

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
SAXTONS RIVER SUNOCO
40 MAIN STREET (ROUTE 121)
SAXTONS RIVER, VT 05154
VT DEC SMS #1989-0415

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. 1018
DOCUMENT: ANNRPT1210
DECEMBER 31, 2010

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

December 31, 2010
Project: 1018
Document: AnnRpt1210

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

RE: Annual Monitoring Report for Saxtons River Sunoco, 40 Main Street, Saxtons River, VT
VTDEC Site #1989-0415

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.

The site is a former gasoline and automotive repair business. The building is vacant and has not been in use for several years. A remediation system had been in operation at the site to treat groundwater contamination. A water supply well is located onsite and on neighboring residential properties to the east and southeast. Commercial properties are located to the north beyond Main Street (Route 121) and to the west beyond Saxtons River. The Saxtons River abuts the property to the west and southwest with a flow direction to the southeast. The groundwater flow direction had been determined to be in a southerly direction toward the Saxtons River.

Date of Sampling Event and Wells Sampled: October 8, 2010 AR-2, AR-3, AR-8, AR-10, AR-11, and RW-1

Groundwater Sampling Method: PVC Bailer Sampling.

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

Groundwater Flow Direction: Southerly. A Groundwater Table Contour Map for the most recent sampling event is provided as Figure 2.

Groundwater Table Trends: The groundwater table was encountered at the 7 to 14 foot depth range during the October 2010 gauging. Table 1 provides a summary of the groundwater elevation and analytical results.

Dissolved VOC Concentrations: No Primary Groundwater Quality Standards (PGQS) exceedances were reported in samples collected from the monitoring wells.

CONCLUSIONS

DBEC provides the following conclusions:

- A) Groundwater table elevations ranged from a decrease of 0.29 feet at AR-5 to an increase of 1.08 feet at AR-3 from October 2009 to October 2010, with an overall average increase of 0.49 feet over the time period;
- B) No PGQS exceedances were noted in any of the monitoring wells.

RECOMMENDATIONS

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

- 1) As no PGQS exceedances were noted in the October 2010 sampling event, a Sites Management Activities Completion (SMAC) designation should be considered for the site.
- 2) If a SMAC designation is approved by the VTDEC, the monitoring wells should be removed following VT DEC requirements.

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

Sincerely,
DB ENVIRONMENTAL CONSULTING

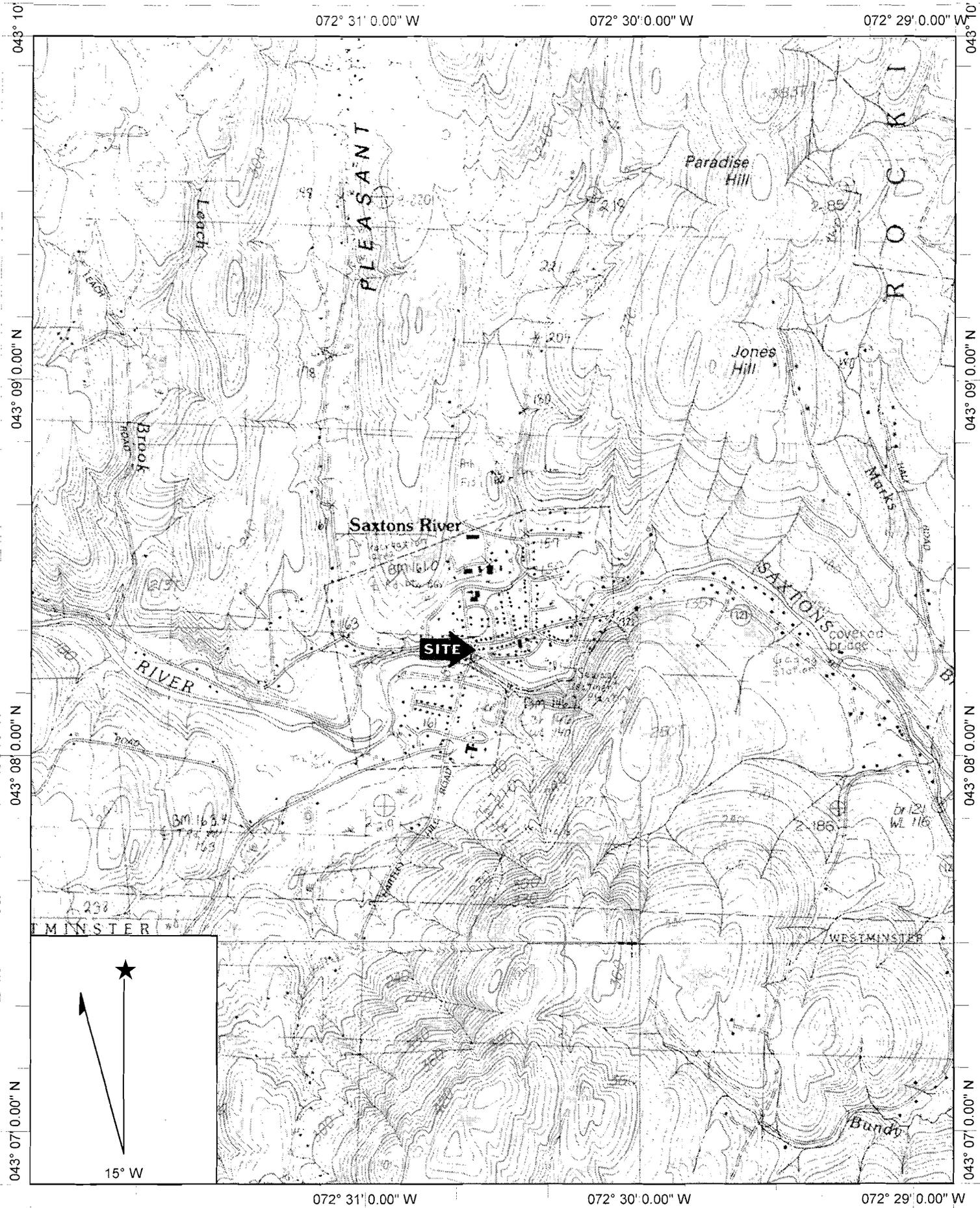


David Balk, P.G., R.S.

