ROSS ENVIRONMENTAL ASSOCIATES, INC.

Hydrogeology, Water Quality, GIS Planning, Remediation,
Contaminant Fate & Transport, Environmental Site Assessments,
Regulatory Compliance & Permitting, and Radon Mitigation

2 July 2015

Mr. Scott Oeschger
Fred's Plumbing and Heating
32 Railroad Ave
Orleans, VT 05860

RE: Progress Report and Groundwater Sampling Results for June 2015
Fred's Plumbing and Heating Bulk Facility (SMS Site #2007-3639)
Policy #06PKG01328 / Claim #82567

Dear Mr. Oeschger:

On 17 June 2015, Ross Environmental Associates, Inc. (***R.E.A.***) completed groundwater monitoring at the Fred's Plumbing and Heating Bulk Storage Facility (FPH Bulk Facility) located at 1683 US Route 5 in Derby, Vermont (**Figures 1 & 2**, Attachment A). This work was completed as part of the quarterly sampling program approved by Mr. James Donaldson and the annual sampling by Mr. Matt Moran of the Vermont Department of Environmental Conservation (VT DEC). Due to the declining contaminant concentrations in groundwater beneath the site, the groundwater monitoring program has been reduced to include quarterly sampling of only five key petroleum monitoring wells (MW-2, MW-3, MW-22, RW-2 and RW-3) and annual sampling of four key chlorinated monitoring wells (MW-4, MW-10, MW-11s, and MW-11d).

The findings of this groundwater sampling event are summarized below:

- No free-phase petroleum was detected in any of the monitoring wells during this sampling event.
- The Vermont Groundwater Enforcement Standards (VGESs) for one or more volatile petroleum compounds were exceeded in the groundwater samples collected from MW-2 and MW-3; no VGESs were exceeded in the MW-22, RW-2 and RW-3 samples.
- The VGESs for benzene was exceeded in the samples collected from MW-2 and MW-3 during this sampling event.
- The VGESs for toluene, ethylbenzene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene and naphthalene were exceeded in the sample collected form MW-3.
- No volatile organic compounds (VOCs) were detected above the method detection limits in the samples collected from MW-4, MW-10, MW-11s, or MW-11d during this sampling event.
- Groundwater flow on 17 June 2015 was toward the northwest, which is consistent with previous observations.
- The dissolved oxygen levels ranged between 5.36 and 0.91 milligrams per liter (mg/L) during this monitoring period.
- The areal extent of the dissolved-phase plume has been reduced by over 90% since September 2007.

Conclusion/Recommendations

A slight decrease in contaminant concentrations has been observed since the previous sampling event. Total contaminant concentrations have been reduced by over 85 percent in all of the monitoring wells. In addition, no free product has been detected in the on-site monitoring wells since January 2009, except for free product discovered intermittently during the summer of 2011 in MW-22. Contaminant mass and the size of the

dissolved-phase plume have been reduced significantly since implementing soil vapor extraction and air sparging at the site in November 2008 and implementing the oxygen injection system in July 2013. The impacted area encompassed approximately 45,000 square feet in September 2007 and has been reduced to an area of less than 5,000 square feet since September 2014.

Based on the most recent groundwater analytical results and oxygen injection installation, ***R.E.A.*** recommends the following:

1. Bi-monthly inspection, operation and maintenance of the Oxygen Injection remediation system should be conducted. During the next O+M site visit the oxygen injection wells will be redeveloped and purged to enhance oxygen delivery to the shallow groundwater formation.
2. Quarterly sampling should continue at the site with the next sampling event occurring in September 2015. Samples should be collected from MW-2, MW-3, MW-22, RW-2 and RW-3. Groundwater samples should be analyzed for the possible presence of volatile petroleum compounds in accordance with EPA method 8021b. Groundwater parameters should also be collected to ensure proper balancing of the Oxygen Injection System and its efficiency.
3. Site conditions should be evaluated with respect to natural attenuation. During the next sampling event, ***R.E.A.*** recommends analyzing groundwater samples for geochemical parameters such as nitrate, sulfate, ferrous iron, manganese, methane, alkalinity, carbon dioxide, dissolved oxygen, ORP, temperature, and pH. Data from the natural attenuation evaluation will be used to determine if operation of the Oxygen injection system should continue or be discontinued.
4. Sample collection from monitoring wells MW-4, MW-10, MW-11s, and MW-11d should be discontinued. No further work related to the chlorinated solvent contamination is recommended.

Copies of site maps showing approximate monitoring well locations (**Figure 3**), ground water flow direction (**Figure 4**), and contaminant distribution (**Figure 5**) are included in Attachment A. Tables summarizing ground-water elevation data (**Table 1**), ground water analytical results (**Table 2 and Table 2.1**), and field measurement data (**Table 3**) are included in Attachment B. Time-series graphs for water quality data are included in Attachment C, and laboratory analytical reports are included in Attachment D.

Ground Water Elevation and Flow Direction

On 17 June 2015, ground-water flow in the unconfined surficial aquifer at the site was toward the northwest with an average hydraulic gradient of approximately 5.2 percent, which is consistent with previous groundwater elevation data. Water level measurements and elevation calculations for 17 June 2015 are presented in **Table 1** and the ground-water contour map prepared using this data is presented as **Figure 4**, Attachment A.

Static water-table elevations were computed for each monitoring well by subtracting measured depth-to-water or corrected depth to water readings from the surveyed top-of-casing (TOC) elevations, which are relative to an arbitrary site datum of 100.00 feet.

Ground Water Sampling and Analysis for Chlorinated Solvent Contamination

None of the Vermont Groundwater Enforcement Standard (VGES)[1] were exceeded in any of the samples collected during this monitoring event related to the chlorinated solvent contamination. No VOCs were detected in the samples collected from MW-4, MW-10, MW-11s, or MW-11d.

[1]The Vermont DEC has established groundwater enforcement standards for eight petroleum related VOCs, as follows: benzene - 5 ug/L; toluene - 1,000 ug/L; ethylbenzene - 700 ug/L; xylenes - 10,000 ug/L; MTBE - 40 ug/L; naphthalene – 20 ug/L; and 1,3,5-trimethylbenzene &1,2,4-trimethylbenzene – combined 350 ug/L and three other VOCs as follows: tetrachloroethene – 5 ug/L, trichloroethene – 5 ug/L, and cis-1,2-dichloroethene – 70 ug/L

No VOCs were detected in the trip-blank sample and the duplicate sample results, collected from MW-11s, were the same as the original samples. Contaminant distribution, based on samples collected on 17 June 2015, is shown on **Figure 5** in Attachment A. The analytical results are summarized on **Table 2.1** in Attachment B, time-series graphs showing contaminant concentrations versus time are included in Attachment C and copies of the laboratory analytical reports are included as Attachment D.

Prior to sample collection, ***R.E.A.*** field personnel measured the water level/product level in each monitoring well and purged approximately three to five standing volumes of water from each monitoring well. All monitoring well samples were collected by purging water from dedicated bailers or polyethylene tubing directly into 40-milliliter glass vials with Teflon-lined septum lids. Each sample vial was preserved with hydrochloric acid to reduce the pH to less than two standard units (su). Immediately after sample collection, field measurements were obtained for pH, specific conductivity, temperature, total dissolved solids (TDS), and oxygen reduction potential (ORP). A summary of the field measurement data is included on **Table 3**, in Attachment B.

On 17 June 2015, groundwater samples were collected from four monitoring wells (MW-4, MW-10, MW-11s, and MW-11d) as requested by the VT DEC. All of the samples were analyzed for the possible presence of volatile organic compounds in accordance with U.S. EPA Method 8260. All samples were transported under chain-of-custody in ice-filled coolers. Volatile organic compounds analyses were conducted at AMRO Environmental Laboratories in Merrimack, NH.

Ground Water Sampling and Analysis for Petroleum Contamination

Review of contaminant distribution data collected at the site for the period between September 2007 and June 2015 indicates that implementation of the remediation system has had a significant impact on reducing overall contaminant concentrations. During the June 2015 sampling event, one or more of the Vermont Groundwater Enforcement Standards[2] (VGESs) for volatile petroleum compounds were exceeded in the groundwater samples collected MW-2, MW-3, and RW-3. The highest dissolved-phase concentrations were detected in the sample collected from MW-3, which is located immediately downgradient of the original spill area.

The VGESs for benzene, toluene, ethylbenzene, 1,3,5-trimethylbenzene, 1,2,4-trimethylbenzene, and naphthalene were exceeded in the MW-3 sample and the VGES for benzene was exceeded in the sample collected from MW-2. Low concentrations of several other volatile petroleum compounds were also detected in the MW-2, MW-22, RW-2, and RW-3 samples.

No volatile petroleum compounds were detected in the trip-blank sample, and the duplicate sample results (MW-2) were generally within the acceptable EPA criteria. Contaminant distribution, based on samples collected on 17 June 2015, is shown on **Figure 5** in Attachment A. The analytical results are summarized on **Table 2** in Attachment B, time-series graphs showing contaminant concentrations versus time are included in Attachment C, and copies of the laboratory analytical reports are included as Attachment D.

Prior to sample collection, ***R.E.A.*** field personnel measured the water level/product level in each monitoring well and purged approximately three standing volumes of water from each monitoring well. All monitoring well samples were collected by pouring water from the bailer directly into 40-milliliter glass vials with Teflon-lined septum lids. Each sample vial was preserved with hydrochloric acid to reduce the pH to less than 2 standard units (su). Immediately after sample collection, field measurements were obtained for pH, specific conductivity, temperature, dissolved oxygen, and oxygen reduction potential (ORP). A summary of the field measurement data is included on **Table 3**, in Attachment B.

[2]The Vermont DEC has established groundwater enforcement standards for eight petroleum related VOCs, as follows: benzene - 5 µg/L; toluene - 1,000 µg/L; ethylbenzene - 700 µg/L; total xylenes - 10,000 µg/L; MTBE - 40 µg/L; naphthalene – 20 µg/L; and 1,3,5-trimethylbenzene & 1,2,4-trimethylbenzene – 350 µg/L combined.

On 17 June 2015, groundwater samples were collected from five monitoring wells as requested by the VT DEC (MW-2, MW-3, MW-22, RW-2 and RW-3). All of the samples were analyzed for the possible presence of volatile petroleum compounds in accordance with U.S. EPA Methods 8021b. All samples were transported under chain-of-custody in an ice-filled cooler to AMRO Environmental Laboratories in Merrimack, NH for analysis.

Oxygen Injection System Operation and Performance

On 13 November 2013, Mr. Matt Moran of the VT DEC approved the work plan and cost estimate dated 8 November 2013 to install seven additional oxygen injection points to enhance the existing system. The injection points were installed by Technical Drilling Services, Inc. (TDS) of Sterling, Massachusetts under the direct supervision of ***R.E.A.*** on 19 December 2013**.** The injection points were installed within the upper portion to the underlying groundwater to a depth of 10 feet bgs. Each injection point consisted of a one-foot section of slotted PVC well screen installed between 8 to 10 feet below grade. The approximate locations of the oxygen injection points are shown on **Figure 3** in Attachment A.

Highlights of the system's performance during the December 2014 to June 2015 operational period are provided below:

- DO levels ranged between 0.91 and 11.52 mg/L;
- ORP values ranged between -192.2 and 110 milli-volts (mV);
- Average oxygen flow rates — 40 to 100 SCFH;
- Average oxygen pressure — 1.0 to 40 PSI;
- Total oxygen generator hours — 70,025

The oxygen injection system has operated continuously since 24 July 2013, except for minor operational downtime. On 22 August 2013, the oil and oil filter were changed in the compressor and the condensation bucket was emptied as necessary. Seven additional oxygen injection points were installed on 19 December 2013, trenching was completed on 23 December 2013 and the new injection points were connected to the oxygen injection system on 27 December 2013.

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Please call me if you have any questions or concerns regarding the enclosed results or recommendations.

Sincerely,

Ross Environmental Associates, Inc.

Emma Blanchard
Environmental Scientist

Robert J. Ross, CGWP
Principal Hydrogeologist

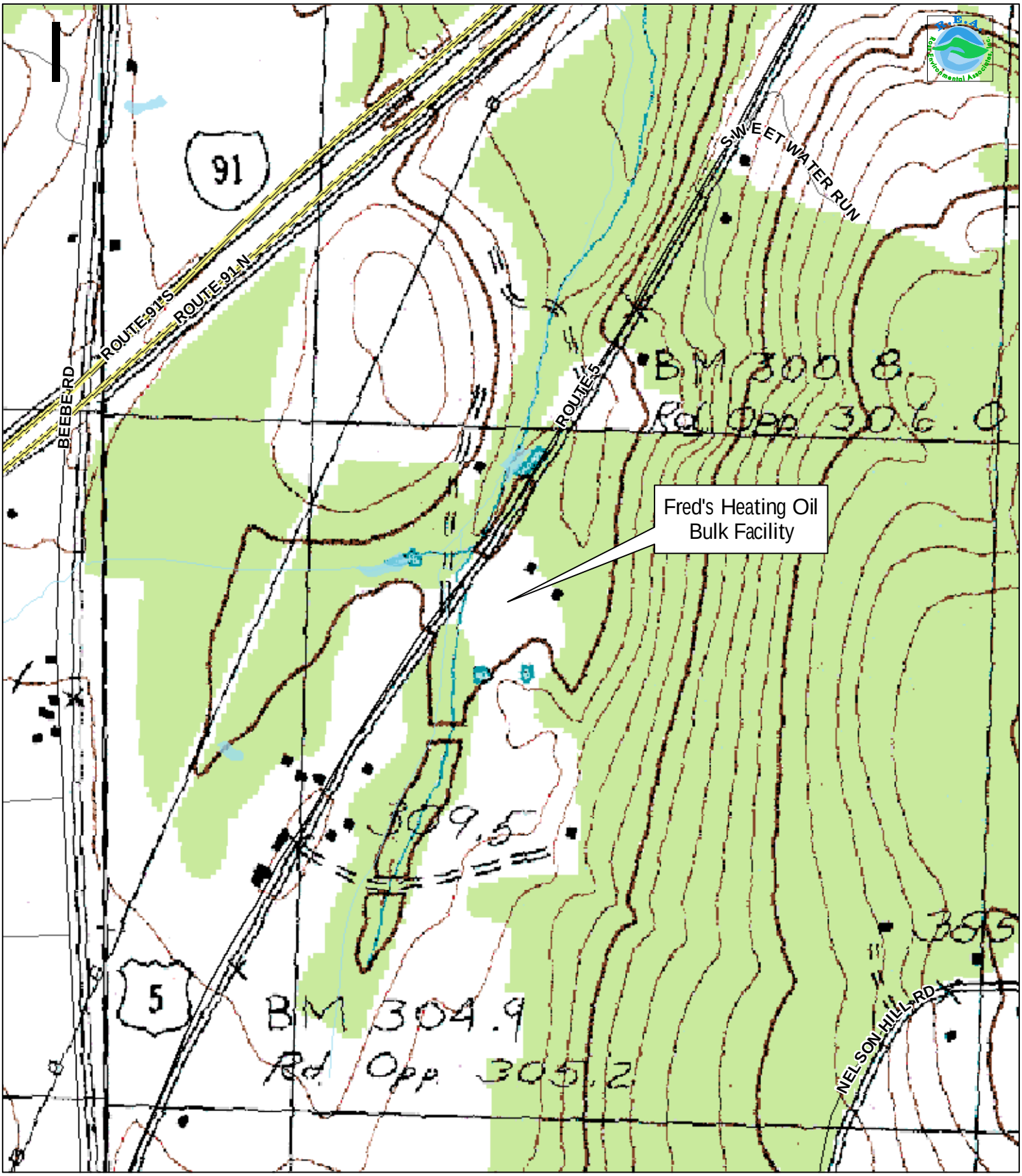
Attachments

cc. Mr. James Donaldson - VT DEC
Ms. Maureen M. Howell, CCLA, Senior Claims Examiner - Environmental

EMB/ref: 27013GWRQ29_June15.doc

FIGURES

ATTACHMENT A



0 250 500 1,000 1,500 2,000
Feet

1 inch equals 625 feet

Site Coordinates: 44°58'21.63"N 72°7'1.024"W

F:\Projects\27013\PDF\27013Fig1Topo.pdf Y:\Projects\GIS Maps\Derby Bulk\27013Fig1Topo.mxd

USGS Maps: Newport Vermont Quadrangle 1:24,000, 1986, 1997
West Charleston Vermont Quadrangle 1:24,000, 1986, 1997

Figure 1
Fred's Plumbing and Heating Bulk Facility
1683 VT Route 5 Derby, Vermont

