM Wayland 2008\F-Data\Profile\Origin\PhysChem_B-607.opj
Date: 02/05/08 jab

STONE ENVIRONMENTAL INC



All results given as ug/L.
Detects noted by filled symbols.
Non-detects are noted by open symbols at the detection limit.

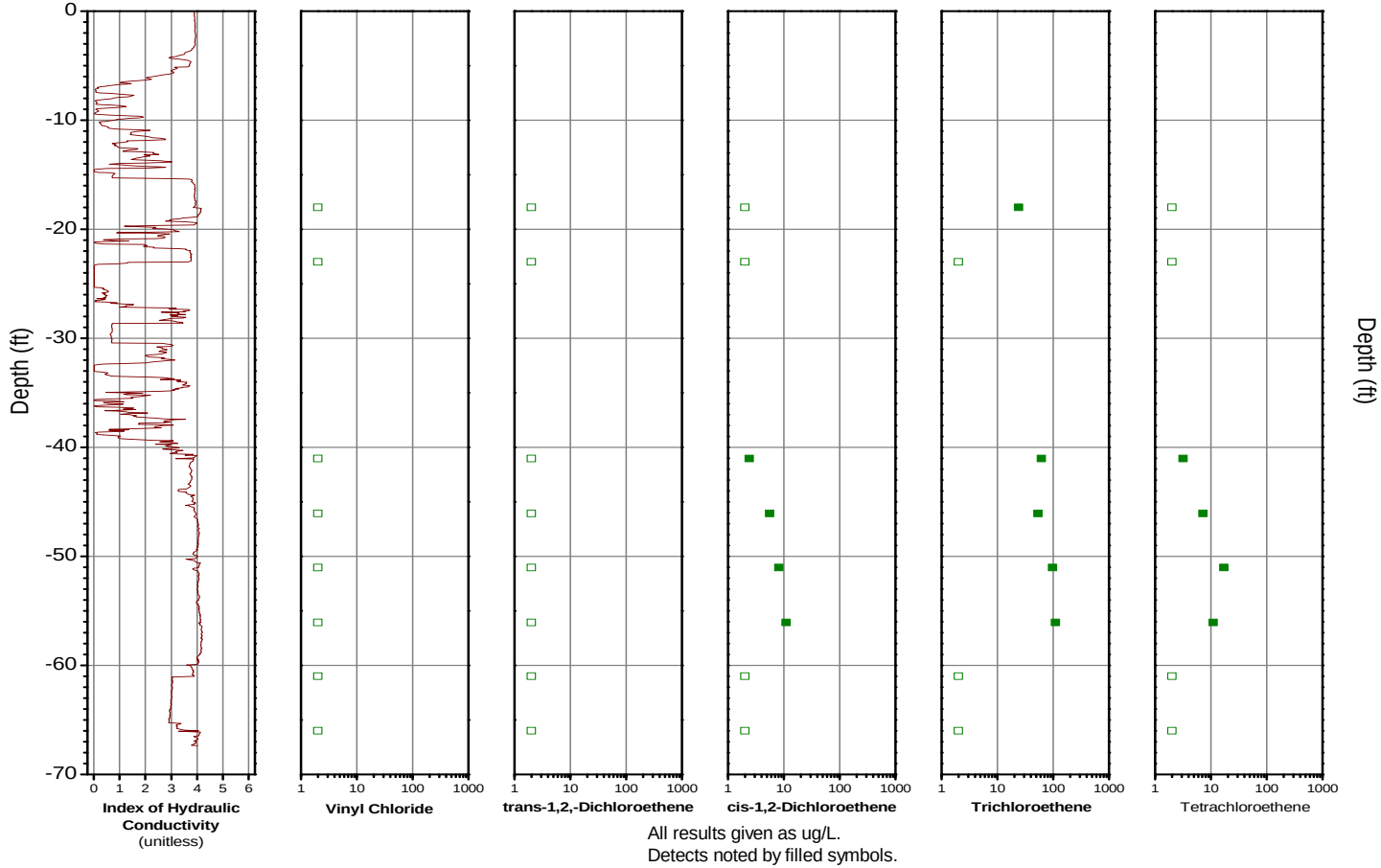
FIGURE B-600, I_k RECORD AND ANALYTICAL DATA

