

January 22, 2004



Ms. Lynda Provencher
Vermont Department of Environmental Conservation
Waste Management Division
West Office Building, 103 South Main Street
Waterbury, Vermont 05671-0404

RE: Former Passumpsic Village Store, Barnet, Vermont
VDEC Site #2002-3023
Quarterly Site Status Report - November 2003

Dear Ms. Provencher:

On behalf of the Barnet Select Board, Lincoln Applied Geology, Inc. (LAG) has compiled this letter report detailing quarterly monitoring and water quality sampling performed on November 17, 2003, at the above referenced Site located on Route 5 in the Village of Passumpsic, Barnet, Vermont.

Review of the November 2003 water quality results indicates that various petroleum constituents continue to exceed the Vermont Department of Environmental Conservation (VDEC), Ground Water Quality Enforcement Standards (GQES) in MW-2, MW-3, MW-4, MW-7 and MW-10. The gasoline additive Methyl t-Butyl Ether (MtBE) was also detected in MW-8 at a level of 6.3 parts per billion (ppb) and in the Marston Water Supply Well at 2.3 ppb. The Marston Well was also sampled on December 30, 2003. The December sample was inadvertently analyzed via EPA Method 8021B instead of EPA 524.2. Therefore, the detection limit for MtBE was only 5 ppb, which is higher than the levels historically reported in the Marston Well. Toluene was reported above laboratory detection limits in that sample at 3.2 ppb. It is assumed, since toluene has never historically been reported in the well, that the presence of toluene is from a laboratory or sampling error. The Marston's are currently supplied spring water for potable use and monthly sampling of their well is on-going.

Enclosed for your information and use are the following:

- Table 1** Ground Water Elevations;
- Table 2** Photoionization Detector Results;
- Table 3** Ground Water Quality Results;
- Charts 1-4** Contaminant Concentrations and Ground Water Levels
vs. Time for Select Wells;
- Figure 1** Ground Water Elevation Contours and

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Water Quality Summary Map for November 17, 2003;
Appendix A Water Quality Laboratory Reports for November 17, 2003;
Appendix B Water Supply Laboratory Report for December 30, 2003;

Ground Water Elevations

On November 17, 2003, ground water level measurements from the twelve monitor wells were obtained using an electronic interface probe capable of measuring 0.01 feet of free-floating petroleum product. The data collected is summarized on **Table 1**. No free-floating petroleum product has been detected to date in any well on-Site.

The depth to ground water ranged between 3.04 feet (MW-1) and 24.16 feet (MW-12) below ground surface (bgs) across the Site. The ground water elevation data collected on November 17th was used to develop a Ground Water Elevation Contour Map (**Figure 1**) of the shallow ground water system. Review of **Figure 1** shows that ground water flows across the Site in a southerly direction toward the Passumpsic River along a varied gradient. Between MW-1 and MW-4 and also between MW-2 and MW-11, a moderate gradient of 0.1 feet/foot is observed. However, between MW-3 and MW-2, which crosses Route 5, the gradient increases to 0.25 feet/foot.

Well Headspace Monitoring

An attempt to utilize a 10.0 eV PID to screen the headspace gases of each of the monitoring wells, the four storm sewers and the storm sewer outfall for volatile organic compounds (VOCs) was made. However during calibration the PID was determined to be inoperable, therefore historic PID data is summarized on **Table 2**, however there is no data from the November 17, 2003 monitoring event. It is assumed the MW-2 and MW-3, within and directly downgradient of the source area continue to contain significant levels of vapor phase contamination.

Ground Water Quality Results

On November 17, 2004, water quality samples were collected from all monitoring wells and two surface water samples from the Passumpsic River. All monitoring wells were properly purged with either a peristaltic pump and disposable tubing or bailer (due to the deep ground water table MW-2 and MW-12). After the water level in the wells was allowed to recover, samples were collected using disposable polyethylene bailers. The collected samples were stored and delivered on ice, to Endyne, Inc. in Williston, Vermont. All wells and a trip blank were analyzed via EPA Method 8021B for petroleum compounds. The water quality results are summarized on **Table 3** and are presented

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on the Water Quality Summary Map included as **Figure 1**. Copies of the laboratory reports are also included as **Appendix A**.

Review of **Table 3**, **Figure 1**, and **Appendix A** indicate that elevated concentrations of petroleum contaminants were present in six of the twelve monitoring wells. There does not appear to be a significant change in BTEX (benzene, toluene, ethyl benzene and total xylenes) concentrations across the Site. Vermont Ground Water Quality Enforcement Standards (GQES) were exceeded in MW-2, MW-3, MW-4, MW-7 and MW-10.

MtBE was not detected above laboratory detection limits in any well on-Site. MW-1, which reported an elevated level of MtBE [49.5 parts per billion (ppb)] in May 2003, continues to report non-detect with a laboratory detection limit of 5 ppb for the second consecutive sampling round. MW-8, which reported 3.2 ppb MtBE in May 2003, and <5 ppb in August 2003, reported a trace amount (6.3 ppb) in November.

The Ground Water Elevation Contour and Water Quality Summary Map (**Figure 1**) suggests that the plume of dissolved phase contamination originates from the former Passumpsic Village Store (PVS) dispenser island area. The downgradient extent of the plume is not fully delineated by the current monitoring well array. However, previous sediment samples from the bank of the Passumpsic River and current stream samples report no levels of petroleum compounds above laboratory method detection limits.

Water Supply Sampling Results

The Marston Well, located approximately 350' to the north of the Site was sampled during the November 2003 event and again on December 30, 2003 using industry accepted methods. The November sample was transferred on ice to Endyne, Inc. in Williston, Vermont to be analyzed via EPA Method 524.2. The December sample was inadvertently analyzed via EPA Method 8021B at Green Mountain Laboratories, Inc. in Middlesex, Vermont. Therefore, the December laboratory detection limit for MtBE was not greater than low MtBE levels historically reported from the well.

The supply well reported a level of MtBE (2.3 ppb) in November. The November level is similar to those previously reported (May - 2.2 and July - 2.0). The December sample reported an elevated level of toluene at 3.2 ppb. Since this compound has never been reported in the Marston's Supply Well, LAG is assuming the presence of toluene is attributable to sampling or laboratory error. The Marston's are currently supplied bottled spring water for potable use from the VDEC. Monthly sampling of the Marston Supply Well is on-going.

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No significant concentrations of MtBE have been associated with the identified on-Site gasoline plume. However, trace amounts of MtBE have been reported in several samples intermittently over the past year. The source of MtBE is still unknown.

Conclusions and Recommendations

Three full rounds of water quality data have been collected at this Site over the past year. LAG believes that the relatively low levels of dissolved phase hydrocarbon contamination downgradient of the Site will continue to decrease over time in response to natural attenuation processes.

Based on the data collected, we recommend continuing with the established quarterly Site monitoring until one full year of water quality and elevation data (February 2004) is collected. If vadose zone contamination within MW-3 and MW-2 continues to be significantly elevated, a Soil Vapor Extraction pilot test should be performed. The next quarterly Site visit is scheduled for February.

