

Phase (check one)	Type (Check one)
<input type="checkbox"/> Initial Site Investigation	<input type="checkbox"/> Work Scope
<input type="checkbox"/> Corrective Action Feasibility Investigation	<input checked="" type="checkbox"/> Technical Report
<input type="checkbox"/> Corrective Action Plan	<input type="checkbox"/> PCF
<input type="checkbox"/> Corrective Action Summary Report	<input type="checkbox"/> Reimbursement Request
<input checked="" type="checkbox"/> Operations and Monitoring Report	<input type="checkbox"/> General Correspondence

**2010 ANNUAL MONITORING REPORT
 FORMER R & D SUNOCO
 ROUTE 30 & ROUTE 100
 RAWSONVILLE, VT 05155
 VT DEC SMS #1991-1007**

Prepared for:

**A.R. SANDRI, INC
 400 CHAPMAN STREET
 GREENFIELD, MA 01301
 CONTACT: SHARON ABBOTT**

Prepared by:

**DB ENVIRONMENTAL CONSULTING
 PO Box 815
 BRATTLEBORO, VT 05302-0815
 PHONE: (802) 258-0350**

David Balk, P.G., R.S.

**FILE No. 1019
 DOCUMENT: ANN RPT0710
 JULY 30, 2010**

DB ENVIRONMENTAL CONSULTING
PO BOX 815
BRATTLEBORO, VT 05302-0815

July 30, 2010
Project: 1019
Document: AnnRpt0710

Sharon Abbott
A.R. Sandri, Inc.
400 Chapman Street
Greenfield, MA 01301

RE: Annual Monitoring Report for Former R & D Sunoco, Route 30 & Route 100, Rawsonville, VT
VTDEC Site #1991-1007

Dear Ms. Abbott:

DB Environmental Consulting (DBEC) has prepared this Annual Monitoring Report on behalf of A.R. Sandri, Inc. (Sandri) and at the request of the Vermont Department of Environmental Conservation (VTDEC). A Site Location Map is provided as Figure 1. A summary of relevant site conceptual model and contaminant information is provided below.

Fleming Oil Company of Brattleboro, Vermont presently operates the convenience/gasoline station. The site and surrounding properties slope to the north-northeast in the direction of the Winhall River. The closest presumed downgradient property Detail Sports is located to the northeast of the site. The Bischoff residential property is east of Detail Sports with the Kilburn residence beyond that. The Coleman Carwash is located north of the Detail Sports, Bischoff and Kilburn residences. The Coleman Carwash property abuts to the north by the Winhall River. The main contaminant of concern at the neighboring properties is Methyl tert-butyl ether (MTBE).

Date of Sampling Event and Wells Sampled: May 28, 2010 KIL-INN, DET-INF, DET-EFF, COL-INF, BIS-INF, BIS-BET, and BIS-EFF.

Groundwater Sampling Method: Purge and collect.

Laboratory Analytical Method: EPA Method 8260 (VT VOC Scan)

Groundwater Flow Direction: Northeasterly, as had been defined by previous reports.

Groundwater Table Trends: The groundwater table had been noted in previous reports to be shallow in nature and less than 10 feet below ground surface.

Dissolved VOC Concentrations: No Primary Groundwater Quality Standards (PGQS) were exceeded in any of the samples collected. MTBE was noted in the water supply well samples KIL-INN (5.4 ug/L), KIL-FAUCET (5.4 ug/L) DET-INF (2.2 ug/L), DET-EFF (2.3 ug/L), and COL-INF (7.2). Table 1 provides a summary of analytical results.

CONCLUSIONS

DBEC provides the following conclusions:

- A) MTBE concentrations were detected in the samples collected from water supply wells at presumed downgradient properties; No contaminants tested for were detected above PGQS for MTBE of 40 ug/L.

RECOMMENDATIONS

Based on the most recent monitoring event conducted by DBEC and historic information reviewed for the site the following recommendations are presented:

- 1) Continue annual monitoring events to include sampling from DET-EFF, DET-INF, KIL-FAUCET, COL-INF, BIS-INF, BIS-BET, and BIS-EFF. Samples should be analyzed VOCs via EPA Method 8260 (VT VOC Scan). A monitoring report should be prepared to summarize the results of the sampling event and conclusions with recommendations to address MTBE levels noted in the water supply wells.
- 2) The next annual sampling event will be conducted in May 2011 upon approval from the VTDEC and Sandri.

If you have any questions regarding work performed at this site, please call me at 1-802-258-0360.

Sincerely,
DB ENVIRONMENTAL CONSULTING



David Balk, P.G., R.S.

cc: Chuck Schwer, VT DEC Site Manager
Wilbur Rice, Green Mountain Ski and Sport (Detail Sports)
Dan Kilburn
Stewart Coleman
Steve Jones, Former Bischoff Residence

Enclosures:

Figure 1	Site Locus Map
Figure 2	Sketch Map
Table 1	Summary of Groundwater Monitoring Data
Attachment I	Groundwater Sampling Log
Attachment II	Spectrum Analytical Laboratory Report

