



13 May 2011

Mr. Curtis Swan
Union Bank
P.O. Box 26
Fairfax, VT 05458

RE: *Groundwater Sampling Results – April 2011*
Former KMC Auto – Fairfax, Vermont (SMS Site #2007-3731)

Dear Mr. Swan:

Ross Environmental Associates, Inc. (**R.E.A.**) has completed the biennial groundwater monitoring of MW-1 at the Former KMC Auto facility located at the intersection of Routes 104 & 128 in Fairfax, Vermont (**Figure 1 and 2**, Attachment A). This site has an assigned E911 address of 16 Browns River Road. This work was completed as requested in the 29 October 2009 letter from Mr. Gerold Noyes, of the Vermont Department of Environmental Conservation (VT DEC).

Conclusions and Recommendations

Petroleum contamination at the site remains prevalent in the assumed area of the former UST system. Total Volatile Organic Compound (VOC) concentrations in monitoring well MW-1 have increased from 3,282 to 5,298 µg/L since the previous sampling event completed in October 2009. As requested by the VT DEC, the April 2011 sample event was limited to MW-1. No other monitoring wells were sampled. In general, the contaminant concentrations are similar to the concentrations observed in 2008 suggesting that very little biodegradation is occurring at the site.

A summary of investigation and monitoring history was completed under the scope of this report and was utilized to inform the recommendations below.

R.E.A. has discussed the recommendations below with Union Bank. According to Mr. Ken Gibbons at Union Bank, the bank does not have a viable purchaser or tenant for the property at this time. This site is a low priority for the bank. In the event that the status of this site changes **R.E.A.** will contact the VT DEC and discuss monitoring strategies.

Based on available information, including the summarized site history, **R.E.A.** recommends the following:

1. Biannual (every-other year) groundwater sampling and analysis should be completed, with the next sampling event being conducted in April 2013. Monitoring wells MW-1, MW-2 (if still present), MW-3, MW-4, MW-5 and MW-8 should be sampled and analyzed for the possible presence of volatile organic compounds in accordance with U.S. EPA Method 8260.

The full 8260 analysis is recommended due to two detections of tetrachloroethene (one in MW-8 (April 2008) and one in MW-2 (August 2008)). Although subsequent sample events did not indicate the presence of tetrachloroethene, laboratory detection limits for MW-1 were above VGES while other sampling events did not analyze for the compound (8021B).

It is recommended that all active wells be sampled in 2013 because the three previous sample events (including 2011) did not include the full VOC analysis and did not include all active wells.

2. Monitoring wells should be located, marked and repaired/reconditioned prior to the next sampling event.
3. A drinking water supply well sample should be collected from the onsite shared well. The most recent (and only) supply well sample was obtained from the onsite well in August 2008. It is recommended that the supply well sample be obtained prior to the 2013 groundwater sampling event. The supply well sample should be analyzed in accordance with EPA method 524.2.
4. Two public supply wells are located within 1,000 feet of the subject property: New Horizons Children Center (VT0021033) and the Country Pantry (VT0020517) (site located directly east, beyond the roadway). A portion of the subject property falls within Zone 2 of the groundwater Source Protection Area (SPA) for the New Horizons Children Center. As a courtesy, the Horizons Children Center should be notified of the present conditions at the Former KMC Auto facility.
5. Excavation and disposal of contaminated subsurface and stained surface soils should be considered. Removal of the source area soils may be effective in expediting site closure and reducing human exposure. No active sources exist on site, very little biodegradation appears to be occurring on site, and the Former KMC Auto facility is in close proximity to multiple supply wells including the SPA of the New Horizons Children Center.
6. A summary report should be completed following the completion of the next sampling event and should include a summary of significant field observations, appropriate figures depicting groundwater flow and contaminant distribution, and recommendations for future monitoring.

The findings of this groundwater sampling event are summarized below:

- The Vermont Groundwater Enforcement Standards (VGESs) for 1,3,5-trimethylbenzene, 1,2,4-trimethylbenzene and naphthalene were exceeded in the sample collected from MW-1, which is centered in the former UST location.
- Low concentrations, below groundwater standards, of ethylbenzene and total xylenes were detected in the sample collected from MW-1.
- The water table elevation ranged from 93.01 feet (MW-1) to 94.93 feet (MW-3) and groundwater flow direction is assumed to be towards the north/northwest. It should be noted that only two water level measurements were obtained.

Copies of site maps showing approximate monitoring well locations (**Figure 3**), groundwater flow direction (**Figure 4**), contaminant distribution (**Figure 5**) and sensitive receptors (**Figure 6**) are included in Attachment A. Tables summarizing ground-water elevation data (**Table 1**), ground water analytical results (**Table 2**), and field measurement data (**Table 3**) are included in Attachment B. Time-series graphs for water quality data are included in Attachment C, and laboratory analytical reports are included in Attachment D.

Site History

The site is known to have been formally used as an auto repair facility for approximately 40 years prior to the purchase of the property in 2007 by Union Bank. The facility is currently unoccupied. Underground Storage Tanks owned by SB Collins were removed from the site in the early 1980's according to a 16 September 1998 letter from SB Collins to Mr. James Meunier (attached to the 2007 Phase II report). The size, contents and number of tanks present and removed is unknown. These tanks are not listed on the VT DEC UST database listing for Fairfax, Vermont.

A communal supply well utilized by both the Former KMC Auto facility and the adjoining Union Bank branch is located ~90 feet south of the garage building. The specific construction details of this well are unknown; however, earlier reports refer to this as a "spring". The VT DEC online well locator and well database were searched and did not provide details regarding the onsite well. The wastewater system is also

shared between the two sites and is located ~ 200 feet south of the garage. Floor drains present in the garage are reported to discharge subsurface along the western side of the garage (near MW-2).

A **2007 Phase II** investigation revealed subsurface petroleum contamination present on site. Monitoring wells MW-1, MW-2, MW-3 and MW-4 and soil borings SB-1, SB-2 and SB-3 were installed under the scope of the Phase II. Stained soils, a 275-gallon Aboveground Storage Tank (AST) with unknown contents, 55-gallon drum storage areas, and floor drains/subsurface floor drain discharge areas were also identified on the property.

Photoionization Detector (PID) readings collected from subsurface soil samples during the Phase II revealed elevated PID readings (above the VT DEC action level for fuel oil/diesel contaminated soils (10 ppm), and above gasoline contaminated soils (20 ppm)) at SB-1 (0-4' below ground surface (bgs)), SB-2 (8-16' bgs), MW-1 (0-15' bgs) and MW-3 (0-5' bgs) locations. Highest PID readings were detected in the MW-1 soil boring at two feet bgs. Petroleum-related compounds above standards were detected in the groundwater sample obtained from MW-1. No VOCs above laboratory limits were detected in the other wells sampled.