Dates Sampled : 1/29/2008

ERM / Wayland

Source: SEI groundwater quality profiling data
Path: O:\Proj-08\IR\1992-R ERM Wayland 2008\F-Data\Analytical\Origin\VOCChem_B-600.opj
Date: 02/06/08 jab

STONE ENVIRONMENTAL INC



All results given as ug/L.
Detects noted by filled symbols.
Non-detects are noted by open symbols at the detection limit.

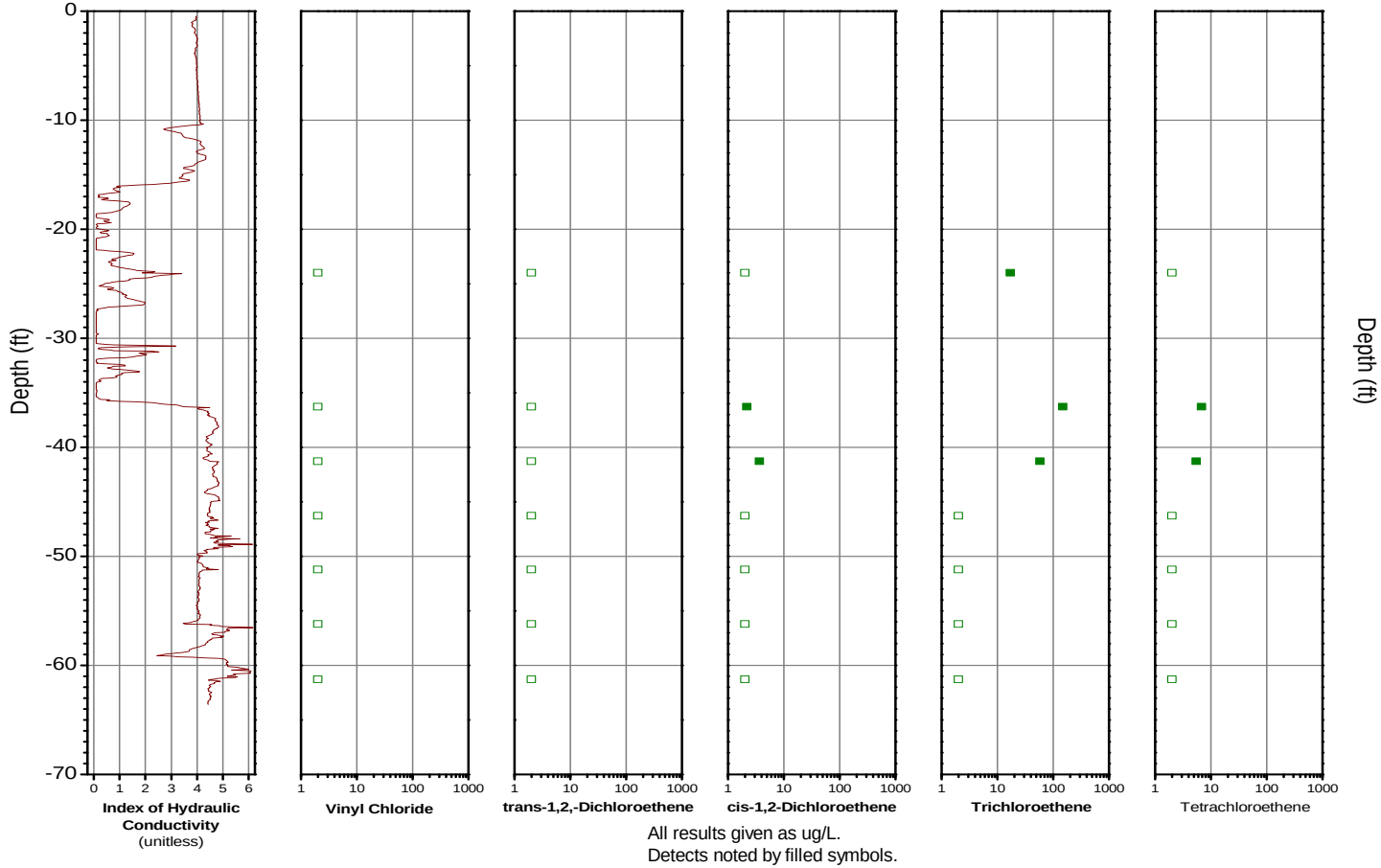
FIGURE B-601, I_k RECORD AND ANALYTICAL DATA