If you have any questions or concerns with regard to any of the information provided, please do not hesitate to contact me or Steven LaRosa, Chief of Operations, at (802) 453-4384.

Sincerely,
Lincoln Applied Geology, Inc.



Tami Wuestenberg
Environmental Scientist

TW/kg
Enclosures

cc: Barnet Select Board

F:\CLIENTS\SITES\Passumpsic\WP\November2003QuarterlyUpdate.wpd

Ground Water Elevation/Product Level (feet)

Data Point	TOC	2/4/2003	5/22/2003	8/22/2003	11/17/2003
MW-1	100.00	95.35	97.29	96.81	96.96
MW-2	95.74	69.84	72.88	72.88	73.58
MW-3	98.37	91.32	92.30	91.98	92.04
MW-4	98.37	93.75	94.90	94.42	94.51
MW-5	98.29	90.26	91.39	91.05	91.16
MW-6	98.47	90.24	91.78	91.58	91.75
MW-7	79.50		66.00	65.34	66.98
MW-8	80.96		62.81	62.13	63.21
MW-9	92.20		84.48	84.66	84.52
MW-10	77.44		63.09	62.06	63.54
MW-11	77.53		61.37	60.25	61.67
MW-12	96.32		71.92	71.71	72.16

Notes:

- 1 - Elevation datum assumed
- 2 - Reference elevation is elevation of top of PVC well casing
- Light Grey Cell = DRY
- Dark Grey Cell = Inaccessible

**Photoionization Detector Results
(PID) in ppm**

Data Point	2/4/2003	5/22/2003	8/22/2003
MW-1	3.4	BG	BG
MW-2	197	121	227.7
MW-3	659	503	35.7
MW-4	7.8	0.5	BG
MW-5	101	36	2.2
MW-6	470	7.0	1.3
MW-7		99	0.3
MW-8		0.4	BG
MW-9		BG	BG
MW-10		35	0.7
MW-11		1.0	BG
MW-12		0.9	0.1
SS-1	BG	BG	BG
SS-2	BG	BG	BG
SS-3	BG	BG	BG
SS-4		BG	BG
SS-Outlet		BG	BG

Notes:
ppm-parts per million

Ground Water Quality Results (ppb)

Data Point	Compound	*GQES	02/05/03	05/06/03	05/22/03	07/30/03	08/22/03	11/17/03	12/30/03
MW-1	Benzene	5	<2		<1		<1	<1	
	Toluene	1,000	<2		<1		<1	<1	
	Ethylbenzene	700	<2		<1		<1	<1	
	Xylenes	10,000	<6		<2		<3	<2	
	1,3,5-Trimethylbenzene	4	<2		<1		<2	<1	
	1,2,4-Trimethylbenzene	5	<2		<1		<2	<1	
	Naphthalene	20	<5		<2		<5	<1	
	MTBE	40	<5		49.5		<5	<2	
BTEX		<12		<5		<6	<5		
MW-2	Benzene	5	38		87		72	102	
	Toluene	1,000	640		877		460	585	
	Ethylbenzene	700	240		343		200	123	
	Xylenes	10,000	970		1,540		930	1,870	
	1,3,5-Trimethylbenzene	4	44		131		61	227	
	1,2,4-Trimethylbenzene	5	170		438		280	627	
	Naphthalene	20	<50		57.3		35	73.2	
	MTBE	40	<50		<10		<25	<20	
BTEX		1,888		2,847		1,662	2,680		
MW-3	Benzene	5	<20		<5		<2	8	
	Toluene	1,000	51		23.4		3.4	8	
	Ethylbenzene	700	73		110		61	71.2	
	Xylenes	10,000	510		1100		720	874	
	1,3,5-Trimethylbenzene	4	68		133		80	174	
	1,2,4-Trimethylbenzene	5	270		496		380	458	
	Naphthalene	20	<50		57.8		56	116	
	MTBE	40	<50		<10		<10	<10	
BTEX		654		1238.4		786.4	961.2		
MW-4	Benzene	5	<2		<1		<1	<5	
	Toluene	1,000	<2		<1		2.2	<5	
	Ethylbenzene	700	<2		<1		<1	<5	
	Xylenes	10,000	<6		<2		<3	<10	
	1,3,5-Trimethylbenzene	4	4.5		4.3		<2	<5	
	1,2,4-Trimethylbenzene	5	18		7.1		3.9	6.7	
	Naphthalene	20	13		11.9		8.4	13.2	
	MTBE	40	<5		<2		<5	<10	
BTEX		<12		<5		7.2	<25		
MW-5	Benzene	5	<2		<1		<1	<5	
	Toluene	1,000	<2		<1		<1	<5	
	Ethylbenzene	700	<2		<1		1	<5	
	Xylenes	10,000	<6		2.1		<3	<10	
	1,3,5-Trimethylbenzene	4	<2		<1		<2	<5	
	1,2,4-Trimethylbenzene	5	<2		8.5		3.3	<5	
	Naphthalene	20	<5		6.3		<5	<5	
	MTBE	40	<5		<2		<5	<10	
BTEX		<12		5.1		6	<25		
MW-6	Benzene	5	<2		<1		<1	<5	
	Toluene	1,000	<2		<1		<1	<5	
	Ethylbenzene	700	<2		<1		<1	<5	
	Xylenes	10,000	7.5		<2		3.7	<10	
	1,3,5-Trimethylbenzene	4	4.9		<1		<2	<5	
	1,2,4-Trimethylbenzene	5	52		2.1		5.7	<5	
	Naphthalene	20	81		2.2		8.4	<5	
	MTBE	40	<5		<2		<5	<10	
BTEX		13.5		<5		6.7	<25		
MW-7	Benzene	5			37		41	70.6	
	Toluene	1,000			20.2		12	11.9	
	Ethylbenzene	700			373		260	121	
	Xylenes	10,000			787		610	225	
	1,3,5-Trimethylbenzene	4			484		260	133	
	1,2,4-Trimethylbenzene	5			1,540		990	473	
	Naphthalene	20			157		99	111	
	MTBE	40			<40		<50	<20	
BTEX				1217.2		923	428.5		
MW-8	Benzene	5			<1		<1	<1	
	Toluene	1,000			<1		<1	<1	
	Ethylbenzene	700			<1		<1	<1	
	Xylenes	10,000			<2		<3	<2	
	1,3,5-Trimethylbenzene	4			<1		<2	<1	
	1,2,4-Trimethylbenzene	5			<1		<2	<1	
	Naphthalene	20			<2		<5	<1	
	MTBE	40			3.2		<5	6.3	
BTEX				<5		<6	<5		

NOTES:
 GQES-Vermont Ground Water Quality Enforcement Standards
 Bold/Italic-Above GQES limit
 < - Contaminant not detected at specified detection limit
 Light grey-dry or otherwise not sampled

Ground Water Quality Results (ppb)