072° 51' 0.00" W

072° 50' 0.00" W

072° 49' 0.00" W

043° 10' 0.00" N

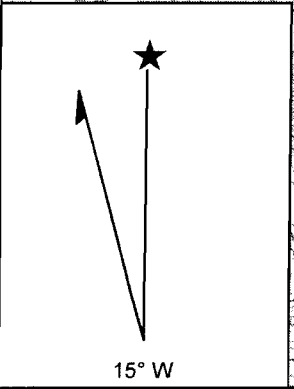
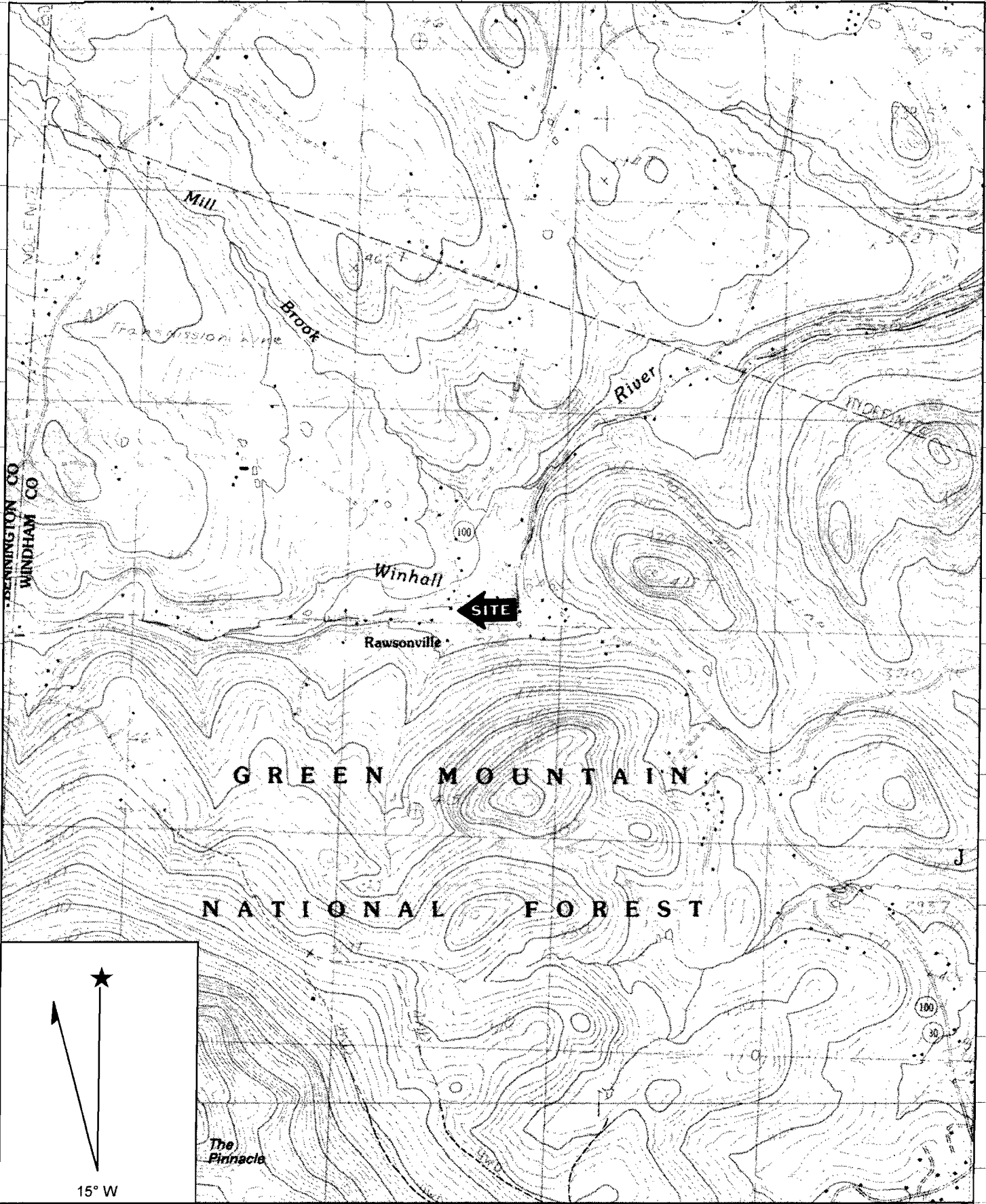
043° 10' 0.00" N

043° 09' 0.00" N

043° 09' 0.00" N

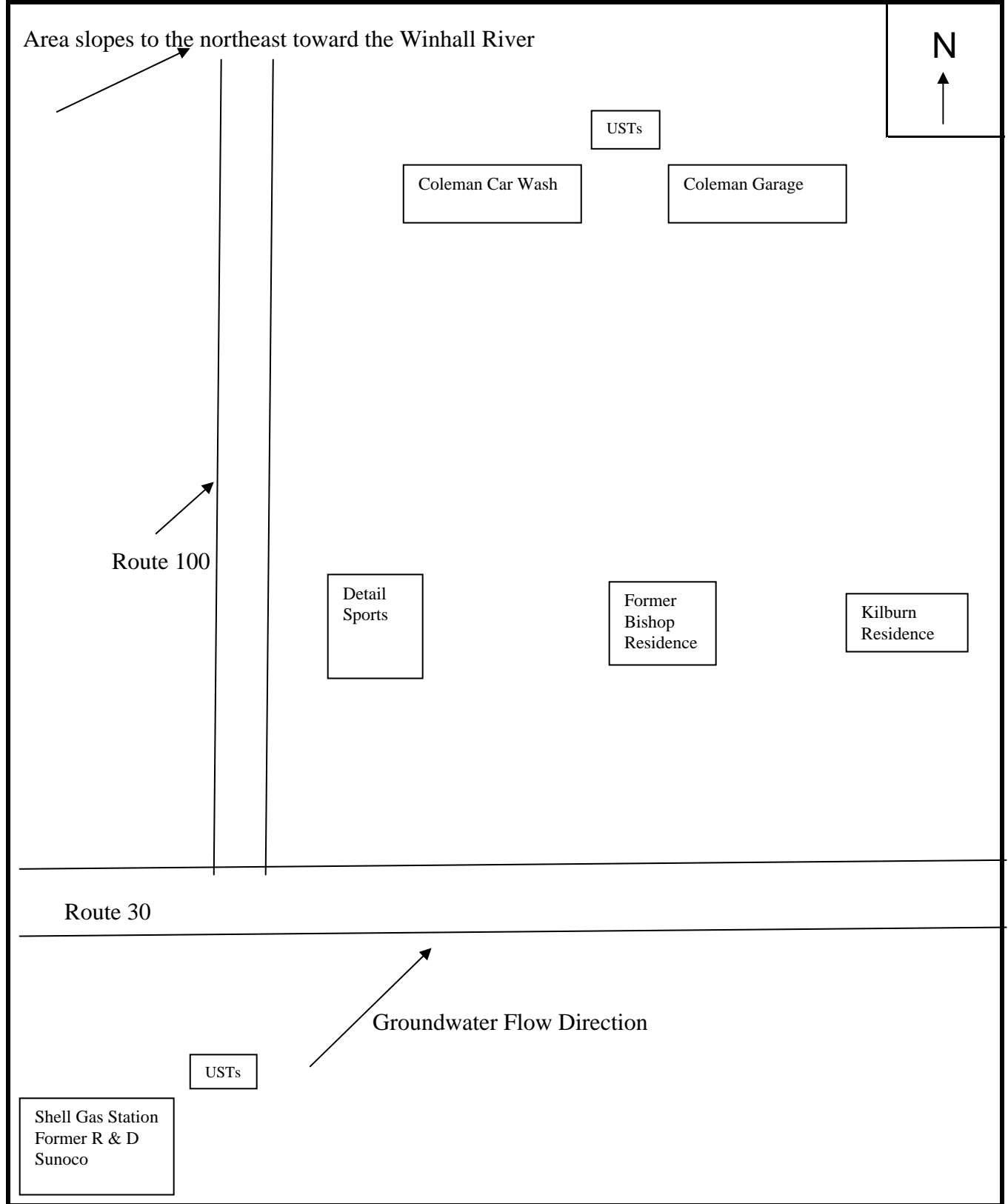
043° 08' 0.00" N

043° 08' 0.00" N



Name: LONDONDERRY
 Date: 9/17/2007
 Scale: 1 inch equals 2000 feet

Location: 043° 08' 46.2" N 072° 50' 22.6" W
 Caption: Former R. D Sunoco
 Route 30 100
 Rawsonville, VT 05155