Dates Sampled : 1/29/2008 - 1/30/2008

ERM / Wayland

Source: SEI groundwater quality profiling data
Path: O:\Proj-08\IR\1992-R ERM Wayland 2008\F-Data\Analytical\Origin\VOCChem_B-601.opj
Date: 02/06/08 jab

STONE ENVIRONMENTAL INC



All results given as ug/L.
Detects noted by filled symbols.
Non-detects are noted by open symbols at the detection limit.

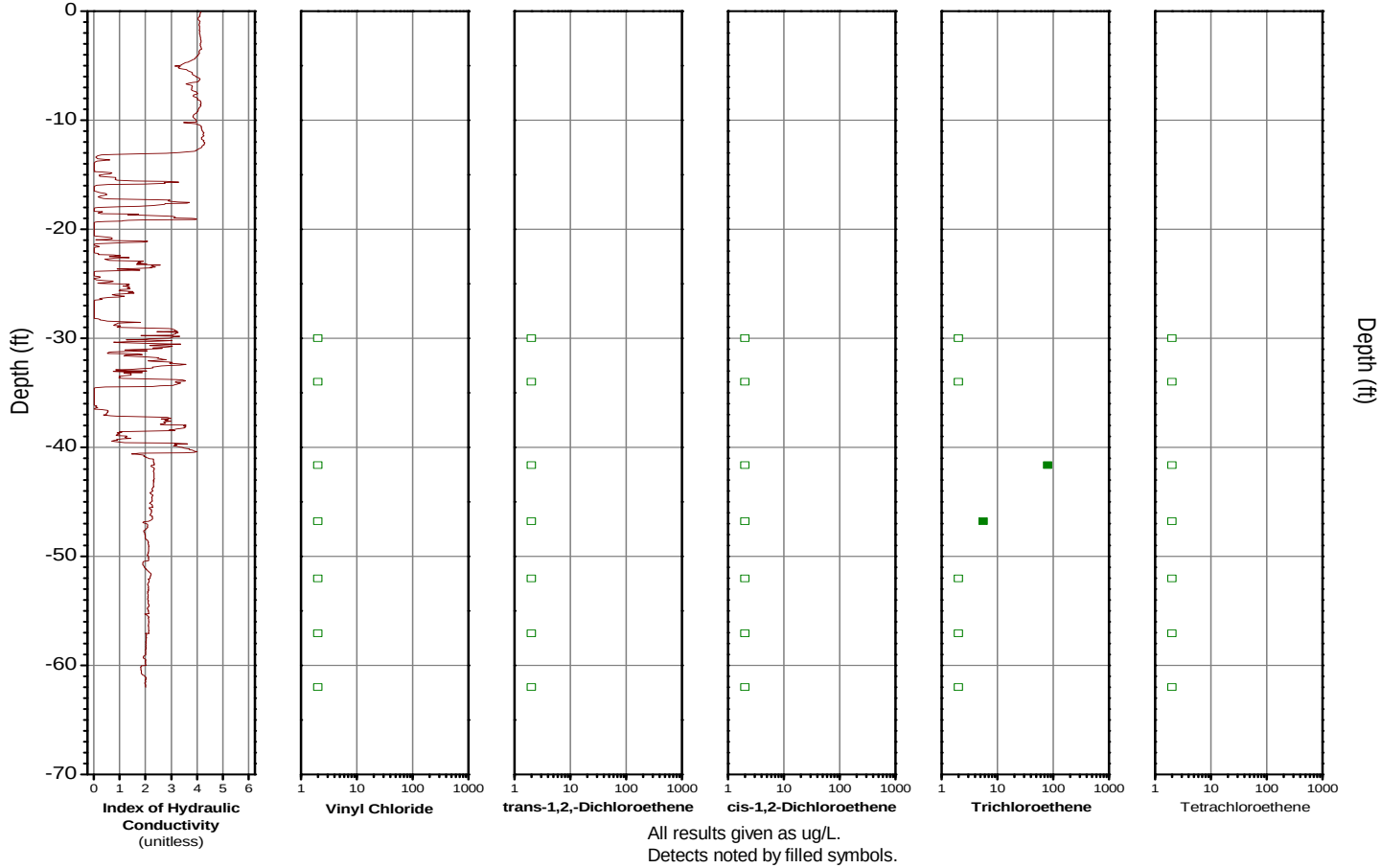
FIGURE B-602, I_k RECORD AND ANALYTICAL DATA