Data Point	Compound	*GQES	02/05/03	05/06/03	05/22/03	07/30/03	08/22/03	11/17/03	12/30/03
MW-9	Benzene	5			<1		<1	<1	
	Toluene	1,000			<1		<1	<1	
	Ethylbenzene	700			<1		<1	<1	
	Xylenes	10,000			<2		<3	<2	
	1,3,5-Trimethylbenzene	4			<1		<2	<1	
	1,2,4-Trimethylbenzene	5			<1		<2	<1	
	Naphthalene	20			<2		<5	<1	
	MTBE	40			<2		<5	<2	
	BTEX				<5		<6	<5	
MW-10	Benzene	5			<5		<1	<5	
	Toluene	1,000			<5		<1	<5	
	Ethylbenzene	700			76		1.7	17.2	
	Xylenes	10,000			262		6.8	129	
	1,3,5-Trimethylbenzene	4			261		4.5	290	
	1,2,4-Trimethylbenzene	5			571		8	569	
	Naphthalene	20			37.6		<5	32.5	
	MTBE	40			<10		<5	<10	
	BTEX				348		10.5	156.2	
MW-11	Benzene	5			<1		<1	<1	
	Toluene	1,000			<1		<1	<1	
	Ethylbenzene	700			<1		<1	<1	
	Xylenes	10,000			<2		<3	<2	
	1,3,5-Trimethylbenzene	4			<1		<2	<1	
	1,2,4-Trimethylbenzene	5			<1		<2	<1	
	Naphthalene	20			<2		<5	<1	
	MTBE	40			<2		<5	<2	
	BTEX				<5		<6	<5	
MW-12	Benzene	5			<1		<1	<1	
	Toluene	1,000			<1		<1	<1	
	Ethylbenzene	700			<1		<1	<1	
	Xylenes	10,000			<2		<3	<2	
	1,3,5-Trimethylbenzene	4			<1		<2	<1	
	1,2,4-Trimethylbenzene	5			<1		<2	<1	
	Naphthalene	20			<2		<5	<1	
	MTBE	40			<2		<5	<2	
	BTEX				<5		<6	<5	
Marston Well	Benzene	5		<0.5		<0.5		<0.5	<1
	Toluene	1,000		<0.5		<0.5		<0.5	3.2
	Ethylbenzene	700		<0.5		<0.5		<0.5	<1
	Xylenes	10,000		<1		<1		<1	<3
	1,3,5-Trimethylbenzene	4		<0.5		<0.5		<0.5	<2
	1,2,4-Trimethylbenzene	5		<0.5		<0.5		<0.5	<2
	Naphthalene	20		<1		<1		<1	<5
	MTBE	40		2.2		2		2.3	<5
	BTEX			<2.5		<2.5		<2.5	8.2
Barrett Well	Benzene	5		<0.5					
	Toluene	1,000		<0.5					
	Ethylbenzene	700		<0.5					
	Xylenes	10,000		<1					
	1,3,5-Trimethylbenzene	4		<0.5					
	1,2,4-Trimethylbenzene	5		<0.5					
	Naphthalene	20		<1					
	MTBE	40		<1					
	BTEX			<2.5					
LaRocque Well	Benzene	5		<0.5					
	Toluene	1,000		<0.5					
	Ethylbenzene	700		<0.5					
	Xylenes	10,000		<1					
	1,3,5-Trimethylbenzene	4		<0.5					
	1,2,4-Trimethylbenzene	5		<0.5					
	Naphthalene	20		<1					
	MTBE	40		<1					
	BTEX			<2.5					
SW-1	Benzene	5			<1			<1	
	Toluene	1,000			<1			<1	
	Ethylbenzene	700			<1			<1	
	Xylenes	10,000			<2			<2	
	1,3,5-Trimethylbenzene	4			<1			<1	
	1,2,4-Trimethylbenzene	5			<1			<1	
	Naphthalene	20			<2			<2	
	MTBE	40			<2			<2	
	BTEX				<5			<5	

NOTES:
 GQES-Vermont Ground Water Quality Enforcement Standards
 Bold/Italic-Above GQES limit
 < - Contaminant not detected at specified detection limit
 Light grey-dry or otherwise not sampled

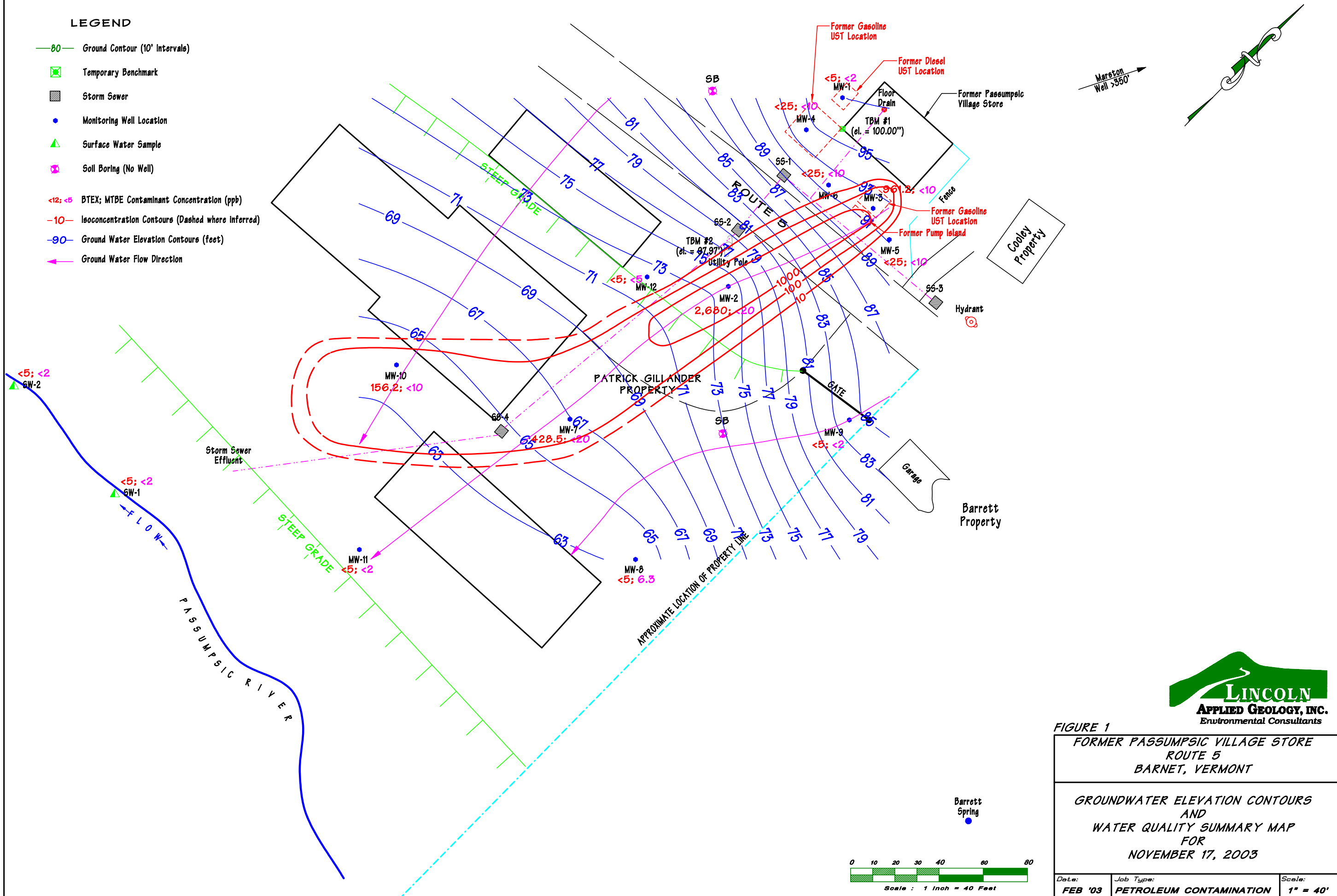
Ground Water Quality Results (ppb)