cc: Richard Spiese, VT DEC Site Manager

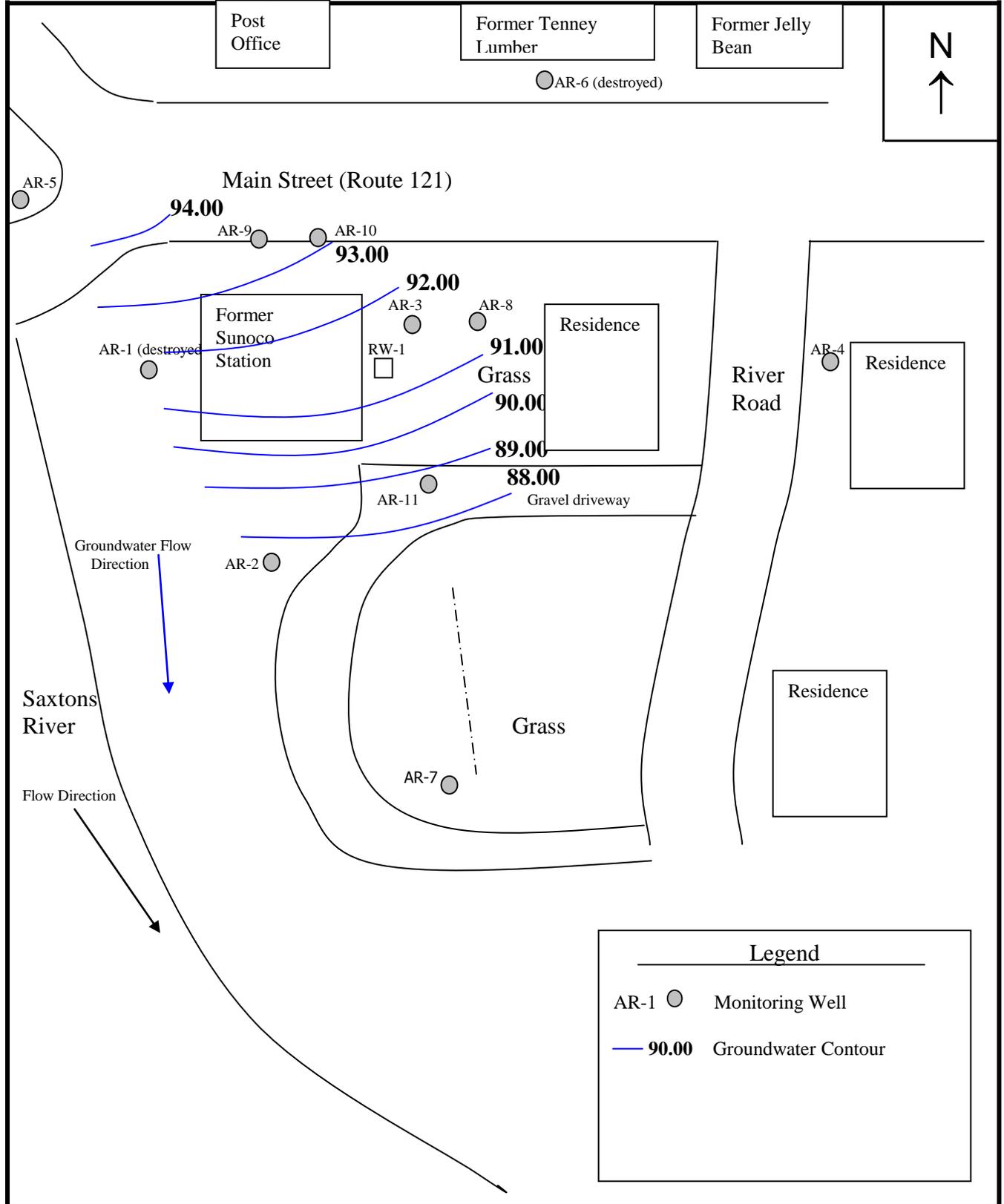
Enclosures:

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



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

Location: 043° 08' 23.1" N 072° 30' 32.1" W
 Caption: Saxtons River Sunoco
 Main Street (Route 121)
 Saxtons River, VT 05154



<p>Figure 2 Groundwater Contour Map</p>	<p>Saxtons River Sunoco (VT DEC#1989-0415) Main Street (Route 121) Saxtons River, VT 05154</p>	Scale: Not to Scale
		Date: October 2010
		Drawn By: DCB