Dates Sampled : 1/29/2008 - 1/30/2008

ERM / Wayland

Source: SEI groundwater quality profiling data
Path: O:\Proj-08\IR\1992-R ERM Wayland 2008\F-Data\Analytical\Origin\VOCChem_B-602.opj
Date: 02/06/08 jab

STONE ENVIRONMENTAL INC



All results given as ug/L.
Detects noted by filled symbols.
Non-detects are noted by open symbols at the detection limit.

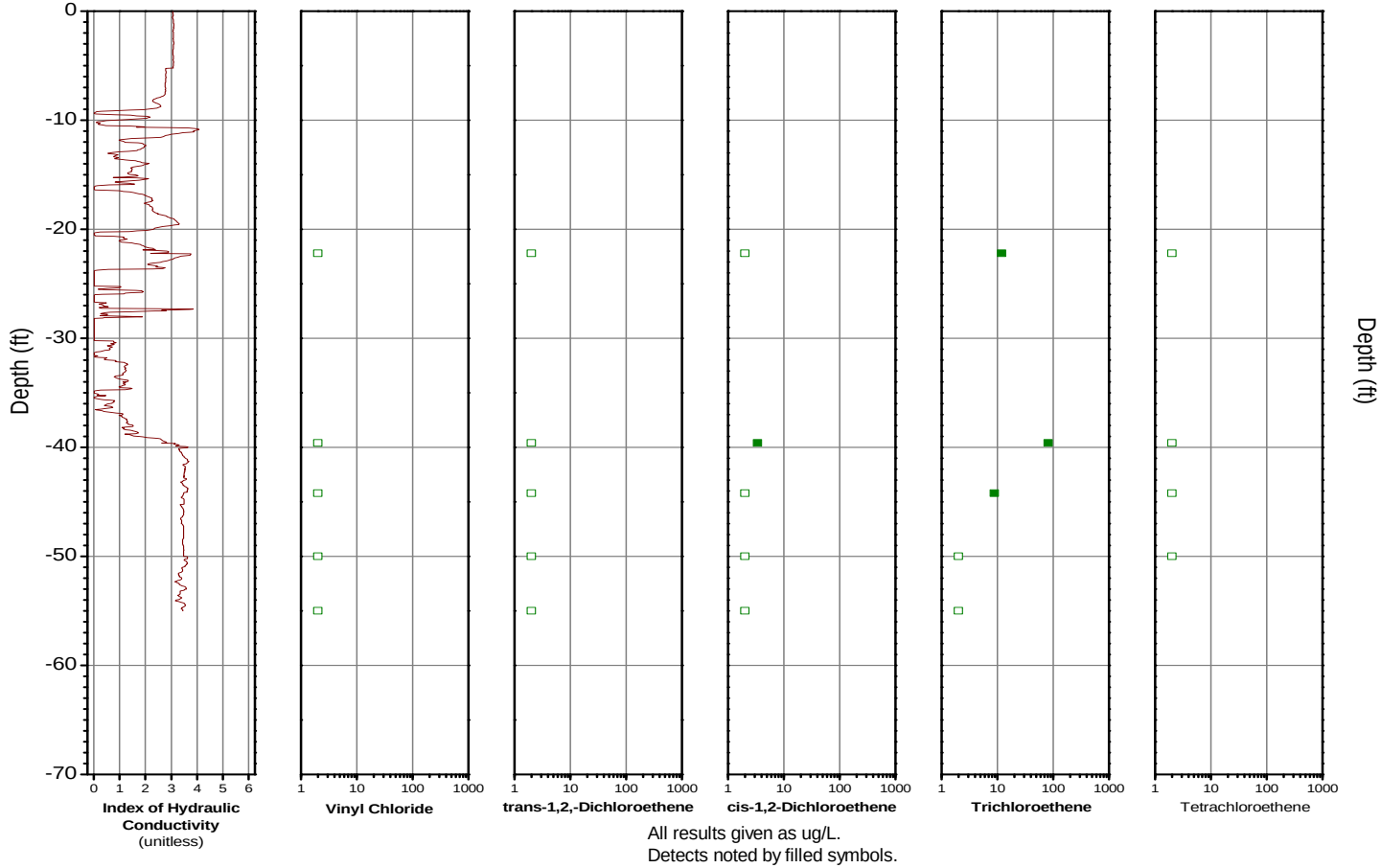
FIGURE B-603, I_k RECORD AND ANALYTICAL DATA