Tetrachloroethene (a chlorinated solvent) was detected in groundwater in sampling events conducted in April/May 2008 (MW-8) and in August 2008 (MW-2). It should be noted that the laboratory detection limit for tetrachloroethene during the 2007 sample event was above the VGES in MW-1 and in the duplicate sample.

Additional investigations dated April/May 2008, August 2008, November 2008, May 2009, October 2009 and April 2011 (this report) were completed under the direction of the VT DEC.

- Five additional monitoring wells (MW- 5, MW-6, MW- 7, MW-8 and MW-9) were installed in **April 2008**. Groundwater sampling initiated under the scope of the April/May 2008 Supplemental Site Investigation revealed petroleum-related compounds (above standards) in MW-1 and a low concentration of tetrachloroethene (a chlorinated solvent) in MW-8. MW- 8 is located in the unpaved parking area, near the northeast corner of the garage building. Wells MW-6, MW-7 and MW-9 were installed offsite to the northeast, east, and west, respectively. No elevated PID readings (above 0.7 ppm) were noted in these soil borings during this sampling event. A Total Petroleum Hydrocarbons-gasoline range organics (TPH GRO) concentration of 46.4 mg/L of analysis was detected in a groundwater sample from MW-1.

It should be noted that the laboratory detection limit for tetrachloroethene during the April 2008 sample event was above the VGES in MW-1.

- The **August 2008** groundwater sampling event included MW-1, MW-2, MW-3, MW-4, MW- 5, MW-6, MW- 7, MW-8 and MW-9. Petroleum-related compounds above standards were documented in MW-1 and a low level of tetrachloroethene was detected in MW-2, which is located near the assumed floor drain discharge location. A sample was obtained from the supply well that serves both the Union Bank branch (adjoining) and the Former KMC Auto facility during the August 2008 sampling event. No VOCs were detected above laboratory limits in the supply well sample.

It should be noted that the laboratory detection limit for tetrachloroethene during the August 2008 sample event was above the VGES in MW-1 and in the duplicate sample.

- The **November 2008** groundwater sampling event included MW-1, MW-2, MW-3, and MW-8. Petroleum-related compounds above standards were documented in MW-1. Tetrachloroethene was not detected above laboratory limits in any of the groundwater samples. Samples under the scope of this sampling event were analyzed using EPA method 8260.
- The **May 2009** sampling event included MW-1, MW-3, MW-4 and MW-8. According to the May 2009 report, MW-2 was destroyed (assumed) by snow plowing activities. Petroleum-related compounds above standards were documented in MW-1. No VOCs were detected above laboratory

limits in the other three wells sampled. Groundwater samples were analyzed in accordance with EPA method 8021B which does not include the compound tetrachloroethene.

In May 2009, the VT DEC requested that MW-6 and MW-7 be abandoned (permanently closed) so that these wells would not serve as a contamination migration route for surface releases. These wells were located northeast and east of the property across the roadway. The closure report for MW-6 and MW-7 also indicates that MW-9 was destroyed during the 2008-2009 winter.

- The **October 2009** sampling event included MW-1, MW-3, MW-4 and MW-8. Petroleum-related compounds above standards were documented in MW-1. No VOCs were detected above laboratory limits in the other three wells sampled. Groundwater samples were analyzed in accordance with EPA method 8021B which does not include the compound tetrachloroethene.
- Only MW-1 was sampled under the scope of this monitoring round in **April 2011**.

Water Elevations and Flow Direction

Groundwater flow at the site has historically been to the east, northwest and northeast. Some flow calculations may have been influenced by the number and location of groundwater elevations measured.

- 2007 groundwater flow was to the east (limited number of wells installed at the time)
- April 2008 & August 2008 groundwater flow was to northwest (additional wells installed)
- November 2008 groundwater flow to the northeast (groundwater elevation data limited to MW-1, MW-2, MW-3 & MW-8)
- May 2009 groundwater flow to the northeast (groundwater elevation data limited to MW-1, MW-3, MW-4 & MW-8),
- October 2009 groundwater flow to the northwest (groundwater elevation data limited to MW-1, MW-3, MW-4 & MW-8).

On 21 April 2011, groundwater flow in the unconfined surficial aquifer at the site is assumed to be towards the north/northwest. The estimated hydraulic gradient is approximately 0.01 percent (between MW-3 and MW-1). Water-level measurements and elevation calculations for 21 April 2011 are presented in **Table 1**, Attachment B and the ground-water contour map prepared using this data is presented as **Figure 4**, Attachment A.

On 21 April 2011, the water table elevation ranged from 93.01 feet (MW-1) to 94.93 feet (MW-3). Static water-table elevations were computed for each monitoring well by subtracting the measured depth-to-water readings from the surveyed top-of-casing (TOC) elevations, which are relative to an arbitrary site datum of 100.00 feet. In April 2011, the groundwater elevations in both MW-1 and MW-3 were higher (1.49-2.95 feet) than the previous sampling event in October 2009.

Ground Water Analysis

Laboratory analysis indicates that the Vermont Groundwater Enforcement Standards (VGESs¹) for 1,3,5-trimethylbenzene, 1,2,4-trimethylbenzene, and naphthalene were exceeded in the sample collected from MW-1, which is in the assumed vicinity of the former UST system, at concentrations of 850, 2,700 and 190 µg/L, respectively. Ethylbenzene (78 µg/L) and total xylenes (1,480 µg/L) were also detected but were below VGES in the MW-1 sample. Concentrations of 1,3,5-trimethylbenzene, 1,2,4-trimethylbenzene, xylenes and ethylbenzene have increased in MW-1 since the last sample event while the naphthalene concentration has

¹ The Vermont DEC has established groundwater enforcement standards for eight petroleum related VOCs, as follows: benzene - 5 ug/L; toluene - 1,000 ug/L; ethylbenzene - 700 ug/L; xylenes - 10,000 ug/L; MtBE - 40 ug/L; naphthalene – 20 ug/L, and 1,3,5-trimethyl benzene & 1,2,4-trimethyl benzene (combined) – 350 ug/L.

decreased. In general, the contaminant concentrations are similar to the concentrations observed in 2008 suggesting that very little biodegradation is occurring at the site.

No volatile petroleum compounds were detected in the trip blank sample. The analytical results for the blind field duplicate, collected from MW-1, were within a 30% relative difference from the true sample. The groundwater analytical results for the 21 April 2011 sampling event are presented in **Table 2**, Attachment B and the contaminant distribution map prepared using this data is presented as **Figure 5**, Attachment A. Time-series graphs for monitoring wells are included in Attachment C, and copies of laboratory analytical reports are included in Attachment D.