Data Point	Compound	*GQES	02/05/03	05/06/03	05/22/03	07/30/03	08/22/03	11/17/03	12/30/03
SW-2	Benzene	5							<1
	Toluene	1,000							<1
	Ethylbenzene	700							<1
	Xylenes	10,000							<2
	1,3,5-Trimethylbenzene	4							<1
	1,2,4-Trimethylbenzene	5							<1
	Naphthalene	20							<2
	MTBE	40							<2
BTEX							<5		
Bergeron Well	Benzene	5				<0.5			
	Toluene	1,000				<0.5			
	Ethylbenzene	700				<0.5			
	Xylenes	10,000				<1			
	1,3,5-Trimethylbenzene	4				<0.5			
	1,2,4-Trimethylbenzene	5				<0.5			
	Naphthalene	20				<1			
	MTBE	40				<1			
BTEX					<2.5				
Trip Blank	Benzene	5	<2		<1		<1	<1	<1
	Toluene	1,000	<2		<1		<1	<1	<1
	Ethylbenzene	700	<2		<1		<1	<1	<1
	Xylenes	10,000	<6		<2		<3	<2	<2
	1,3,5-Trimethylbenzene	4	<2		<1		<2	<1	<1
	1,2,4-Trimethylbenzene	5	<2		<1		<2	<1	<1
	Naphthalene	20	<5		<2		<5	<1	<1
	MTBE	40	<5		<2		<5	<2	<2
BTEX		<12		<5		<6	<5		

NOTES:
 GQES-Vermont Ground Water Quality Enforcement Standards
 Bold/Italic-Above GQES limit
 < - Contaminant not detected at specified detection limit
 Light grey-dry or otherwise not sampled

LEGEND

- Ground Contour (10' Intervals)
- Temporary Benchmark
- Storm Sewer
- Monitoring Well Location
- Surface Water Sample
- Soil Boring (No Well)
- <12; <5 BTEX; MTBE Contaminant Concentration (ppb)
- 10- Isoconcentration Contours (Dashed where Inferred)
- 90 Ground Water Elevation Contours (feet)
- Ground Water Flow Direction

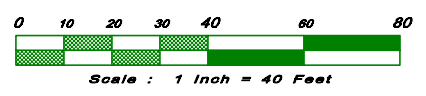


Mareton Well +550'