Saxtons River Sunoco Main Street (Route 121) Saxtons River, Vermont Site #1989-0415		Table 1 Summary of Groundwater Monitoring										
WELL ID	Elevations in Feet			Volatile Organic Compounds (ug/L)								
	Depth to Groundwater	Water Table Elevation	Reference Elevation	Benzene	Toluene	Ethylbenzene	Total Xylenes	TOTAL BTEX	Naphthalene	1,2,4- Trimethyl benzene	1,3,5-Trimethyl benzene	MTBE
Sampling Date												
AR-1			98.14									
4/24/1994				ND	64	ND	ND	64	NT	NT	NT	8
7/18/1994				ND	ND	ND	ND	ND	NT	NT	NT	ND
10/18/1994				ND	ND	ND	ND	ND	NT	NT	NT	ND
1/11/1995				ND	ND	ND	ND	ND	NT	NT	NT	ND
4/7/1995				ND	ND	ND	ND	ND	NT	NT	NT	ND
7/21/1995				ND	ND	ND	ND	ND	NT	NT	NT	ND
10/16/1995	7.07	91.07		ND	ND	ND	ND	ND	NT	NT	NT	ND
1/16/1996	6.77	91.37		ND	ND	ND	ND	ND	NT	NT	NT	ND
4/17/1996	6.08	92.06		ND	ND	ND	ND	ND	NT	NT	NT	6.6
12/27/1996	6.36	91.78		ND	ND	ND	ND	ND	NT	NT	NT	1.1
10/22/1997	6.96	91.18		3.1	<2	<1	<5	3.1	NT	NT	NT	27
10/23/1998	7.05	91.09		<1	<1	<1	<3	ND	<1	<1	<1	<1
10/12/1999	6.56	91.58		<1	<1	<1	<2	ND	<1	1.0	<1	<1
10/24/2000	6.58	91.56		<1	<1	<1	<3	ND	<1	<1	<1	<1
10/17/2001	6.98	91.16		<1	<1	<1	<3	ND	<1	<1	<1	<1
10/30/2002	6.68	91.46		<1	<1	<1	<3	ND	<1	<1	<1	<1
10/14/2003	NG	NG		Well destroyed during bridge work								
AR-2			95.27									
4/24/1994				ND	ND	ND	ND	ND	NT	NT	NT	58
7/18/1994				39	ND	ND	2.3	41.3	NT	NT	NT	450
10/18/1994				ND	ND	ND	ND	ND	NT	NT	NT	120
1/11/1995				ND	ND	ND	ND	ND	NT	NT	NT	72
4/7/1995				ND	ND	ND	ND	ND	NT	NT	NT	13
7/21/1995				3.3	ND	ND	ND	3.3	NT	NT	NT	21
10/16/1995	9.79	85.48		ND	ND	ND	ND	ND	NT	NT	NT	35
1/16/1996	9.11	86.16		ND	ND	ND	ND	ND	NT	NT	NT	ND
4/17/1996	6.17	89.10		ND	ND	ND	ND	ND	NT	NT	NT	260
12/27/1996	7.20	88.07		ND	ND	ND	ND	ND	ND	ND	ND	30
10/22/1997	9.60	85.67		8	1.2	<1	<3	9.2	NT	NT	NT	12
10/23/1998	9.62	85.65		110	1.6	<1	<3	111.6	<1	<1	<1	22
10/12/1999	8.22	87.05		1.8	<1	<1	<2	1.8	<1	<1	<1	<1
10/24/2000	8.09	87.18		1.3	<1	<1	<3	1.3	<1	<1	<1	1.2
10/17/2001	9.04	86.23		14	<1	<1	<3	14	<1	<1	<1	<1
10/30/2002	8.30	86.97		27	<1	<1	<1	27	<1	<1	<1	<1
10/14/2003	8.34	86.93		<1.0	<1	<1	<2	ND	<1	<1	<1	<1
10/8/2004	8.32	86.95		2.8	<1	<1	<2	ND	<1	<1	<1	<1
10/19/2005	NG	NG		NS	NS	NS	NS	NS	NS	NS	NS	NS
10/11/2006	8.70	86.57		25.3	<1	<1	<2	25.3	<1	<1	<1	<1
10/25/2007	8.18	87.09		<1	<1	<1	<2	ND	<1	<1	<1	<1
10/28/2008	7.64	87.63		<1	<1	<1	<2	ND	<1	<1	<1	<1
10/7/2009	8.28	86.99		<1	<1	<1	<2	ND	<1	<1	<1	<1
10/8/2010	7.62	87.65		<1	<1	<1	<2	ND	<1	<1	<1	<1
AR-3			104.38									
4/24/1994				ND	ND	ND	56	56	NT	NT	NT	ND
7/18/1994				ND	86	ND	530	616	NT	NT	NT	ND
10/18/1994				580	820	ND	1,200	2,600	NT	NT	NT	ND
1/11/1995				72	190	ND	150	412	NT	NT	NT	ND
4/7/1995				600	3,900	230	2,400	7,130	NT	NT	NT	ND
7/21/1995				8,000	27,000	2,500	13,000	50,500	NT	NT	NT	ND
10/16/1995	14.83	89.55		2,700	18,000	1,700	14,000	36,400	NT	NT	NT	ND
1/16/1996	15.42	88.96		430	420	100	550	1,500	NT	NT	NT	ND
4/17/1996	9.52	94.86		ND	ND	ND	6.2	6.2	NT	NT	NT	ND
12/27/1996	10.65	93.73		ND	ND	ND	ND	ND	NT	NT	NT	ND
10/22/1997	15.00	89.38		51	84	20	121	276	NT	NT	NT	<5
10/23/1998	14.82	89.56		10	92	9.5	114	225.5	5.6	24	13	<5
10/12/1999	12.87	91.51		1.4	9.4	1.6	16.1	28.5	<1	1.1	2.4	81
10/24/2000	12.99	91.39		6	72	5.0	263	346.0	4.3	22	14	<2
10/17/2001	14.71	89.67		3.1	120	18	350	491	8.1	41	20	<1
10/30/2002	13.47	90.91		<1	5.1	1.8	8.8	15.7	<1	1.2	<1	<1
10/14/2003	12.43	91.95		<1	<1	<1	<2	ND	<1	<1	<1	<1
10/8/2004	12.46	91.92		<1	1.0	3.0	118.3	122.3	5.8	60.5	26.8	<1
10/19/2005	10.13	94.25		<1	<1	<1	<2	ND	<1	<1	<1	<1
10/11/2006	13.62	90.76		1.0	5.4	2.1	29.5	38	5.6	15	5.3	<1
10/25/2007	14.06	90.32		<1	<1	<1	<2	ND	<1	<1	<1	<1
10/28/2008	11.95	92.43		<1	<1	<1	<2	ND	<1	<1	<1	<1
10/7/2009	13.63	90.75		<1	6.7	3.9	55.2	65.8	4.9	9.3	2.9	<1
10/8/2010	12.55	91.83		<1	<1	<1	<2	ND	<1	<1	<1	<1
VT 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.

Saxtons River Sunoco Main Street (Route 121) Saxtons River, Vermont Site #1989-0415		Table 1 Summary of Groundwater Monitoring										
WELL ID	Elevations in Feet			Volatile Organic Compounds (ug/L)								
	Depth to Groundwater	Water Table Elevation	Reference Elevation	Benzene	Toluene	Ethylbenzene	Total Xylenes	TOTAL BTEX	Naphthalene	1,2,4- Trimethyl benzene	1,3,5-Trimethyl benzene	MTBE
Sampling Date												
AR-4			101.48									
4/24/1994				ND	ND	ND	ND	ND	NT	NT	NT	ND
7/18/1994				ND	ND	ND	ND	ND	NT	NT	NT	ND
10/18/1994				ND	ND	ND	ND	ND	NT	NT	NT	ND
1/11/1995				ND	ND	ND	ND	ND	NT	NT	NT	ND
4/7/1995				ND	ND	ND	ND	ND	NT	NT	NT	ND
7/21/1995				ND	ND	ND	ND	ND	NT	NT	NT	ND
10/16/1995	DRY			DRY								
1/16/1996	16.82	84.66		ND	ND	ND	ND	ND	NT	NT	NT	ND
4/17/1996	10.77	90.71		ND	ND	ND	ND	ND	NT	NT	NT	ND
12/27/1996	11.81	89.67		ND	ND	ND	ND	ND	NT	NT	NT	ND
3/14/1997				Removed from sampling schedule								
10/11/2006	16.81	84.67		NS	NS	NS	NS	NS	NS	NS	NS	NS
10/25/2007	18.87	82.61		NS	NS	NS	NS	NS	NS	NS	NS	NS
10/28/2008	16.70	84.78		NS	NS	NS	NS	NS	NS	NS	NS	NS
AR-5			102.64									
4/24/1994				ND	ND	ND	ND	ND	NT	NT	NT	ND
7/18/1994				ND	ND	ND	ND	ND	NT	NT	NT	ND
10/18/1994				ND	ND	ND	ND	ND	NT	NT	NT	ND
1/11/1995				ND	ND	ND	ND	ND	NT	NT	NT	ND
4/7/1995				ND	ND	ND	ND	ND	NT	NT	NT	ND
7/21/1995				ND	ND	ND	ND	ND	NT	NT	NT	ND
10/16/1995	10.04	92.60		ND	ND	ND	ND	ND	ND	ND	ND	ND
1/16/1996	8.43	94.21		ND	ND	ND	ND	ND	ND	ND	ND	ND
4/17/1996	5.41	97.23		ND	ND	ND	ND	ND	ND	ND	ND	ND
12/27/1996	6.29	96.35		ND	ND	ND	ND	ND	ND	ND	ND	ND
3/14/1997				Removed from sampling schedule								
10/11/2006	13.61	89.03		NS	NS	NS	NS	NS	NS	NS	NS	NS
10/25/2007	9.91	92.73		NS	NS	NS	NS	NS	NS	NS	NS	NS
10/28/2008	7.25	95.39		NS	NS	NS	NS	NS	NS	NS	NS	NS
10/7/2009	7.64	95.00		NS	NS	NS	NS	NS	NS	NS	NS	NS
10/8/2010	7.93	94.71		NS	NS	NS	NS	NS	NS	NS	NS	NS
AR-6			103.22									
4/24/1994				ND	ND	ND	ND	ND	NT	NT	NT	ND
7/18/1994				ND	ND	ND	ND	ND	NT	NT	NT	ND
10/18/1994				Well covered by sidewalk repaving								
AR-7			93.85									
4/24/1994				ND	ND	ND	ND	ND	NT	NT	NT	ND
7/18/1994				ND	ND	ND	ND	ND	NT	NT	NT	ND
10/18/1994				ND	ND	ND	ND	ND	NT	NT	NT	ND
1/11/1995				ND	ND	ND	ND	ND	NT	NT	NT	ND
4/7/1995				ND	ND	ND	ND	ND	NT	NT	NT	ND
7/21/1995				ND	ND	ND	ND	ND	NT	NT	NT	ND
10/16/1995	DRY			DRY								
1/16/1996	10.55	83.30		ND	ND	ND	ND	ND	ND	ND	ND	ND
4/17/1996	8.26	85.59		ND	ND	ND	ND	ND	ND	ND	ND	ND
12/27/1996	8.38	85.47		ND	ND	ND	ND	ND	ND	ND	ND	ND
3/14/1997				Removed from sampling schedule								
10/25/2007	10.92	82.93		NS	NS	NS	NS	NS	NS	NS	NS	NS
10/28/2008	11.18	82.67		NS	NS	NS	NS	NS	NS	NS	NS	NS
10/7/2009	11.10	82.75		NS	NS	NS	NS	NS	NS	NS	NS	NS
10/8/2010	Dry	Dry		NS	NS	NS	NS	NS	NS	NS	NS	NS
VT 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.