Prior to sample collection, **R.E.A** field personnel measured the water level and purged approximately three standing volumes of water from MW-1. The groundwater monitoring sample was collected using a peristaltic pump with dedicated tubing, after purging was complete. Water was poured directly into 40-milliliter glass vials with Teflon-lined septum lids. Each sample vial was preserved with hydrochloric acid to reduce the pH to less than 2 standard units (su). A summary of field measurements is presented in **Table 3**, Appendix B.

On 21 April 2011, groundwater samples were collected from one monitoring well (MW-1). The groundwater sample was analyzed for the possible presence of volatile organic compounds (VOCs) in accordance with U.S. EPA Method 8021B. All samples were transported under chain-of-custody in an ice-filled cooler to AMRO Environmental Laboratories of Merrimack, New Hampshire for laboratory analysis.

Please call me if you have any questions or concerns regarding the enclosed results or recommendations. A copy of this report will be submitted to the VT DEC.

Sincerely,

Ross Environmental Associates, Inc.

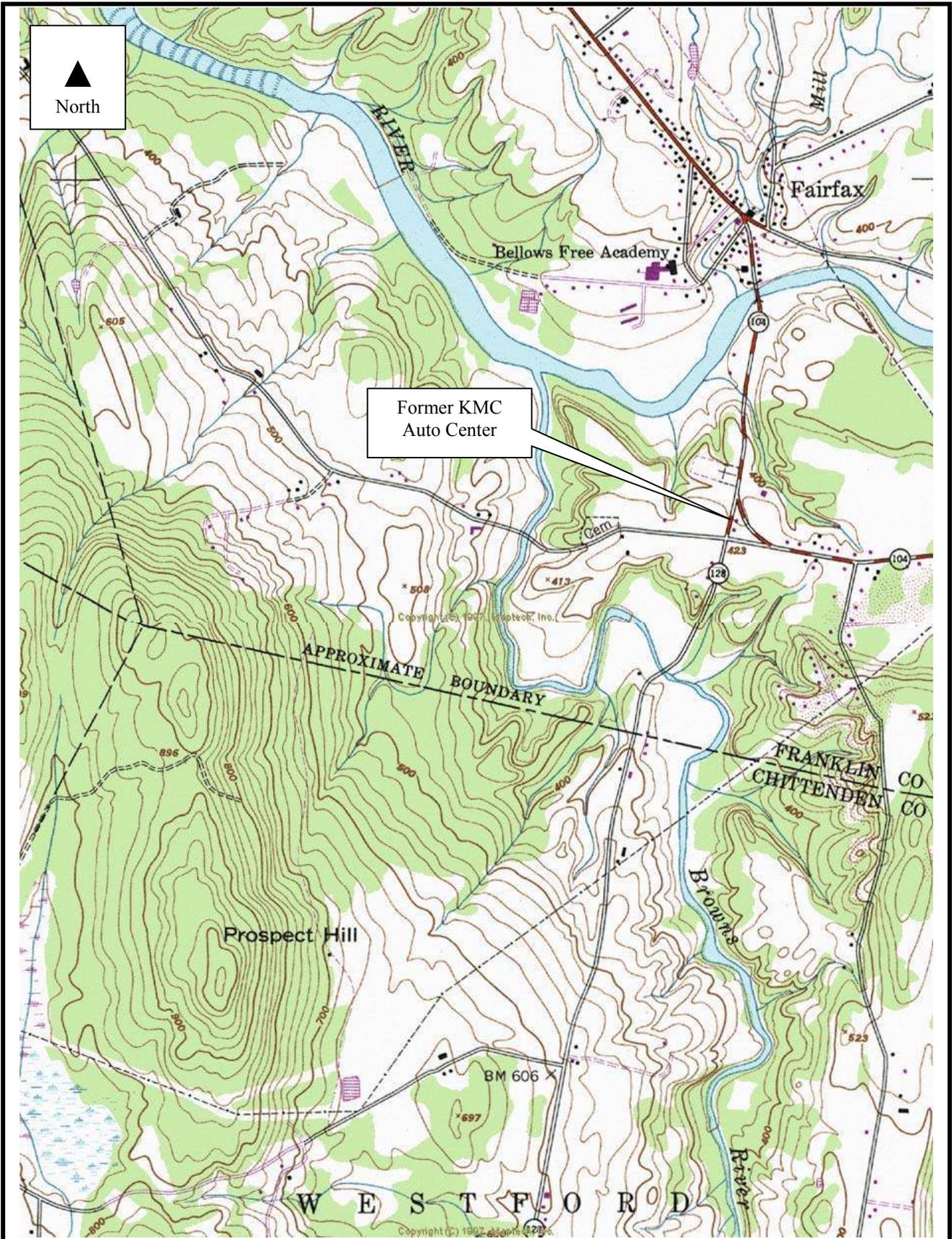
Megan McConville
Project Manager/Environmental Chemist

cc. Gerold Noyes - VT DEC,

Ken Gibbons- Union Bank

Attachments
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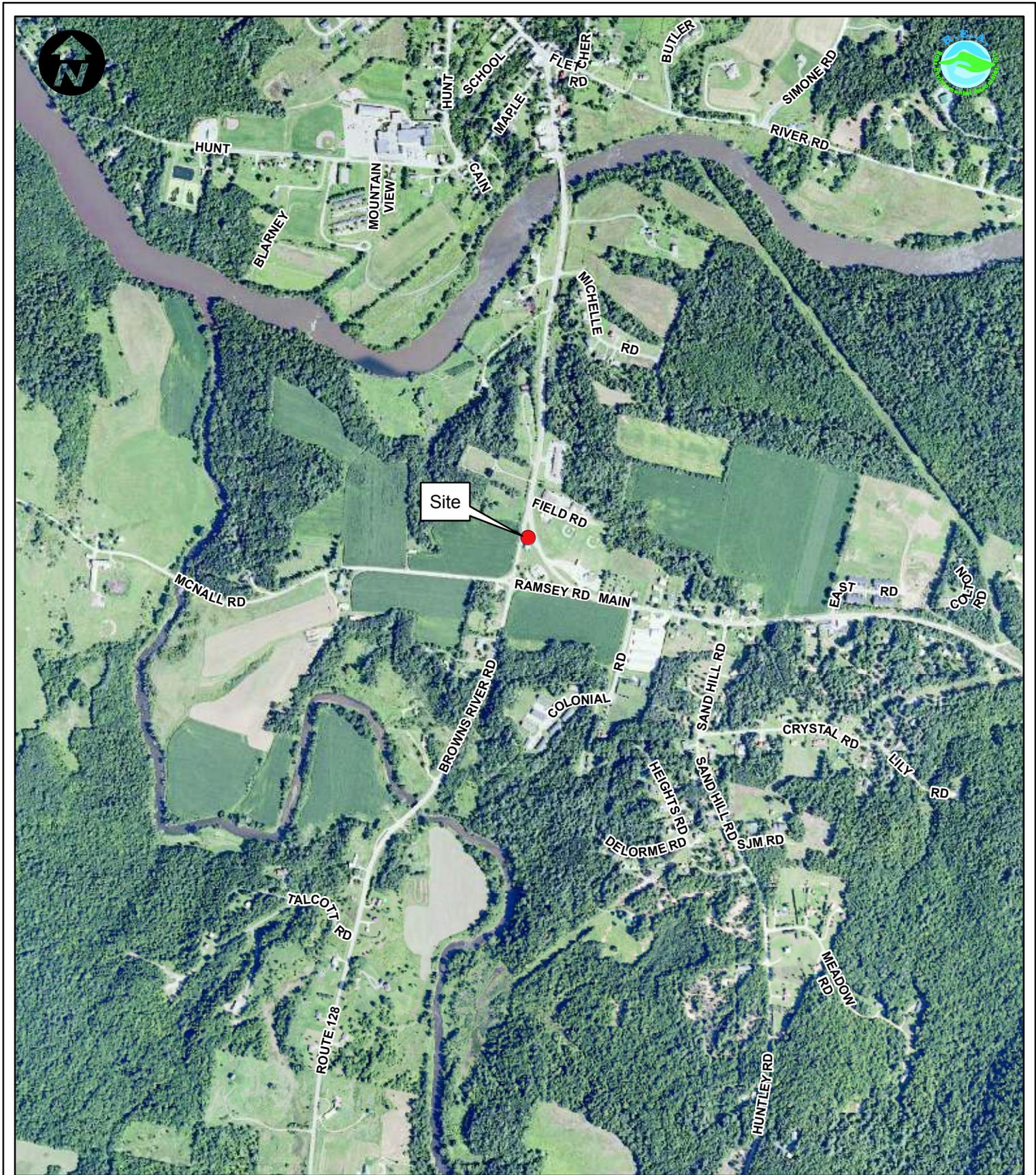