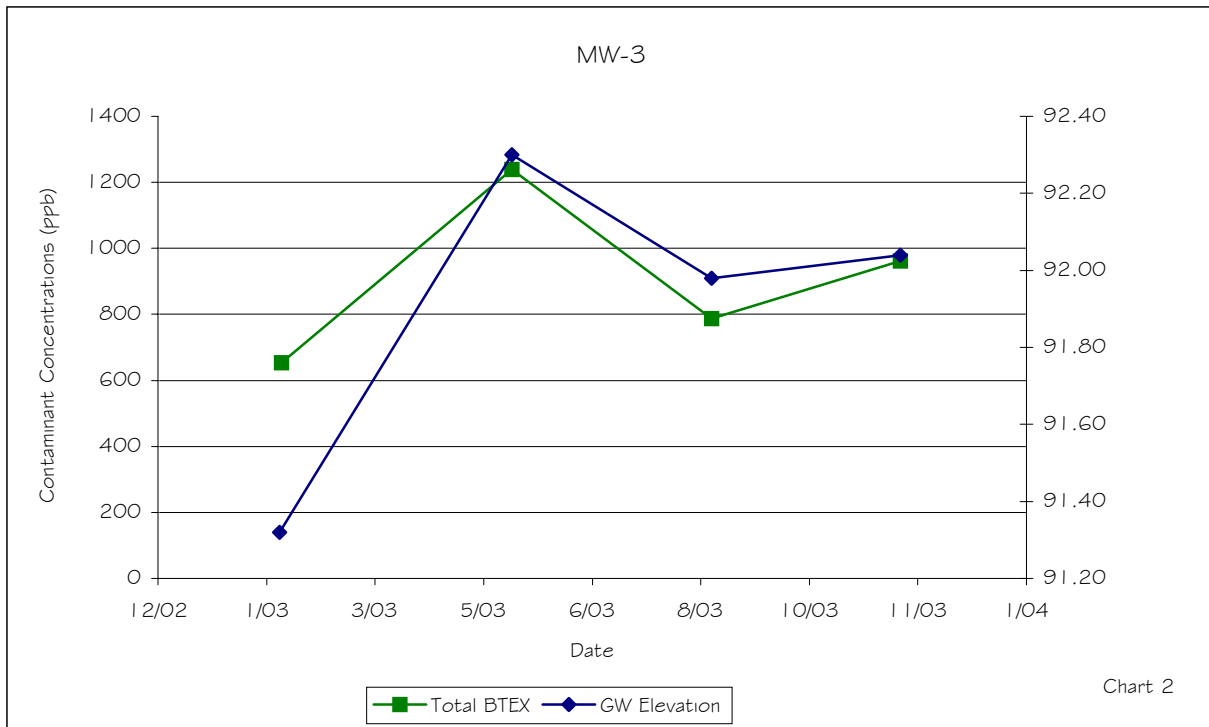
FIGURE 1
FORMER PASSUMPSIC VILLAGE STORE
ROUTE 5
BARNET, VERMONT

GROUNDWATER ELEVATION CONTOURS
AND
WATER QUALITY SUMMARY MAP
FOR
NOVEMBER 17, 2003

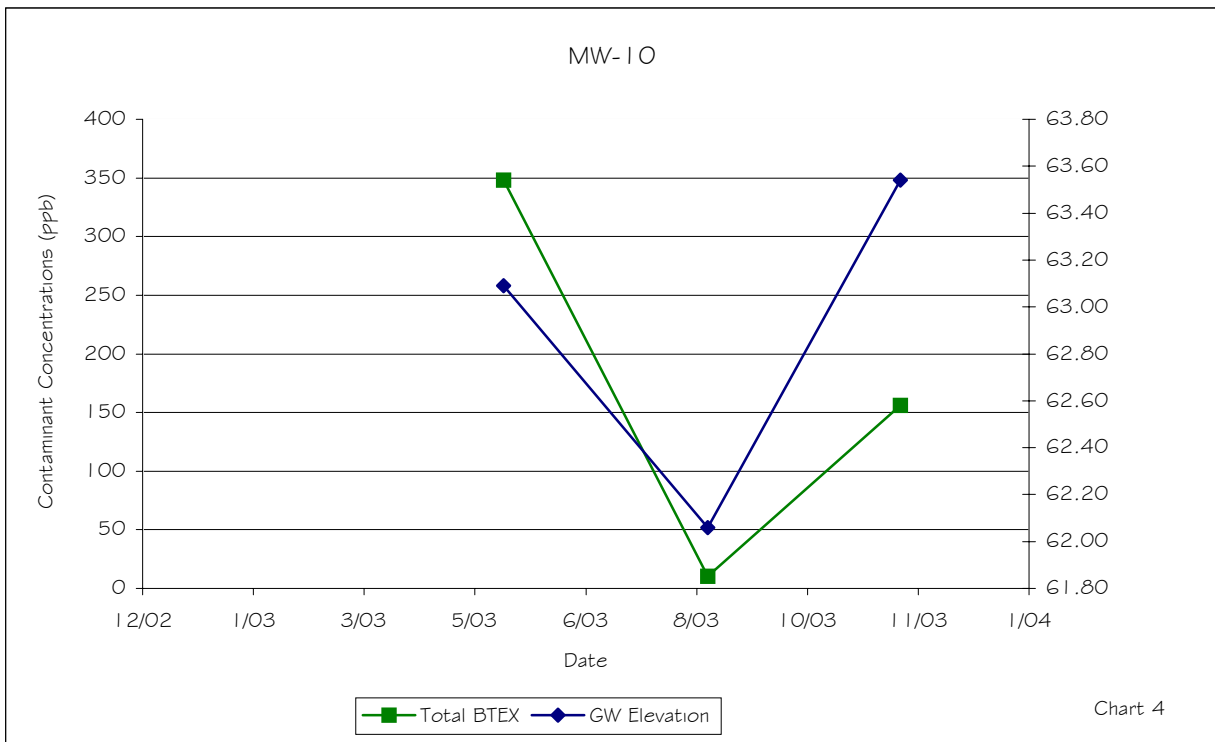
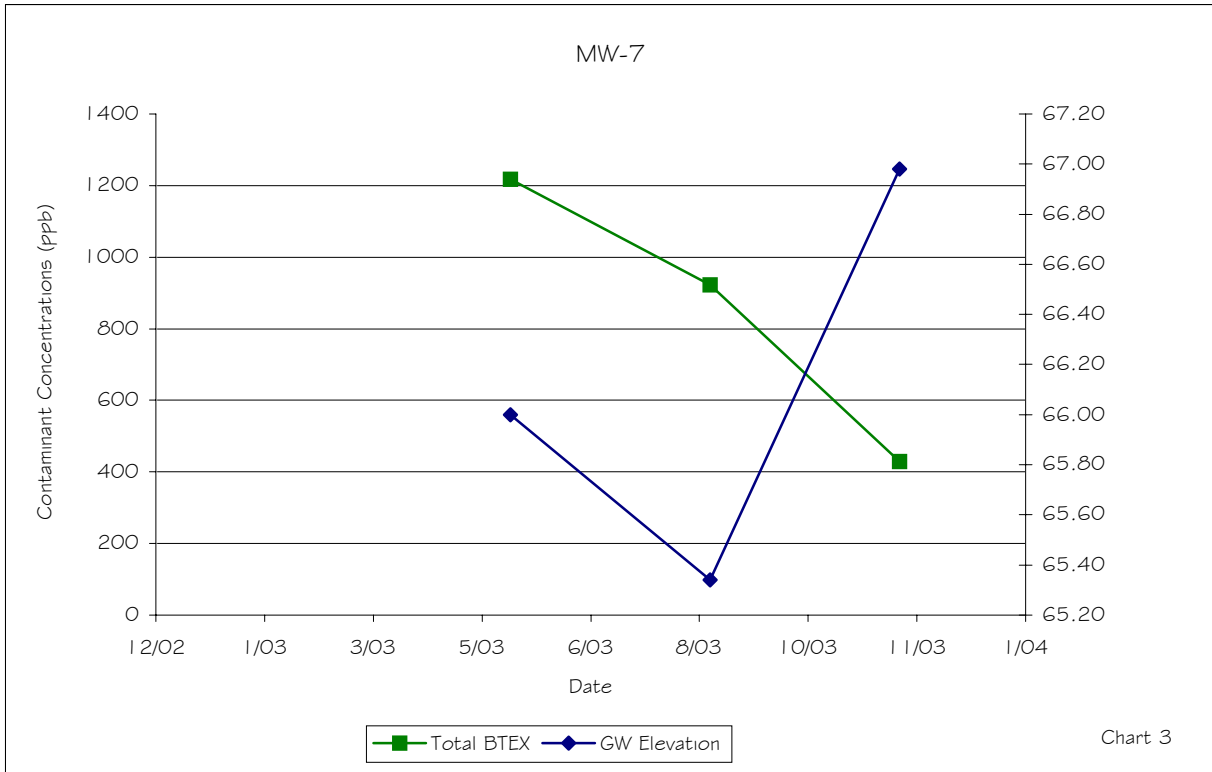


Date:	Job Type:	Scale:
FEB '03	PETROLEUM CONTAMINATION	1" = 40'

Contaminant Concentrations and Ground Water Levels vs. Time for Select Wells



Contaminant Concentrations and Ground Water Levels vs. Time for Select Wells



**Contaminant Concentrations and Ground Water Levels
vs. Time for Select Wells**

Chart 1

Chart 2

**Contaminant Concentrations and Ground Water Levels
vs. Time for Select Wells**

rt 3

art 4

Appendix A

Ground Water and Surface Water
Laboratory Reports
for
November 17, 2003



LABORATORY REPORT

Lincoln Applied Geology
163 Revell Drive
Lincoln, VT 05443
Attn: Tami Weustenberg

PROJECT: Passumpsic Village Store
ORDER ID: 26422
RECEIVE DATE: November 17, 2003
REPORT DATE: December 4, 2003

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. Different groups of analyses may be reported under separate cover.

All samples were prepared and analyzed by requirements outlined in the referenced methods and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced methods.

Blank contamination was not observed at levels affecting the analytical results.

Analytical method precision and accuracy was monitored by laboratory control standards which include matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits, unless otherwise noted.