Saxtons River Sunoco Main Street (Route 121) Saxtons River, Vermont Site #1989-0415		Table 1 Summary of Groundwater Monitoring										
WELL ID	Elevations in Feet			Volatile Organic Compounds (ug/L)								
	Depth to Groundwater	Water Table Elevation	Reference Elevation	Benzene	Toluene	Ethylbenzene	Total Xylenes	TOTAL BTEX	Naphthalene	1,2,4- Trimethyl benzene	1,3,5-Trimethyl benzene	MTBE
Sampling Date												
AR-8			104.68									
4/24/1994				ND	ND	ND	ND	ND	NT	NT	NT	ND
7/18/1994				480	1,100	99	1,400	3,079	NT	NT	NT	ND
10/18/1994				3,600	5,800	350	3,600	13,350	NT	NT	NT	ND
1/11/1995				880	730	81	650	2,341	NT	NT	NT	ND
4/7/1995				1,300	1,300	270	1,300	4,170	NT	NT	NT	ND
7/21/1995				4,000	8,100	1,200	5,500	18,800	NT	NT	NT	ND
10/16/1995	15.35	89.33		2,600	3,600	460	2,600	9,260	NT	NT	NT	ND
1/16/1996	14.95	89.73		1,600	1,400	580	2,100	5,680	NT	NT	NT	ND
4/17/1996	8.32	96.36		ND	ND	ND	ND	ND	NT	NT	NT	ND
12/27/1996	11.07	93.61		2.7	ND	ND	ND	2.7	NT	NT	NT	ND
10/22/1997	15.60	89.08		1,700	2,700	630	2,900	7,930	NT	NT	NT	ND<10
10/23/1998	15.42	89.26		330	180	300	449	1,259	170	260	230	ND<10
10/12/1999	13.41	91.27		11	18	8	131	168	11	150	170	120
10/24/2000	13.47	91.21		15	51	79	66	211	52	19	32	ND<2
10/17/2001	15.42	89.26		31	32	150	31	244	120	3.8	21	ND<1
10/30/2002	14.17	90.51		26	29	140	38	233	140	4.7	18	<1
10/14/2003	12.97	91.71		1.25	3.65	29.4	6.91	41.21	18.4	1.42	6.53	<1
10/8/2004	13.06	91.62		1.6	10.8	33.5	16	61.9	34.7	2.1	2.3	<1
10/19/2005	11.57	93.11		<1	<1	<1	<2	ND	<1	<1	<1	<1
10/11/2006	14.21	90.47		<1	18.9	24.6	132.3	175.8	79.6	10.5	26.5	<1
10/25/2007	14.59	90.09		<1	<1	<1	<2	ND	<1	<1	<1	<1
10/28/2008	12.86	91.82		<1	<1	<1	<2	ND	8.8	<1	2.0	<1
10/7/2009	14.22	90.46		<1	7.7	22.5	4	34.2	17.4	<1	1.7	<1
10/8/2010	13.17	91.51		<1	<1	<1	<2	ND	<1	<1	<1	<1
AR-9			102.96									
4/24/1994				ND	ND	ND	ND	ND	NT	NT	NT	ND
7/18/1994				ND	ND	ND	ND	ND	NT	NT	NT	ND
10/18/1994				ND	ND	ND	ND	ND	NT	NT	NT	ND
1/11/1995				ND	ND	ND	ND	ND	NT	NT	NT	ND
4/7/1995				ND	ND	ND	ND	ND	NT	NT	NT	ND
7/21/1995				ND	ND	ND	ND	ND	NT	NT	NT	ND
10/16/1995	12.01	90.95		ND	ND	ND	ND	ND	NT	NT	NT	ND
1/16/1996	11.58	91.38		1.9	ND	ND	ND	1.9	NT	NT	NT	ND
4/17/1996	10.72	92.24		ND	ND	ND	ND	ND	NT	NT	NT	ND
12/27/1996	10.63	92.33		ND	ND	ND	ND	ND	NT	NT	NT	ND
3/14/1997				Removed from sampling schedule								
10/11/2006	11.35	91.61		NS	NS	NS	NS	NS	NS	NS	NS	NS
10/25/2007	11.93	91.03		NS	NS	NS	NS	NS	NS	NS	NS	NS
10/28/2008	10.74	92.22		NS	NS	NS	NS	NS	NS	NS	NS	NS
10/7/2009	10.73	92.23		NS	NS	NS	NS	NS	NS	NS	NS	NS
10/8/2010	10.81	92.15		NS	NS	NS	NS	NS	NS	NS	NS	NS
AR-10			102.85									
4/24/1994				ND	ND	ND	ND	ND	NT	NT	NT	ND
7/18/1994				ND	ND	ND	ND	ND	NT	NT	NT	ND
10/18/1994				ND	ND	ND	ND	ND	NT	NT	NT	ND
1/11/1995				ND	ND	ND	ND	ND	NT	NT	NT	ND
4/7/1995				ND	ND	ND	ND	ND	NT	NT	NT	ND
7/21/1995				ND	ND	ND	ND	ND	NT	NT	NT	ND
10/16/1995	11.31	91.54		ND	ND	ND	ND	ND	NT	NT	NT	ND
1/16/1996	10.02	92.83		1.3	ND	ND	ND	1.3	NT	NT	NT	ND
4/17/1996	6.25	96.60		ND	ND	ND	ND	ND	NT	NT	NT	ND
12/27/1996	6.92	95.93		ND	ND	ND	ND	ND	NT	NT	NT	ND
10/22/1997	11.85	91.00		<2	<2	<1	<3	ND	NT	NT	NT	ND<1
10/23/1998	10.88	91.97		<1	<1	<1	<3	ND	<1	<1	<1	<1
10/12/1999	9.59	93.26		<1	<1	<1	<2	ND	1.1	5.3	3.5	46
10/24/2000	9.46	93.39		<1	<1	<1	<3	ND	<1	<1	<1	<1
10/17/2001	10.81	92.04		<1	<1	<1	<3	ND	<1	<1	<1	<1
10/30/2002	10.40	92.45		<1	<1	<1	<3	ND	<1	<1	<1	<1
10/14/2003	8.72	94.13		<1	<1	<1	<2	ND	<1	<1	<1	<1
10/8/2004	9.02	93.83		<1	<1	<1	<2	ND	<1	<1	<1	<1
10/19/2005	8.28	94.57		<1	<1	<1	<2	ND	<1	<1	<1	<1
10/11/2006	10.01	92.84		<1	<1	<1	<2	ND	<1	<1	<1	<1
10/25/2007	11.24	91.61		<1	<1	<1	<2	ND	<1	<1	<1	<1
10/28/2008	9.23	93.62		<1	<1	<1	<2	ND	<1	<1	<1	<1
10/7/2009	9.54	93.31		<1	<1	<1	<2	ND	<1	<1	<1	<1
10/7/2010	9.77	93.08		<1	<1	<1	<2	ND	<1	<1	<1	<1
VT 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.