Approximate Scale: 1 inch = 1,400 feet

Site Coordinates: 44° 39' 16.9" N, 73° 00' 34.9" W

Source: USGS, 1986. Milton Quadrangle, VT 1948, photo-revised 1987 (7.5 minute series topographic). Maptech, Inc. 1998.
R.E.A. Project No 27-097

Figure 1
 Site Location Map
 Former KMC Auto Center
 Fairfax, Vermont

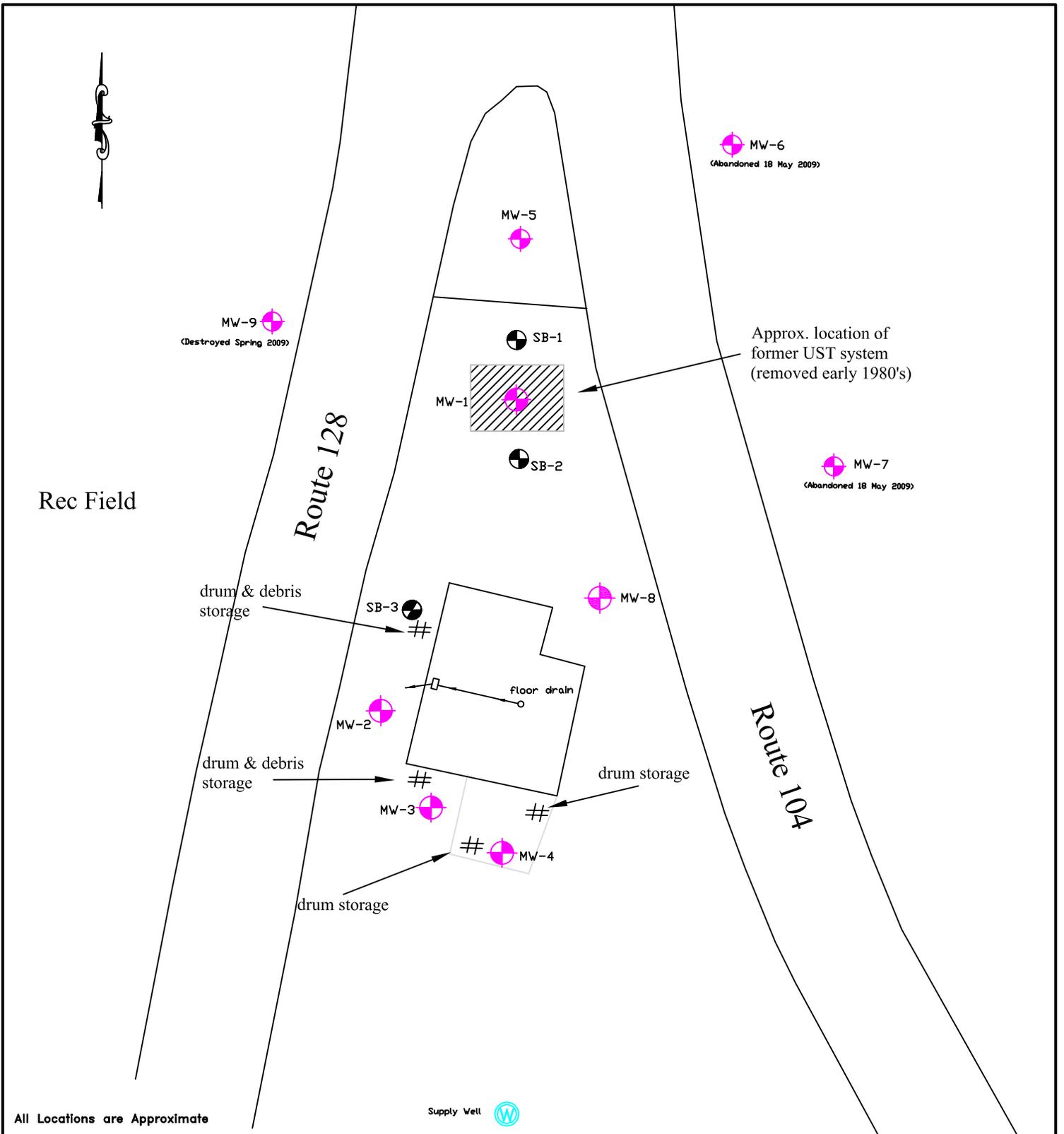


0 385 770 1,540 2,310 3,080 Feet

Site Coordinates: 44° 39' 16.9" N 73° 00' 34.9" W

Aerial Photo: 2009 NAIP

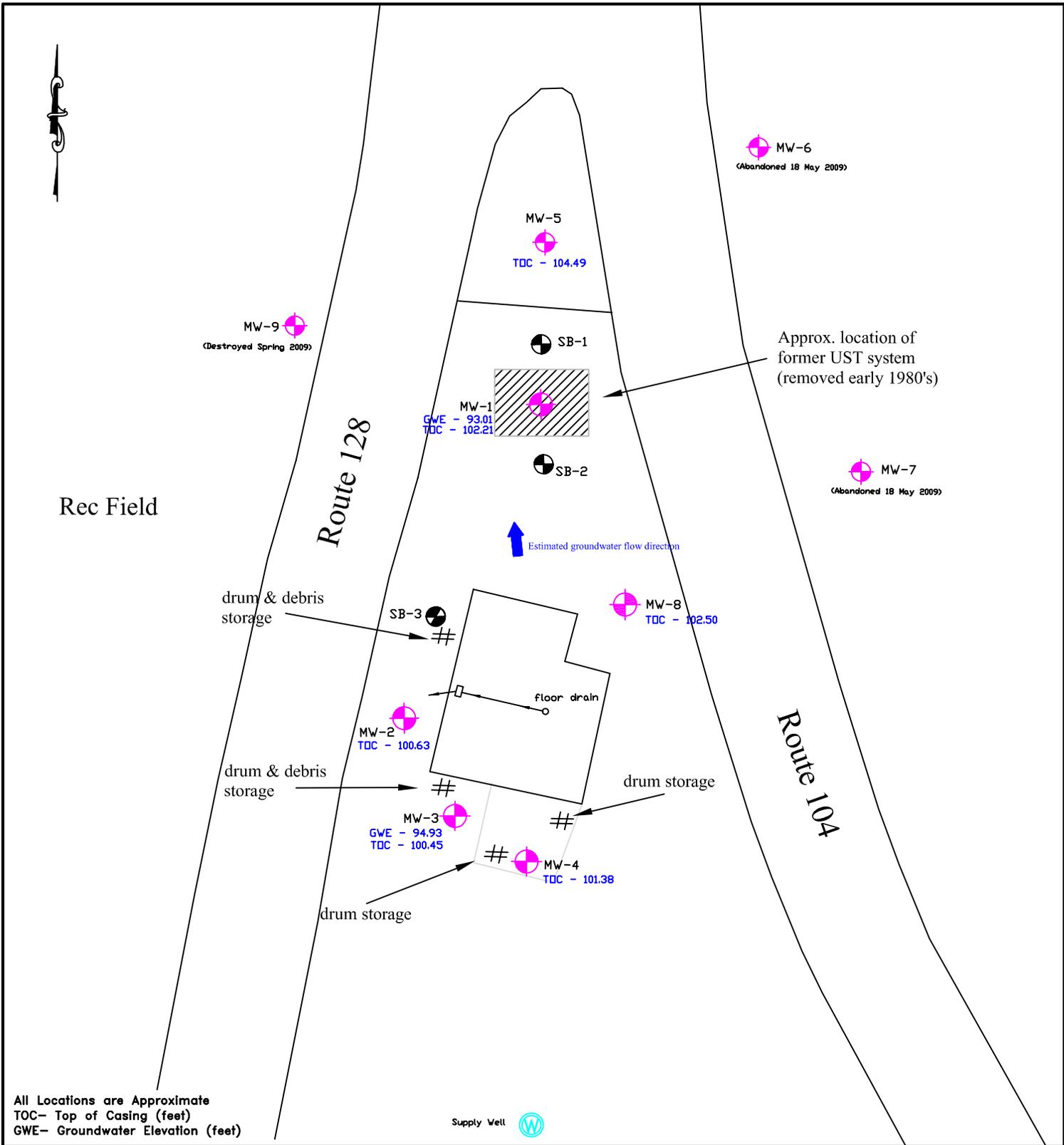
Figure 2
Aerial Photo
Former KMC Auto
Fairfax, Vermont