Site Sketch	Former R & D Sunoco Route 30 & Route 100 Rawsonville, VT 05155	Not to Scale
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Former R&D Sunoco Route 30 & 100 Rawsonville, VT VTDEC #1991-1007	Table 1								
	Summary of Groundwater Monitoring								
	Volatile Organic Compounds (ug/L)								
	WELL ID	Benzene	Toluene	Ethylbenzene	Xylenes	TOTAL BTEX	Naphthalene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene
Bischoff Influent									
2/12/1998	ND	ND	ND	ND	ND	NT	NT	NT	26
8/27/1998	ND	ND	ND	ND	ND	NT	NT	NT	26
2/24/1999	ND	ND	ND	ND	ND	ND	ND	ND	18
8/17/1999	ND	ND	ND	ND	ND	ND	ND	ND	ND*
2/16/2000	ND	ND	ND	ND	ND	ND	ND	ND	26
8/8/2000	ND	ND	ND	ND	ND	ND	ND	ND	13
2/14/2001	ND	ND	ND	ND	ND	ND	ND	ND	27
8/17/2001	ND	ND	ND	ND	ND	ND	ND	ND	20
2/13/2002	ND	ND	ND	ND	ND	ND	ND	ND	23
8/14/2002	ND	ND	ND	ND	ND	ND	ND	ND	24
4/2/2003	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	20
10/15/2003	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	18.6
4/1/2004	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	19.2
10/15/2004	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	22.1
5/20/2005	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	9.5
11/3/2005	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	21.2
4/18/2006	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	14.4
8/5/2009	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	18.7
5/28/2010	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	15.4
Bischoff Between									
2/12/1998	ND	ND	ND	ND	ND	NT	NT	NT	ND
8/27/1998	ND	ND	ND	ND	ND	NT	NT	NT	ND
2/24/1999	ND	ND	ND	ND	ND	ND	ND	ND	ND
8/17/1999	ND	ND	ND	ND	ND	ND	ND	ND	ND
2/16/2000	ND	ND	ND	ND	ND	ND	ND	ND	ND
8/8/2000	ND	ND	ND	ND	ND	ND	ND	ND	ND
2/14/2001	ND	ND	ND	ND	ND	ND	ND	ND	ND
8/17/2001	ND	ND	ND	ND	ND	ND	ND	ND	ND
2/13/2002	ND	ND	ND	ND	ND	ND	ND	ND	ND
8/14/2002	ND	ND	ND	ND	ND	ND	ND	ND	ND
4/2/2003	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	<1.0
10/15/2003	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	<1.0
4/1/2004	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	<1.0
10/15/2004	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	<1.0
5/20/2005	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	<1.0
11/3/2005	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	<1.0
4/18/2006	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	<1.0
8/5/2009	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	<1.0
5/28/2010	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	<1.0
Bischoff Effluent									
2/12/1998	ND	ND	ND	ND	ND	NT	NT	NT	ND
8/27/1998	ND	ND	ND	ND	ND	NT	NT	NT	ND
2/24/1999	ND	ND	ND	ND	ND	ND	ND	ND	ND
8/17/1999	ND	ND	ND	ND	ND	ND	ND	ND	18.0*
2/16/2000	ND	ND	ND	ND	ND	ND	ND	ND	ND
8/8/2000	ND	ND	ND	ND	ND	ND	ND	ND	ND
2/14/2001	ND	ND	ND	ND	ND	ND	ND	ND	ND
8/17/2001	ND	ND	ND	ND	ND	ND	ND	ND	ND
2/13/2002	ND	ND	ND	ND	ND	ND	ND	ND	ND
8/14/2002	ND	ND	ND	ND	ND	ND	ND	ND	ND
4/2/2003	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	<1.0
10/15/2003	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	<1.0
4/1/2004	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	<1.0
10/15/2004	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	<1.0
5/20/2005	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	<1.0
11/3/2005	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	<1.0
4/18/2006	<1.0	<1.0	1.6	2	3.6	1	6.3	<1.0	<1.0
8/5/2009	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	<1.0
5/28/2010	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	<1.0
PGQS	5	1,000	700	10,000	NA	20	350		40

NOTES:

Only compounds reported at concentrations above method detection limits are included in the table.
 ND = Not Detected above indicated detection limit NA= Not applicable NT= Not tested NS= Not sampled
Bold/Highlighted results indicates concentrations exceeding the VT PGQS for that compound.

Former R&D Sunoco Route 30 & 100 Rawsonville, VT VTDEC #1991-1007	Table 1									
	Summary of Groundwater Monitoring									
	Volatile Organic Compounds (ug/L)									
	WELL ID	Benzene	Toluene	Ethylbenzene	Xylenes	TOTAL BTEX	Naphthalene	1,2,4- Trimethylbenzene	1,3,5- Trimethylbenzene	MTBE
Sampling Date										
Detail Influent										
2/12/1998	ND	ND	ND	ND	ND	NT	NT	NT	6.9	
8/27/1998	ND	ND	ND	ND	ND	NT	NT	NT	7.7	
2/24/1999	ND	ND	ND	ND	ND	ND	ND	ND	10	
8/17/1999	ND	ND	ND	ND	ND	ND	ND	ND	ND*	
2/16/2000	ND	ND	ND	ND	ND	ND	ND	ND	ND	
8/8/2000	ND	ND	ND	ND	ND	ND	ND	ND	6.1	
2/14/2001	ND	ND	ND	ND	ND	ND	ND	ND	5.1	
8/17/2001	ND	ND	ND	ND	ND	ND	ND	ND	4.6	
2/13/2002	ND	ND	ND	ND	ND	ND	ND	ND	5.6	
8/14/2002	ND	ND	ND	ND	ND	ND	ND	ND	4	
4/2/2003	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	4.1	
10/15/2003	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	3.61	
4/1/2004	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	3.6	
10/15/2004	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	3.2	
5/20/2005	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	1.4	
11/3/2005	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	2.8	
4/18/2006	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	3.4	
6/22/2007	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	3.2	
6/5/2008	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	2.2	
5/20/2009	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	2.2	
5/28/2010	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	2.6	
DUP (Detail Influent)										
2/12/1998	ND	ND	ND	ND	ND	NT	NT	NT	31	
8/27/1998	ND	ND	ND	ND	ND	NT	NT	NT	4.9	
2/24/1999	ND	ND	ND	ND	ND	ND	ND	ND	8.7	
8/17/1999	ND	ND	ND	ND	ND	ND	ND	ND	ND*	
2/16/2000	ND	ND	ND	ND	ND	ND	ND	ND	7	
8/8/2000	ND	ND	ND	ND	ND	ND	ND	ND	6.4	
2/14/2001	ND	ND	ND	ND	ND	ND	ND	ND	5.2	
8/17/01 (Coleman)	ND	ND	ND	ND	ND	ND	ND	ND	7.2	
2/13/2002	ND	ND	ND	ND	ND	ND	ND	ND	5.6	
8/14/2002	ND	ND	ND	ND	ND	ND	ND	ND	4	
4/2/2003	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	4.3	
10/15/2003	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	3.8	
10/15/2004	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	3.2	
5/20/2005	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	1.3	
11/3/2005	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	2.9	
Detail Between										
2/12/1998	ND	ND	ND	ND	ND	NT	NT	NT	ND	
8/27/1998	ND	ND	ND	ND	ND	NT	NT	NT	ND	
2/24/1999	ND	ND	ND	ND	ND	ND	ND	ND	ND	
8/17/1999	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2/16/2000	ND	ND	ND	ND	ND	ND	ND	ND	ND	
8/8/2000	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2/14/2001	ND	ND	ND	ND	ND	ND	ND	ND	ND	
8/17/2001	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2/13/2002	ND	ND	ND	ND	ND	ND	ND	ND	ND	
8/14/2002	System removed per client request									
PGQS	5	1,000	700	10,000	NA	20	350	40		