Saxtons River Sunoco Main Street (Route 121) Saxtons River, Vermont Site #1989-0415				Table 1 Summary of Groundwater Monitoring								
WELL ID	Elevations in Feet			Volatile Organic Compounds (ug/L)								
	Depth to Groundwater	Water Table Elevation	Reference Elevation	Benzene	Toluene	Ethylbenzene	Total Xylenes	TOTAL BTEX	Naphthalene	1,2,4- Trimethyl benzene	1,3,5-Trimethyl benzene	MTBE
Sampling Date			96.37									
AR-11												
4/24/1994				48	3.6	ND	16	67.6	NT	NT	NT	7.9
7/18/1994				1,300	350	ND	1,100	2,750	NT	NT	NT	ND
10/18/1994				1,300	99	ND	260	1,659	NT	NT	NT	ND
1/11/1995				830	61	ND	190	1,081	NT	NT	NT	ND
4/7/1995				3,500	1,500	94	980	6,074	NT	NT	NT	ND
7/21/1995				310	ND	ND	ND	310	NT	NT	NT	ND
10/16/1995	9.90	86.47		160	ND	ND	75	235	NT	NT	NT	ND
1/16/1996	9.58	86.79		5,000	2,100	ND	1,000	8,100	NT	NT	NT	ND
4/17/1996	6.34	90.03		130	ND	ND	14	144	NT	NT	NT	ND
12/27/1996	7.81	88.56		700	120	14.0	76.0	910	NT	NT	NT	ND
10/22/1997	10.24	86.13		1,700	480	160	590	2,930	NT	NT	NT	<10
10/23/1998	10.18	86.19		270	170	24	124	588	11	25	12	<2.5
10/12/1999	8.41	87.96		26	22	9.0	25	82	18	180	220	310
10/24/2000	7.97	88.40		190	310	130	346	976	51	140	57	<50
10/17/2001	9.63	86.74		210	130	55	88	483	9.6	30	20	<2.5
10/30/2002	8.72	87.65		6.2	<1	<1	<3	6.2	<1	<1	<1	<1
10/14/2003	8.32	88.05		57.5	21.9	83.6	45.12	208.12	24.9	35.7	25.0	2.02
10/8/2004	8.24	88.13		10.6	23.2	81.5	55.3	170.6	28.7	51.7	31.1	<2
10/19/2005	7.19	89.18		6.6	11.7	25.6	20.7	64.6	16.6	15.7	14.8	<1
10/11/2006	8.80	87.57		6.9	76.8	235	145.2	463.9	84.7	59.8	50.3	<1
10/25/2007	8.17	88.20		<1	<1	<1	<2	ND	<1	<1	<1	<1
10/28/2008	7.46	88.91		1.2	6.2	40.3	19.2	66.9	29.3	15.3	20.5	<1
10/7/2009	8.53	87.84		3.6	50	183	69.1	305.7	91.7	49.4	65.2	<1
10/8/2010	7.60	88.77		<1	1.8	3.7	<2	5.5	2	1.1	1.5	<1
RW-1			101.65									
4/24/1994				3,300	3,300	85	2,700	9,385	NT	NT	NT	830
7/18/1994				540	2,300	200	4,000	7,040	NT	NT	NT	ND
10/18/1994				Not Sampled								
1/11/1995				140	640	ND	1,300	2,080	NT	NT	NT	ND
4/7/1995				ND	190	ND	430	620	NT	NT	NT	ND
7/21/1995				Free Product								
10/16/1995	12.19	89.46		650	1,400	ND	1,800	3,850	NT	NT	NT	ND
1/16/1996	12.17	89.48		210	340	13	460	1,023	NT	NT	NT	ND
4/17/1996	8.84	92.81		820	5,000	ND	4,500	10,320	NT	NT	NT	ND
12/27/1996	6.21	95.44		21	99.0	13.0	620	753	NT	NT	NT	ND
10/22/1997	12.70	88.95		19	60	46	400	525	NT	NT	NT	<5
10/23/1998	12.47	89.18		100	30	19	178	327	7.5	150	87	<2.5
10/12/1999	NG	NG		1.1	<1	<1	<3	1.1	1.1	7.1	5.2	<1
10/24/2000	10.79	90.86		5.7	<1	5.2	92	103	<1	37	27	<1
10/17/2001	12.25	89.40		180	270	78	590	1,118	6.5	39	19	<1
10/30/2002	11.22	90.43		31	41	4.8	21.6	98.4	4.4	44	23	<1
10/14/2003	10.25	91.40		<1	<1	<1	6.9	6.9	1.77	14.6	8.97	<1
10/8/2004	10.18	91.47		1.0	1.6	1.9	5.6	10.1	1.8	20	10.3	<1
10/19/2005	NG	NG		NS	NS	NS	NS	NS	NS	NS	NS	NS
10/11/2006	12.33	89.32		17.7	317.0	177	360.2	871.9	55.6	121	62.7	<1
10/25/2007	11.15	90.50		<1	<1	<1	<2	ND	<1	<1	<1	<1
10/28/2008	10.04	91.61		<1	<1	<1	<2	ND	<1	<1	<1	<1
10/7/2009	11.47	90.18		<1	<1	<1	<2	ND	1.1	<1	<1	<1
10/8/2010	10.65	91.00		1.4	28.9	9	12.2	52	1.8	5.4	3.6	<1
VT 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 # 1989-0415