Legend Monitoring Well Location Soil Boring Location Supply Well Location	Scale 1" = 40'	Date 4 October 2007
	File Name 27-097	Drawn By RJR
FIGURE 3. SITE PLAN (with monitoring well locations) Former KMC Auto Center - Fairfax, VT		



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 P.O. Box 1533 Stowe, Vt 05672
 (802) 253-4280



All Locations are Approximate
 TOC- Top of Casing (feet)
 GWE- Groundwater Elevation (feet)

- Legend:**
- Monitoring Well Location
 - Soil Boring Location
 - Supply Well Location

Scale: 1" = 40'

Date: 4 October 2007

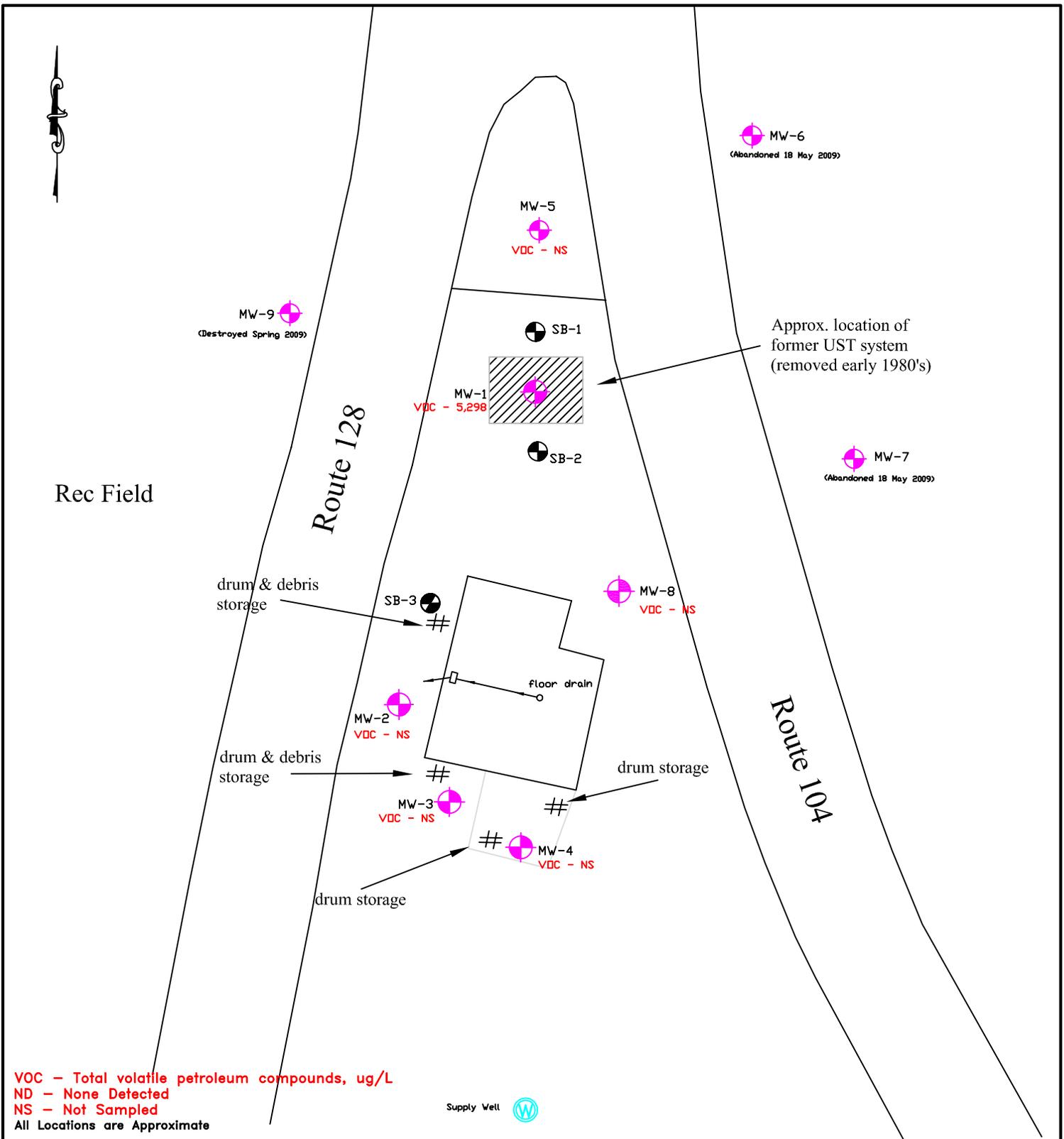
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Drawn By: RJR