NOTES:

Only compounds reported at concentrations above method detection limits are included in the table.
 ND = Not Detected above indicated detection limit NA= Not applicable NT= Not tested NS= Not sampled
Bold/Highlighted results indicates concentrations exceeding the VT PGQS for that compound.

Former R&D Sunoco Route 30 & 100 Rawsonville, VT VTDEC #1991-1007	Table 1									
	Summary of Groundwater Monitoring									
	Volatile Organic Compounds (ug/L)									
	WELL ID	Benzene	Toluene	Ethylbenzene	Xylenes	TOTAL BTEX	Naphthalene	1,2,4- Trimethylbenzene	1,3,5- Trimethylbenzene	MTBE
Sampling Date										
Detail Effluent										
2/12/1998	ND	ND	ND	ND	ND	NT	NT	NT	ND	
8/27/1998	ND	ND	ND	ND	ND	NT	NT	NT	ND	
2/24/1999	ND	ND	ND	ND	ND	ND	ND	ND	ND	
8/17/1999	ND	ND	ND	ND	ND	ND	ND	ND	7.0*	
2/16/2000	ND	ND	ND	ND	ND	ND	ND	ND	ND	
8/8/2000	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2/14/2001	ND	ND	ND	ND	ND	ND	ND	ND	ND	
8/17/2001	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2/13/2002	ND	ND	ND	ND	ND	ND	ND	ND	ND	
8/14/2002	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.1
4/2/2003	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	<1.0	4.8
10/15/2003	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	<1.0	3.61
4/1/2004	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	<1.0	3.8
10/15/2004	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	<1.0	3.4
5/20/2005	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	<1.0	1.4
11/3/2005	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	<1.0	3.0
4/18/2006	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	<1.0	3.5
6/22/2007	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	<1.0	3.5
6/5/2008	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	<1.0	2.2
5/20/2009	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	<1.0	2.3
5/28/2010	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	<1.0	2.7
Kilburn Influent										
2/12/1998	ND	ND	ND	ND	ND	NT	NT	NT	11	
8/27/1998	ND	ND	ND	ND	ND	NT	NT	NT	9.4	
2/24/1999	ND	ND	ND	ND	ND	ND	ND	ND	12	
8/17/1999	ND	ND	ND	ND	ND	ND	ND	ND	11	
2/16/2000	ND	ND	ND	ND	ND	ND	ND	ND	8.3	
8/8/2000	NS	NS	NS	NS	NS	NS	NS	NS	NS	
2/14/2001	ND	ND	ND	ND	ND	ND	ND	ND	4.4	
8/17/2001	ND	ND	ND	ND	ND	ND	ND	ND	5	
2/13/2002	ND	ND	ND	ND	ND	ND	ND	ND	9.1	
8/14/2002	ND	ND	ND	ND	ND	ND	ND	ND	12	
4/2/2003	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	<1.0	9.3
10/15/2003	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	<1.0	1.46
4/1/2004	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	<1.0	3.3
10/15/2004	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	<1.0	5.9
5/20/2005	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	<1.0	2.5
11/3/2005	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	<1.0	2.7
4/18/2006	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	<1.0	9.8
6/5/2008	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	<1.0	8.1
5/20/2009	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	<1.0	5.4
5/28/2010	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	<1.0	1.6

NOTES:

Only compounds reported at concentrations above method detection limits are included in the table.

ND = Not Detected above indicated detection limit NA= Not applicable NT= Not tested NS= Not sampled

Bold/Highlighted results indicates concentrations exceeding the VT PGQS for that compound.

Former R&D Sunoco Route 30 & 100 Rawsonville, VT VTDEC #1991-1007	Table 1								
	Summary of Groundwater Monitoring								
	Volatile Organic Compounds (ug/L)								
	WELL ID	Benzene	Toluene	Ethylbenzene	Xylenes	TOTAL BTEX	Naphthalene	1,2,4- Trimethylbenzene	1,3,5- Trimethylbenzene
Sampling Date									
Kilburn Faucet									
2/12/1998	ND	ND	ND	ND	ND	NT	NT	NT	11
8/27/1998	ND	ND	ND	ND	ND	NT	NT	NT	6.1
2/24/1999	ND	ND	ND	ND	ND	ND	ND	ND	12
8/17/1999	ND	ND	ND	ND	ND	ND	ND	ND	12
2/16/2000	ND	ND	ND	ND	ND	ND	ND	ND	8.8
8/8/2000	ND	ND	ND	ND	ND	ND	ND	ND	5.7
2/14/2001	ND	ND	ND	ND	ND	ND	ND	ND	5.2
8/17/2001	ND	ND	ND	ND	ND	ND	ND	ND	5.7
2/13/2002	ND	ND	ND	ND	ND	ND	ND	ND	9.6
8/14/2002	ND	ND	ND	ND	ND	ND	ND	ND	13
4/2/2003	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	9.6
10/15/2003	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	6.32
4/1/2004	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	3.3
10/15/2004	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	6.1
5/20/2005	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	2.8
11/3/2005	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	1.6
4/18/2006	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	7.4
6/22/2007	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	9.9
6/5/2008	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	7.2
5/20/2009	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	5.4
Coleman Influent									
2/12/1998	ND	ND	ND	ND	ND	NT	NT	NT	15
8/27/1998	ND	ND	ND	ND	ND	NT	NT	NT	7.1
2/24/1999	ND	ND	ND	ND	ND	ND	ND	ND	12
8/17/1999	ND	ND	ND	ND	ND	ND	ND	ND	9.9
2/16/2000	ND	ND	ND	ND	ND	ND	ND	ND	10
8/8/2000	ND	ND	ND	ND	ND	ND	ND	ND	8.6
2/14/2001	ND	ND	ND	ND	ND	ND	ND	ND	9.6
8/17/2001	ND	ND	ND	ND	ND	ND	ND	ND	7.5
2/13/2002	ND	ND	ND	ND	ND	ND	ND	ND	8.2
8/14/2002	ND	ND	ND	ND	ND	ND	ND	ND	9.7
4/2/2003	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	8.6
10/15/2003	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	8.57
4/1/2004	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	8.4
10/15/2004	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	7.3
5/20/2005	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	2.7
11/3/2005	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	6.3
4/18/2006	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	6.3
6/22/2007	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	6.1
6/5/2008	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	4.5
5/20/2009	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	7.2
5/28/2010	<1.0	<1.0	<1.0	<2.0	ND	<1.0	<1.0	<1.0	6.4
PGQS	5	1,000	700	10,000	NA	20	350	40	