Project Number: 1018

Client: A.R. Sandri

Date: 10/8/10

Location: Saxtons River Sunoco, Saxtons River, 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)
AR-2	1:30	2	PVC	14.77	7.62	7.15	1.17				
AR-3	1:45	2	PVC	19.62	12.55	7.07	1.15				
AR-4	NS	2	PVC	20.00	NM	NM	NM				
AR-5	NS	2	PVC	19.89	7.93	11.96	1.95				
AR-7	NS	2	PVC	11.65	Dry	Dry	Dry				
AR-8	2:00	2	PVC	20.65	13.17	7.48	1.22				
AR-9	NS	2	PVC	16.34	10.81	5.53	0.90				
AR-10	2:15	2	PVC	21.80	9.77	12.03	1.96				
AR-11	2:30	2	PVC	12.90	7.60	5.30	0.86				
RW-1	2:45	12	PVC	17.60	10.65	6.95	1.13				
Trip	7:00										

NOTES:

Solinst Water Level Meter for gauging
 Disposable clear PVC bailers for sampling

AR-2	
AR-3	Stand pipe (property owner wants cut down)
AR-4	Stand pipe (property owner wants cut down)
AR-5	
AR-7	
AR-8	Stand pipe (property owner wants cut down)
AR-9	
AR-10	
AR-11	
RW-1	Stand pipe in 4' X 4' enclosure

* Chris Morrill owns property to east former King Residence

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

Report Date:
25-Oct-10 19:42



- 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: Saxtons River Sunoco - Saxtons River, VT
Project #: 1018

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SB19427-01	AR-2	Ground Water	08-Oct-10 13:30	12-Oct-10 16:15
SB19427-02	AR-3	Ground Water	08-Oct-10 13:45	12-Oct-10 16:15
SB19427-03	AR-8	Ground Water	08-Oct-10 14:00	12-Oct-10 16:15
SB19427-04	AR-10	Ground Water	08-Oct-10 14:15	12-Oct-10 16:15
SB19427-05	AR-11	Ground Water	08-Oct-10 14:30	12-Oct-10 16:15
SB19427-06	RW-1	Ground Water	08-Oct-10 14:45	12-Oct-10 16:15
SB19427-07	Trip	Trip	08-Oct-10 07:00	12-Oct-10 16:15

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



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 10 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).

CASE NARRATIVE:

The sample temperature upon receipt by Spectrum Analytical courier was recorded as 1.2 degrees Celsius. The condition of these samples was further noted as received on ice. The samples were transported on ice to the laboratory facility and the temperature was recorded at 2.8 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/C

Calibration:

S008997-ICV1

Analyte percent recovery is outside individual acceptance criteria (70-130).

Methyl tert-butyl ether (136%)

This affected the following samples:

1021653-BLK1
1021653-BS1
1021653-BSD1
1021753-BLK1
1021753-BS1
1021753-BSD1
AR-10
AR-11
AR-2
AR-3
AR-8
RW-1
S009310-CCV1
S009351-CCV1
Trip

Sample Identification

AR-2 Client Project # 1018 Matrix Ground Water Collection Date/Time 08-Oct-10 13:30 Received 12-Oct-10
 SB19427-01

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/C	18-Oct-10	18-Oct-10	JLG	1021653	
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	103			70-130 %		"	"	"	"	"	"
2037-26-5	Toluene-d8	102			70-130 %		"	"	"	"	"	"
17060-07-0	1,2-Dichloroethane-d4	104			70-130 %		"	"	"	"	"	"
1868-53-7	Dibromofluoromethane	105			70-130 %		"	"	"	"	"	"

Sample Identification

AR-3 Client Project # 1018 Matrix Ground Water Collection Date/Time 08-Oct-10 13:45 Received 12-Oct-10
 SB19427-02

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/C	18-Oct-10	18-Oct-10	JLG	1021653	
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	101			70-130 %		"	"	"	"	"	"
2037-26-5	Toluene-d8	101			70-130 %		"	"	"	"	"	"
17060-07-0	1,2-Dichloroethane-d4	104			70-130 %		"	"	"	"	"	"
1868-53-7	Dibromofluoromethane	106			70-130 %		"	"	"	"	"	"

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* Reportable Detection Limit

BRL = Below Reporting Limit

Page 3 of 10

Sample Identification

AR-8

SB19427-03

Client Project #

1018

Matrix

Ground Water

Collection Date/Time

08-Oct-10 14:00

Received

12-Oct-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/C	18-Oct-10	18-Oct-10	JLG	1021653	
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	104			70-130 %		"	"	"	"	"	"
2037-26-5	Toluene-d8	102			70-130 %		"	"	"	"	"	"
17060-07-0	1,2-Dichloroethane-d4	105			70-130 %		"	"	"	"	"	"
1868-53-7	Dibromofluoromethane	107			70-130 %		"	"	"	"	"	"

Sample Identification

AR-10

SB19427-04

Client Project #

1018

Matrix

Ground Water

Collection Date/Time

08-Oct-10 14:15

Received

12-Oct-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/C	18-Oct-10	18-Oct-10	JLG	1021653	
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	100			70-130 %		"	"	"	"	"	"
2037-26-5	Toluene-d8	101			70-130 %		"	"	"	"	"	"
17060-07-0	1,2-Dichloroethane-d4	108			70-130 %		"	"	"	"	"	"
1868-53-7	Dibromofluoromethane	106			70-130 %		"	"	"	"	"	"

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* Reportable Detection Limit

BRL = Below Reporting Limit

Page 4 of 10

Sample Identification

AR-11 Client Project # 1018 Matrix Ground Water Collection Date/Time 08-Oct-10 14:30 Received 12-Oct-10
 SB19427-05

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/C	19-Oct-10	19-Oct-10	JLG	1021753	
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	3.7		µg/l	1.0	1	"	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/l	1.0	1	"	"	"	"	"	"
91-20-3	Naphthalene	2.0		µg/l	1.0	1	"	"	"	"	"	"
108-88-3	Toluene	1.8		µg/l	1.0	1	"	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	1.1		µg/l	1.0	1	"	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	1.5		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	104			70-130 %		"	"	"	"	"	"
2037-26-5	Toluene-d8	101			70-130 %		"	"	"	"	"	"
17060-07-0	1,2-Dichloroethane-d4	118			70-130 %		"	"	"	"	"	"
1868-53-7	Dibromofluoromethane	110			70-130 %		"	"	"	"	"	"