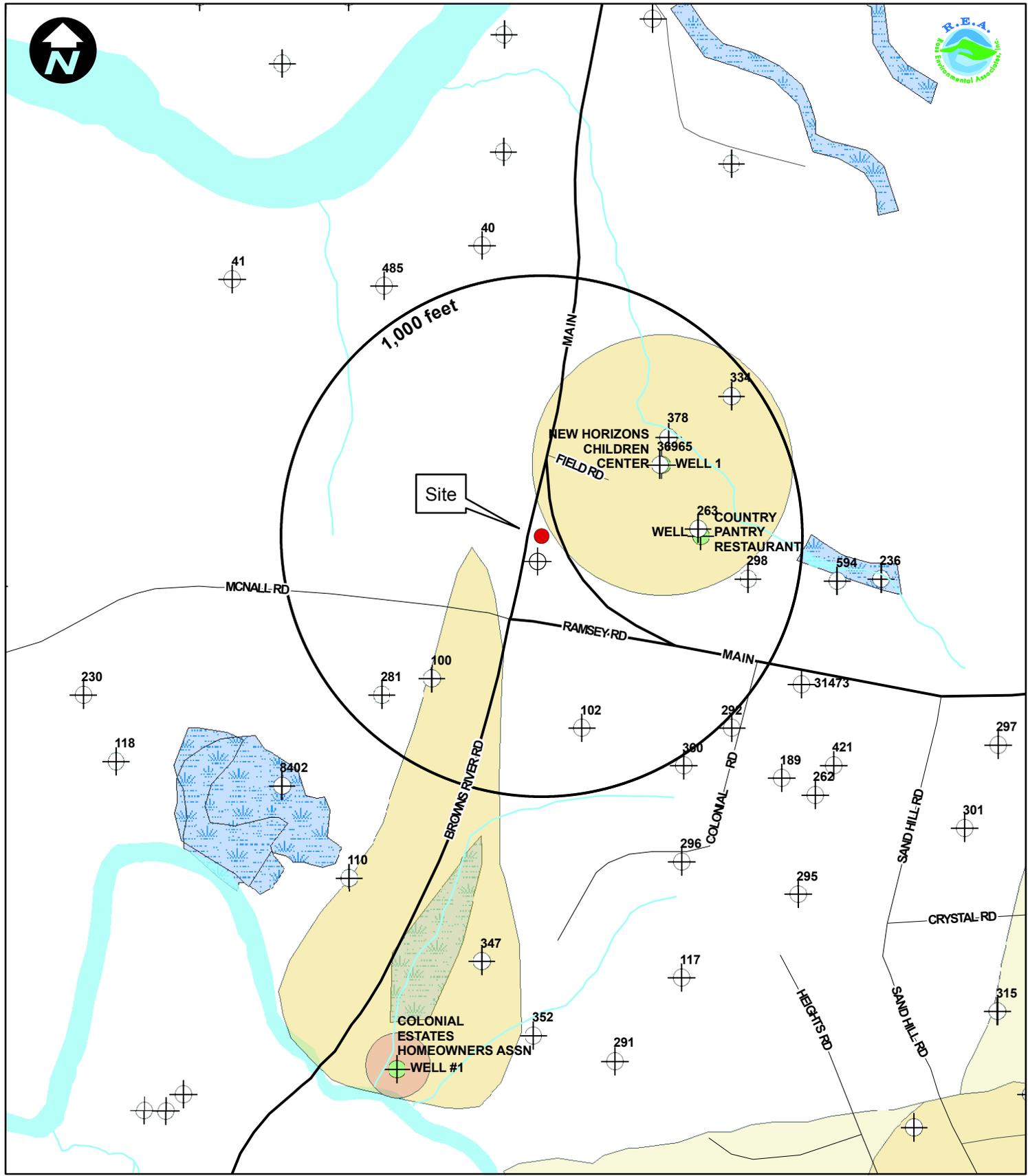


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FIGURE 4.
 GROUNDWATER CONTOUR MAP
 Monitoring Date: 21 April 2011
 Former KMC Auto Center - Fairfax, VT



Legend: Monitoring Well Location Soil Boring Location Supply Well Location	Scale: 1" = 40' Date: 4 October 2007
	File Name: 27097fig5 Drawn By: RJR
FIGURE 5. CONTAMINANT DISTRIBUTION Monitoring Date: 21 April 2011 Former KMC Auto Center - Fairfax, VT	
Ross Environmental Associates, Inc. P.O. Box 1533 Stowe, Vt 05672 (802) 253-4280	



Site Coordinates: 44° 39' 16.9" N 73° 00' 34.9" W

Private Wells	VT Significant Wetland Inventory 2010	Groundwater SPA 2010	Surface Water SPA 2009
Public Source Wells	Class 1	NA	ZONE 3
Surface Water	Class 2	Zone 1	ZONE 2
	VT Significant Wetland Inventory 2010 Advisory	Zone 2	ZONE 1
	Class 3	Zone 3	

Figure 6
Sensitive Receptors
Former KMC Auto
Fairfax, Vermont

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TABLE 1
GROUND WATER ELEVATION CALCULATIONS

Former KMC Auto
Fairfax, Vermont

Monitoring Date: 21 April 2011

Well I.D.	Top of Casing Elevation (ft)	Depth to Water (feet, TOC)	Water Table Elevation (ft)
MW-1	102.21	9.20	93.01
MW-3	100.45	5.52	94.93