Reviewed by,

Harry B. Locker, Ph.D.
Laboratory Director

enclosures

ENTERED

RECEIVED
DEC 10 2003





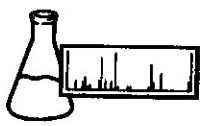
LABORATORY REPORT

CLIENT: Lincoln Applied Geology
PROJECT: Passumpsic Village Store
DATE RECEIVED: November 17, 2003
REPORT DATE: December 4, 2003

ORDER ID: 26422
ANAL. METHOD: SW 8021B
SAMPLER: EE
ANALYST: 420

Site: Trip Blank	Site: MW-3	Site: MW-6			
Ref. Number: 221625	Ref. Number: 221628	Ref. Number: 221631			
Date Sampled: 11/17/03	Date Sampled: 11/17/03	Date Sampled: 11/17/03			
Time Sampled: 9:00 AM	Time Sampled: 12:40 PM	Time Sampled: 1:40 PM			
Analysis Date: 11/26/03	Analysis Date: 12/1/03	Analysis Date: 11/26/03			
Parameter	Results ug/L	Parameter	Results ug/L	Parameter	Results ug/L
MTBE	< 2.0	MTBE	< 10.0	MTBE	< 10.0
Benzene	< 1.0	Benzene	8.0	Benzene	< 5.0
Toluene	< 1.0	Toluene	8.0	Toluene	< 5.0
Ethylbenzene	< 1.0	Ethylbenzene	71.2	Ethylbenzene	< 5.0
Xylenes, Total	< 2.0	Xylenes, Total	874.	Xylenes, Total	< 10.0
1,3,5 Trimethyl Benzene	< 1.0	1,3,5 Trimethyl Benzene	174.	1,3,5 Trimethyl Benzene	< 5.0
1,2,4 Trimethyl Benzene	< 1.0	1,2,4 Trimethyl Benzene	458.	1,2,4 Trimethyl Benzene	< 5.0
Naphthalene	< 1.0	Naphthalene	116.	Naphthalene	< 5.0
UIP's	0.	UIP's	> 10.	UIP's	> 10.
Surrogate 1	107.%	Surrogate 1	113.%	Surrogate 1	114.%
Site: MW-1	Site: MW-4	Site: MW-7			
Ref. Number: 221626	Ref. Number: 221629	Ref. Number: 221632			
Date Sampled: 11/17/03	Date Sampled: 11/17/03	Date Sampled: 11/17/03			
Time Sampled: 12:15 PM	Time Sampled: 12:50 PM	Time Sampled: 1:50 PM			
Analysis Date: 11/26/03	Analysis Date: 11/26/03	Analysis Date: 11/26/03			
Parameter	Results ug/L	Parameter	Results ug/L	Parameter	Results ug/L
MTBE	< 2.0	MTBE	< 10.0	MTBE	< 20.0
Benzene	< 1.0	Benzene	< 5.0	Benzene	70.6
Toluene	< 1.0	Toluene	< 5.0	Toluene	11.9
Ethylbenzene	< 1.0	Ethylbenzene	< 5.0	Ethylbenzene	121.
Xylenes, Total	< 2.0	Xylenes, Total	< 10.0	Xylenes, Total	225.
1,3,5 Trimethyl Benzene	< 1.0	1,3,5 Trimethyl Benzene	< 5.0	1,3,5 Trimethyl Benzene	133.
1,2,4 Trimethyl Benzene	< 1.0	1,2,4 Trimethyl Benzene	6.7	1,2,4 Trimethyl Benzene	473.
Naphthalene	< 1.0	Naphthalene	13.2	Naphthalene	111.
UIP's	0.	UIP's	> 10.	UIP's	> 10.
Surrogate 1	106.%	Surrogate 1	110.%	Surrogate 1	105.%
Site: MW-2	Site: MW-5	Site: MW-8			
Ref. Number: 221627	Ref. Number: 221630	Ref. Number: 221633			
Date Sampled: 11/17/03	Date Sampled: 11/17/03	Date Sampled: 11/17/03			
Time Sampled: 12:30 PM	Time Sampled: 12:55 PM	Time Sampled: 2:00 PM			
Analysis Date: 11/26/03	Analysis Date: 11/26/03	Analysis Date: 11/26/03			
Parameter	Results ug/L	Parameter	Results ug/L	Parameter	Results ug/L
MTBE	< 20.0	MTBE	< 10.0	MTBE	6.3
Benzene	102.	Benzene	< 5.0	Benzene	< 1.0
Toluene	585.	Toluene	< 5.0	Toluene	< 1.0
Ethylbenzene	123.	Ethylbenzene	< 5.0	Ethylbenzene	< 1.0
Xylenes, Total	1,870.	Xylenes, Total	< 10.0	Xylenes, Total	< 2.0
1,3,5 Trimethyl Benzene	227.	1,3,5 Trimethyl Benzene	< 5.0	1,3,5 Trimethyl Benzene	< 1.0
1,2,4 Trimethyl Benzene	627.	1,2,4 Trimethyl Benzene	< 5.0	1,2,4 Trimethyl Benzene	< 1.0
Naphthalene	73.2	Naphthalene	< 5.0	Naphthalene	< 1.0
UIP's	> 10.	UIP's	> 10.	UIP's	0.
Surrogate 1	98.%	Surrogate 1	102.%	Surrogate 1	114.%





LABORATORY REPORT

CLIENT: Lincoln Applied Geology
PROJECT: Passumpsic Village Store
DATE RECEIVED: November 17, 2003
REPORT DATE: December 4, 2003

ORDER ID: 26422
ANAL. METHOD: SW 8021B
SAMPLER: EE
ANALYST: 420

Site: MW-9 Ref. Number: 221634 Date Sampled: 11/17/03 Time Sampled: 1:25 PM Analysis Date: 11/26/03		Site: MW-12 Ref. Number: 221637 Date Sampled: 11/17/03 Time Sampled: 1:00 PM Analysis Date: 11/26/03	
<u>Parameter</u>	<u>Results ug/L</u>	<u>Parameter</u>	<u>Results ug/L</u>
MTBE	< 2.0	MTBE	< 2.0
Benzene	< 1.0	Benzene	< 1.0
Toluene	< 1.0	Toluene	< 1.0
Ethylbenzene	< 1.0	Ethylbenzene	< 1.0
Xylenes, Total	< 2.0	Xylenes, Total	< 2.0
1,3,5 Trimethyl Benzene	< 1.0	1,3,5 Trimethyl Benzene	< 1.0
1,2,4 Trimethyl Benzene	< 1.0	1,2,4 Trimethyl Benzene	< 1.0
Naphthalene	< 1.0	Naphthalene	< 1.0
UIP's	0.	UIP's	0.
Surrogate 1	111.0%	Surrogate 1	114.0%
Site: MW-10 Ref. Number: 221635 Date Sampled: 11/17/03 Time Sampled: 2:10 PM Analysis Date: 11/26/03		Site: SW-1 Ref. Number: 221638 Date Sampled: 11/17/03 Time Sampled: 1:10 PM Analysis Date: 11/26/03	
<u>Parameter</u>	<u>Results ug/L</u>	<u>Parameter</u>	<u>Results ug/L</u>
MTBE	< 10.0	MTBE	< 2.0
Benzene	< 5.0	Benzene	< 1.0
Toluene	< 5.0	Toluene	< 1.0
Ethylbenzene	17.2	Ethylbenzene	< 1.0
Xylenes, Total	129.	Xylenes, Total	< 2.0
1,3,5 Trimethyl Benzene	290.	1,3,5 Trimethyl Benzene	< 1.0
1,2,4 Trimethyl Benzene	569.	1,2,4 Trimethyl Benzene	< 1.0
Naphthalene	32.5	Naphthalene	< 1.0
UIP's	> 10.	UIP's	0.
Surrogate 1	120.0%	Surrogate 1	120.0%
Site: MW-11 Ref. Number: 221636 Date Sampled: 11/17/03 Time Sampled: 2:20 PM Analysis Date: 11/26/03		Site: SW-2 Ref. Number: 221639 Date Sampled: 11/17/03 Time Sampled: 1:15 PM Analysis Date: 11/27/03	
<u>Parameter</u>	<u>Results ug/L</u>	<u>Parameter</u>	<u>Results ug/L</u>
MTBE	< 2.0	MTBE	< 2.0
Benzene	< 1.0	Benzene	< 1.0
Toluene	< 1.0	Toluene	< 1.0
Ethylbenzene	< 1.0	Ethylbenzene	< 1.0
Xylenes, Total	< 2.0	Xylenes, Total	< 2.0
1,3,5 Trimethyl Benzene	< 1.0	1,3,5 Trimethyl Benzene	< 1.0
1,2,4 Trimethyl Benzene	< 1.0	1,2,4 Trimethyl Benzene	< 1.0
Naphthalene	< 1.0	Naphthalene	< 1.0
UIP's	0.	UIP's	0.
Surrogate 1	115.0%	Surrogate 1	117.0%