NOTES:
Only compounds reported at concentrations above method detection limits are included in the table.
ND = Not Detected above indicated detection limit NA= Not applicable NT= Not tested NS= Not sampled
Bold/Highlighted results indicates concentrations exceeding the VT PGQS for that compound.

GROUNDWATER MONITORING DATA

VTDEC Site # 1991-1007

Project Number: 1019

Client: A.R. Sandri, Inc.

Date: 5/28/10

Location: Former R & D Sunoco- Rawsonville, VT

Sampler: DB

Well ID	Time Sampled	D (in.)	Point of Reference (PVC/Rim)	Total Depth (feet)	Depth to Water (feet)	Water Height (feet)	Standing Volume (gallons)	Odors (Y/N)	pH	Sp. Cond. (umhos/sec)	Temp (°C)
BIS-INF	5:45	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BIS-BET	5:55	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BIS-EFF	6:00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DET-INF	5:00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DET-EFF	5:15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
KIL-INF	6:15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
KIL-FAU	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
COL-INF	5:30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trip	7:00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NOTES:

BIS-INF	
BIS-BET	
BIS-EFF	
DET-INF	
DET-EFF	
KIL-INF	
KIL-FAU	Still in process of building
COL-INF	

DB Environmental Consulting
 PO Box 815
 Brattleboro, VT 05302
 Office: 1-802-258-0360

Report Date:
14-Jun-10 14:33



- Final Report
- Re-Issued Report
- Revised Report

SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Laboratory Report

DB Environmental Consulting
P.O. Box 815
Brattleboro, VT 05302-0815
Attn: David Balk

Project: Former R + D Sunoco - Rawsonville, VT
Project #: 1019

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SB13107-01	KIL-INN	Drinking Water	28-May-10 06:15	01-Jun-10 15:15
SB13107-02	DET-INN	Drinking Water	28-May-10 05:00	01-Jun-10 15:15
SB13107-03	DET-EFF	Drinking Water	28-May-10 05:15	01-Jun-10 15:15
SB13107-04	COL-INF	Drinking Water	28-May-10 05:30	01-Jun-10 15:15
SB13107-05	BIS-INF	Drinking Water	28-May-10 05:45	01-Jun-10 15:15
SB13107-06	BIS-BET	Drinking Water	28-May-10 05:55	01-Jun-10 15:15
SB13107-07	BIS-EFF	Drinking Water	28-May-10 06:00	01-Jun-10 15:15
SB13107-08	Trip	Trip	28-May-10 07:00	01-Jun-10 15:15

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received. All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435
Vermont # VT-11393



Authorized by:

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

Technical Reviewer's Initial:

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes.

Please note that this report contains 13 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

CASE NARRATIVE:

The sample temperature upon receipt by Spectrum Analytical courier was recorded as 6.9 degrees Celsius. The condition of these samples was further noted as refrigerated. The samples were transported on ice to the laboratory facility and the temperature was recorded at 5.2 degrees Celsius upon receipt at the laboratory. Please refer to the Chain of Custody for details specific to sample receipt times.

An infrared thermometer with a tolerance of +/- 2.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 8260B

Samples:

S005148-CCV1

Analyte percent difference is outside individual acceptance criteria, but within overall method allowances.

o-Xylene (21.0%)

Analyte percent drift is outside individual acceptance criteria, but within overall method allowances.

Naphthalene (-23.2%)

This affected the following samples:

1012178-BLK1
1012178-BS1
1012178-BSD1
COL-INF
DET-EFF
DET-INN
KIL-INN

S005179-CCV1

Analyte percent drift is outside individual acceptance criteria, but within overall method allowances.

Naphthalene (-22.3%)

This affected the following samples:

1012257-BLK1
1012257-BS1
1012257-BSD1
BIS-BET
BIS-EFF
BIS-INF
Trip

Sample IdentificationKIL-INN
SB13107-01Client Project #
1019Matrix
Drinking WaterCollection Date/Time
28-May-10 06:15Received
01-Jun-10

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Volatile Organic CompoundsVolatile Organic Compounds by 8260B
Prepared by method SW846 5030 Water MS

71-43-2	Benzene	BRL		µg/l	1.0	1	SW846 8260B	09-Jun-10	10-Jun-10	JRO	1012178	
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/l	0.5	1	"	"	"	"	"	"
107-06-2	1,2-Dichloroethane	BRL		µg/l	1.0	1	"	"	"	"	"	"
100-41-4	Ethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	1.6		µg/l	1.0	1	"	"	"	"	"	"
91-20-3	Naphthalene	BRL		µg/l	1.0	1	"	"	"	"	"	"
108-88-3	Toluene	BRL		µg/l	1.0	1	"	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	"	"
179601-23-1	m,p-Xylene	BRL		µg/l	2.0	1	"	"	"	"	"	"
95-47-6	o-Xylene	BRL		µg/l	1.0	1	"	"	"	"	"	"

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	95			70-130 %		"	"	"	"	"	"
2037-26-5	Toluene-d8	100			70-130 %		"	"	"	"	"	"
17060-07-0	1,2-Dichloroethane-d4	105			70-130 %		"	"	"	"	"	"
1868-53-7	Dibromofluoromethane	118			70-130 %		"	"	"	"	"	"