Dates Sampled : 1/30/2008 - 1/31/2008

ERM / Wayland

Source: SEI groundwater quality profiling data
Path: O:\Proj-08\IR\1992-R ERM Wayland 2008\F-Data\Analytical\Origin\VOCChem_B-603.opj
Date: 02/06/08 jab

STONE ENVIRONMENTAL INC



All results given as ug/L.
Detects noted by filled symbols.
Non-detects are noted by open symbols at the detection limit.

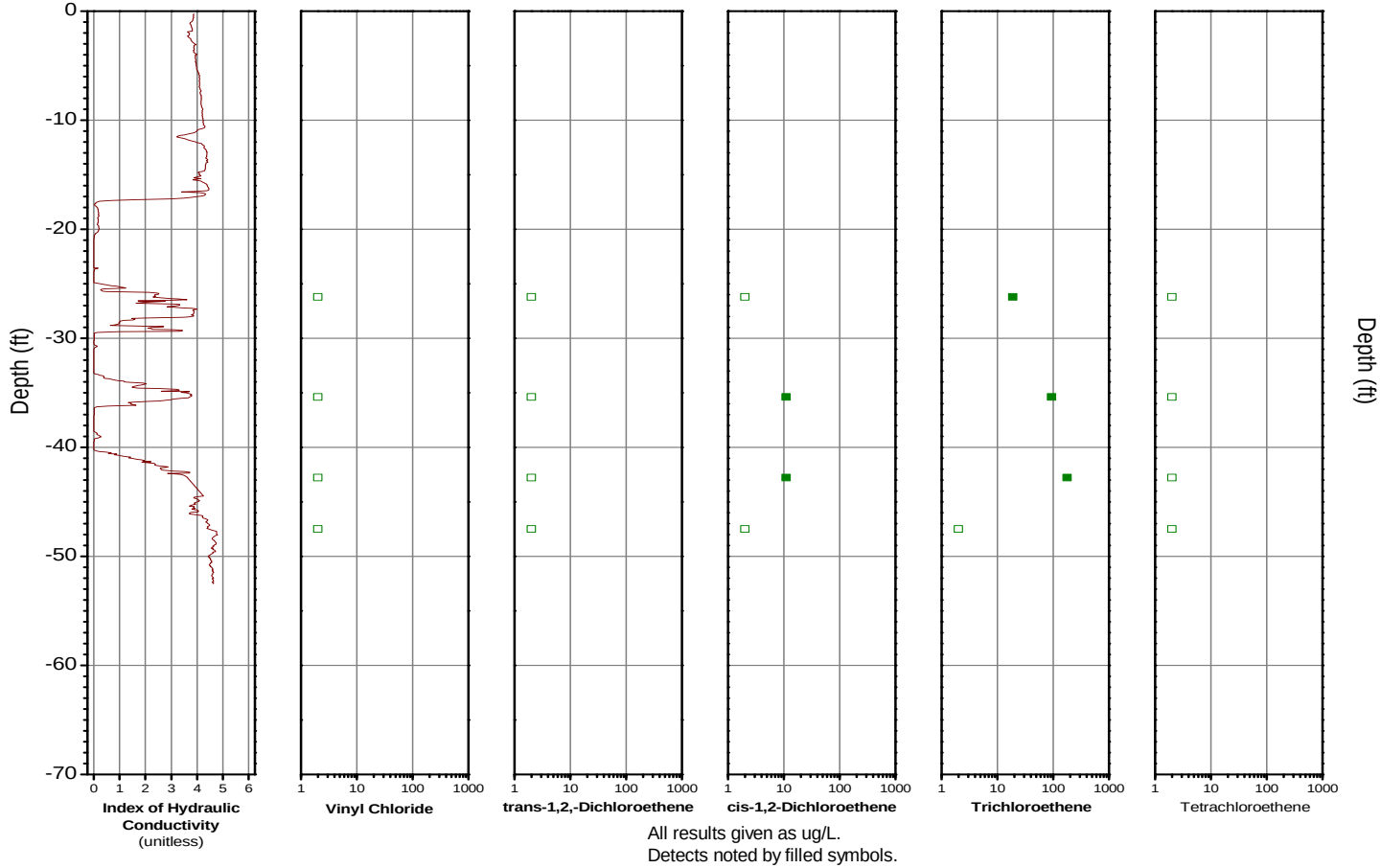
FIGURE B-604, I_k RECORD AND ANALYTICAL DATA

Dates Sampled : 1/31/2008

ERM / Wayland

Source: SEI groundwater quality profiling data
Path: O:\Proj-08\IR\1992-R ERM Wayland 2008\F-Data\Analytical\Origin\VOCChem_B-604.opj
Date: 02/06/08 jab

STONE ENVIRONMENTAL INC



All results given as ug/L.
Detects noted by filled symbols.
Non-detects are noted by open symbols at the detection limit.