Special Reporting Instructions:

Project Name: Former Pessumpsic Village Store		Reporting Address: LAG Inc.		Billing Address: LAG Inc.	
Endyne Order ID: (Lab Use Only) 26422		Company: LAG Inc.		Sampler Name: Elvis J. Erwin	
-I		Contact Name: Tami Westenberg		Phone #: 802 453-4584	
-S					

Ref # (Lab Use Only)	Sample Identification	Matrix	G R A B	M P	Date/Time	Sample Containers		Field Results/Remarks	Analysis Required	Sample Preservation	Rush
						No.	Type/Size				
221624	Morston Well	H ₂ O	X		11/17/03-0900	2	40 mL		524.2	HCL	
221625	Trip Blank				0900				19		
221626	MW-1				1215						
221627	MW-2				1230						
221628	MW-3				1240						
221629	MW-4				1250						
221630	MW-5				1255						
221631	MW-6				1340						
221632	MW-7				1350						
221633	MW-8				1400						

Relinquished by: **F. Hansen** Date/Time: **3:15** Received by: **Monica** Date/Time: **11/17/03 3:45**

New York State Project: Yes		No		Requested Analyses	
1	pH	6	TKN	11	Total Solids
2	Chloride	7	Total P	12	TSS
3	Ammonia N	8	Total Diss. P	13	TDS
4	Nitrite N	9	BOD	14	Turbidity
5	Nitrate N	10	Alkalinity	15	Conductivity
31	Metals (As, Total, Diss.) Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Ti, V, Zn				
32	TCLP (Specify: volatiles, semi-volatiles, metals, pesticides, herbicides)				
34	Other				

LAB USE ONLY	Delivery	Temp	Comment
	3.40		

Special Reporting Instructions:

Project Name: Ferner Poussumpsic Village Store		Reporting Address: LAG Inc.		Billing Address: LAG Inc.	
Endyne Order ID: 26422		Company: LAG Inc.		Sampler Name: Elis J. Erwin	
(Lab Use Only)		Contact Name/Phone #: Tami Westenberg		Phone #: 802 453-4384	

Ref # (Lab Use Only)	Sample Identification	Matrix	G K B	C M P	Date/Time	Sample Containers		Field Results/Remarks	Analysis Required	Sample Preservation	Rush
						No.	Type/Size				
221634	MW-9	H ₂ O	X		11/17/03 1325	2	90-L		19	HCL	
221635	MW-10				1410						
221636	MW-11				1420						
221637	MW-12				1300						
221638	SW-1				1310						
221639	SW-2				1315						

Relinquished by: F. Erwin	Date/Time 3:45	Received by: Y. Mucco	Date/Time 11/17/03	Received by:	Date/Time
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New York State Project: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Requested Analyses	
1 pH	6 TKN	11 Total Solids	16 Sulfate
2 Chloride	7 Total P	12 TSS	17 Coliform (Specify)
3 Ammonia N	8 Total Diss. P	13 TDS	18 COD
4 Nitrite N	9 BOD	14 Turbidity	19 8021B
5 Nitrate N	10 Alkalinity	15 Conductivity	20 8010/8020
26 8270 PAH	21 1664 TPH/FOG	22 8015 GRO	23 8015 DRO
27 PP13 Metals	22 8015 GRO	23 8015 DRO	24 8260/8260B
28 RCRA8 Metals	24 8260/8260B	25 8270 B/N or Acid	25 8270 B/N or Acid
29			
30			
31 Metals (As, Pb, Cd, Cu, Cr, Fe, Hg, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Ti, V, Zn)			
32 TCLP (Specify: volatiles, semi-volatiles, metals, pesticides, herbicides)			
33			
34 Other			

LAB USE ONLY	Delivery: 3.4	Temp: 3.4	Comment:
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Appendix B

Water Supply Laboratory Reports
for
November 17, 2003 & December 30, 2003



LABORATORY REPORT

Lincoln Applied Geology
163 Revell Drive
Lincoln, VT 05443
Attn: Tami Weustenberg

PROJECT: Passumpsic Village Store
ORDER ID: 26422
RECEIVE DATE: November 17, 2003
REPORT DATE: November 21, 2003

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. Different groups of analyses may be reported under separate cover.

All samples were prepared and analyzed by requirements outlined in the referenced methods and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced methods.

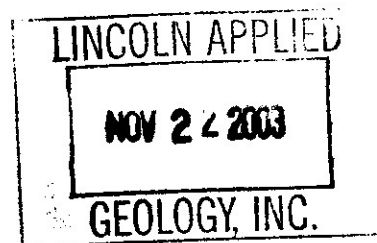
Blank contamination was not observed at levels affecting the analytical results.

Analytical method precision and accuracy was monitored by laboratory control standards which include matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits, unless otherwise noted.

Reviewed by,

Harry B. Locker, Ph.D.
Laboratory Director

enclosures





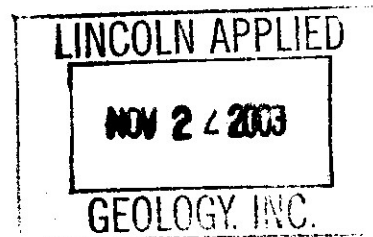
LABORATORY REPORT

EPA 524.2

CLIENT: Lincoln Applied Geology
PROJECT: Passumpsic Village Store
SITE: Marston Well
DATE RECEIVED: November 17, 2003
REPORT DATE: November 21, 2003
ANALYSIS DATE: November 19, 2003