0 250 500 1,000 1,500 2,000
Feet
1 inch equals 625 feet

Site Coordinates: 44°58'21.63"N 72°7'1.024"W

NAIP Aerial Photos, 2008

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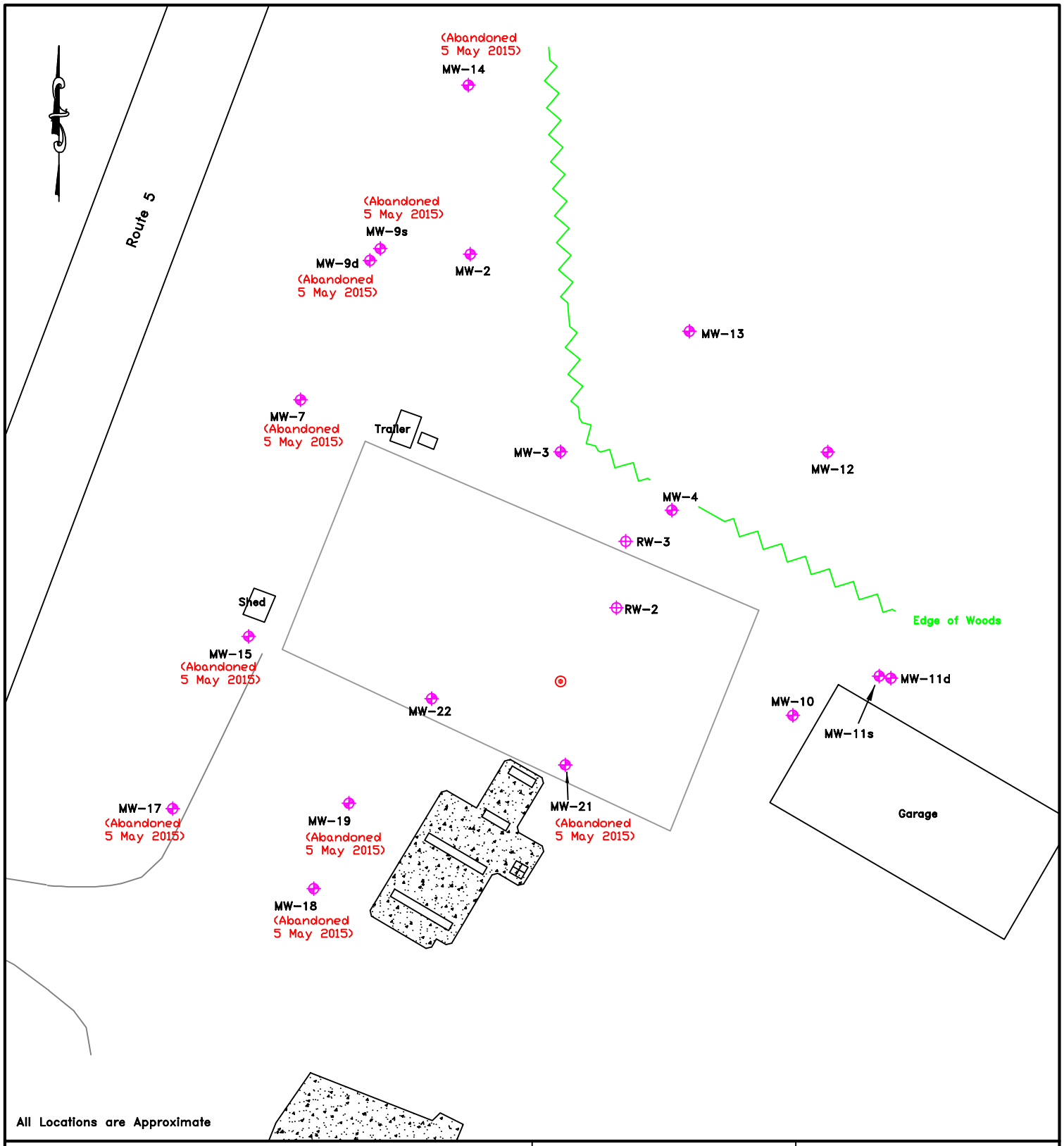
Y:\Projects\GIS Maps\Derby Bulk\27013Fig2Ortho.mxd

Figure 2
Fred's Plumbing and Heating Bulk Facility
1683 VT Route 5 Derby, Vermont



Legend:

- Oil Water Separator
- Ditch
- Monitoring Well
- Drainage Basin
- Recovery Well
- Edge of Woods
- Injection Well
- Point of Release

Scale:	1" = 50'	**Date:**	6 November 2008
File Name:	27-013_DerbyBulk +2010 data.dwg	**Drawn By:**	MM

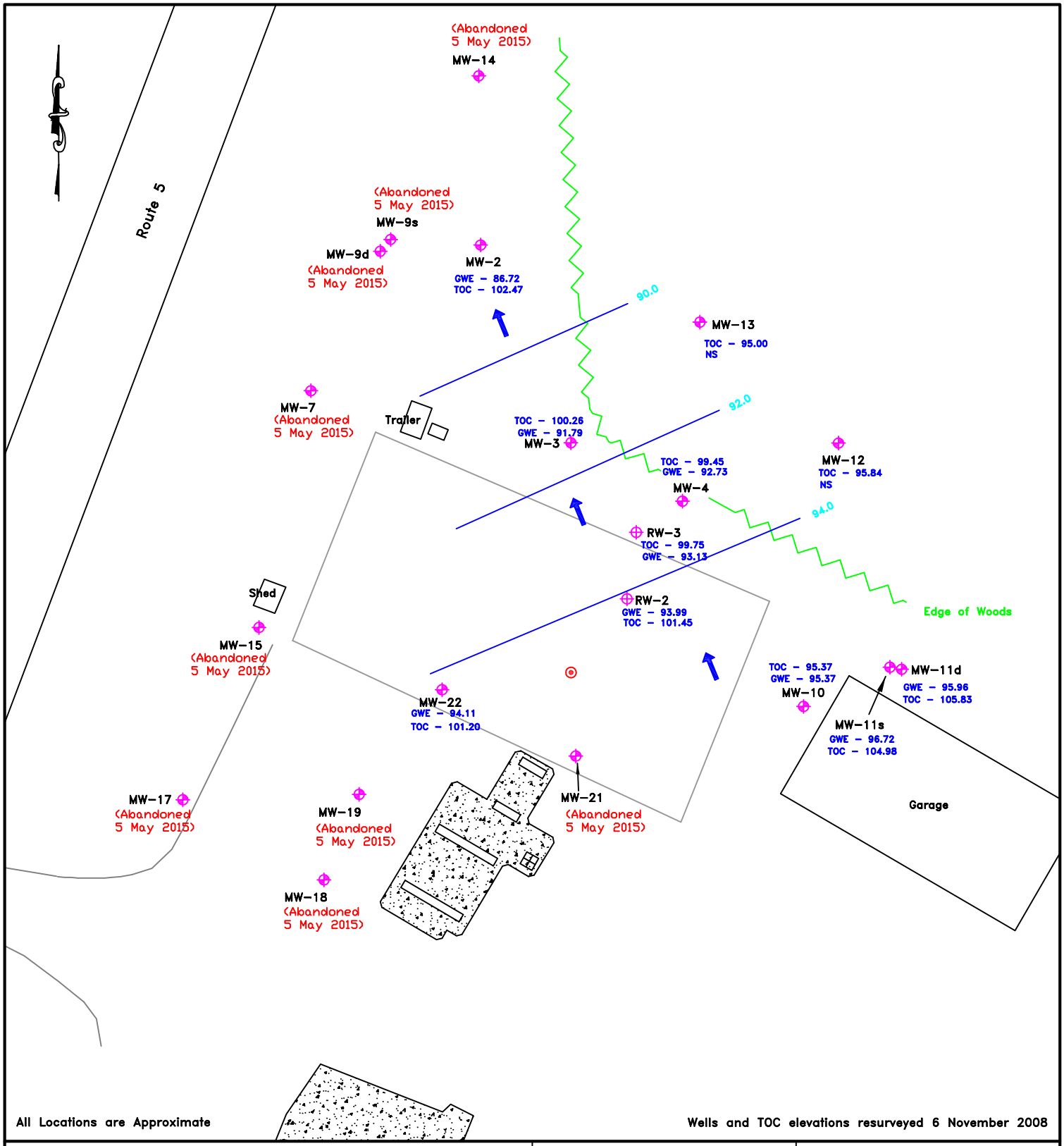
Ross Environmental Associates, Inc.
P.O. Box 1533 Stowe, Vt 05672
(802) 253-4280

FIGURE 3.

SITE PLAN

(with monitoring well locations)

FPH Derby Bulk Facility - Derby, VT



All Locations are Approximate

Wells and TOC elevations resurveyed 6 November 2008

Legend: Oil Water Separator; Ditch; Monitoring Well; Drainage Basin; SVE Point; Recovery Well; Edge of Woods; Sparge Point; Injection Well; Point of Release; Soil Boring

Scale:	1" = 50'	**Date:**	6 November 2008
File Name:	27-013_DerbyBulk +2010 data.dwg	**Drawn By:**	MM

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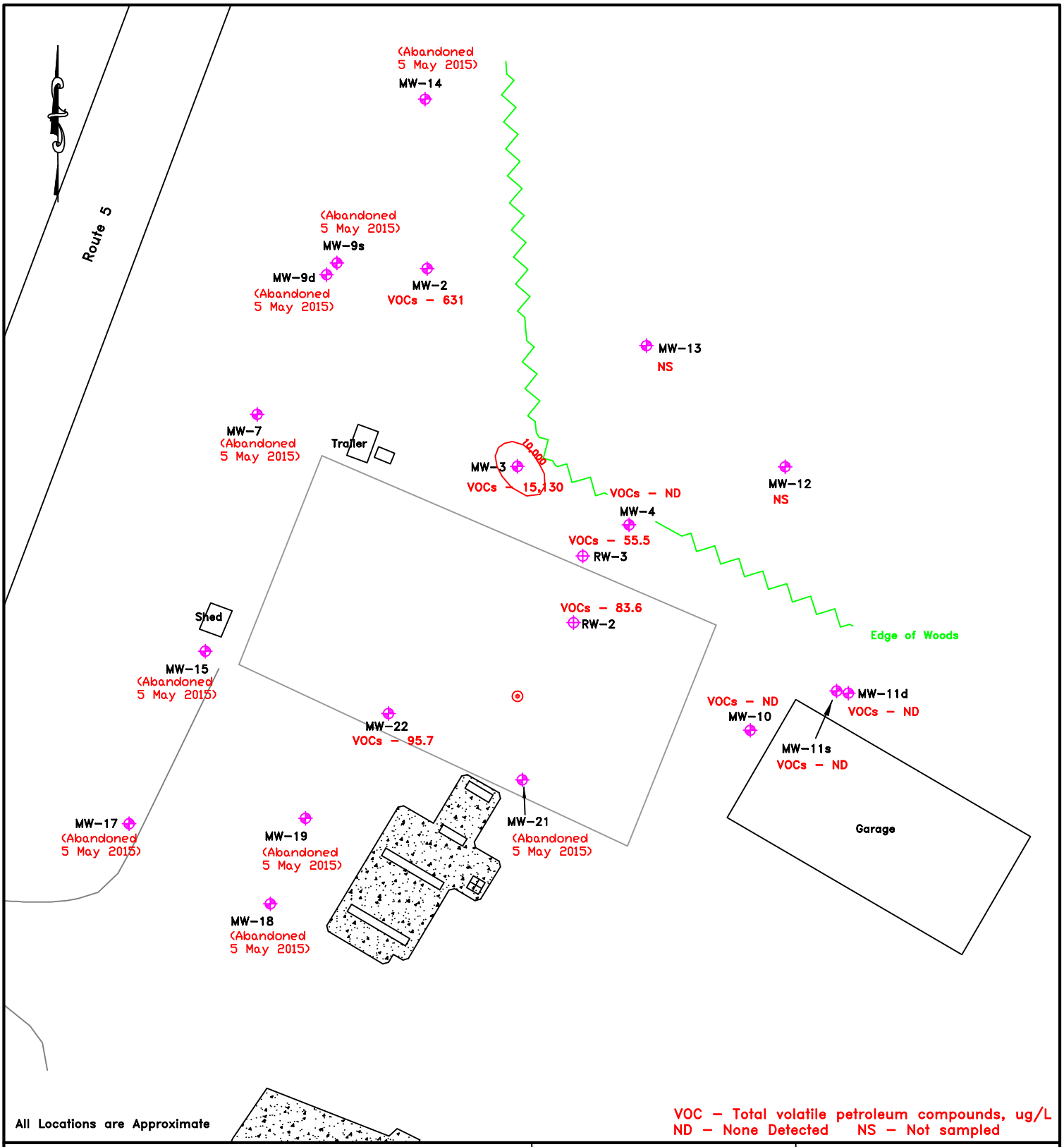
FIGURE 4.
GROUNDWATER CONTOURS
(Monitoring Date: 17 JUNE 2015)

FPH Derby Bulk Facility - Derby, VT



All Locations are Approximate

VOC - Total volatile petroleum compounds, ug/L
ND - None Detected NS - Not sampled

Legend: Oil Water Separator, Ditch, Monitoring Well, Drainage Basin, SVE Point, Recovery Well, Edge of Woods, Sparge Point, Injection Well, Point of Release, Soil Boring

Scale:	1" = 50'	**Date:**	6 November 2008
File Name:	27-013_DerbyBulk +2010 data.dwg	**Drawn By:**	MM

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FIGURE 5.

CONTAMINANT DISTRIBUTION

(Monitoring Date: 17 June 2015)

FPH Derby Bulk Facility - Derby, VT

TABLES

ATTACHMENT B

TABLE 1
GROUND WATER ELEVATION CALCULATIONS

FPH Bulk Facility
Derby, Vermont

Monitoring Date: 17 June 2015

Well I.D.	Top of Casing Elevation (ft)	Depth to Water (feet, TOC)	Water Table Elevation (ft)
MW-2	102.47	15.75	86.72
MW-3	100.26	8.47	91.79
MW-22	101.20	7.09	94.11
RW-2	101.45	7.46	93.99
RW-3	99.75	6.62	93.13
MW-4	99.45	6.72	92.73
MW-10	102.41	7.04	95.37
MW-11s	104.98	8.26	96.72
MW-11d	105.83	9.87	95.96

Notes: All values reported in feet relative to arbitrary site datum of 100.00 feet which was re-surveyed on 6 November 2008 & again surveyed on 21 July 2010.

TABLE 2.1
SUMMARY OF ANALYTICAL RESULTS

Fred's Plumbing & Heating
Derby, Vermont

Monitoring Date: 17 June 2015

Parameter	*VGES*	MW-4	MW-10	MW-11s	MW-11d	Dup (MW-11s)	% Difference	Trip Blank
MtBE	**40**	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	---	ND<2.0
Acetone	**---**	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	---	ND<1.0
Benzene	**5.0**	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	---	ND<1.0
tert-butylbenzene	**---**	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	---	ND<2.0
sec-butylbenzene	**---**	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	---	ND<2.0
ethylbenzene	***700***	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	---	ND<2.0
naphthalene	***20***	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	---	ND<5.0
n-propylbenzene	**---**	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	---	ND<2.0
Toluene	**1,000**	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	---	ND<2.0
1,3,5-trimethylbenzene	***350 (combined)***	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	---	ND<2.0
1,2,4-trimethylbenzene		ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	---	ND<2.0
Total Xylenes	**10,000**	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	---	ND<2.0
Isopropylbenzene	**---**	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	---	ND<2.0
Trichloroethene (TCE)	**5.0**	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	---	ND<2.0
Tetrachloroethene (PCE)	**5.0**	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	---	ND<2.0
cis-1,2-dichloroethene	**70**	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	---	ND<1.0
chlorobenzene	**100**	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	**---**	ND<2.0
chloroform	**---**	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	**---**	ND<2.0
Total VOCs	**---**	**ND**	**ND**	**ND**	**ND**	**ND**	---	**ND**

Notes:
Water results reported as micrograms per liter (ug/L), unless reported otherwise.
ND: Not detected at indicated detection limit.
VGES = Vermont Groundwater Enforcement Standards. Shaded values exceed corresponding VGES.

TABLE 2
SUMMARY OF ANALYTICAL RESULTS

FPH Derby Bulk Facility
Derby, Vermont

Monitoring Date: 17 June 2015

Well ID	MtBE	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,3,5-TMB	1,2,4-TMB	Naphthalene	Total VOCs
MW-2	**2.3**	**300**	**36**	**110**	**64.5**	ND<1.0	**110**	**8.2**	**631**
MW-3	ND<10	**130**	**4,900**	**1,600**	**6,400**	**410**	**1,400**	**290**	**15,130**
MW-22	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	**17**	**69**	**9.7**	**95.7**
RW-2	ND<1.0	**1.5**	ND<1.0	**7.1**	**57**	**8.4**	**9.6**	ND<2.0	**83.6**
RW-3	ND<1.0	ND<1.0	**12.0**	**5.0**	**24.1**	**3.2**	**9.2**	**2.0**	**55.5**
VGES	**40**	**5.0**	**1,000**	***700***	**10,000**	***350*** ***(combined)***		***20***	**---**
QA/QC samples									
MW-2	**2.3**	**300**	**36**	**110**	**64.5**	ND<1.0	**110**	**8.2**	**631**
Duplicate (MW-2)	ND<10	**320**	**36**	**110**	**53**	ND<1.0	**110**	ND<20	**629**
% Difference	**---**	**6.7**	**0.0**	**0.0**	**17.8**	**--**	**0.0**	**--**	**0.3**
Trip blank	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<1.0	ND<1.0	ND<2.0	**ND**

Notes: Water results reported as micrograms per liter (ug/L), unless reported otherwise.
ND: Not detected at indicated detection limit. TPH: Total Petroleum Hydrocarbons NS: Not Sampled.
VGES = Vermont Groundwater Enforcement Standards. Shaded values exceed corresponding VGES.