All values reported in feet relative to arbitrary site datum of 100.00 feet

TABLE 2
GROUND-WATER ANALYTICAL RESULTS
Former KMC Auto Center - Fairfax, Vermont

Monitoring Date: 21 April 2011

Parameter	VGES	MW-1	Trip Blank	Duplicate (MW-1)	% Difference
MtBE	40	ND<1.0	ND<1.0	ND<1.0	--
Benzene	5.0	ND<1.0	ND<1.0	ND<1.0	--
Toluene	1,000	ND<1.0	ND<1.0	ND<1.0	--
Ethylbenzene	700	78	ND<1.0	61	24
Total Xylenes	10,000	1,480	ND<2.0	1,440	3
1,3,5-trimethylbenzene	350	850	ND<1.0	710	18
1,2,4-trimethylbenzene		2,700	ND<1.0	2,300	16
Naphthalene	20	190	ND<1.0	140	30
Total VOCs	--	5,298	ND	4,651	13

Notes: All results reported as micrograms per liter (ug/L), unless indicated
ND: None detected at indicated detection limit.
Shaded values indicate exceedance of Vermont Groundwater

**TABLE 3
FIELD MEASUREMENT DATA**

Former KMC Auto Center
Fairfax, VT

Monitoring Date: 21 April 2011

Well ID	pH (su)	temperature (°C)	Specific conductivity (uS)	ORP (mV)	TDS (ppm)	Comments
MW-1	8.00	6.4	650	162	330	sheen, very silty at purge & sample
MW-2	Not located					
MW-3	Depth to water: 5.52 feet					
MW-4	To much debris, piled within fence, Not located					
MW-5	Not located					
MW-8	Well blocked at 3 feet bgs					

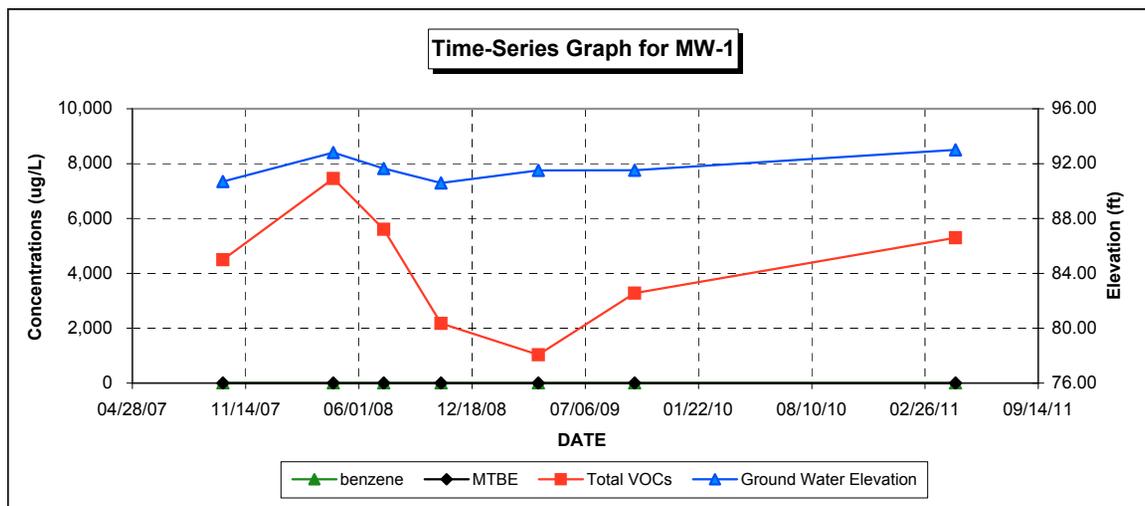
pH reported in standard units (s.u.).

Specific conductivity reported in microsiemens (uS) or millisiemens (mS).

Oxidation-reduction potential (ORP) reported in millivolts (mV).

Total dissolved solids (TDS) reported in parts per million (ppm) or parts per (ppt) thousand.

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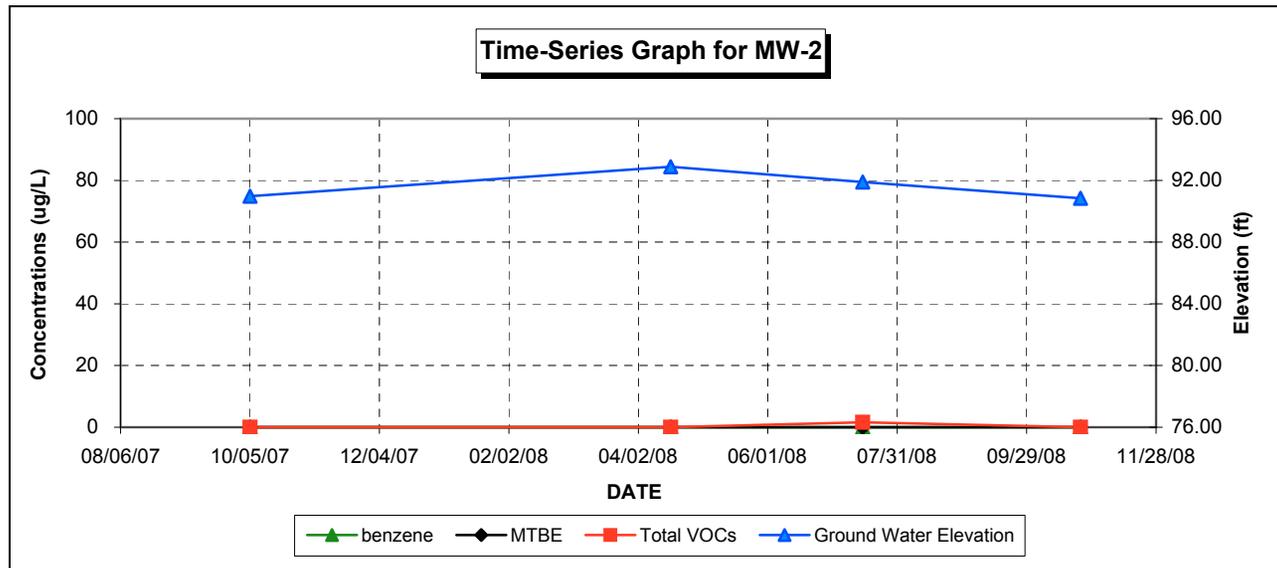