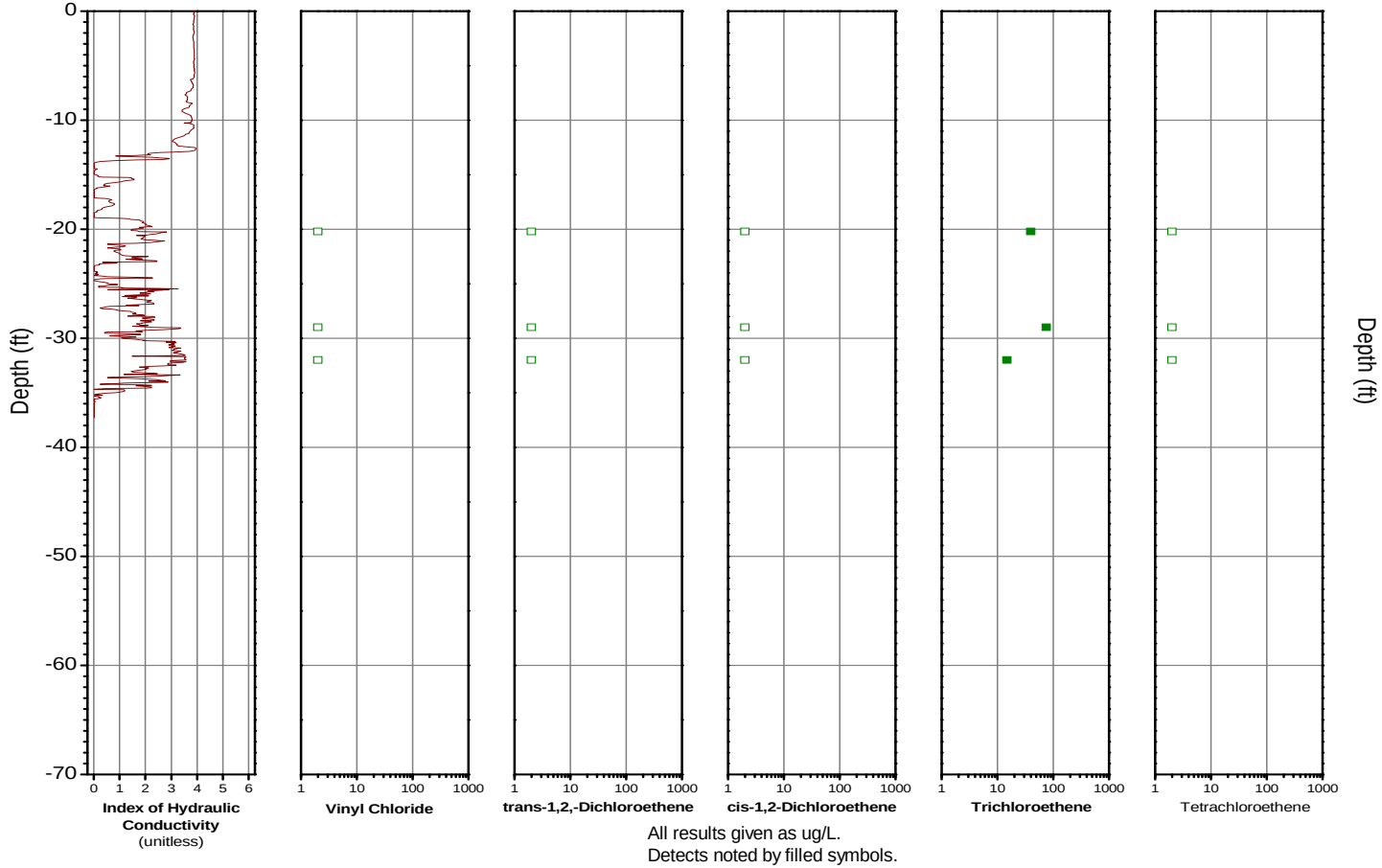
FIGURE B-605, I_k RECORD AND ANALYTICAL DATA

Dates Sampled : 1/31/2008

ERM / Wayland

Source: SEI groundwater quality profiling data
Path: O:\Proj-08\IR\1992-R ERM Wayland 2008\F-Data\Analytical\Origin\VOCChem_B-605.opj
Date: 02/06/08 jab

STONE ENVIRONMENTAL INC



All results given as ug/L.
Detects noted by filled symbols.
Non-detects are noted by open symbols at the detection limit.