TABLE 3
FIELD MEASUREMENT DATA

FPH Derby Bulk Facility
Derby, Vermont

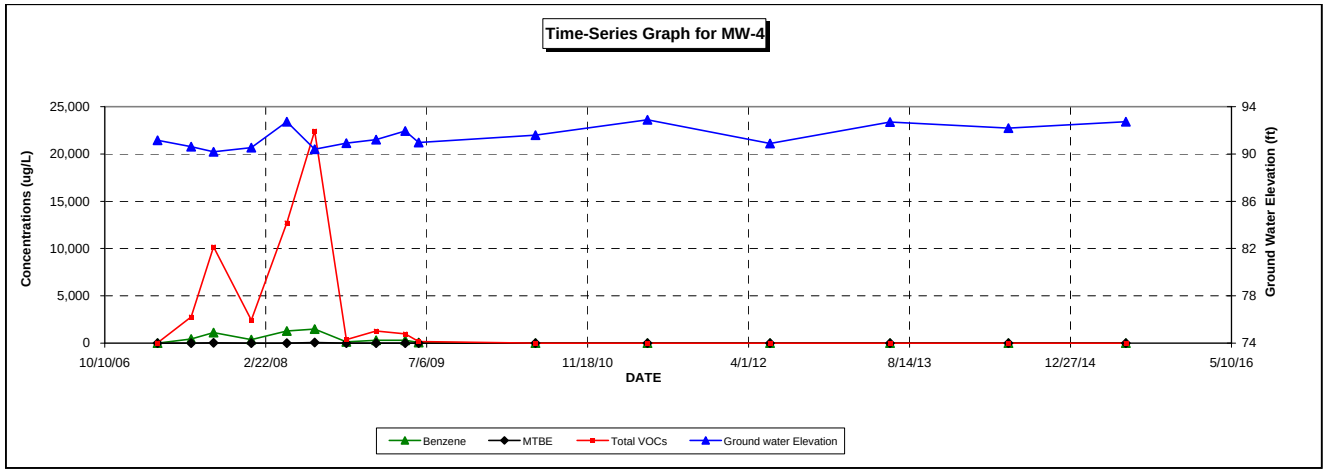
Monitoring Date: 17 June 2015

Well ID	pH (su)	Temperature (°C)	Specific conductivity (µS/cm)	ORP (mV)	DO (mg/L)	Comments
MW-2	8.05	10.73	65	-129.3	1.85	Moderate Odor, sheen
MW-3	7.99	10.33	59	-117.9	1.89	Moderate Odor, sheen
MW-22	8.30	9.57	43	-192.2	0.91	No odor or sheen
RW-2	7.49	9.42	77	46.6	5.36	No odor or sheen
RW-3	7.51	11.39	70	18.0	4.79	No odor or sheen

Notes: pH reported in standard units (s.u.).
Temperature reported in degrees celcius (ºC)
Specific conductivity reported in microsiemens per centimeter (µS/cm) or millisiemens per centimeter (mS/cm).
Oxidation-reduction potential (ORP) reported in millivolts (mV).

TIME-SERIES GRAPHS

ATTACHMENT C

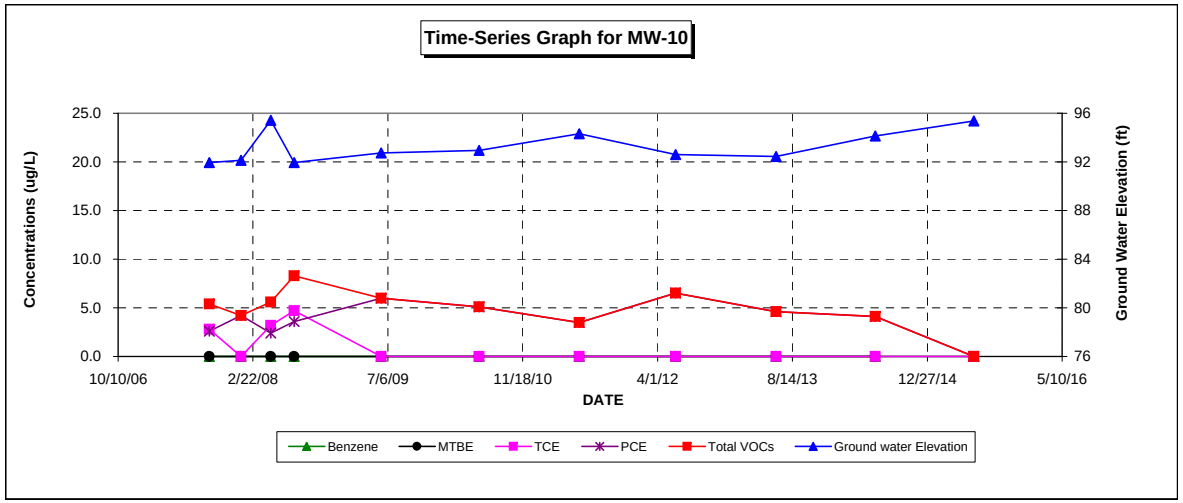


Summary of Ground Water Analytical Results for MW-4

FPH Derby Bulk Facility
Derby, Vermont

Date	MTBE	Benzene	ethyl benzene	naphthalene	n-propyl benzene	Toluene	1,3,5-TMB	1,2,4-TMB	Total xylenes	Chloro-benzene	1,4-dichlorobenzene	Isopropylbenzene	sec-Butylbenzene	Chloro methane	TCE	PCE	Total VOCs	Ground water Elevation
3/23/2007	ND<2.0	ND<1.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	13.0	5.0	2.3	20.3	91.17
7/5/2007	16	440	120	7.0	8.0	1,700	8.5	41	420	16	NS	8.2	2.8	ND<5.0	ND<2.0	ND<2.0	2,788	90.61
9/13/2007	30	1,100	500	49	42	6,700	23	230	1,450	28	7.3	24	7.0	ND<5.0	2.9	ND<2.0	10,193	90.19
1/8/2008	ND<20	370	320	ND<50	29	1,200	30	130	340	ND<20	ND<20	ND<20	ND<20	ND<50	ND<20	ND<2.0	2,419	90.53
4/28/2008	ND<20	1,300	1,700	87	89	ND<20	180	810	8,500	ND<20	ND<20	50	ND<20	ND<50	ND<20	ND<2.0	12,716	92.74
7/23/2008	56	1,500	1,500	200	160	13,000	230	1,000	4,700	25.0	ND<20	73	ND<20	ND<50	ND<20	ND<2.0	22,444	90.41
10/29/2008	ND<1.0	140	16	23	---	84	23	20	61	---	---	---	---	---	---	---	367	90.91
1/30/2009	15	290	350	46	---	250	19	110	214	---	---	---	---	---	---	---	1,294	91.21
4/30/2009	ND<1.0	310	46	50	---	11	110	200	250	---	---	---	---	---	---	---	977	91.94
6/11/2009	2.7	68	51	5.7	4.8	8.0	ND<20	3.4	23	ND<2.0	ND<2.0	2.7	ND<2.0	ND<5.0	ND<2.0	ND<2.0	169	90.98
6/9/2010	ND<2.0	ND<1.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND	91.59
5/23/2011	ND<2.0	15.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	---	---	---	---	---	---	---	15.0	92.90
6/7/2012	ND<2.0	ND<1.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND	90.89
6/14/2013	ND<2.0	ND<1.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND	92.71
6/17/2014	ND<2.0	ND<1.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND	92.19
6/17/2015	ND<2.0	ND<1.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND	92.73
	40	5.0	*700*	*20*	---	1,000	*350 (combined)*		10,000	100	75	---	---	3.0	5.0	5.0	---	---

Notes: Results given in micrograms per liter (ug/L), unless indicated otherwise.
ND- None detected at indicated detection limit.
VGES - Vermont Groundwater Enforcement Standards

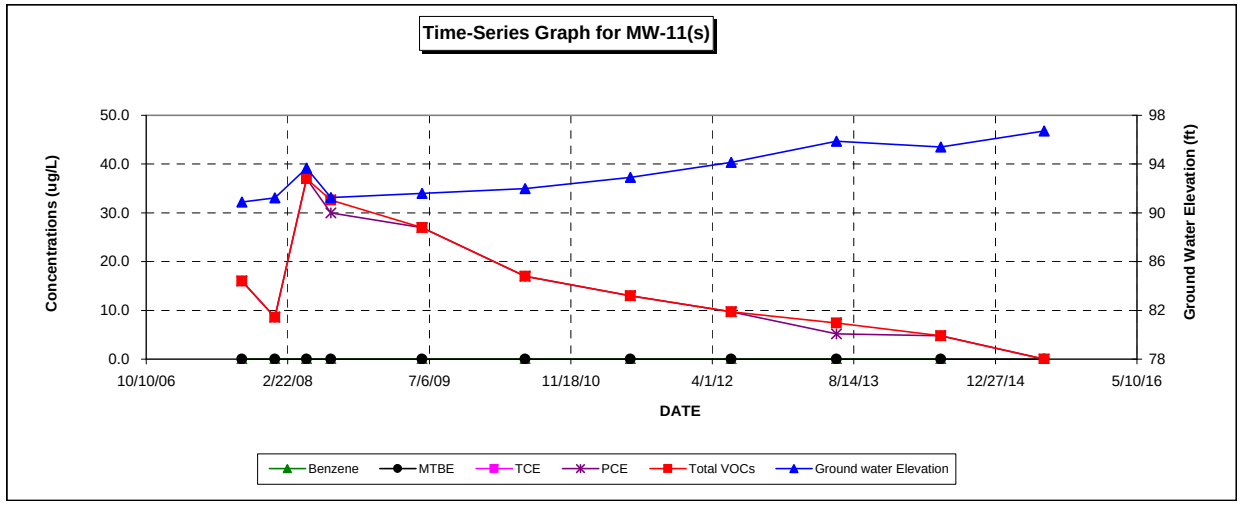


Summary of Ground Water Analytical Results for MW-10

FPH Derby Bulk Facility
Derby, Vermont

Date	MTBE	Benzene	ethyl benzene	naphtha lene	Toluene	1,3,5-TMB	1,2,4-TMB	Total xylenes	TCE	PCE	Total VOCs	Ground water Elevation
9/13/2007	ND<2.0	ND<1.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	**2.8**	**2.6**	**5.4**	**91.94**
1/8/2008	ND<2.0	ND<1.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	**4.2**	**4.2**	**92.12**
4/28/2008	ND<2.0	ND<1.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	**3.2**	**2.4**	**5.6**	**95.41**
7/23/2008	ND<2.0	ND<1.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	**4.7**	**3.6**	**8.3**	**91.95**
6/11/2009	ND<2.0	ND<1.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	**6.0**	**6.0**	**92.74**
6/9/2010	ND<2.0	ND<1.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	**5.1**	**5.1**	**92.96**
6/16/2011	ND<2.0	ND<1.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	**3.5**	**3.5**	**94.32**
6/7/2012	ND<2.0	ND<1.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	**6.5**	**6.5**	**92.60**
6/14/2013	ND<2.0	ND<1.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	**4.6**	**4.6**	**92.44**
6/17/2014	ND<2.0	ND<1.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	**4.1**	**4.1**	**94.13**
6/17/2015	ND<2.0	ND<1.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	**ND**	**95.37**
	40	**5.0**	***700***	***20***	**1,000**	***350 (combined)***		**10,000**	**5.0**	**5.0**	**---**	**---**

Notes: Results given in micrograms per liter (ug/L), unless indicated otherwise.
ND- None detected at indicated detection limit.
VGES - Vermont Groundwater Enforcement Standards
Chloroform detected at 3.2 ug/L in the sample collected on 6/7/2012

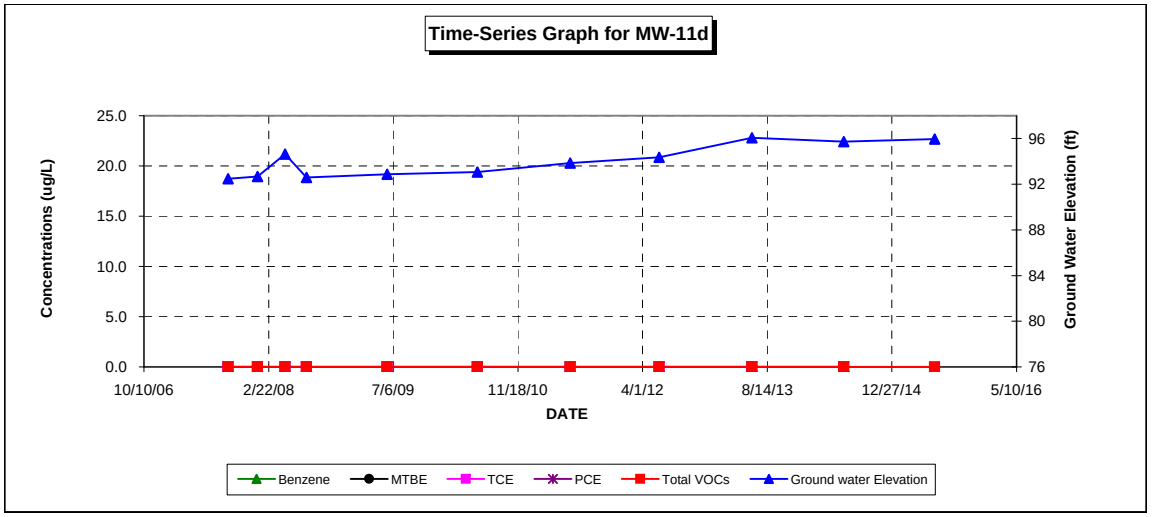


Summary of Ground Water Analytical Results for MW-11(s)

FPH Derby Bulk Facility
Derby, Vermont

Date	MTBE	Benzene	ethyl benzene	naphtha lene	Toluene	1,3,5-TMB	1,2,4-TMB	Total xylenes	TCE	PCE	Total VOCs	Ground water Elevation
9/13/2007	ND<2.0	ND<1.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	16.0	16.0	90.88
1/8/2008	ND<2.0	ND<1.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	8.6	8.6	91.23
4/28/2008	ND<2.0	ND<1.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	37.0	37.0	93.68
7/23/2008	ND<2.0	ND<1.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	2.6	ND<2.0	30.0	32.6	91.26
6/11/2009	ND<2.0	ND<1.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	27.0	27.0	91.60
6/9/2010	ND<2.0	ND<1.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	17.0	17.0	91.98
6/16/2011	ND<2.0	ND<1.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	13.0	13.0	92.90
6/7/2012	ND<2.0	ND<1.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	9.7	9.7	94.15
6/14/2013	ND<2.0	ND<1.0	ND<2.0	ND<5.0	2.2	ND<2.0	ND<2.0	ND<2.0	ND<2.0	5.2	7.4	95.87
6/17/2014	ND<2.0	ND<1.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	4.8	4.8	95.41
6/17/2015	ND<2.0	ND<1.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND	96.72
	40	5.0	*700*	*20*	1,000	*350 (combined)*		10,000	5.0	5.0	---	---

Notes: Results given in micrograms per liter (ug/L), unless indicated otherwise.
ND- None detected at indicated detection limit.
VGES - Vermont Groundwater Enforcement Standards
On 14 June 2013 acetone was detected at 13 ug/L in the MW-11S sample.

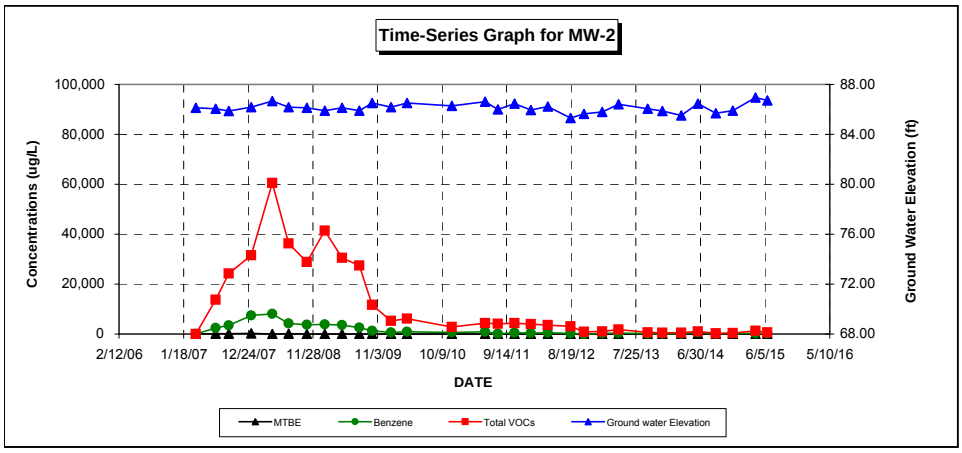


Summary of Ground Water Analytical Results for MW-11d

FPH Derby Bulk Facility
Derby, Vermont

Date	MTBE	Benzene	ethyl benzene	naphtha lene	Toluene	1,3,5-TMB	1,2,4-TMB	Total xylenes	TCE	PCE	Total VOCs	Ground water Elevation
9/13/2007	ND<2.0	ND<1.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	**ND**	**92.48**
1/8/2008	ND<2.0	ND<1.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	**ND**	**92.68**
4/28/2008	ND<2.0	ND<1.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	**ND**	**94.63**
7/23/2008	ND<2.0	ND<1.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	**ND**	**92.58**
6/11/2009	ND<2.0	ND<1.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	**ND**	**92.87**
6/9/2010	ND<2.0	ND<1.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	**ND**	**93.08**
6/16/2011	ND<2.0	ND<1.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	**ND**	**93.85**
6/7/2012	ND<2.0	ND<1.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	**ND**	**94.37**
6/14/2013	ND<2.0	ND<1.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	**ND**	**96.08**
6/17/2014	ND<2.0	ND<1.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	**ND**	**95.74**
6/17/2015	ND<2.0	ND<1.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	**ND**	**95.96**
	40	**5.0**	***700***	***20***	**1,000**	***350 (combined)***		**10,000**	**5.0**	**5.0**	**---**	**---**