This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit

BRL = Below Reporting Limit

Page 3 of 13

Sample Identification

DET-INN
SB13107-02

Client Project #
1019

Matrix
Drinking Water

Collection Date/Time
28-May-10 05:00

Received
01-Jun-10

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Volatile Organic Compounds

Volatile Organic Compounds by 8260B
Prepared by method SW846 5030 Water MS

71-43-2	Benzene	BRL		µg/l	1.0	1	SW846 8260B	09-Jun-10	10-Jun-10	JRO	1012178	
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/l	0.5	1	"	"	"	"	"	"
107-06-2	1,2-Dichloroethane	BRL		µg/l	1.0	1	"	"	"	"	"	"
100-41-4	Ethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	2.6		µg/l	1.0	1	"	"	"	"	"	"
91-20-3	Naphthalene	BRL		µg/l	1.0	1	"	"	"	"	"	"
108-88-3	Toluene	BRL		µg/l	1.0	1	"	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	"	"
179601-23-1	m,p-Xylene	BRL		µg/l	2.0	1	"	"	"	"	"	"
95-47-6	o-Xylene	BRL		µg/l	1.0	1	"	"	"	"	"	"

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	95			70-130 %		"	"	"	"	"	"
2037-26-5	Toluene-d8	99			70-130 %		"	"	"	"	"	"
17060-07-0	1,2-Dichloroethane-d4	106			70-130 %		"	"	"	"	"	"
1868-53-7	Dibromofluoromethane	115			70-130 %		"	"	"	"	"	"

Sample Identification

DET-EFF
SB13107-03

Client Project #
1019

Matrix
Drinking Water

Collection Date/Time
28-May-10 05:15

Received
01-Jun-10

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Volatile Organic Compounds

Volatile Organic Compounds by 8260B
Prepared by method SW846 5030 Water MS

71-43-2	Benzene	BRL		µg/l	1.0	1	SW846 8260B	09-Jun-10	10-Jun-10	JRO	1012178	
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/l	0.5	1	"	"	"	"	"	"
107-06-2	1,2-Dichloroethane	BRL		µg/l	1.0	1	"	"	"	"	"	"
100-41-4	Ethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	2.7		µg/l	1.0	1	"	"	"	"	"	"
91-20-3	Naphthalene	BRL		µg/l	1.0	1	"	"	"	"	"	"
108-88-3	Toluene	BRL		µg/l	1.0	1	"	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	"	"
179601-23-1	m,p-Xylene	BRL		µg/l	2.0	1	"	"	"	"	"	"
95-47-6	o-Xylene	BRL		µg/l	1.0	1	"	"	"	"	"	"

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	96			70-130 %		"	"	"	"	"	"
2037-26-5	Toluene-d8	98			70-130 %		"	"	"	"	"	"
17060-07-0	1,2-Dichloroethane-d4	104			70-130 %		"	"	"	"	"	"
1868-53-7	Dibromofluoromethane	115			70-130 %		"	"	"	"	"	"

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* Reportable Detection Limit

BRL = Below Reporting Limit

Sample Identification

COL-INF Client Project # 1019 Matrix Drinking Water Collection Date/Time 28-May-10 05:30 Received 01-Jun-10
 SB13107-04

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Volatile Organic Compounds

Volatile Organic Compounds by 8260B
Prepared by method SW846 5030 Water MS

71-43-2	Benzene	BRL		µg/l	1.0	1	SW846 8260B	09-Jun-10	10-Jun-10	JRO	1012178	
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/l	0.5	1	"	"	"	"	"	"
107-06-2	1,2-Dichloroethane	BRL		µg/l	1.0	1	"	"	"	"	"	"
100-41-4	Ethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	6.4		µg/l	1.0	1	"	"	"	"	"	"
91-20-3	Naphthalene	BRL		µg/l	1.0	1	"	"	"	"	"	"
108-88-3	Toluene	BRL		µg/l	1.0	1	"	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	"	"
179601-23-1	m,p-Xylene	BRL		µg/l	2.0	1	"	"	"	"	"	"
95-47-6	o-Xylene	BRL		µg/l	1.0	1	"	"	"	"	"	"

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	94			70-130 %		"	"	"	"	"	"
2037-26-5	Toluene-d8	99			70-130 %		"	"	"	"	"	"
17060-07-0	1,2-Dichloroethane-d4	105			70-130 %		"	"	"	"	"	"
1868-53-7	Dibromofluoromethane	119			70-130 %		"	"	"	"	"	"

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* Reportable Detection Limit

BRL = Below Reporting Limit

Sample Identification**BIS-INF**

SB13107-05

Client Project #

1019

Matrix

Drinking Water

Collection Date/Time

28-May-10 05:45

Received

01-Jun-10

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Volatile Organic CompoundsVolatile Organic Compounds by 8260BPrepared by method SW846 5030 Water MS

71-43-2	Benzene	BRL		µg/l	1.0	1	SW846 8260B	09-Jun-10	10-Jun-10	JLG	1012257	
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/l	0.5	1	"	"	"	"	"	"
107-06-2	1,2-Dichloroethane	BRL		µg/l	1.0	1	"	"	"	"	"	"
100-41-4	Ethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	15.4		µg/l	1.0	1	"	"	"	"	"	"
91-20-3	Naphthalene	BRL		µg/l	1.0	1	"	"	"	"	"	"
108-88-3	Toluene	BRL		µg/l	1.0	1	"	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	"	"
179601-23-1	m,p-Xylene	BRL		µg/l	2.0	1	"	"	"	"	"	"
95-47-6	o-Xylene	BRL		µg/l	1.0	1	"	"	"	"	"	"

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	93			70-130 %		"	"	"	"	"	"
2037-26-5	Toluene-d8	97			70-130 %		"	"	"	"	"	"
17060-07-0	1,2-Dichloroethane-d4	103			70-130 %		"	"	"	"	"	"
1868-53-7	Dibromofluoromethane	114			70-130 %		"	"	"	"	"	"

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* Reportable Detection Limit

BRL = Below Reporting Limit

Sample Identification**BIS-BET**

SB13107-06

Client Project #

1019

Matrix

Drinking Water

Collection Date/Time

28-May-10 05:55

Received

01-Jun-10

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Volatile Organic CompoundsVolatile Organic Compounds by 8260BPrepared by method SW846 5030 Water MS

71-43-2	Benzene	BRL		µg/l	1.0	1	SW846 8260B	09-Jun-10	10-Jun-10	JLG	1012257	
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/l	0.5	1	"	"	"	"	"	"
107-06-2	1,2-Dichloroethane	BRL		µg/l	1.0	1	"	"	"	"	"	"
100-41-4	Ethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/l	1.0	1	"	"	"	"	"	"
91-20-3	Naphthalene	BRL		µg/l	1.0	1	"	"	"	"	"	"
108-88-3	Toluene	BRL		µg/l	1.0	1	"	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	"	"
179601-23-1	m,p-Xylene	BRL		µg/l	2.0	1	"	"	"	"	"	"
95-47-6	o-Xylene	BRL		µg/l	1.0	1	"	"	"	"	"	"