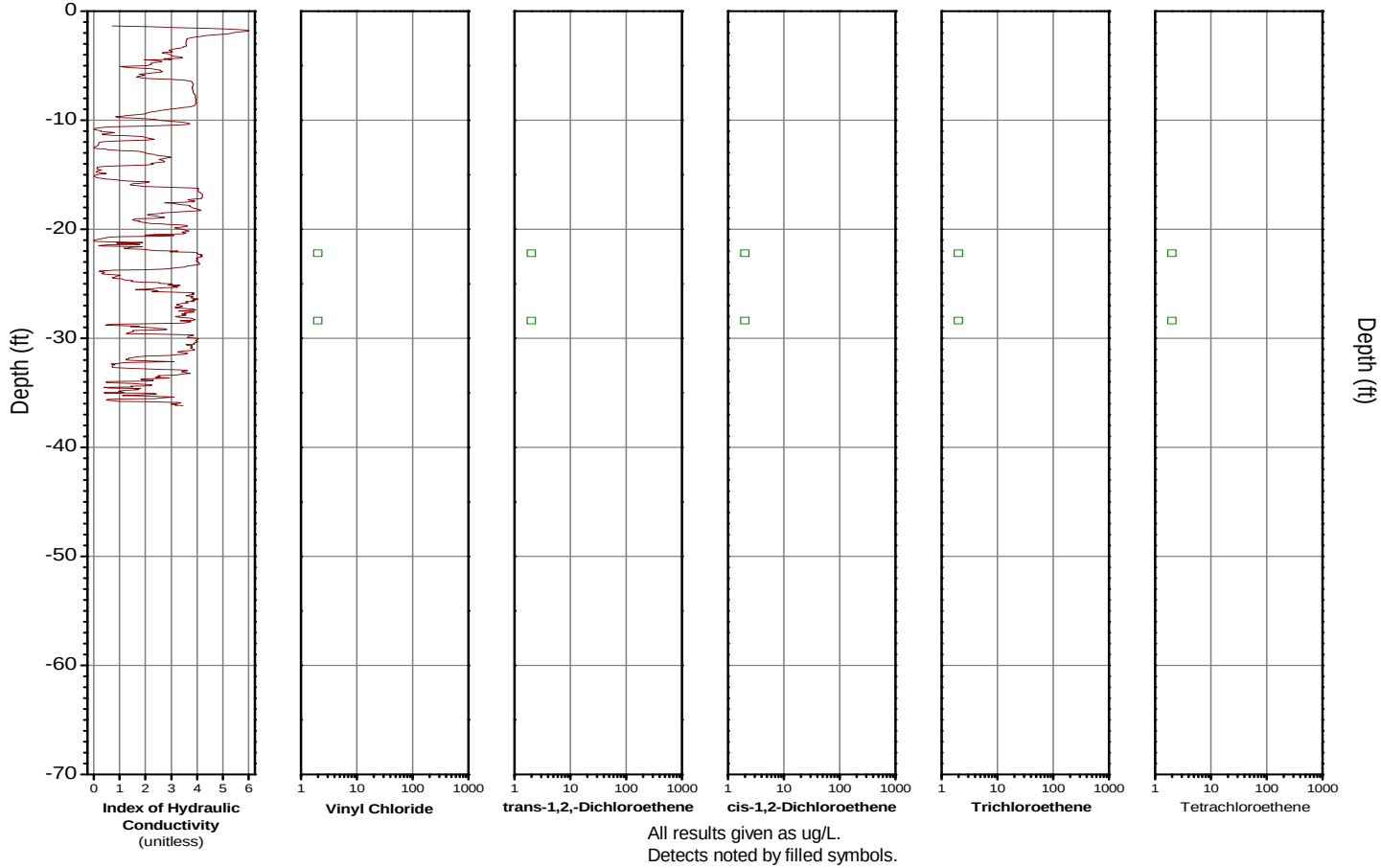
FIGURE B-606, I_k RECORD AND ANALYTICAL DATA

Dates Sampled : 1/31/2008 - 2/01/2008

ERM / Wayland

Source: SEI groundwater quality profiling data
Path: O:\Proj-08\IR\1992-R ERM Wayland 2008\F-Data\Analytical\Origin\VOCChem_B-606.opj
Date: 02/06/08 jab

STONE ENVIRONMENTAL INC



All results given as ug/L.
Detects noted by filled symbols.
Non-detects are noted by open symbols at the detection limit.

FIGURE B-607, I_k RECORD AND ANALYTICAL DATA

Dates Sampled : 2/01/2008

ERM / Wayland

Source: SEI groundwater quality profiling data
Path: O:\Proj-08\IR\1992-R ERM Wayland 2008\F-Data\Analytical\Origin\VOCChem_B-607.opj
Date: 02/06/08 jab

STONE ENVIRONMENTAL INC