Notes: Results given in micrograms per liter (ug/L), unless indicated otherwise.
ND- None detected at indicated detection limit.
VGES - Vermont Groundwater Enforcement Standards

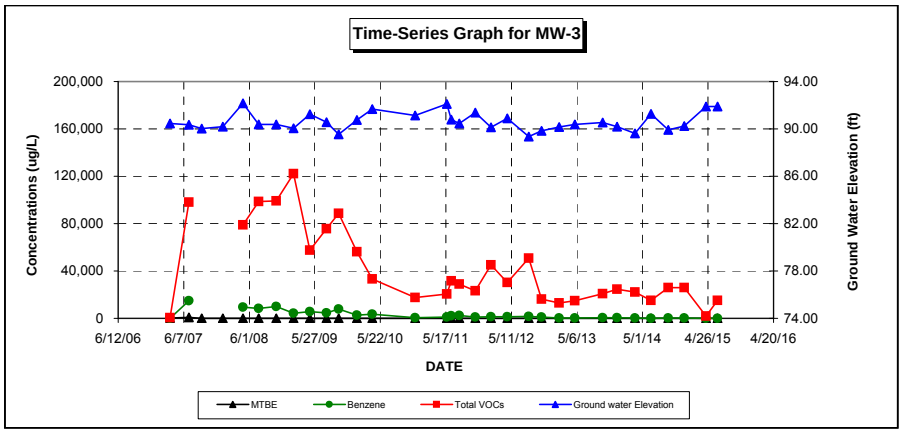


Summary of Ground Water Analytical Results for MW-2

FPH Derby Bulk Facility
Derby, Vermont

Date	MTBE	Benzene	Toluene	ethyl benzene	Total xylenes	1,3,5-TMB	1,2,4-TMB	naphthalene	Total VOCs	Ground water Elevation
3/23/2007	6.2	ND<1.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	20.0	86.12
7/5/2007	190	2,400	8,700	320	1,700	62	170	65	13,719	86.05
9/13/2007	190	3,500	15,000	1,000	3,500	110	560	180	24,185	85.87
1/8/2008	320	7,500	17,000	1,400	4,600	ND<200	660	ND<500	31,480	86.18
4/28/2008	ND<100	8,100	36,000	2,300	12,200	330	1,400	210	60,540	86.66
7/23/2008	120	4,200	20,000	2,300	7,500	390	1,400	320	36,230	86.19
10/28/2008	ND<100	3,700	15,000	2,100	5,900	350	1,400	460	28,910	86.12
1/30/2009	ND<100	3,900	24,000	2,300	9,000	360	1,500	290	41,350	85.90
4/30/2009	ND<100	3,600	13,000	2,200	9,600	380	1,400	330	30,510	86.12
7/31/2009	ND<100	2,600	11,000	2,100	9,500	420	1,500	340	27,460	85.90
10/6/2009	ND<100	1,300	1,500	1,700	5,190	400	1,300	300	11,690	86.52
1/14/2010	14.0	580	290	620	2,550	250	790	170	5,264	86.17
4/7/2010	16.0	890	260	1,000	2,610	260	980	180	6,196	86.52
11/30/2010	ND<10	630	180	380	932	140	420	99	2,781	86.28
5/23/2011	ND<10	900	380	500	1,510	180	730	150	4,350	86.62
7/29/2011	ND<10	190	36	590	1,700	300	1,100	230	4,146	86.00
10/25/2011	ND<10	510	110	760	1,535	280	950	180	4,325	86.47
1/19/2012	ND<10	410	430	600	1,364	220	700	200	3,924	85.95
4/18/2012	ND<10	470	300	590	1,248	180	640	140	3,568	86.22
8/15/2012	ND<10	240	210	560	990	200	730	100	3,030	85.30
10/24/2012	ND<10	60	ND<10	310	170	37	320	61	958	85.64
1/29/2013	ND<10	210	ND<10	300	82	74	270	57	993	85.80
4/24/2013	ND<10	420	110	420	449	22	260	54	1,735	86.41
9/25/2013	ND<10	95	19	240	77	45	160	51	687	86.05
12/12/2013	ND<2.0	150	14	140	49	27	52	27	459	85.88
3/20/2014	ND<1.0	190	28	140	55	30	67	21	531	85.51
6/17/2014	1.6	590	28	120	54	4.1	170	17	985	86.47
9/19/2014	ND<5.0	170	16	53	14	14	13	15	295	85.70
12/16/2014	ND<1.0	210	43	48	41.8	22	20	25	410	85.89
4/15/2015	ND<1.0	270	93	290	533	22	100	30	1,338	86.94
6/17/2015	2.3	300	36	110	64.5	ND<1.0	110	8.2	631	86.72
VGES	*40*	5.0	1,000	*700*	10,000	*350 (combined)*		*20*	---	---
							% reduction		98.96	

Notes: Results given in micrograms per liter (µg/L), unless indicated otherwise.
ND- None detected at indicated detection limit. UIP: Unidentified Peaks.
VGES - Vermont Groundwater Enforcement Standards

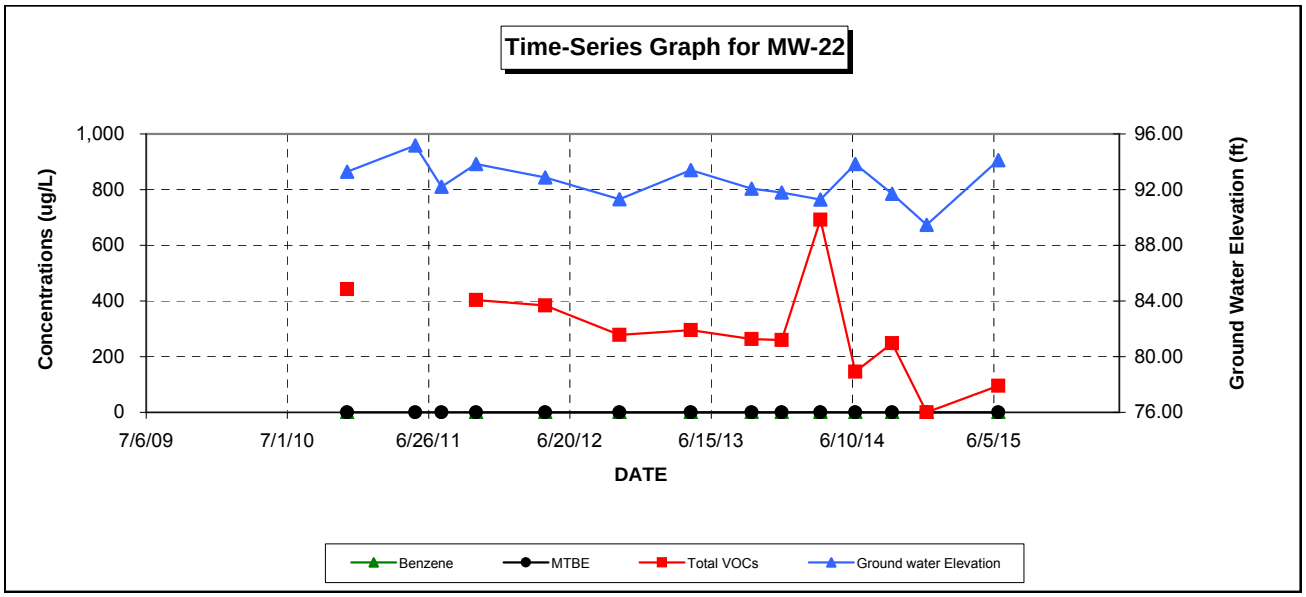


Summary of Ground Water Analytical Results for MW-3

FPH Derby Bulk Facility
Derby, Vermont

Date	MTBE	Benzene	Toluene	ethyl benzene	Total xylenes	1,3,5-TMB	1,2,4-TMB	naphthalene	Total VOCs	Ground water Elevation
3/23/2007	230	72	ND<2.0	3.3	5.6	ND<2.0	20.0	ND<5.0	422.2	90.46
7/5/2007	910	15,000	61,000	3,000	15,200	380	1,500	420	98,240	90.34
9/13/2007	Approximately 0.22 Free-Phase Petroleum									90.04
1/8/2008	Approximately 0.11 Free-Phase Petroleum									90.18
4/28/2008	ND<100	9,500	49,000	2,800	14,800	460	1,900	360	78,820	92.16
7/23/2008	120	8,300	60,000	5,000	20,800	740	3,100	640	98,700	90.37
10/28/2008	ND<100	10,000	62,000	4,000	19,300	600	2,600	800	99,300	90.37
1/30/2009	ND<100	4,200	81,000	5,400	26,800	660	3,100	950	122,110	90.05
4/30/2009	ND<100	5,600	33,000	3,000	13,100	490	1,800	450	57,440	91.24
7/31/2009	ND<100	4,500	43,000	3,800	21,000	540	2,200	660	75,700	90.57
10/6/2009	ND<100	7,900	51,000	4,200	21,700	650	2,600	630	88,680	89.53
1/14/2010	ND<100	2,700	29,000	3,200	17,300	690	2,700	600	56,190	90.76
4/7/2010	ND<100	3,400	16,000	2,100	8,900	480	1,800	520	33,200	91.67
11/30/2010	ND<100	630	6,200	1,400	7,400	350	1,300	260	17,540	91.13
5/23/2011	ND<100	1,200	9,800	1,200	6,400	310	1,200	330	20,440	92.11
6/16/2011	ND<2.0	2,100	15,000	1,900	9,800	560	2,000	350	31,710	90.79
7/29/2011	ND<100	2,300	15,000	1,500	7,700	460	1,600	410	28,970	90.47
10/25/2011	ND<100	1,100	11,000	1,800	7,700	330	1,300	ND<200	23,230	91.38
1/19/2012	ND<100	1,400	27,000	2,100	11,600	570	2,000	560	45,230	90.13
4/18/2012	ND<100	1,300	14,000	2,200	10,600	360	1,500	370	30,330	90.89
8/15/2012	ND<100	1,600	28,000	3,000	15,400	510	2,000	310	50,820	89.34
10/24/2012	ND<100	1,200	5,200	1,400	6,700	280	1,100	370	16,250	89.84
1/29/2013	ND<100	400	1,100	1,000	7,900	490	1,800	360	13,050	90.16
4/24/2013	ND<10	350	5,300	1,500	5,600	370	1,400	260	14,780	90.39
9/25/2013	ND<10	530	10,000	1,500	7,000	330	1,100	280	20,740	90.54
12/12/2013	ND<100	420	8,600	2,000	10,200	570	2,000	680	24,470	90.18
3/20/2014	ND<50	290	7,000	1,900	9,100	820	2,600	410	22,120	89.63
6/17/2014	ND<50	110	5,400	1,500	6,500	280	1,200	240	15,230	91.27
9/19/2014	ND<50	260	11,000	2,500	9,600	530	2,000	190	26,080	89.91
12/16/2014	ND<50	320	7,900	2,700	11,900	640	2,200	360	26,020	90.23
4/15/2015	ND<10	12	240	210	1,060	110	340	42	2,014	91.90
6/17/2015	ND<10	130	4,900	1,600	6,400	410	1,400	290	15,130	91.90
VGES	*40*	5.0	1,000	*700*	10,000	*350 (combined)*		*20*	---	---
							% reduction		87.61	

Notes: Results given in micrograms per liter (µg/L), unless indicated otherwise.
ND- None detected at indicated detection limit. UIP: Unidentified Peaks.
VGES - Vermont Groundwater Enforcement Standards

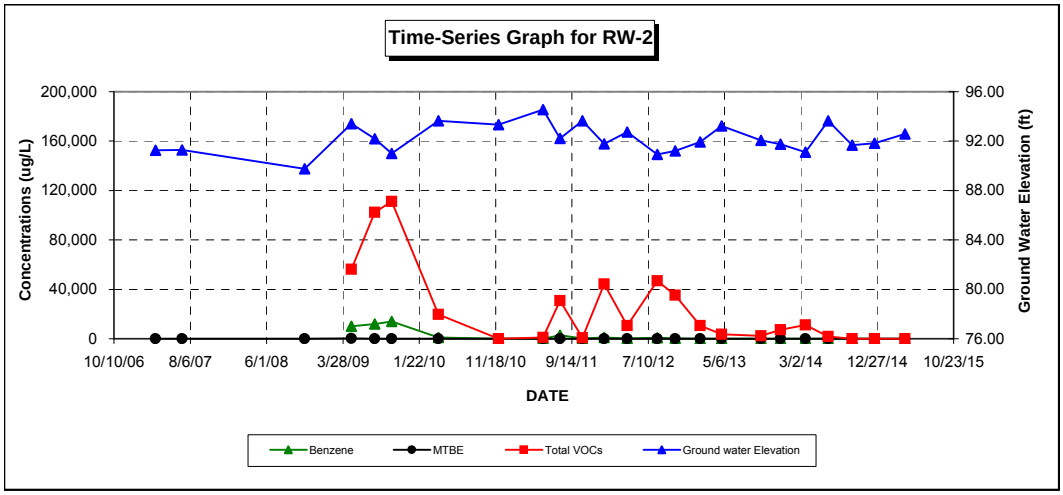


Summary of Ground Water Analytical Results for MW-22

FPH Derby Bulk Facility
Derby, Vermont

Date	MTBE	Benzene	Toluene	ethyl benzene	Total xylenes	1,3,5-TMB	1,2,4-TMB	naphthalene	Total VOCs	Ground water Elevation
11/30/2010	ND<2.0	ND<1.0	ND<2.0	34	23.3	45	220	120	442.3	93.28
5/23/2011	0.28 Free-Phase Petroleum									95.17
7/29/2011	0.49 Free-Phase Petroleum									92.20
10/25/2011	ND<2.0	ND<1.0	19	24	28	50	200	83	404.0	93.85
4/18/2012	ND<2.0	ND<1.0	ND<1.0	15	8.8	50	190	120	383.8	92.88
10/24/2012	ND<2.0	ND<1.0	ND<1.0	6.9	67.0	28	170	6.7	278.6	91.31
4/24/2013	ND<2.0	ND<1.0	ND<1.0	6.0	5.2	71	160	53	295.2	93.41
9/26/2013	ND<2.0	ND<1.0	ND<1.0	6.6	2.9	50	150	54	263.5	92.07
12/12/2013	ND<2.0	ND<1.0	1.4	6.5	4.3	48	150	49	259.2	91.79
3/20/2014	ND<1.0	1.0	52	30	268	64	210	67	692.0	91.28
6/17/2014	ND<1.0	ND<1.0	ND<1.0	2.0	ND<2.0	24	99	21	146.0	93.85
9/19/2014	ND<1.0	ND<1.0	ND<1.0	5.0	2.8	44	160	36	247.8	91.71
12/16/2014	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<1.0	ND<1.0	ND<1.0	ND	89.48
6/17/2015	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	17	69	9.7	95.7	94.11
	40	5.0	1,000	*700*	10,000	*350 (combined)*		*20*	---	---
							% reduction		85.79	

Notes: Results given in micrograms per liter (µg/L), unless indicated otherwise.
ND- None detected at indicated detection limit.
VGES - Vermont Groundwater Enforcement Standards

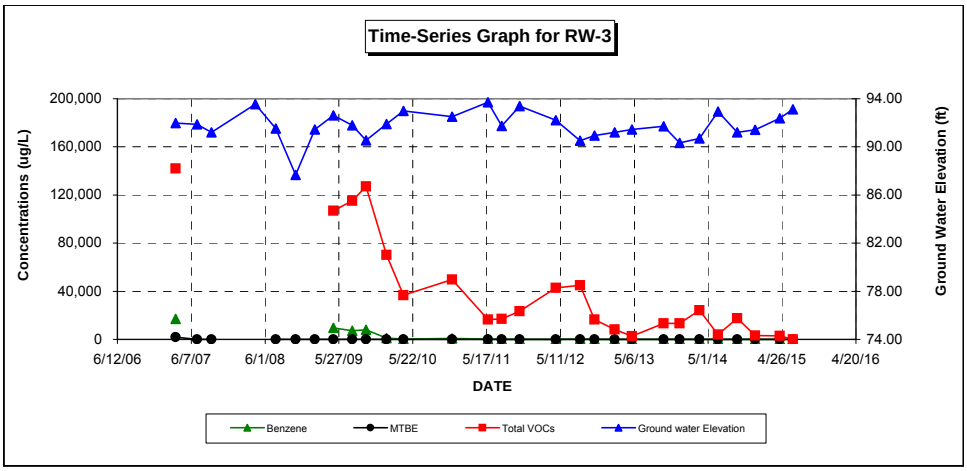


Summary of Ground Water Analytical Results for RW-2

FPH Derby Bulk Facility
Derby, Vermont

Date	MTBE	Benzene	Toluene	ethyl benzene	Total xylenes	1,3,5-TMB	1,2,4-TMB	naphthalene	Total VOCs	Ground water Elevation
3/23/2007	2.97 Feet Free-Phase Petroleum									91.27
7/5/2007	0.09 Free-Phase Petroleum									91.28
10/28/2008	0.10 Free-Phase Petroleum									89.75
4/30/2009	170	10,000	34,000	910	8,600	300	1,400	960	56,340	93.41
7/31/2009	ND<100	12,000	66,000	3,200	18,000	450	1,900	690	102,240	92.20
10/6/2009	ND<100	14,000	73,000	3,600	17,800	470	1,800	590	111,260	91.00
4/7/2010	ND<100	1,100	10,000	1,100	6,000	310	1,000	200	19,710	93.64
11/30/2010	ND<1.0	ND<1.0	21	2.6	21.7	1.3	4.9	5.9	57.4	93.34
5/23/2011	ND<1.0	74	200	47	600	19	43	13	996	94.55
7/29/2011	ND<1.0	2,800	10,000	1,500	14,400	380	1,400	410	30,890	92.22
10/25/2011	ND<1.0	150	19	87	257	41	130	24	708	93.65
1/19/2012	ND<100	1,000	22,000	1,600	16,400	530	2,000	670	44,200	91.78
4/18/2012	ND<10	260	6,400	280	3,200	88	310	86	10,624	92.73
8/15/2012	ND<100	710	30,000	1,200	12,400	340	1,700	530	46,880	90.91
10/24/2012	ND<100	350	20,000	1,300	11,500	360	1,400	420	35,330	91.22
1/30/2013	ND<100	ND<100	5,700	360	4,100	140	420	ND<200	10,720	91.93
4/24/2013	ND<100	ND<100	2,000	130	1,310	66	180	56	3,742	93.23
9/26/2013	ND<10	120	570	97	1,130	69	130	100	2,216	92.07
12/12/2013	ND<10	100	1,500	410	4,000	260	670	310	7,250	91.74
3/20/2014	ND<10	54	1,800	710	6,800	340	1,100	420	11,224	91.11
6/17/2014	ND<10	25	20	46	1,450	100	120	43	1,804	93.64
9/19/2014	ND<10	4.7	7.2	3.0	32	1.7	5.0	ND<2.0	53.6	91.67
12/16/2014	ND<1.0	ND<1.0	4.1	ND<1.0	9.1	ND<1.0	1.1	ND<2.0	14.3	91.82
4/15/2015	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<1.0	ND<1.0	ND<2.0	ND	92.57
6/17/2015	ND<1.0	1.5	ND<1.0	7.1	57	8.4	9.6	ND<2.0	83.6	93.99
VGES	40	5.0	1,000	700	10,000	350 (combined)		20	---	---
							% reduction		99.85	

Notes: Results given in micrograms per liter (µg/L), unless indicated otherwise.
ND- None detected at indicated detection limit.
VGES - Vermont Groundwater Enforcement Standards
TPH = Total Petroleum Hydrocarbons
1,4-dichlorobenzene was detetected at a concentration of 3.3 ug/L during the 23 March 2007 Sampling Event.