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	95			70-130 %		"	"	"	"	"	"
2037-26-5	Toluene-d8	96			70-130 %		"	"	"	"	"	"
17060-07-0	1,2-Dichloroethane-d4	102			70-130 %		"	"	"	"	"	"
1868-53-7	Dibromofluoromethane	112			70-130 %		"	"	"	"	"	"

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* Reportable Detection Limit

BRL = Below Reporting Limit

Page 8 of 13

Sample Identification**BIS-EFF**

SB13107-07

Client Project #

1019

Matrix

Drinking Water

Collection Date/Time

28-May-10 06:00

Received

01-Jun-10

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Volatile Organic CompoundsVolatile Organic Compounds by 8260BPrepared by method SW846 5030 Water MS

71-43-2	Benzene	BRL		µg/l	1.0	1	SW846 8260B	09-Jun-10	10-Jun-10	JLG	1012257	
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/l	0.5	1	"	"	"	"	"	"
107-06-2	1,2-Dichloroethane	BRL		µg/l	1.0	1	"	"	"	"	"	"
100-41-4	Ethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/l	1.0	1	"	"	"	"	"	"
91-20-3	Naphthalene	BRL		µg/l	1.0	1	"	"	"	"	"	"
108-88-3	Toluene	BRL		µg/l	1.0	1	"	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	"	"
179601-23-1	m,p-Xylene	BRL		µg/l	2.0	1	"	"	"	"	"	"
95-47-6	o-Xylene	BRL		µg/l	1.0	1	"	"	"	"	"	"

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	97			70-130 %		"	"	"	"	"	"
2037-26-5	Toluene-d8	96			70-130 %		"	"	"	"	"	"
17060-07-0	1,2-Dichloroethane-d4	103			70-130 %		"	"	"	"	"	"
1868-53-7	Dibromofluoromethane	113			70-130 %		"	"	"	"	"	"

Sample IdentificationTrip

SB13107-08

Client Project #

1019

Matrix

Trip

Collection Date/Time

28-May-10 07:00

Received

01-Jun-10

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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Volatile Organic CompoundsVolatile Organic Compounds by 8260BPrepared by method SW846 5030 Water MS

71-43-2	Benzene	BRL		µg/l	1.0	1	SW846 8260B	09-Jun-10	10-Jun-10	JLG	1012257	
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/l	0.5	1	"	"	"	"	"	"
107-06-2	1,2-Dichloroethane	BRL		µg/l	1.0	1	"	"	"	"	"	"
100-41-4	Ethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/l	1.0	1	"	"	"	"	"	"
91-20-3	Naphthalene	BRL		µg/l	1.0	1	"	"	"	"	"	"
108-88-3	Toluene	BRL		µg/l	1.0	1	"	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	"	"
179601-23-1	m,p-Xylene	BRL		µg/l	2.0	1	"	"	"	"	"	"
95-47-6	o-Xylene	BRL		µg/l	1.0	1	"	"	"	"	"	"

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	95			70-130 %		"	"	"	"	"	"
2037-26-5	Toluene-d8	97			70-130 %		"	"	"	"	"	"
17060-07-0	1,2-Dichloroethane-d4	103			70-130 %		"	"	"	"	"	"
1868-53-7	Dibromofluoromethane	103			70-130 %		"	"	"	"	"	"

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1012178 - SW846 5030 Water MS										
<u>Blank (1012178-BLK1)</u>				<u>Prepared & Analyzed: 09-Jun-10</u>						
Benzene	BRL		µg/l	1.0						
Chlorobenzene	BRL		µg/l	1.0						
1,2-Dibromoethane (EDB)	BRL		µg/l	0.5						
1,2-Dichloroethane	BRL		µg/l	1.0						
1,1-Dichloroethene	BRL		µg/l	1.0						
Ethylbenzene	BRL		µg/l	1.0						
Methyl tert-butyl ether	BRL		µg/l	1.0						
Naphthalene	BRL		µg/l	1.0						
Toluene	BRL		µg/l	1.0						
Trichloroethene	BRL		µg/l	1.0						
1,2,4-Trimethylbenzene	BRL		µg/l	1.0						
1,3,5-Trimethylbenzene	BRL		µg/l	1.0						
m,p-Xylene	BRL		µg/l	2.0						
o-Xylene	BRL		µg/l	1.0						
<i>Surrogate: 4-Bromofluorobenzene</i>	47.3		µg/l		50.0		95	70-130		
<i>Surrogate: Toluene-d8</i>	48.7		µg/l		50.0		97	70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	52.0		µg/l		50.0		104	70-130		
<i>Surrogate: Dibromofluoromethane</i>	52.0		µg/l		50.0		104	70-130		
<u>LCS (1012178-BS1)</u>				<u>Prepared & Analyzed: 09-Jun-10</u>						
Benzene	20.8		µg/l		20.0		104	70-130		
1,2-Dibromoethane (EDB)	20.7		µg/l		20.0		103	70-130		
1,2-Dichloroethane	19.8		µg/l		20.0		99	70-130		
Ethylbenzene	23.5		µg/l		20.0		117	70-130		
Methyl tert-butyl ether	20.2		µg/l		20.0		101	70-130		
Naphthalene	16.4		µg/l		20.0		82	70-130		
Toluene	21.2		µg/l		20.0		106	70-130		
1,2,4-Trimethylbenzene	24.0		µg/l		20.0		120	70-130		
1,3,5-Trimethylbenzene	24.1		µg/l		20.0		120	70-130		
m,p-Xylene	47.7		µg/l		40.0		119	70-130		
o-Xylene	24.4		µg/l		20.0		122	70-130		
<i>Surrogate: 4-Bromofluorobenzene</i>	52.2		µg/l		50.0		104	70-130		
<i>Surrogate: Toluene-d8</i>	49.2		µg/l		50.0		98	70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	49.4		µg/l		50.0		99	70-130		
<i>Surrogate: Dibromofluoromethane</i>	54.4		µg/l		50.0		109	70-130		
<u>LCS Dup (1012178-BSD1)</u>				<u>Prepared & Analyzed: 09-Jun-10</u>						
Benzene	20.4		µg/l		20.0		102	70-130	2	30
1,2-Dibromoethane (EDB)	20.6		µg/l		20.0		103	70-130	0.5	25
1,2-Dichloroethane	19.5		µg/l		20.0		97	70-130	2	25
Ethylbenzene	22.8		µg/l		20.0		114	70-130	3	30
Methyl tert-butyl ether	19.8		µg/l		20.0		99	70-130	2	30
Naphthalene	16.3		µg/l		20.0		81	70-130	0.6	30
Toluene	20.6		µg/l		20.0		103	70-130	3	30
1,2,4-Trimethylbenzene	23.8		µg/l		20.0		119	70-130	0.8	30
1,3,5-Trimethylbenzene	23.1		µg/l		20.0		116	70-130	4	30
m,p-Xylene	46.6		µg/l		40.0		117	70-130	2	30
o-Xylene	23.4		µg/l		20.0		117	70-130	4	30
<i>Surrogate: 4-Bromofluorobenzene</i>	51.8		µg/l		50.0		104	70-130		
<i>Surrogate: Toluene-d8</i>	48.4		µg/l		50.0		97	70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	48.8		µg/l		50.0		98	70-130		
<i>Surrogate: Dibromofluoromethane</i>	54.7		µg/l		50.0		109	70-130		