ORDER ID: 26422
REFERENCE NUMBER: 221624
DATE SAMPLED: November 17, 2003
TIME SAMPLED: 9:00 AM
SAMPLER: EE
ANALYST: 725

<u>Parameter</u>	<u>Result</u> <u>ug/L</u>	<u>Parameter</u>	<u>Result</u> <u>ug/L</u>
Benzene	< 0.5	Hexachlorobutadiene	< 0.5
Bromobenzene	< 0.5	Isopropylbenzene	< 0.5
Bromochloromethane	< 0.5	4-Isopropyltoluene	< 0.5
Bromomethane	< 0.5	MTBE	2.3
n-Butylbenzene	< 0.5	Naphthalene	< 1.0
sec-Butylbenzene	< 0.5	n-Propylbenzene	< 0.5
tert-Butylbenzene	< 0.5	Styrene	< 0.5
Carbon tetrachloride	< 0.5	1,1,1,2-Tetrachloroethane	< 0.5
Chlorobenzene	< 0.5	1,1,2,2-Tetrachloroethane	< 1.0
Chloroethane	< 0.5	Tetrachloroethene	< 0.5
Chloromethane	< 0.5	Toluene	< 0.5
4-Chlorotoluene	< 0.5	1,2,3-Trichlorobenzene	< 0.5
2-Chlorotoluene	< 0.5	1,2,4-Trichlorobenzene	< 0.5
Dibromomethane	< 1.0	1,1,1-Trichloroethane	< 0.5
1,2-Dichlorobenzene	< 0.5	1,1,2-Trichloroethane	< 0.5
1,3-Dichlorobenzene	< 0.5	Trichloroethene	< 0.5
1,4-Dichlorobenzene	< 0.5	Trichlorofluoromethane	< 1.0
Dichlorodifluoromethane	< 0.5	1,2,3-Trichloropropane	< 0.5
1,1-Dichloroethane	< 0.5	1,2,4-Trimethylbenzene	< 0.5
1,2-Dichloroethane	< 0.5	1,3,5-Trimethylbenzene	< 0.5
1,1-Dichloroethene	< 0.5	Vinyl Chloride	< 0.5
cis-1,2-Dichloroethene	< 0.5	Xylenes, Total	< 1.0
trans-1,2-Dichloroethene	< 0.5	Bromodichloromethane	< 0.5
Dichloromethane	< 1.0	Bromoform	< 0.5
1,2-Dichloropropane	< 0.5	Chloroform	< 0.5
1,3-Dichloropropane	< 0.5	Dibromochloromethane	< 0.5
2,2-Dichloropropane	< 0.5	Total Trihalomethanes	< 0.5
1,1-Dichloropropene	< 0.5	Surrogate 1	103.%
cis-1,3-Dichloropropene	< 0.5	Surrogate 2	99.%
trans-1,3-Dichloropropene	< 0.5	UIP's	0.
Ethylbenzene	< 0.5		



Special Reporting Instructions:

Project Name: Former Passumpsic Village Store	Reporting Address: LAG Inc.	Billing Address: LAG Inc.
Endyne Order ID: (Lab Use Only) 26422	Company: LAG Inc. Contact Name/Phone#: Tamara Wankenberg	Sampler Name: Elias J. Erwin Phone #: 802 453-4384
2-0 -1 -S		

Ref # (Lab Use Only)	Sample Identification	Matrix	G R A B	O M P	Date/Time	Sample Containers		Field Results/Remarks	Analysis Required	Sample Preservation	Rush
						No.	Type/Size				
221624	Movston Well	H ₂ O	X		11/17/00	2	40 mL		524.2	HCL	
221625	Trip Blank				0900				19		
221626	MW-1				1215						
221627	MW-2				1230						
221628	MW-3				1240						
221629	MW-4				1250						
221630	MW-5				1255						
221631	MW-6				1340						
221632	MW-7				1350						
221633	MW-8				1400						

Relinquished by: F. H. [Signature]	Date/Time: 3:15	Received by: [Signature]	Date/Time: 11/17/00
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New York State Project: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Requested Analyses	
1 pH	6 TKN	11 Total Solids	16 Sulfate
2 Chloride	7 Total P	12 TSS	17 Coliform (Specify)
3 Ammonia N	8 Total Diss. P	13 TDS	18 COD
4 Nitrite N	9 BOD	14 Turbidity	19 8021B
5 Nitrate N	10 Alkalinity	15 Conductivity	20 8010/8020
31 Metals (As, Total, Diss.) Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Ti, V, Zn		21 1664 TPH/FOG	26 8270 PAH
32 TCLP (Specify: volatiles, semi-volatiles, metals, pesticides, herbicides)	33	22 8015 GRO	27 PP13 Metals
34 Other		23 8015 DRO	28 RCRA8 Metals
		24 8260/8260B	29
		25 8270 B/N or Acid	30

LAB USE ONLY

Delivery: [Signature]

Temp: 13.4°C

Commitment: NOV 2 2000

LINCOLN APPL

GEOLOGY INC.

GREEN MOUNTAIN LABORATORIES, INC.

27 Cross Road
Middlesex, Vermont 05602
Phone (802) 262-2004

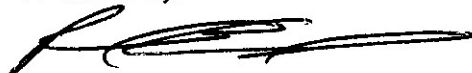
LABORATORY RESULTS

CLIENT NAME:	Lincoln Applied Geology	REFERENCE NO.:	517A
ADDRESS:	163 Revell Drive Lincoln, VT 05443	PROJECT NO.:	NA
SAMPLE LOCATION:	Passumpsic	DATE OF SAMPLE:	12/30/03
SAMPLER:	Joseph Hagan	DATE OF RECEIPT:	12/31/03
ATTENTION:	Tami Wuestenberg	DATE OF ANALYSIS:	01/02/04
		DATE OF REPORT:	01/06/04

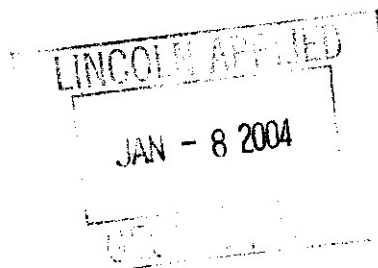
Pertaining to the analyses of specimens submitted under the accompanying chain of custody form, please note the following:

- Water samples submitted for VOC analysis were preserved with HCl.
- Specimens were processed and examined according to the procedures outlined in the specified method.
- Holding times were honored.
- Instruments were appropriately tuned and calibrations were checked with the frequencies required in the specified method.
- Blank contamination was not observed at levels interfering with the analytical results.
- Continuing Calibration standards were monitored at intervals indicated in the specified method. The resulting analytical precision and accuracy were determined to be within method QA/QC acceptance limits.
- The efficiency of analyte recovery for individual samples was monitored by the addition of surrogate analyte to all samples, standards, and blanks. Surrogate recoveries were found to be within laboratory QA/QC acceptance limits, unless noted otherwise.

Reviewed by:



Raul Sanchez
Chemical Services



GREEN MOUNTAIN LABORATORIES, INC.

27 Cross Road
Middlesex, Vermont 05602
Phone (802) 262-2004

LABORATORY RESULTS

GC/MS METHOD - 8260M

GML REF. #: 517A
SAMPLE ID: MARSTON KITCHEN TAP
ANALYSIS DATE: 01/02/2004
SAMPLE DATE: 12/30/2003
SAMPLE TYPE: WATER

<u>PARAMETER</u>	<u>PQL (ug/L)</u>	<u>RESULT (ug/L)</u>
Benzene	1	ND
Toluene	1	3.2
Ethylbenzene	1	ND
1,3,5-Trimethylbenzene	2	ND
1,2,4-Trimethylbenzene	2	ND
Xylenes	3	ND
Naphthalene	5	ND
MTBE	5	ND

Surrogate % Recovery: 99.4 %

ENTERED

ND = Not Detected
BPQL = Below Practical Quantitation Limit

JAN - 8 2004