Summary of Ground Water Analytical Results for RW-3

FPH Derby Bulk Facility
Derby, Vermont

Date	MTBE	Benzene	Toluene	ethyl benzene	Total xylenes	1,3,5-TMB	1,2,4-TMB	naphthalene	Total VOCs	Ground water Elevation
3/23/2007	1,800	17,000	89,000	4,900	25,200	670	2,800	530	141,900	91.98
7/5/2007	0.05 Free-Phase Petroleum									91.86
9/13/2007	0.08 Free-Phase Petroleum									91.22
4/14/2008										93.55
7/23/2008	0.09 Free-Phase Petroleum									91.53
10/28/2008	4.13 Free-Phase Petroleum									87.68
1/30/2009	0.40 Free-Phase Petroleum									91.44
4/30/2009	ND<100	9,500	69,000	3,800	20,300	660	2,800	810	106,870	92.61
7/31/2009	ND<100	7,100	71,000	5,000	27,500	710	2,900	890	115,100	91.80
10/6/2009	ND<100	8,000	82,000	5,500	27,400	690	2,800	760	127,150	90.55
1/14/2010	ND<100	1,000	38,000	3,900	23,200	720	2,900	580	70,300	91.91
4/7/2010	ND<100	360	15,000	2,300	15,900	540	2,100	420	36,620	92.99
11/30/2010	ND<100	890	30,000	2,000	15,000	360	1,300	240	49,790	92.50
5/23/2011	ND<100	200	6,800	970	8,000	120	460	ND<200	16,550	93.70
7/29/2011	ND<100	ND<100	4,500	1,100	8,700	480	1,800	360	16,940	91.73
10/25/2011	ND<20	130	8,700	1,700	11,400	250	1,100	180	23,460	93.40
4/18/2012	ND<20	58	14,000	3,300	20,800	750	3,300	700	42,908	92.23
8/15/2012	ND<100	220	11,000	4,200	25,900	560	2,400	740	45,020	90.52
10/24/2012	ND<100	ND<100	780	1,900	10,700	510	2,200	470	16,560	90.95
1/30/2013	ND<100	ND<100	200	1,000	4,530	470	1,800	220	8,220	91.22
4/24/2013	ND<100	ND<100	11	450	1,335	450	150	150	2,546	91.44
9/26/2013	ND<10	28	390	1,500	8,400	670	1,800	440	13,228	91.70
12/12/2013	ND<20	31	240	1,800	7,700	670	2,300	670	13,411	90.33
3/20/2014	ND<20	72	1,600	2,800	13,800	1,100	4,000	750	24,122	90.70
6/17/2014	ND<50	ND<50	400	270	1,940	330	850	130	3,920	92.93
9/19/2014	ND<20	55	1,300	1,900	9,700	960	3,200	340	17,455	91.21
12/16/2014	ND<20	ND<20	ND<20	270	1,360	320	1,200	99	3,249	91.43
4/15/2015	ND<10	ND<10	14	300	979	380	1,200	110	2,983	92.37
6/17/2015	ND<1.0	ND<1.0	12	5.0	24.1	3.2	9.2	2.0	55.5	93.13
VGES	40	5.0	1,000	700	10,000	350 (combined)		20.0	---	---
							% reduction		99.96	

Notes: Results given in micrograms per liter (µg/L), unless indicated otherwise.
ND- None detected at indicated detection limit.
VGES - Vermont Groundwater Enforcement Standards
TPH = Total Petroleum Hydrocarbons
1,4-dichlorobenzene was detetected at a concentration of 3.3 ug/L during the 23 March 2007 Sampling Event.

LABORATORY ANALYTICAL REPORTS

ATTACHMENT D

AMRO Environmental Laboratories Corp.

Date: *25-Jun-15*

CLIENT: Ross Environmental Associates
Project: 27-013 Derby Bulk
Lab Order: 1506059
Date Received: 6/18/2015

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Collection Date	Collection Time
1506059-01A	MW-2	6/17/2015	10:35 AM
1506059-02A	MW-22	6/17/2015	10:55 AM
1506059-03A	MW-3	6/17/2015	10:15 AM
1506059-04A	RW-2	6/17/2015	10:00 AM
1506059-05A	RW-3	6/17/2015	9:40 AM
1506059-06A	Dup	6/17/2015	12:00 AM

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DATA COMMENT PAGE

Organic Data Qualifiers

ND	Indicates compound was analyzed for, but not detected at or above the reporting limit.
J	Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than the method detection limit.
H	Method prescribed holding time exceeded.
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
B	This flag is used when the analyte is found in the associated blank as well as in the sample.
R	RPD outside accepted recovery limits
RL	Reporting limit; defined as the lowest concentration the laboratory can accurately quantitate.
S	Spike Recovery outside accepted recovery limits.
#	See Case Narrative
Q	RPD between signal 1 and signal 2 >40%.

Micro Data Qualifiers

TNTC	Too numerous to count

Inorganic Data Qualifiers

ND or U	Indicates element was analyzed for, but not detected at or above the reporting limit.
J	Indicates a value greater than or equal to the method detection limit, but less than the quantitation limit.
H	Indicates analytical holding time exceedance.
B	Indicates that the analyte is found in the associated blank, as well as in the sample.
MSA	Indicates value determined by the Method of Standard Addition
+	Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
R	RPD outside accepted recovery limits
RL	Reporting limit; defined as the lowest concentration the laboratory can accurately quantitate.
S	Spike Recovery outside accepted recovery limits.
PS	The analyte was below the Reporting Limit but has significant matrix interference as noted by the poor recovery of the Post Digestion Spike.
#	See Case Narrative
*	MCL Exceeded

Report Comments:

1. Soil, sediment and sludge sample results are reported on a "dry weight" basis.
2. Reporting limits are adjusted for sample size used, dilutions and moisture content, if applicable.

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AMRO Environmental Laboratories Corp.

Date: *25-Jun-15*

CLIENT: Ross Environmental Associates
Project: 27-013 Derby Bulk

Lab Order: 1506059

Lab ID: 1506059-01 **Collection Date:** 6/17/2015 10:35:00 AM
Collection Time:
Client Sample ID: MW-2 **Matrix:** GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA 8260C AROMATIC VOLATILES BY GC/MS		**SW8260C**				Analyst: **SK**
Methyl tert-butyl ether	2.3	1.0		µg/L	1	6/23/2015 4:06:00 PM
Benzene	300	1.0		µg/L	1	6/23/2015 4:06:00 PM
Toluene	36	1.0		µg/L	1	6/23/2015 4:06:00 PM
Ethylbenzene	110	1.0		µg/L	1	6/23/2015 4:06:00 PM
m,p-Xylene	58	2.0		µg/L	1	6/23/2015 4:06:00 PM
o-Xylene	6.5	2.0		µg/L	1	6/23/2015 4:06:00 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	6/23/2015 4:06:00 PM
1,2,4-Trimethylbenzene	110	1.0		µg/L	1	6/23/2015 4:06:00 PM
Naphthalene	8.2	2.0		µg/L	1	6/23/2015 4:06:00 PM
Surr: Dibromofluoromethane	91.7	68-122		%REC	1	6/23/2015 4:06:00 PM
Surr: 1,2-Dichloroethane-d4	87.8	69-130		%REC	1	6/23/2015 4:06:00 PM
Surr: Toluene-d8	100	69-121		%REC	1	6/23/2015 4:06:00 PM
Surr: 4-Bromofluorobenzene	97.8	62-129		%REC	1	6/23/2015 4:06:00 PM

Lab ID: 1506059-02 **Collection Date:** 6/17/2015 10:55:00 AM
Collection Time:
Client Sample ID: MW-22 **Matrix:** GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA 8260C AROMATIC VOLATILES BY GC/MS		**SW8260C**				Analyst: **SK**
Methyl tert-butyl ether	ND	1.0		µg/L	1	6/23/2015 1:05:00 PM
Benzene	ND	1.0		µg/L	1	6/23/2015 1:05:00 PM
Toluene	ND	1.0		µg/L	1	6/23/2015 1:05:00 PM
Ethylbenzene	ND	1.0		µg/L	1	6/23/2015 1:05:00 PM
m,p-Xylene	ND	2.0		µg/L	1	6/23/2015 1:05:00 PM
o-Xylene	ND	2.0		µg/L	1	6/23/2015 1:05:00 PM
1,3,5-Trimethylbenzene	17	1.0		µg/L	1	6/23/2015 1:05:00 PM
1,2,4-Trimethylbenzene	69	1.0		µg/L	1	6/23/2015 1:05:00 PM
Naphthalene	9.7	2.0		µg/L	1	6/23/2015 1:05:00 PM
Surr: Dibromofluoromethane	95.4	68-122		%REC	1	6/23/2015 1:05:00 PM
Surr: 1,2-Dichloroethane-d4	97.0	69-130		%REC	1	6/23/2015 1:05:00 PM
Surr: Toluene-d8	101	69-121		%REC	1	6/23/2015 1:05:00 PM
Surr: 4-Bromofluorobenzene	97.7	62-129		%REC	1	6/23/2015 1:05:00 PM

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AMRO Environmental Laboratories Corp.

Date: *25-Jun-15*

CLIENT: Ross Environmental Associates
Project: 27-013 Derby Bulk

Lab Order: 1506059

Lab ID: 1506059-03 **Collection Date:** 6/17/2015 10:15:00 AM
Collection Time:
Client Sample ID: MW-3 **Matrix:** GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA 8260C AROMATIC VOLATILES BY GC/MS		**SW8260C**				Analyst: **SK**
Methyl tert-butyl ether	ND	10		µg/L	10	6/23/2015 2:16:00 PM
Benzene	130	10		µg/L	10	6/23/2015 2:16:00 PM
Toluene	4,900	100		µg/L	100	6/24/2015 12:39:00 PM
Ethylbenzene	1,600	10		µg/L	10	6/23/2015 2:16:00 PM
m,p-Xylene	4,900	20		µg/L	10	6/23/2015 2:16:00 PM
o-Xylene	1,500	20		µg/L	10	6/23/2015 2:16:00 PM
1,3,5-Trimethylbenzene	410	10		µg/L	10	6/23/2015 2:16:00 PM
1,2,4-Trimethylbenzene	1,400	10		µg/L	10	6/23/2015 2:16:00 PM
Naphthalene	290	20		µg/L	10	6/23/2015 2:16:00 PM
Surr: Dibromofluoromethane	91.9	68-122		%REC	10	6/23/2015 2:16:00 PM
Surr: 1,2-Dichloroethane-d4	85.3	69-130		%REC	10	6/23/2015 2:16:00 PM
Surr: Toluene-d8	101	69-121		%REC	10	6/23/2015 2:16:00 PM
Surr: 4-Bromofluorobenzene	99.4	62-129		%REC	10	6/23/2015 2:16:00 PM

Lab ID: 1506059-04 **Collection Date:** 6/17/2015 10:00:00 AM
Collection Time:
Client Sample ID: RW-2 **Matrix:** GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA 8260C AROMATIC VOLATILES BY GC/MS		**SW8260C**				Analyst: **SK**
Methyl tert-butyl ether	ND	1.0		µg/L	1	6/23/2015 1:41:00 PM
Benzene	1.5	1.0		µg/L	1	6/23/2015 1:41:00 PM
Toluene	ND	1.0		µg/L	1	6/23/2015 1:41:00 PM
Ethylbenzene	7.1	1.0		µg/L	1	6/23/2015 1:41:00 PM
m,p-Xylene	37	2.0		µg/L	1	6/23/2015 1:41:00 PM
o-Xylene	20	2.0		µg/L	1	6/23/2015 1:41:00 PM
1,3,5-Trimethylbenzene	8.4	1.0		µg/L	1	6/23/2015 1:41:00 PM
1,2,4-Trimethylbenzene	9.6	1.0		µg/L	1	6/23/2015 1:41:00 PM
Naphthalene	ND	2.0		µg/L	1	6/23/2015 1:41:00 PM
Surr: Dibromofluoromethane	90.2	68-122		%REC	1	6/23/2015 1:41:00 PM
Surr: 1,2-Dichloroethane-d4	82.4	69-130		%REC	1	6/23/2015 1:41:00 PM
Surr: Toluene-d8	99.3	69-121		%REC	1	6/23/2015 1:41:00 PM
Surr: 4-Bromofluorobenzene	98.2	62-129		%REC	1	6/23/2015 1:41:00 PM

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AMRO Environmental Laboratories Corp.

Date: *25-Jun-15*

CLIENT: Ross Environmental Associates
Project: 27-013 Derby Bulk

Lab Order: 1506059

Lab ID: 1506059-05 **Collection Date:** 6/17/2015 9:40:00 AM
Collection Time:
Client Sample ID: RW-3 **Matrix:** GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA 8260C AROMATIC VOLATILES BY GC/MS		**SW8260C**				Analyst: **SK**
Methyl tert-butyl ether	ND	1.0		µg/L	1	6/24/2015 12:05:00 PM
Benzene	ND	1.0		µg/L	1	6/24/2015 12:05:00 PM
Toluene	12	1.0		µg/L	1	6/24/2015 12:05:00 PM
Ethylbenzene	5.0	1.0		µg/L	1	6/24/2015 12:05:00 PM
m,p-Xylene	21	2.0		µg/L	1	6/24/2015 12:05:00 PM
o-Xylene	3.1	2.0		µg/L	1	6/24/2015 12:05:00 PM
1,3,5-Trimethylbenzene	3.2	1.0		µg/L	1	6/24/2015 12:05:00 PM
1,2,4-Trimethylbenzene	9.2	1.0		µg/L	1	6/24/2015 12:05:00 PM
Naphthalene	2.0	2.0		µg/L	1	6/24/2015 12:05:00 PM
Surr: Dibromofluoromethane	98.2	68-122		%REC	1	6/24/2015 12:05:00 PM
Surr: 1,2-Dichloroethane-d4	91.1	69-130		%REC	1	6/24/2015 12:05:00 PM
Surr: Toluene-d8	104	69-121		%REC	1	6/24/2015 12:05:00 PM
Surr: 4-Bromofluorobenzene	97.3	62-129		%REC	1	6/24/2015 12:05:00 PM

Lab ID: 1506059-06 **Collection Date:** 6/17/2015
Collection Time:
Client Sample ID: Dup **Matrix:** GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA 8260C AROMATIC VOLATILES BY GC/MS		**SW8260C**				Analyst: **SK**
Methyl tert-butyl ether	ND	10		µg/L	10	6/23/2015 3:29:00 PM
Benzene	320	10		µg/L	10	6/23/2015 3:29:00 PM
Toluene	36	10		µg/L	10	6/23/2015 3:29:00 PM
Ethylbenzene	110	10		µg/L	10	6/23/2015 3:29:00 PM
m,p-Xylene	53	20		µg/L	10	6/23/2015 3:29:00 PM
o-Xylene	ND	20		µg/L	10	6/23/2015 3:29:00 PM
1,3,5-Trimethylbenzene	ND	10		µg/L	10	6/23/2015 3:29:00 PM
1,2,4-Trimethylbenzene	110	10		µg/L	10	6/23/2015 3:29:00 PM
Naphthalene	ND	20		µg/L	10	6/23/2015 3:29:00 PM
Surr: Dibromofluoromethane	96.0	68-122		%REC	10	6/23/2015 3:29:00 PM
Surr: 1,2-Dichloroethane-d4	86.0	69-130		%REC	10	6/23/2015 3:29:00 PM
Surr: Toluene-d8	101	69-121		%REC	10	6/23/2015 3:29:00 PM
Surr: 4-Bromofluorobenzene	101	62-129		%REC	10	6/23/2015 3:29:00 PM