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* Reportable Detection Limit

BRL = Below Reporting Limit

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1012257 - SW846 5030 Water MS										
<u>Blank (1012257-BLK1)</u>					<u>Prepared & Analyzed: 10-Jun-10</u>					
Benzene	BRL		µg/l	1.0						
Chlorobenzene	BRL		µg/l	1.0						
1,2-Dibromoethane (EDB)	BRL		µg/l	0.5						
1,2-Dichloroethane	BRL		µg/l	1.0						
1,1-Dichloroethene	BRL		µg/l	1.0						
Ethylbenzene	BRL		µg/l	1.0						
Methyl tert-butyl ether	BRL		µg/l	1.0						
Naphthalene	BRL		µg/l	1.0						
Toluene	BRL		µg/l	1.0						
Trichloroethene	BRL		µg/l	1.0						
1,2,4-Trimethylbenzene	BRL		µg/l	1.0						
1,3,5-Trimethylbenzene	BRL		µg/l	1.0						
m,p-Xylene	BRL		µg/l	2.0						
o-Xylene	BRL		µg/l	1.0						
<i>Surrogate: 4-Bromofluorobenzene</i>	48.2		µg/l		50.0		96	70-130		
<i>Surrogate: Toluene-d8</i>	50.2		µg/l		50.0		100	70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	53.2		µg/l		50.0		106	70-130		
<i>Surrogate: Dibromofluoromethane</i>	53.5		µg/l		50.0		107	70-130		
<u>LCS (1012257-BS1)</u>					<u>Prepared & Analyzed: 10-Jun-10</u>					
Benzene	21.7		µg/l		20.0		108	70-130		
1,2-Dibromoethane (EDB)	21.9		µg/l		20.0		110	70-130		
1,2-Dichloroethane	20.5		µg/l		20.0		102	70-130		
Ethylbenzene	23.5		µg/l		20.0		117	70-130		
Methyl tert-butyl ether	20.6		µg/l		20.0		103	70-130		
Naphthalene	17.0		µg/l		20.0		85	70-130		
Toluene	22.0		µg/l		20.0		110	70-130		
1,2,4-Trimethylbenzene	24.7		µg/l		20.0		123	70-130		
1,3,5-Trimethylbenzene	24.6		µg/l		20.0		123	70-130		
m,p-Xylene	48.5		µg/l		40.0		121	70-130		
o-Xylene	24.5		µg/l		20.0		122	70-130		
<i>Surrogate: 4-Bromofluorobenzene</i>	52.5		µg/l		50.0		105	70-130		
<i>Surrogate: Toluene-d8</i>	49.6		µg/l		50.0		99	70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	49.2		µg/l		50.0		98	70-130		
<i>Surrogate: Dibromofluoromethane</i>	53.6		µg/l		50.0		107	70-130		
<u>LCS Dup (1012257-BSD1)</u>					<u>Prepared & Analyzed: 10-Jun-10</u>					
Benzene	20.6		µg/l		20.0		103	70-130	5	30
1,2-Dibromoethane (EDB)	20.9		µg/l		20.0		104	70-130	5	25
1,2-Dichloroethane	20.3		µg/l		20.0		101	70-130	0.9	25
Ethylbenzene	22.7		µg/l		20.0		114	70-130	3	30
Methyl tert-butyl ether	20.3		µg/l		20.0		102	70-130	1	30
Naphthalene	16.4		µg/l		20.0		82	70-130	4	30
Toluene	21.4		µg/l		20.0		107	70-130	3	30
1,2,4-Trimethylbenzene	23.9		µg/l		20.0		120	70-130	3	30
1,3,5-Trimethylbenzene	23.4		µg/l		20.0		117	70-130	5	30
m,p-Xylene	46.9		µg/l		40.0		117	70-130	3	30
o-Xylene	23.2		µg/l		20.0		116	70-130	5	30
<i>Surrogate: 4-Bromofluorobenzene</i>	52.0		µg/l		50.0		104	70-130		
<i>Surrogate: Toluene-d8</i>	49.8		µg/l		50.0		100	70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	49.2		µg/l		50.0		98	70-130		
<i>Surrogate: Dibromofluoromethane</i>	54.5		µg/l		50.0		109	70-130		

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Notes and Definitions

BRL	Below Reporting Limit - Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

A plus sign (+) in the Method Reference column indicates the method is not accredited by NELAC.

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic

Validated by:
Hanibal C. Tayeh, Ph.D.
Kimberly Wisk



SPECTRUM ANALYTICAL, INC.
Forensic
LABORATORY TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:

- Standard TAT - 7 to 10 business days
- Rush TAT - Date Needed: _____
- All TATs subject to laboratory approval
- Min. 24-hour notification needed for rushes
- Samples disposed of after 60 days unless otherwise instructed.

SB131072

Report To: DB Environmental Consulting

Invoice To: DB Environmental Consulting

Project No.: 1019

Project Mgr: DAVID BALK

P.O. No.: _____
RON: DISCOUNTED

Site Name: FORMER RTD SAVED
Location: RAVENSVILLE State: VT
Sampler(s): DAVID BALK

1=Na₂SO₄ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid 7=CH₃OH 11= _____
8=NaHSO₄ 9=4°C ICE 10= _____

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1=TRIP X2=_____ X3=_____

G=Grab C=Composite

Lab Id.	Sample Id.	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Containers:	Analyses:	List preservative code below:	QA/QC Reporting Notes: (check as needed)
3107	01 KIL-INW	5/29/10	6:15	G	DW	3							
	02 DEF-INW	5/28/10	5:00										
	03 DEF-EFF		5:15										
	04 COL-INF		5:30										
	05 BIS-INF		5:45										
	06 BIS-BET		5:55										
	07 BIS-EFF		6:00										
	08 TRIP		7:00										

- State specific reporting standards:
- Provide MA DEP MCP/CAM Report
 - Provide CT DEP RCP Report
 - QA/QC Reporting Level
 - Standard No QC
 - Other _____

EDD Format _____
 E-mail to _____
Condition upon receipt: Ice Ambient °C 6.9

Relinquished by: David Balk Date: 6/1/10

Received by: Bergeson Date: 6/1/10

Time: 12:15 PM

Time: 5:28