Sample Identification

RW-1 Client Project # 1018 Matrix Ground Water Collection Date/Time 08-Oct-10 14:45 Received 12-Oct-10
 SB19427-06

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	1.4		µg/l	1.0	1	SW846 8260B/C	18-Oct-10	18-Oct-10	JLG	1021653	
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	9.0		µg/l	1.0	1	"	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/l	1.0	1	"	"	"	"	"	"
91-20-3	Naphthalene	1.8		µg/l	1.0	1	"	"	"	"	"	"
108-88-3	Toluene	28.9		µg/l	1.0	1	"	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	5.4		µg/l	1.0	1	"	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	3.6		µg/l	1.0	1	"	"	"	"	"	"
179601-23-1	m,p-Xylene	7.4		µg/l	2.0	1	"	"	"	"	"	"
95-47-6	o-Xylene	4.8		µg/l	1.0	1	"	"	"	"	"	"

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	101			70-130 %		"	"	"	"	"	"
2037-26-5	Toluene-d8	102			70-130 %		"	"	"	"	"	"
17060-07-0	1,2-Dichloroethane-d4	116			70-130 %		"	"	"	"	"	"
1868-53-7	Dibromofluoromethane	108			70-130 %		"	"	"	"	"	"

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* Reportable Detection Limit

BRL = Below Reporting Limit

Page 5 of 10

Sample Identification

Trip	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB19427-07	1018	Trip	08-Oct-10 07:00	12-Oct-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 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/C	18-Oct-10	18-Oct-10	JLG	1021653	
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	102			70-130 %		"	"	"	"	"	"
2037-26-5	Toluene-d8	102			70-130 %		"	"	"	"	"	"
17060-07-0	1,2-Dichloroethane-d4	110			70-130 %		"	"	"	"	"	"
1868-53-7	Dibromofluoromethane	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 1021653 - SW846 5030 Water MS										
<u>Blank (1021653-BLK1)</u>					<u>Prepared & Analyzed: 18-Oct-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>	49.9		µg/l		50.0		100	70-130		
<i>Surrogate: Toluene-d8</i>	50.0		µg/l		50.0		100	70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	53.0		µg/l		50.0		106	70-130		
<i>Surrogate: Dibromofluoromethane</i>	53.3		µg/l		50.0		107	70-130		
<u>LCS (1021653-BS1)</u>					<u>Prepared & Analyzed: 18-Oct-10</u>					
Benzene	18.5		µg/l		20.0		92	70-130		
1,2-Dibromoethane (EDB)	20.8		µg/l		20.0		104	70-130		
1,2-Dichloroethane	19.1		µg/l		20.0		95	70-130		
Ethylbenzene	19.6		µg/l		20.0		98	70-130		
Methyl tert-butyl ether	20.1		µg/l		20.0		100	70-130		
Naphthalene	22.9		µg/l		20.0		114	70-130		
Toluene	17.9		µg/l		20.0		89	70-130		
1,2,4-Trimethylbenzene	20.6		µg/l		20.0		103	70-130		
1,3,5-Trimethylbenzene	20.9		µg/l		20.0		105	70-130		
m,p-Xylene	39.9		µg/l		40.0		100	70-130		
o-Xylene	20.0		µg/l		20.0		100	70-130		
<i>Surrogate: 4-Bromofluorobenzene</i>	49.9		µg/l		50.0		100	70-130		
<i>Surrogate: Toluene-d8</i>	49.6		µg/l		50.0		99	70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	51.7		µg/l		50.0		103	70-130		
<i>Surrogate: Dibromofluoromethane</i>	52.0		µg/l		50.0		104	70-130		
<u>LCS Dup (1021653-BSD1)</u>					<u>Prepared & Analyzed: 18-Oct-10</u>					
Benzene	17.4		µg/l		20.0		87	70-130	6	30
1,2-Dibromoethane (EDB)	20.3		µg/l		20.0		102	70-130	2	25
1,2-Dichloroethane	18.1		µg/l		20.0		91	70-130	5	25
Ethylbenzene	18.8		µg/l		20.0		94	70-130	5	30
Methyl tert-butyl ether	19.2		µg/l		20.0		96	70-130	5	30
Naphthalene	21.5		µg/l		20.0		107	70-130	6	30
Toluene	17.4		µg/l		20.0		87	70-130	3	30
1,2,4-Trimethylbenzene	20.4		µg/l		20.0		102	70-130	1	30
1,3,5-Trimethylbenzene	20.5		µg/l		20.0		103	70-130	2	30
m,p-Xylene	38.3		µg/l		40.0		96	70-130	4	30
o-Xylene	20.1		µg/l		20.0		101	70-130	0.4	30
<i>Surrogate: 4-Bromofluorobenzene</i>	51.0		µg/l		50.0		102	70-130		
<i>Surrogate: Toluene-d8</i>	50.2		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>	51.5		µg/l		50.0		103	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 1021653 - SW846 5030 Water MS										
<u>Matrix Spike (1021653-MS1)</u>			<u>Source: SB19427-01</u>			<u>Prepared & Analyzed: 18-Oct-10</u>				
Benzene	17.7		µg/l		20.0	0.6	85	70-130		
Chlorobenzene	20.0		µg/l		20.0	BRL	100	70-130		
1,1-Dichloroethene	19.6		µg/l		20.0	BRL	98	70-130		
Toluene	18.5		µg/l		20.0	BRL	93	70-130		
Trichloroethene	20.4		µg/l		20.0	BRL	102	70-130		
<i>Surrogate: 4-Bromofluorobenzene</i>	51.6		µg/l		50.0		103	70-130		
<i>Surrogate: Toluene-d8</i>	49.8		µg/l		50.0		100	70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	52.1		µg/l		50.0		104	70-130		
<i>Surrogate: Dibromofluoromethane</i>	51.6		µg/l		50.0		103	70-130		
<u>Matrix Spike Dup (1021653-MSD1)</u>			<u>Source: SB19427-01</u>			<u>Prepared & Analyzed: 18-Oct-10</u>				
Benzene	17.6		µg/l		20.0	0.6	85	70-130	0.4	30
Chlorobenzene	19.8		µg/l		20.0	BRL	99	70-130	0.9	30
1,1-Dichloroethene	19.4		µg/l		20.0	BRL	97	70-130	1	30
Toluene	18.7		µg/l		20.0	BRL	94	70-130	1	30
Trichloroethene	20.7		µg/l		20.0	BRL	103	70-130	1	30
<i>Surrogate: 4-Bromofluorobenzene</i>	50.1		µg/l		50.0		100	70-130		
<i>Surrogate: Toluene-d8</i>	50.6		µg/l		50.0		101	70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	54.4		µg/l		50.0		109	70-130		
<i>Surrogate: Dibromofluoromethane</i>	53.3		µg/l		50.0		107	70-130		
Batch 1021753 - SW846 5030 Water MS										
<u>Blank (1021753-BLK1)</u>			<u>Prepared & Analyzed: 19-Oct-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>	50.4		µg/l		50.0		101	70-130		
<i>Surrogate: Toluene-d8</i>	51.7		µg/l		50.0		103	70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	61.1		µg/l		50.0		122	70-130		
<i>Surrogate: Dibromofluoromethane</i>	56.4		µg/l		50.0		113	70-130		
<u>LCS (1021753-BS1)</u>			<u>Prepared & Analyzed: 19-Oct-10</u>							
Benzene	17.8		µg/l		20.0		89	70-130		
1,2-Dibromoethane (EDB)	21.1		µg/l		20.0		106	70-130		
1,2-Dichloroethane	21.9		µg/l		20.0		110	70-130		
Ethylbenzene	19.2		µg/l		20.0		96	70-130		
Methyl tert-butyl ether	20.0		µg/l		20.0		100	70-130		
Naphthalene	22.1		µg/l		20.0		111	70-130		
Toluene	18.3		µg/l		20.0		92	70-130		
1,2,4-Trimethylbenzene	21.6		µg/l		20.0		108	70-130		
1,3,5-Trimethylbenzene	21.8		µg/l		20.0		109	70-130		
m,p-Xylene	39.0		µg/l		40.0		98	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 1021753 - SW846 5030 Water MS										
<u>LCS (1021753-BS1)</u>					<u>Prepared & Analyzed: 19-Oct-10</u>					
o-Xylene	19.6		µg/l		20.0		98	70-130		
Surrogate: 4-Bromofluorobenzene	52.3		µg/l		50.0		105	70-130		
Surrogate: Toluene-d8	51.8		µg/l		50.0		104	70-130		
Surrogate: 1,2-Dichloroethane-d4	59.7		µg/l		50.0		119	70-130		
Surrogate: Dibromofluoromethane	56.3		µg/l		50.0		113	70-130		
<u>LCS Dup (1021753-BSD1)</u>					<u>Prepared & Analyzed: 19-Oct-10</u>					
Benzene	17.3		µg/l		20.0		87	70-130	3	30
1,2-Dibromoethane (EDB)	21.1		µg/l		20.0		105	70-130	0.1	25
1,2-Dichloroethane	21.8		µg/l		20.0		109	70-130	0.5	25
Ethylbenzene	17.9		µg/l		20.0		89	70-130	7	30
Methyl tert-butyl ether	19.7		µg/l		20.0		98	70-130	2	30
Naphthalene	21.0		µg/l		20.0		105	70-130	5	30
Toluene	17.4		µg/l		20.0		87	70-130	5	30
1,2,4-Trimethylbenzene	19.8		µg/l		20.0		99	70-130	9	30
1,3,5-Trimethylbenzene	20.0		µg/l		20.0		100	70-130	9	30
m,p-Xylene	36.2		µg/l		40.0		90	70-130	8	30
o-Xylene	19.2		µg/l		20.0		96	70-130	2	30
Surrogate: 4-Bromofluorobenzene	50.6		µg/l		50.0		101	70-130		
Surrogate: Toluene-d8	51.0		µg/l		50.0		102	70-130		
Surrogate: 1,2-Dichloroethane-d4	58.2		µg/l		50.0		116	70-130		
Surrogate: Dibromofluoromethane	55.4		µg/l		50.0		111	70-130		
<u>Matrix Spike (1021753-MS1)</u>					<u>Source: SB19427-05</u>		<u>Prepared & Analyzed: 19-Oct-10</u>			
Benzene	16.7		µg/l		20.0	BRL	84	70-130		
Chlorobenzene	20.9		µg/l		20.0	BRL	104	70-130		
1,1-Dichloroethene	20.7		µg/l		20.0	BRL	104	70-130		
Toluene	19.3		µg/l		20.0	1.8	87	70-130		
Trichloroethene	21.3		µg/l		20.0	BRL	106	70-130		
Surrogate: 4-Bromofluorobenzene	51.5		µg/l		50.0		103	70-130		
Surrogate: Toluene-d8	50.9		µg/l		50.0		102	70-130		
Surrogate: 1,2-Dichloroethane-d4	57.9		µg/l		50.0		116	70-130		
Surrogate: Dibromofluoromethane	55.2		µg/l		50.0		110	70-130		
<u>Matrix Spike Dup (1021753-MSD1)</u>					<u>Source: SB19427-05</u>		<u>Prepared & Analyzed: 19-Oct-10</u>			
Benzene	17.2		µg/l		20.0	BRL	86	70-130	3	30
Chlorobenzene	19.9		µg/l		20.0	BRL	99	70-130	5	30
1,1-Dichloroethene	19.8		µg/l		20.0	BRL	99	70-130	4	30
Toluene	19.9		µg/l		20.0	1.8	90	70-130	4	30
Trichloroethene	21.0		µg/l		20.0	BRL	105	70-130	1	30
Surrogate: 4-Bromofluorobenzene	51.1		µg/l		50.0		102	70-130		
Surrogate: Toluene-d8	51.5		µg/l		50.0		103	70-130		
Surrogate: 1,2-Dichloroethane-d4	59.2		µg/l		50.0		118	70-130		
Surrogate: Dibromofluoromethane	56.1		µg/l		50.0		112	70-130		