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AMRO Environmental Laboratories Corporation
111 Herrick Street
Merrimack, NH 03054

CHAIN-OF-CUSTODY RECORD

NO: 65080

Office: (603) 424-2022
Fax: (603) 429-8496
web: www.amrolabs.com

Project No.:	Project Name:	Project State:	Project Manager:	Samplers (Signature):	AMRO Project No.:
27-013	Derby Bulk	VT	James Grocoine	[signature]	

P.O.#:	Results Needed by:

QUOTE #:	Seal Intact? Yes No N/A

REQUESTED ANALYSES

Remarks: R.E.A VT PRICING

Sample ID.:	Date/Time Sampled	Matrix	Total # of Cont. & Size	Comp.	Grab	VOC 8021b
MW-2	6.17.15/ 1035	GW	2/40mL		X	X
MW-22	6.17.15/ 1055	GW	2/40mL		X	X
MW-3	6.17.15/ 1015	GW	2/40mL		X	X
RW-2	6.17.15/ 1000	GW	2/40mL		X	X
RW-3	6.17.15/ 0940	GW	2/40mL		X	X
DUP	6.17.15/ —	GW	2/40mL		X	X
TRIP BLANK	6.17.15/ 1400	GW	2/40mL		X	X

Preservative: Cl-HCl, MeOH, N-HN03, S-H2SO4, Na-NaOH, O- Other

Send Results To:
R.E.A
S. MAIN ST
STOWE VT

PRIORITY TURNAROUND TIME AUTHORIZATION
Before submitting samples for expedited TAT, you must *have a coded AUTHORIZATION NUMBER*
AUTHORIZATION No.: **BY:**

METALS 8 RCRA ☐ 13 PP ☐ 23 TAL ☐ 14 MCP ☐
Method: 6010 ☐ 200.7 ☐ **Other Metals:**
Dissolved Metals Field Filtered? YES ☐ NO ☐

PHONE #: 802-253-4280 **FAX #:**
E-mail: ehlanchard@reart.com

MCP Presumptive Certainty Required? YES ☐ NO ☐
MCP Methods Needed: YES ☐ NO ☐
Required Reporting Limits: S-1 ☐ GW-1 ☐ S-2 ☐ GW-2 ☐ S-3 ☐ GW-3 ☐ Other:

Relinquished By:	Date/Time	Received By
[signature]	6.17.15/1430	

AMRO report package level needed:
EDD required:

Please print clearly, legibly and completely. Samples can not be logged in and the turnaround time clock will not start until any ambiguities are resolved.

Samples arriving after 12:00 noon will be tracked and billed as received on the following day.

AMRO policy requires notification in writing to the laboratory in cases where the samples were collected from highly contaminated sites.

KNOWN SITE CONTAMINATION:

White: Lab Copy Yellow: Client Copy

SHEET 1 OF 1

AMROCOC2004, Rev.3 08/18/04

AMRO Environmental Laboratories Corp.

Date: *24-Jun-15*

CLIENT: Ross Environmental Associates
Project: 28-030 Derby Bulk Solvent
Lab Order: 1506058
Date Received: 6/18/2015

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Collection Date	Collection Time
1506058-01A	MW-4	6/17/2015	11:45 AM
1506058-02A	MW-10	6/17/2015	11:15 AM
1506058-03A	MW-11s	6/17/2015	11:30 AM
1506058-04A	MW-11d	6/17/2015	12:00 PM
1506058-05A	Dup	6/17/2015	12:00 AM
1506058-06A	Trip Blank	6/17/2015	2:00 PM

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DATA COMMENT PAGE

Organic Data Qualifiers

ND	Indicates compound was analyzed for, but not detected at or above the reporting limit.
J	Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than the method detection limit.
H	Method prescribed holding time exceeded.
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
B	This flag is used when the analyte is found in the associated blank as well as in the sample.
R	RPD outside accepted recovery limits
RL	Reporting limit; defined as the lowest concentration the laboratory can accurately quantitate.
S	Spike Recovery outside accepted recovery limits.
#	See Case Narrative
Q	RPD between signal 1 and signal 2 >40%.

Micro Data Qualifiers

TNTC	Too numerous to count

Inorganic Data Qualifiers

ND or U	Indicates element was analyzed for, but not detected at or above the reporting limit.
J	Indicates a value greater than or equal to the method detection limit, but less than the quantitation limit.
H	Indicates analytical holding time exceedance.
B	Indicates that the analyte is found in the associated blank, as well as in the sample.
MSA	Indicates value determined by the Method of Standard Addition
+	Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
R	RPD outside accepted recovery limits
RL	Reporting limit; defined as the lowest concentration the laboratory can accurately quantitate.
S	Spike Recovery outside accepted recovery limits.
PS	The analyte was below the Reporting Limit but has significant matrix interference as noted by the poor recovery of the Post Digestion Spike.
#	See Case Narrative
*	MCL Exceeded

Report Comments:

1. Soil, sediment and sludge sample results are reported on a "dry weight" basis.
2. Reporting limits are adjusted for sample size used, dilutions and moisture content, if applicable.

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AMRO Environmental Laboratories Corp.

Date: *24-Jun-15*

CLIENT:	Ross Environmental Associates	**Client Sample ID:**	MW-4
Lab Order:	1506058	**Collection Date:**	6/17/2015 11:45:00 AM
Project:	28-030 Derby Bulk Solvent	**Matrix:**	GROUNDWATER
Lab ID:	1506058-01A		

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA 8260C VOLATILES BY GC/MS		**SW8260C**				Analyst: **SK**
Dichlorodifluoromethane	ND	5.0		µg/L	1	6/22/2015 6:06:00 PM
Chloromethane	ND	5.0		µg/L	1	6/22/2015 6:06:00 PM
Vinyl chloride	ND	2.0		µg/L	1	6/22/2015 6:06:00 PM
Chloroethane	ND	5.0		µg/L	1	6/22/2015 6:06:00 PM
Bromomethane	ND	2.0		µg/L	1	6/22/2015 6:06:00 PM
Trichlorofluoromethane	ND	2.0		µg/L	1	6/22/2015 6:06:00 PM
Diethyl ether	ND	5.0		µg/L	1	6/22/2015 6:06:00 PM
Acetone	ND	10		µg/L	1	6/22/2015 6:06:00 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	6/22/2015 6:06:00 PM
Carbon disulfide	ND	2.0		µg/L	1	6/22/2015 6:06:00 PM
Methylene chloride	ND	5.0		µg/L	1	6/22/2015 6:06:00 PM
Methyl tert-butyl ether	ND	2.0		µg/L	1	6/22/2015 6:06:00 PM
trans-1,2-Dichloroethene	ND	2.0		µg/L	1	6/22/2015 6:06:00 PM
1,1-Dichloroethane	ND	2.0		µg/L	1	6/22/2015 6:06:00 PM
2-Butanone	ND	10		µg/L	1	6/22/2015 6:06:00 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	6/22/2015 6:06:00 PM
cis-1,2-Dichloroethene	ND	2.0		µg/L	1	6/22/2015 6:06:00 PM
Chloroform	ND	2.0		µg/L	1	6/22/2015 6:06:00 PM
Tetrahydrofuran	ND	10		µg/L	1	6/22/2015 6:06:00 PM
Bromochloromethane	ND	2.0		µg/L	1	6/22/2015 6:06:00 PM
1,1,1-Trichloroethane	ND	2.0		µg/L	1	6/22/2015 6:06:00 PM
1,1-Dichloropropene	ND	2.0		µg/L	1	6/22/2015 6:06:00 PM
Carbon tetrachloride	ND	2.0		µg/L	1	6/22/2015 6:06:00 PM
1,2-Dichloroethane	ND	2.0		µg/L	1	6/22/2015 6:06:00 PM
Benzene	ND	1.0		µg/L	1	6/22/2015 6:06:00 PM
Trichloroethene	ND	2.0		µg/L	1	6/22/2015 6:06:00 PM
1,2-Dichloropropane	ND	2.0		µg/L	1	6/22/2015 6:06:00 PM
Bromodichloromethane	ND	2.0		µg/L	1	6/22/2015 6:06:00 PM
Dibromomethane	ND	2.0		µg/L	1	6/22/2015 6:06:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	6/22/2015 6:06:00 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	6/22/2015 6:06:00 PM
Toluene	ND	2.0		µg/L	1	6/22/2015 6:06:00 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	6/22/2015 6:06:00 PM
1,1,2-Trichloroethane	ND	2.0		µg/L	1	6/22/2015 6:06:00 PM
1,2-Dibromoethane	ND	2.0		µg/L	1	6/22/2015 6:06:00 PM
2-Hexanone	ND	10		µg/L	1	6/22/2015 6:06:00 PM
1,3-Dichloropropane	ND	2.0		µg/L	1	6/22/2015 6:06:00 PM
Tetrachloroethene	ND	2.0		µg/L	1	6/22/2015 6:06:00 PM
Dibromochloromethane	ND	2.0		µg/L	1	6/22/2015 6:06:00 PM

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AMRO Environmental Laboratories Corp.

Date: *24-Jun-15*

CLIENT:	Ross Environmental Associates	**Client Sample ID:**	MW-4
Lab Order:	1506058	**Collection Date:**	6/17/2015 11:45:00 AM
Project:	28-030 Derby Bulk Solvent	**Matrix:**	GROUNDWATER
Lab ID:	1506058-01A		

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Chlorobenzene	ND	2.0		µg/L	1	6/22/2015 6:06:00 PM
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	1	6/22/2015 6:06:00 PM
Ethylbenzene	ND	2.0		µg/L	1	6/22/2015 6:06:00 PM
m,p-Xylene	ND	2.0		µg/L	1	6/22/2015 6:06:00 PM
o-Xylene	ND	2.0		µg/L	1	6/22/2015 6:06:00 PM
Styrene	ND	2.0		µg/L	1	6/22/2015 6:06:00 PM
Bromoform	ND	2.0		µg/L	1	6/22/2015 6:06:00 PM
Isopropylbenzene	ND	2.0		µg/L	1	6/22/2015 6:06:00 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	6/22/2015 6:06:00 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	6/22/2015 6:06:00 PM
Bromobenzene	ND	2.0		µg/L	1	6/22/2015 6:06:00 PM
n-Propylbenzene	ND	2.0		µg/L	1	6/22/2015 6:06:00 PM
2-Chlorotoluene	ND	2.0		µg/L	1	6/22/2015 6:06:00 PM
4-Chlorotoluene	ND	2.0		µg/L	1	6/22/2015 6:06:00 PM
1,3,5-Trimethylbenzene	ND	2.0		µg/L	1	6/22/2015 6:06:00 PM
tert-Butylbenzene	ND	2.0		µg/L	1	6/22/2015 6:06:00 PM
1,2,4-Trimethylbenzene	ND	2.0		µg/L	1	6/22/2015 6:06:00 PM
sec-Butylbenzene	ND	2.0		µg/L	1	6/22/2015 6:06:00 PM
4-Isopropyltoluene	ND	2.0		µg/L	1	6/22/2015 6:06:00 PM
1,3-Dichlorobenzene	ND	2.0		µg/L	1	6/22/2015 6:06:00 PM
1,4-Dichlorobenzene	ND	2.0		µg/L	1	6/22/2015 6:06:00 PM
n-Butylbenzene	ND	2.0		µg/L	1	6/22/2015 6:06:00 PM
1,2-Dichlorobenzene	ND	2.0		µg/L	1	6/22/2015 6:06:00 PM
1,2-Dibromo-3-chloropropane	ND	5.0		µg/L	1	6/22/2015 6:06:00 PM
1,2,4-Trichlorobenzene	ND	2.0		µg/L	1	6/22/2015 6:06:00 PM
Hexachlorobutadiene	ND	2.0		µg/L	1	6/22/2015 6:06:00 PM
Naphthalene	ND	5.0		µg/L	1	6/22/2015 6:06:00 PM
1,2,3-Trichlorobenzene	ND	2.0		µg/L	1	6/22/2015 6:06:00 PM
Surr: Dibromofluoromethane	101	68-122		%REC	1	6/22/2015 6:06:00 PM
Surr: 1,2-Dichloroethane-d4	96.3	69-130		%REC	1	6/22/2015 6:06:00 PM
Surr: Toluene-d8	100	69-121		%REC	1	6/22/2015 6:06:00 PM
Surr: 4-Bromofluorobenzene	96.2	62-129		%REC	1	6/22/2015 6:06:00 PM

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AMRO Environmental Laboratories Corp.

Date: *24-Jun-15*

CLIENT:	Ross Environmental Associates	**Client Sample ID:**	MW-10
Lab Order:	1506058	**Collection Date:**	6/17/2015 11:15:00 AM
Project:	28-030 Derby Bulk Solvent	**Matrix:**	GROUNDWATER
Lab ID:	1506058-02A		

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA 8260C VOLATILES BY GC/MS		**SW8260C**				Analyst: **SK**
Dichlorodifluoromethane	ND	5.0		µg/L	1	6/22/2015 6:43:00 PM
Chloromethane	ND	5.0		µg/L	1	6/22/2015 6:43:00 PM
Vinyl chloride	ND	2.0		µg/L	1	6/22/2015 6:43:00 PM
Chloroethane	ND	5.0		µg/L	1	6/22/2015 6:43:00 PM
Bromomethane	ND	2.0		µg/L	1	6/22/2015 6:43:00 PM
Trichlorofluoromethane	ND	2.0		µg/L	1	6/22/2015 6:43:00 PM
Diethyl ether	ND	5.0		µg/L	1	6/22/2015 6:43:00 PM
Acetone	ND	10		µg/L	1	6/22/2015 6:43:00 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	6/22/2015 6:43:00 PM
Carbon disulfide	ND	2.0		µg/L	1	6/22/2015 6:43:00 PM
Methylene chloride	ND	5.0		µg/L	1	6/22/2015 6:43:00 PM
Methyl tert-butyl ether	ND	2.0		µg/L	1	6/22/2015 6:43:00 PM
trans-1,2-Dichloroethene	ND	2.0		µg/L	1	6/22/2015 6:43:00 PM
1,1-Dichloroethane	ND	2.0		µg/L	1	6/22/2015 6:43:00 PM
2-Butanone	ND	10		µg/L	1	6/22/2015 6:43:00 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	6/22/2015 6:43:00 PM
cis-1,2-Dichloroethene	ND	2.0		µg/L	1	6/22/2015 6:43:00 PM
Chloroform	ND	2.0		µg/L	1	6/22/2015 6:43:00 PM
Tetrahydrofuran	ND	10		µg/L	1	6/22/2015 6:43:00 PM
Bromochloromethane	ND	2.0		µg/L	1	6/22/2015 6:43:00 PM
1,1,1-Trichloroethane	ND	2.0		µg/L	1	6/22/2015 6:43:00 PM
1,1-Dichloropropene	ND	2.0		µg/L	1	6/22/2015 6:43:00 PM
Carbon tetrachloride	ND	2.0		µg/L	1	6/22/2015 6:43:00 PM
1,2-Dichloroethane	ND	2.0		µg/L	1	6/22/2015 6:43:00 PM
Benzene	ND	1.0		µg/L	1	6/22/2015 6:43:00 PM
Trichloroethene	ND	2.0		µg/L	1	6/22/2015 6:43:00 PM
1,2-Dichloropropane	ND	2.0		µg/L	1	6/22/2015 6:43:00 PM
Bromodichloromethane	ND	2.0		µg/L	1	6/22/2015 6:43:00 PM
Dibromomethane	ND	2.0		µg/L	1	6/22/2015 6:43:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	6/22/2015 6:43:00 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	6/22/2015 6:43:00 PM
Toluene	ND	2.0		µg/L	1	6/22/2015 6:43:00 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	6/22/2015 6:43:00 PM
1,1,2-Trichloroethane	ND	2.0		µg/L	1	6/22/2015 6:43:00 PM
1,2-Dibromoethane	ND	2.0		µg/L	1	6/22/2015 6:43:00 PM
2-Hexanone	ND	10		µg/L	1	6/22/2015 6:43:00 PM
1,3-Dichloropropane	ND	2.0		µg/L	1	6/22/2015 6:43:00 PM
Tetrachloroethene	ND	2.0		µg/L	1	6/22/2015 6:43:00 PM
Dibromochloromethane	ND	2.0		µg/L	1	6/22/2015 6:43:00 PM

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AMRO Environmental Laboratories Corp.

Date: *24-Jun-15*

CLIENT:	Ross Environmental Associates	**Client Sample ID:**	MW-10
Lab Order:	1506058	**Collection Date:**	6/17/2015 11:15:00 AM
Project:	28-030 Derby Bulk Solvent	**Matrix:**	GROUNDWATER
Lab ID:	1506058-02A		

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Chlorobenzene	ND	2.0		µg/L	1	6/22/2015 6:43:00 PM
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	1	6/22/2015 6:43:00 PM
Ethylbenzene	ND	2.0		µg/L	1	6/22/2015 6:43:00 PM
m,p-Xylene	ND	2.0		µg/L	1	6/22/2015 6:43:00 PM
o-Xylene	ND	2.0		µg/L	1	6/22/2015 6:43:00 PM
Styrene	ND	2.0		µg/L	1	6/22/2015 6:43:00 PM
Bromoform	ND	2.0		µg/L	1	6/22/2015 6:43:00 PM
Isopropylbenzene	ND	2.0		µg/L	1	6/22/2015 6:43:00 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	6/22/2015 6:43:00 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	6/22/2015 6:43:00 PM
Bromobenzene	ND	2.0		µg/L	1	6/22/2015 6:43:00 PM
n-Propylbenzene	ND	2.0		µg/L	1	6/22/2015 6:43:00 PM
2-Chlorotoluene	ND	2.0		µg/L	1	6/22/2015 6:43:00 PM
4-Chlorotoluene	ND	2.0		µg/L	1	6/22/2015 6:43:00 PM
1,3,5-Trimethylbenzene	ND	2.0		µg/L	1	6/22/2015 6:43:00 PM
tert-Butylbenzene	ND	2.0		µg/L	1	6/22/2015 6:43:00 PM
1,2,4-Trimethylbenzene	ND	2.0		µg/L	1	6/22/2015 6:43:00 PM
sec-Butylbenzene	ND	2.0		µg/L	1	6/22/2015 6:43:00 PM
4-Isopropyltoluene	ND	2.0		µg/L	1	6/22/2015 6:43:00 PM
1,3-Dichlorobenzene	ND	2.0		µg/L	1	6/22/2015 6:43:00 PM
1,4-Dichlorobenzene	ND	2.0		µg/L	1	6/22/2015 6:43:00 PM
n-Butylbenzene	ND	2.0		µg/L	1	6/22/2015 6:43:00 PM
1,2-Dichlorobenzene	ND	2.0		µg/L	1	6/22/2015 6:43:00 PM
1,2-Dibromo-3-chloropropane	ND	5.0		µg/L	1	6/22/2015 6:43:00 PM
1,2,4-Trichlorobenzene	ND	2.0		µg/L	1	6/22/2015 6:43:00 PM
Hexachlorobutadiene	ND	2.0		µg/L	1	6/22/2015 6:43:00 PM
Naphthalene	ND	5.0		µg/L	1	6/22/2015 6:43:00 PM
1,2,3-Trichlorobenzene	ND	2.0		µg/L	1	6/22/2015 6:43:00 PM
Surr: Dibromofluoromethane	101	68-122		%REC	1	6/22/2015 6:43:00 PM
Surr: 1,2-Dichloroethane-d4	94.9	69-130		%REC	1	6/22/2015 6:43:00 PM
Surr: Toluene-d8	98.4	69-121		%REC	1	6/22/2015 6:43:00 PM
Surr: 4-Bromofluorobenzene	95.5	62-129		%REC	1	6/22/2015 6:43:00 PM

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AMRO Environmental Laboratories Corp.

Date: *24-Jun-15*

CLIENT:	Ross Environmental Associates	**Client Sample ID:**	MW-11s
Lab Order:	1506058	**Collection Date:**	6/17/2015 11:30:00 AM
Project:	28-030 Derby Bulk Solvent	**Matrix:**	GROUNDWATER
Lab ID:	1506058-03A		

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA 8260C VOLATILES BY GC/MS		**SW8260C**				Analyst: **SK**
Dichlorodifluoromethane	ND	5.0		µg/L	1	6/22/2015 7:20:00 PM
Chloromethane	ND	5.0		µg/L	1	6/22/2015 7:20:00 PM
Vinyl chloride	ND	2.0		µg/L	1	6/22/2015 7:20:00 PM
Chloroethane	ND	5.0		µg/L	1	6/22/2015 7:20:00 PM
Bromomethane	ND	2.0		µg/L	1	6/22/2015 7:20:00 PM
Trichlorofluoromethane	ND	2.0		µg/L	1	6/22/2015 7:20:00 PM
Diethyl ether	ND	5.0		µg/L	1	6/22/2015 7:20:00 PM
Acetone	ND	10		µg/L	1	6/22/2015 7:20:00 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	6/22/2015 7:20:00 PM
Carbon disulfide	ND	2.0		µg/L	1	6/22/2015 7:20:00 PM
Methylene chloride	ND	5.0		µg/L	1	6/22/2015 7:20:00 PM
Methyl tert-butyl ether	ND	2.0		µg/L	1	6/22/2015 7:20:00 PM
trans-1,2-Dichloroethene	ND	2.0		µg/L	1	6/22/2015 7:20:00 PM
1,1-Dichloroethane	ND	2.0		µg/L	1	6/22/2015 7:20:00 PM
2-Butanone	ND	10		µg/L	1	6/22/2015 7:20:00 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	6/22/2015 7:20:00 PM
cis-1,2-Dichloroethene	ND	2.0		µg/L	1	6/22/2015 7:20:00 PM
Chloroform	ND	2.0		µg/L	1	6/22/2015 7:20:00 PM
Tetrahydrofuran	ND	10		µg/L	1	6/22/2015 7:20:00 PM
Bromochloromethane	ND	2.0		µg/L	1	6/22/2015 7:20:00 PM
1,1,1-Trichloroethane	ND	2.0		µg/L	1	6/22/2015 7:20:00 PM
1,1-Dichloropropene	ND	2.0		µg/L	1	6/22/2015 7:20:00 PM
Carbon tetrachloride	ND	2.0		µg/L	1	6/22/2015 7:20:00 PM
1,2-Dichloroethane	ND	2.0		µg/L	1	6/22/2015 7:20:00 PM
Benzene	ND	1.0		µg/L	1	6/22/2015 7:20:00 PM
Trichloroethene	ND	2.0		µg/L	1	6/22/2015 7:20:00 PM
1,2-Dichloropropane	ND	2.0		µg/L	1	6/22/2015 7:20:00 PM
Bromodichloromethane	ND	2.0		µg/L	1	6/22/2015 7:20:00 PM
Dibromomethane	ND	2.0		µg/L	1	6/22/2015 7:20:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	6/22/2015 7:20:00 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	6/22/2015 7:20:00 PM
Toluene	ND	2.0		µg/L	1	6/22/2015 7:20:00 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	6/22/2015 7:20:00 PM
1,1,2-Trichloroethane	ND	2.0		µg/L	1	6/22/2015 7:20:00 PM
1,2-Dibromoethane	ND	2.0		µg/L	1	6/22/2015 7:20:00 PM
2-Hexanone	ND	10		µg/L	1	6/22/2015 7:20:00 PM
1,3-Dichloropropane	ND	2.0		µg/L	1	6/22/2015 7:20:00 PM
Tetrachloroethene	ND	2.0		µg/L	1	6/22/2015 7:20:00 PM
Dibromochloromethane	ND	2.0		µg/L	1	6/22/2015 7:20:00 PM

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AMRO Environmental Laboratories Corp.

Date: *24-Jun-15*

CLIENT:	Ross Environmental Associates	**Client Sample ID:**	MW-11s
Lab Order:	1506058	**Collection Date:**	6/17/2015 11:30:00 AM
Project:	28-030 Derby Bulk Solvent	**Matrix:**	GROUNDWATER
Lab ID:	1506058-03A		

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Chlorobenzene	ND	2.0		µg/L	1	6/22/2015 7:20:00 PM
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	1	6/22/2015 7:20:00 PM
Ethylbenzene	ND	2.0		µg/L	1	6/22/2015 7:20:00 PM
m,p-Xylene	ND	2.0		µg/L	1	6/22/2015 7:20:00 PM
o-Xylene	ND	2.0		µg/L	1	6/22/2015 7:20:00 PM
Styrene	ND	2.0		µg/L	1	6/22/2015 7:20:00 PM
Bromoform	ND	2.0		µg/L	1	6/22/2015 7:20:00 PM
Isopropylbenzene	ND	2.0		µg/L	1	6/22/2015 7:20:00 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	6/22/2015 7:20:00 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	6/22/2015 7:20:00 PM
Bromobenzene	ND	2.0		µg/L	1	6/22/2015 7:20:00 PM
n-Propylbenzene	ND	2.0		µg/L	1	6/22/2015 7:20:00 PM
2-Chlorotoluene	ND	2.0		µg/L	1	6/22/2015 7:20:00 PM
4-Chlorotoluene	ND	2.0		µg/L	1	6/22/2015 7:20:00 PM
1,3,5-Trimethylbenzene	ND	2.0		µg/L	1	6/22/2015 7:20:00 PM
tert-Butylbenzene	ND	2.0		µg/L	1	6/22/2015 7:20:00 PM
1,2,4-Trimethylbenzene	ND	2.0		µg/L	1	6/22/2015 7:20:00 PM
sec-Butylbenzene	ND	2.0		µg/L	1	6/22/2015 7:20:00 PM
4-Isopropyltoluene	ND	2.0		µg/L	1	6/22/2015 7:20:00 PM
1,3-Dichlorobenzene	ND	2.0		µg/L	1	6/22/2015 7:20:00 PM
1,4-Dichlorobenzene	ND	2.0		µg/L	1	6/22/2015 7:20:00 PM
n-Butylbenzene	ND	2.0		µg/L	1	6/22/2015 7:20:00 PM
1,2-Dichlorobenzene	ND	2.0		µg/L	1	6/22/2015 7:20:00 PM
1,2-Dibromo-3-chloropropane	ND	5.0		µg/L	1	6/22/2015 7:20:00 PM
1,2,4-Trichlorobenzene	ND	2.0		µg/L	1	6/22/2015 7:20:00 PM
Hexachlorobutadiene	ND	2.0		µg/L	1	6/22/2015 7:20:00 PM
Naphthalene	ND	5.0		µg/L	1	6/22/2015 7:20:00 PM
1,2,3-Trichlorobenzene	ND	2.0		µg/L	1	6/22/2015 7:20:00 PM
Surr: Dibromofluoromethane	103	68-122		%REC	1	6/22/2015 7:20:00 PM
Surr: 1,2-Dichloroethane-d4	98.9	69-130		%REC	1	6/22/2015 7:20:00 PM
Surr: Toluene-d8	102	69-121		%REC	1	6/22/2015 7:20:00 PM
Surr: 4-Bromofluorobenzene	96.3	62-129		%REC	1	6/22/2015 7:20:00 PM

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AMRO Environmental Laboratories Corp.

Date: *24-Jun-15*

CLIENT:	Ross Environmental Associates	**Client Sample ID:**	MW-11d
Lab Order:	1506058	**Collection Date:**	6/17/2015 12:00:00 PM
Project:	28-030 Derby Bulk Solvent	**Matrix:**	GROUNDWATER
Lab ID:	1506058-04A		

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA 8260C VOLATILES BY GC/MS		**SW8260C**				Analyst: **SK**
Dichlorodifluoromethane	ND	5.0		µg/L	1	6/22/2015 7:55:00 PM
Chloromethane	ND	5.0		µg/L	1	6/22/2015 7:55:00 PM
Vinyl chloride	ND	2.0		µg/L	1	6/22/2015 7:55:00 PM
Chloroethane	ND	5.0		µg/L	1	6/22/2015 7:55:00 PM
Bromomethane	ND	2.0		µg/L	1	6/22/2015 7:55:00 PM
Trichlorofluoromethane	ND	2.0		µg/L	1	6/22/2015 7:55:00 PM
Diethyl ether	ND	5.0		µg/L	1	6/22/2015 7:55:00 PM
Acetone	ND	10		µg/L	1	6/22/2015 7:55:00 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	6/22/2015 7:55:00 PM
Carbon disulfide	ND	2.0		µg/L	1	6/22/2015 7:55:00 PM
Methylene chloride	ND	5.0		µg/L	1	6/22/2015 7:55:00 PM
Methyl tert-butyl ether	ND	2.0		µg/L	1	6/22/2015 7:55:00 PM
trans-1,2-Dichloroethene	ND	2.0		µg/L	1	6/22/2015 7:55:00 PM
1,1-Dichloroethane	ND	2.0		µg/L	1	6/22/2015 7:55:00 PM
2-Butanone	ND	10		µg/L	1	6/22/2015 7:55:00 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	6/22/2015 7:55:00 PM
cis-1,2-Dichloroethene	ND	2.0		µg/L	1	6/22/2015 7:55:00 PM
Chloroform	ND	2.0		µg/L	1	6/22/2015 7:55:00 PM
Tetrahydrofuran	ND	10		µg/L	1	6/22/2015 7:55:00 PM
Bromochloromethane	ND	2.0		µg/L	1	6/22/2015 7:55:00 PM
1,1,1-Trichloroethane	ND	2.0		µg/L	1	6/22/2015 7:55:00 PM
1,1-Dichloropropene	ND	2.0		µg/L	1	6/22/2015 7:55:00 PM
Carbon tetrachloride	ND	2.0		µg/L	1	6/22/2015 7:55:00 PM
1,2-Dichloroethane	ND	2.0		µg/L	1	6/22/2015 7:55:00 PM
Benzene	ND	1.0		µg/L	1	6/22/2015 7:55:00 PM
Trichloroethene	ND	2.0		µg/L	1	6/22/2015 7:55:00 PM
1,2-Dichloropropane	ND	2.0		µg/L	1	6/22/2015 7:55:00 PM
Bromodichloromethane	ND	2.0		µg/L	1	6/22/2015 7:55:00 PM
Dibromomethane	ND	2.0		µg/L	1	6/22/2015 7:55:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	6/22/2015 7:55:00 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	6/22/2015 7:55:00 PM
Toluene	ND	2.0		µg/L	1	6/22/2015 7:55:00 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	6/22/2015 7:55:00 PM
1,1,2-Trichloroethane	ND	2.0		µg/L	1	6/22/2015 7:55:00 PM
1,2-Dibromoethane	ND	2.0		µg/L	1	6/22/2015 7:55:00 PM
2-Hexanone	ND	10		µg/L	1	6/22/2015 7:55:00 PM
1,3-Dichloropropane	ND	2.0		µg/L	1	6/22/2015 7:55:00 PM
Tetrachloroethene	ND	2.0		µg/L	1	6/22/2015 7:55:00 PM
Dibromochloromethane	ND	2.0		µg/L	1	6/22/2015 7:55:00 PM

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AMRO Environmental Laboratories Corp.

Date: *24-Jun-15*

CLIENT:	Ross Environmental Associates	**Client Sample ID:**	MW-11d
Lab Order:	1506058	**Collection Date:**	6/17/2015 12:00:00 PM
Project:	28-030 Derby Bulk Solvent	**Matrix:**	GROUNDWATER
Lab ID:	1506058-04A		

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Chlorobenzene	ND	2.0		µg/L	1	6/22/2015 7:55:00 PM
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	1	6/22/2015 7:55:00 PM
Ethylbenzene	ND	2.0		µg/L	1	6/22/2015 7:55:00 PM
m,p-Xylene	ND	2.0		µg/L	1	6/22/2015 7:55:00 PM
o-Xylene	ND	2.0		µg/L	1	6/22/2015 7:55:00 PM
Styrene	ND	2.0		µg/L	1	6/22/2015 7:55:00 PM
Bromoform	ND	2.0		µg/L	1	6/22/2015 7:55:00 PM
Isopropylbenzene	ND	2.0		µg/L	1	6/22/2015 7:55:00 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	6/22/2015 7:55:00 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	6/22/2015 7:55:00 PM
Bromobenzene	ND	2.0		µg/L	1	6/22/2015 7:55:00 PM
n-Propylbenzene	ND	2.0		µg/L	1	6/22/2015 7:55:00 PM
2-Chlorotoluene	ND	2.0		µg/L	1	6/22/2015 7:55:00 PM
4-Chlorotoluene	ND	2.0		µg/L	1	6/22/2015 7:55:00 PM
1,3,5-Trimethylbenzene	ND	2.0		µg/L	1	6/22/2015 7:55:00 PM
tert-Butylbenzene	ND	2.0		µg/L	1	6/22/2015 7:55:00 PM
1,2,4-Trimethylbenzene	ND	2.0		µg/L	1	6/22/2015 7:55:00 PM
sec-Butylbenzene	ND	2.0		µg/L	1	6/22/2015 7:55:00 PM
4-Isopropyltoluene	ND	2.0		µg/L	1	6/22/2015 7:55:00 PM
1,3-Dichlorobenzene	ND	2.0		µg/L	1	6/22/2015 7:55:00 PM
1,4-Dichlorobenzene	ND	2.0		µg/L	1	6/22/2015 7:55:00 PM
n-Butylbenzene	ND	2.0		µg/L	1	6/22/2015 7:55:00 PM
1,2-Dichlorobenzene	ND	2.0		µg/L	1	6/22/2015 7:55:00 PM
1,2-Dibromo-3-chloropropane	ND	5.0		µg/L	1	6/22/2015 7:55:00 PM
1,2,4-Trichlorobenzene	ND	2.0		µg/L	1	6/22/2015 7:55:00 PM
Hexachlorobutadiene	ND	2.0		µg/L	1	6/22/2015 7:55:00 PM
Naphthalene	ND	5.0		µg/L	1	6/22/2015 7:55:00 PM
1,2,3-Trichlorobenzene	ND	2.0		µg/L	1	6/22/2015 7:55:00 PM
Surr: Dibromofluoromethane	102	68-122		%REC	1	6/22/2015 7:55:00 PM
Surr: 1,2-Dichloroethane-d4	96.0	69-130		%REC	1	6/22/2015 7:55:00 PM
Surr: Toluene-d8	102	69-121		%REC	1	6/22/2015 7:55:00 PM
Surr: 4-Bromofluorobenzene	96.8	62-129		%REC	1	6/22/2015 7:55:00 PM

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AMRO Environmental Laboratories Corp.