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* Reportable Detection Limit

BRL = Below Reporting Limit

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.
Rebecca Merz



SPECTRUM ANALYTICAL, INC.
Framingham
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

SB 19427 B7

Report To: DBENVIRONMENTAL CONSULTING

Invoice To: DBENVIRONMENTAL CONSULTING

Project No.: 1018

Site Name: SAXTONS RIVER SUNOCO

Location: SAXTONS RIVER State: VT

Sampler(s): DAVID BALK

Telephone #: 1-802-258-0350

Project Mgr: DAVID BALK

P.O. No.:

RON: Decoupled

1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid 7=CH₃OH 11=

8=NaHSO₄ 9=4°C ICE

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	Containers:				List preservative code below:	Analyses:	QA/QC Reporting Notes (check as needed)
						# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic			
1942701	AR-2	10/8/10	1:30	G	GW	3				29	VT VOC SCAN	
	02 AR-3		1:45									
	03 AR-8		2:00									
	04 AR-10		2:15									
	05 AR-11		2:30									
	06 RW-1		2:45									
	07 TRIP		7:00		X ₁							

Relinquished by: David Balk

Received by: David Balk

Date: 10/10/10 Time: 1:47 Temp °C: 218

Ambient Iced Refrigerated Fridge temp Freezer temp
 EDD Format _____
 E-mail to _____

Provide MA DEP MCP CAM R
 Provide CT DPH RCP Report
 QA/QC Reporting Level
 Standard No QC
 Other _____
 State specific reporting standard