Date: *24-Jun-15*

CLIENT:	Ross Environmental Associates	**Client Sample ID:**	Dup
Lab Order:	1506058	**Collection Date:**	6/17/2015
Project:	28-030 Derby Bulk Solvent	**Matrix:**	GROUNDWATER
Lab ID:	1506058-05A		

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA 8260C VOLATILES BY GC/MS		**SW8260C**				Analyst: **SK**
Dichlorodifluoromethane	ND	5.0		µg/L	1	6/23/2015 10:46:00 AM
Chloromethane	ND	5.0		µg/L	1	6/23/2015 10:46:00 AM
Vinyl chloride	ND	2.0		µg/L	1	6/23/2015 10:46:00 AM
Chloroethane	ND	5.0		µg/L	1	6/23/2015 10:46:00 AM
Bromomethane	ND	2.0		µg/L	1	6/23/2015 10:46:00 AM
Trichlorofluoromethane	ND	2.0		µg/L	1	6/23/2015 10:46:00 AM
Diethyl ether	ND	5.0		µg/L	1	6/23/2015 10:46:00 AM
Acetone	ND	10		µg/L	1	6/23/2015 10:46:00 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	6/23/2015 10:46:00 AM
Carbon disulfide	ND	2.0		µg/L	1	6/23/2015 10:46:00 AM
Methylene chloride	ND	5.0		µg/L	1	6/23/2015 10:46:00 AM
Methyl tert-butyl ether	ND	2.0		µg/L	1	6/23/2015 10:46:00 AM
trans-1,2-Dichloroethene	ND	2.0		µg/L	1	6/23/2015 10:46:00 AM
1,1-Dichloroethane	ND	2.0		µg/L	1	6/23/2015 10:46:00 AM
2-Butanone	ND	10		µg/L	1	6/23/2015 10:46:00 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	6/23/2015 10:46:00 AM
cis-1,2-Dichloroethene	ND	2.0		µg/L	1	6/23/2015 10:46:00 AM
Chloroform	ND	2.0		µg/L	1	6/23/2015 10:46:00 AM
Tetrahydrofuran	ND	10		µg/L	1	6/23/2015 10:46:00 AM
Bromochloromethane	ND	2.0		µg/L	1	6/23/2015 10:46:00 AM
1,1,1-Trichloroethane	ND	2.0		µg/L	1	6/23/2015 10:46:00 AM
1,1-Dichloropropene	ND	2.0		µg/L	1	6/23/2015 10:46:00 AM
Carbon tetrachloride	ND	2.0		µg/L	1	6/23/2015 10:46:00 AM
1,2-Dichloroethane	ND	2.0		µg/L	1	6/23/2015 10:46:00 AM
Benzene	ND	1.0		µg/L	1	6/23/2015 10:46:00 AM
Trichloroethene	ND	2.0		µg/L	1	6/23/2015 10:46:00 AM
1,2-Dichloropropane	ND	2.0		µg/L	1	6/23/2015 10:46:00 AM
Bromodichloromethane	ND	2.0		µg/L	1	6/23/2015 10:46:00 AM
Dibromomethane	ND	2.0		µg/L	1	6/23/2015 10:46:00 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	6/23/2015 10:46:00 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	6/23/2015 10:46:00 AM
Toluene	ND	2.0		µg/L	1	6/23/2015 10:46:00 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	6/23/2015 10:46:00 AM
1,1,2-Trichloroethane	ND	2.0		µg/L	1	6/23/2015 10:46:00 AM
1,2-Dibromoethane	ND	2.0		µg/L	1	6/23/2015 10:46:00 AM
2-Hexanone	ND	10		µg/L	1	6/23/2015 10:46:00 AM
1,3-Dichloropropane	ND	2.0		µg/L	1	6/23/2015 10:46:00 AM
Tetrachloroethene	ND	2.0		µg/L	1	6/23/2015 10:46:00 AM
Dibromochloromethane	ND	2.0		µg/L	1	6/23/2015 10:46:00 AM

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AMRO Environmental Laboratories Corp.

Date: *24-Jun-15*

CLIENT:	Ross Environmental Associates	**Client Sample ID:**	Dup
Lab Order:	1506058	**Collection Date:**	6/17/2015
Project:	28-030 Derby Bulk Solvent	**Matrix:**	GROUNDWATER
Lab ID:	1506058-05A		

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Chlorobenzene	ND	2.0		µg/L	1	6/23/2015 10:46:00 AM
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	1	6/23/2015 10:46:00 AM
Ethylbenzene	ND	2.0		µg/L	1	6/23/2015 10:46:00 AM
m,p-Xylene	ND	2.0		µg/L	1	6/23/2015 10:46:00 AM
o-Xylene	ND	2.0		µg/L	1	6/23/2015 10:46:00 AM
Styrene	ND	2.0		µg/L	1	6/23/2015 10:46:00 AM
Bromoform	ND	2.0		µg/L	1	6/23/2015 10:46:00 AM
Isopropylbenzene	ND	2.0		µg/L	1	6/23/2015 10:46:00 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	6/23/2015 10:46:00 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	6/23/2015 10:46:00 AM
Bromobenzene	ND	2.0		µg/L	1	6/23/2015 10:46:00 AM
n-Propylbenzene	ND	2.0		µg/L	1	6/23/2015 10:46:00 AM
2-Chlorotoluene	ND	2.0		µg/L	1	6/23/2015 10:46:00 AM
4-Chlorotoluene	ND	2.0		µg/L	1	6/23/2015 10:46:00 AM
1,3,5-Trimethylbenzene	ND	2.0		µg/L	1	6/23/2015 10:46:00 AM
tert-Butylbenzene	ND	2.0		µg/L	1	6/23/2015 10:46:00 AM
1,2,4-Trimethylbenzene	ND	2.0		µg/L	1	6/23/2015 10:46:00 AM
sec-Butylbenzene	ND	2.0		µg/L	1	6/23/2015 10:46:00 AM
4-Isopropyltoluene	ND	2.0		µg/L	1	6/23/2015 10:46:00 AM
1,3-Dichlorobenzene	ND	2.0		µg/L	1	6/23/2015 10:46:00 AM
1,4-Dichlorobenzene	ND	2.0		µg/L	1	6/23/2015 10:46:00 AM
n-Butylbenzene	ND	2.0		µg/L	1	6/23/2015 10:46:00 AM
1,2-Dichlorobenzene	ND	2.0		µg/L	1	6/23/2015 10:46:00 AM
1,2-Dibromo-3-chloropropane	ND	5.0		µg/L	1	6/23/2015 10:46:00 AM
1,2,4-Trichlorobenzene	ND	2.0		µg/L	1	6/23/2015 10:46:00 AM
Hexachlorobutadiene	ND	2.0		µg/L	1	6/23/2015 10:46:00 AM
Naphthalene	ND	5.0		µg/L	1	6/23/2015 10:46:00 AM
1,2,3-Trichlorobenzene	ND	2.0		µg/L	1	6/23/2015 10:46:00 AM
Surr: Dibromofluoromethane	98.6	68-122		%REC	1	6/23/2015 10:46:00 AM
Surr: 1,2-Dichloroethane-d4	96.8	69-130		%REC	1	6/23/2015 10:46:00 AM
Surr: Toluene-d8	98.7	69-121		%REC	1	6/23/2015 10:46:00 AM
Surr: 4-Bromofluorobenzene	93.9	62-129		%REC	1	6/23/2015 10:46:00 AM

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AMRO Environmental Laboratories Corp.

Date: *24-Jun-15*

CLIENT:	Ross Environmental Associates	**Client Sample ID:**	Trip Blank
Lab Order:	1506058	**Collection Date:**	6/17/2015 2:00:00 PM
Project:	28-030 Derby Bulk Solvent	**Matrix:**	GROUNDWATER
Lab ID:	1506058-06A		

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA 8260C VOLATILES BY GC/MS		**SW8260C**				Analyst: **SK**
Dichlorodifluoromethane	ND	5.0		µg/L	1	6/22/2015 12:40:00 PM
Chloromethane	ND	5.0		µg/L	1	6/22/2015 12:40:00 PM
Vinyl chloride	ND	2.0		µg/L	1	6/22/2015 12:40:00 PM
Chloroethane	ND	5.0		µg/L	1	6/22/2015 12:40:00 PM
Bromomethane	ND	2.0		µg/L	1	6/22/2015 12:40:00 PM
Trichlorofluoromethane	ND	2.0		µg/L	1	6/22/2015 12:40:00 PM
Diethyl ether	ND	5.0		µg/L	1	6/22/2015 12:40:00 PM
Acetone	ND	10		µg/L	1	6/22/2015 12:40:00 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	6/22/2015 12:40:00 PM
Carbon disulfide	ND	2.0		µg/L	1	6/22/2015 12:40:00 PM
Methylene chloride	ND	5.0		µg/L	1	6/22/2015 12:40:00 PM
Methyl tert-butyl ether	ND	2.0		µg/L	1	6/22/2015 12:40:00 PM
trans-1,2-Dichloroethene	ND	2.0		µg/L	1	6/22/2015 12:40:00 PM
1,1-Dichloroethane	ND	2.0		µg/L	1	6/22/2015 12:40:00 PM
2-Butanone	ND	10		µg/L	1	6/22/2015 12:40:00 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	6/22/2015 12:40:00 PM
cis-1,2-Dichloroethene	ND	2.0		µg/L	1	6/22/2015 12:40:00 PM
Chloroform	ND	2.0		µg/L	1	6/22/2015 12:40:00 PM
Tetrahydrofuran	ND	10		µg/L	1	6/22/2015 12:40:00 PM
Bromochloromethane	ND	2.0		µg/L	1	6/22/2015 12:40:00 PM
1,1,1-Trichloroethane	ND	2.0		µg/L	1	6/22/2015 12:40:00 PM
1,1-Dichloropropene	ND	2.0		µg/L	1	6/22/2015 12:40:00 PM
Carbon tetrachloride	ND	2.0		µg/L	1	6/22/2015 12:40:00 PM
1,2-Dichloroethane	ND	2.0		µg/L	1	6/22/2015 12:40:00 PM
Benzene	ND	1.0		µg/L	1	6/22/2015 12:40:00 PM
Trichloroethene	ND	2.0		µg/L	1	6/22/2015 12:40:00 PM
1,2-Dichloropropane	ND	2.0		µg/L	1	6/22/2015 12:40:00 PM
Bromodichloromethane	ND	2.0		µg/L	1	6/22/2015 12:40:00 PM
Dibromomethane	ND	2.0		µg/L	1	6/22/2015 12:40:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	6/22/2015 12:40:00 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	6/22/2015 12:40:00 PM
Toluene	ND	2.0		µg/L	1	6/22/2015 12:40:00 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	6/22/2015 12:40:00 PM
1,1,2-Trichloroethane	ND	2.0		µg/L	1	6/22/2015 12:40:00 PM
1,2-Dibromoethane	ND	2.0		µg/L	1	6/22/2015 12:40:00 PM
2-Hexanone	ND	10		µg/L	1	6/22/2015 12:40:00 PM
1,3-Dichloropropane	ND	2.0		µg/L	1	6/22/2015 12:40:00 PM
Tetrachloroethene	ND	2.0		µg/L	1	6/22/2015 12:40:00 PM
Dibromochloromethane	ND	2.0		µg/L	1	6/22/2015 12:40:00 PM

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AMRO Environmental Laboratories Corp.

Date: *24-Jun-15*

CLIENT:	Ross Environmental Associates	**Client Sample ID:**	Trip Blank
Lab Order:	1506058	**Collection Date:**	6/17/2015 2:00:00 PM
Project:	28-030 Derby Bulk Solvent	**Matrix:**	GROUNDWATER
Lab ID:	1506058-06A		

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Chlorobenzene	ND	2.0		µg/L	1	6/22/2015 12:40:00 PM
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	1	6/22/2015 12:40:00 PM
Ethylbenzene	ND	2.0		µg/L	1	6/22/2015 12:40:00 PM
m,p-Xylene	ND	2.0		µg/L	1	6/22/2015 12:40:00 PM
o-Xylene	ND	2.0		µg/L	1	6/22/2015 12:40:00 PM
Styrene	ND	2.0		µg/L	1	6/22/2015 12:40:00 PM
Bromoform	ND	2.0		µg/L	1	6/22/2015 12:40:00 PM
Isopropylbenzene	ND	2.0		µg/L	1	6/22/2015 12:40:00 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	6/22/2015 12:40:00 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	6/22/2015 12:40:00 PM
Bromobenzene	ND	2.0		µg/L	1	6/22/2015 12:40:00 PM
n-Propylbenzene	ND	2.0		µg/L	1	6/22/2015 12:40:00 PM
2-Chlorotoluene	ND	2.0		µg/L	1	6/22/2015 12:40:00 PM
4-Chlorotoluene	ND	2.0		µg/L	1	6/22/2015 12:40:00 PM
1,3,5-Trimethylbenzene	ND	2.0		µg/L	1	6/22/2015 12:40:00 PM
tert-Butylbenzene	ND	2.0		µg/L	1	6/22/2015 12:40:00 PM
1,2,4-Trimethylbenzene	ND	2.0		µg/L	1	6/22/2015 12:40:00 PM
sec-Butylbenzene	ND	2.0		µg/L	1	6/22/2015 12:40:00 PM
4-Isopropyltoluene	ND	2.0		µg/L	1	6/22/2015 12:40:00 PM
1,3-Dichlorobenzene	ND	2.0		µg/L	1	6/22/2015 12:40:00 PM
1,4-Dichlorobenzene	ND	2.0		µg/L	1	6/22/2015 12:40:00 PM
n-Butylbenzene	ND	2.0		µg/L	1	6/22/2015 12:40:00 PM
1,2-Dichlorobenzene	ND	2.0		µg/L	1	6/22/2015 12:40:00 PM
1,2-Dibromo-3-chloropropane	ND	5.0		µg/L	1	6/22/2015 12:40:00 PM
1,2,4-Trichlorobenzene	ND	2.0		µg/L	1	6/22/2015 12:40:00 PM
Hexachlorobutadiene	ND	2.0		µg/L	1	6/22/2015 12:40:00 PM
Naphthalene	ND	5.0		µg/L	1	6/22/2015 12:40:00 PM
1,2,3-Trichlorobenzene	ND	2.0		µg/L	1	6/22/2015 12:40:00 PM
Surr: Dibromofluoromethane	102	68-122		%REC	1	6/22/2015 12:40:00 PM
Surr: 1,2-Dichloroethane-d4	93.7	69-130		%REC	1	6/22/2015 12:40:00 PM
Surr: Toluene-d8	101	69-121		%REC	1	6/22/2015 12:40:00 PM
Surr: 4-Bromofluorobenzene	90.6	62-129		%REC	1	6/22/2015 12:40:00 PM

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Merrimack, NH 03054

CHAIN-OF-CUSTODY RECORD

NO: 65079

Office: (603) 424-2022
Fax: (603) 429-8496
web: www.amrolabs.com

Project No.:	Project Name:	Project State:	Project Manager:	Samplers (Signature):	AMRO Project No.:
28-030	Derby Bulk Solvent	VT	James Gascoyne	[signature]	

P.O.#:	Results Needed by:

QUOTE #:	Seal Intact? Yes No N/A

REQUESTED ANALYSES: VOC 8260

Remarks: R.E.A. VT PRICING

Sample ID.:	Date/Time Sampled	Matrix	Total # of Cont. & Size	Comp.	Grab	VOC 8260
MW-4	6-17-15 / 1145	GW	2/40ml		X	X
MW-10	6-17-15 / 1115	GW	2/40ml		X	X
MW-11S	6-17-15 / 1130	GW	2/40ml		X	X
MW-11d	6-17-15 / 1200	GW	2/40ml		X	X
DUP	6-17-15 / —	GW	2/40ml		X	X
TRIP BLANK	6-17-15 / 1410 ID	GW	2/40ml		X	X

Preservative: Cl-HCl, MeOH, N-HN03, S-H2SO4, Na-NaOH, O- Other

Send Results To:
R.E.A.
5 MAIN ST.
STOWE, VT

PRIORITY TURNAROUND TIME AUTHORIZATION
Before submitting samples for expedited TAT, you must *have a coded AUTHORIZATION NUMBER*
AUTHORIZATION No.: BY:

METALS 8 RCRA ☐ 13 PP ☐ 23 TAL ☐ 14 MCP ☐
Method: 6010 ☐ 200.7 ☐ Other Metals:
Dissolved Metals Field Filtered? YES ☐ NO ☐

PHONE #: 802-253-4280 FAX #:
E-mail: chlanchard@reaia.com

MCP Presumptive Certainty Required? YES ☐ NO ☐
MCP Methods Needed: YES ☐ NO ☐
AMRO report package level needed:
EDD required:

Required Reporting Limits: S-1 ☐ GW-1 ☐ S-2 ☐ GW-2 ☐ S-3 ☐ GW-3 ☐ Other:

Relinquished By:	Date/Time	Received By
[signature]	6-17-15 / 1430	

Please print clearly, legibly and completely. Samples can not be logged in and the turnaround time clock will not start until any ambiguities are resolved.

Samples arriving after 12:00 noon will be tracked and billed as received on the following day.

AMRO policy requires notification in writing to the laboratory in cases where the samples were collected from highly contaminated sites.

KNOWN SITE CONTAMINATION:

White: Lab Copy Yellow: Client Copy

SHEET 1 OF 1

AMROCOC2004, Rev.3 08/18/04