Summary of Ground Water Analytical Results for MW-1

Former KMC Auto Center
Fairfax, Vermont

Date	MTBE	benzene	toluene	ethyl benzene	total xylenes	1,3,5-TMB	1,2,4-TMB	naphthalene	Total VOCs	Ground Water Elevation
10/5/2007	ND<2.0	ND<10	ND<20	200	1,830	540	1,800	130	4,500	90.69
4/17/2008	ND<20	ND<10	ND<20	480	4,600	410	1,500	470	7,460	92.81
7/15/2008	ND<100	ND<50	ND<50	176	2,760	513	1,750	406	5,605	91.65
10/24/2008	ND<2.0	ND<1.0	ND<2.0	8.9	740	240	1,000	190	2,179	90.59
4/14/2009	ND<1.0	ND<1.0	ND<1.0	31	450	120	370	61	1,032	91.51
10/1/2009	ND<1.0	ND<1.0	ND<1.0	52	1,260	340	1,400	230	3,282	91.52
4/21/2011	ND<1.0	ND<1.0	ND<1.0	78	1,480	850	2,700	190	5,298	93.01
VGES	40	5.0	1,000	700	10,000	350 combined		20	---	---

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

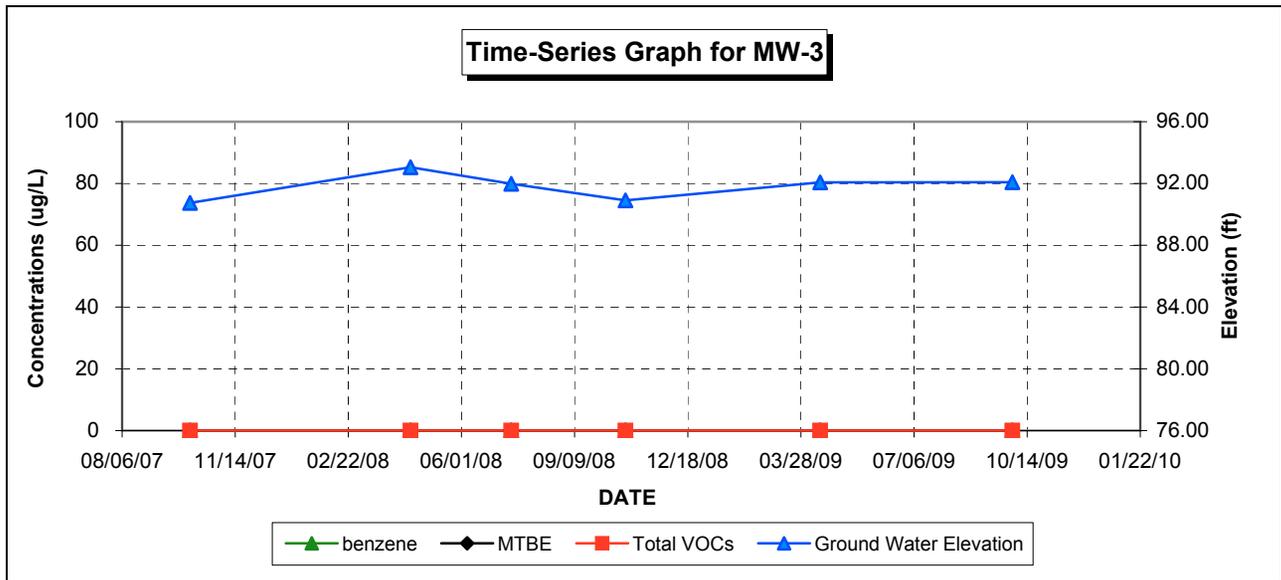


Summary of Ground Water Analytical Results for MW-2

Former KMC Auto Center
Fairfax, Vermont

Date	MTBE	benzene	toluene	ethyl benzene	total xylenes	1,3,5-TMB	1,2,4-TMB	naphthalene	Total VOCs	Ground Water Elevation
10/5/2007	ND<2.0	ND<1.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND	90.97
4/17/2008	ND<2.0	ND<1.0	ND<2.0	ND<2.0	ND<2.0	ND<1.0	ND<1.0	ND<5.0	ND	92.88
7/15/2008	ND<2.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<1.0	ND<2.0	ND<2.0	1.6	91.89
10/24/2008	ND<2.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<1.0	ND<2.0	ND<2.0	ND	90.84
VGES	40	5.0	1,000	700	10,000	350 combined		20	---	---

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

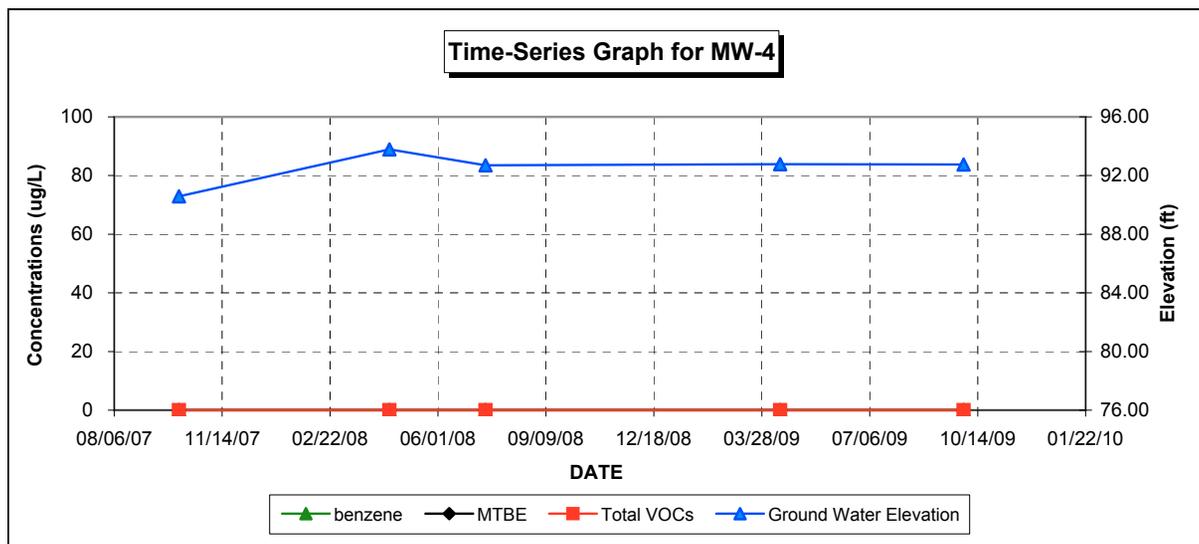


Summary of Ground Water Analytical Results for MW-3

Former KMC Auto Center
Fairfax, Vermont

Date	MTBE	benzene	toluene	ethyl benzene	total xylenes	1,3,5-TMB	1,2,4-TMB	naphthalene	Total VOCs	Ground Water Elevation
10/5/2007	ND<2.0	ND<1.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND	90.74
4/17/2008	ND<2.0	ND<1.0	ND<2.0	ND<2.0	ND<2.0	ND<1.0	ND<1.0	ND<5.0	ND	93.05
7/15/2008	ND<2.0	ND<1.0	ND<1.0	ND<2.0	ND<2.0	ND<1.0	ND<1.0	ND<5.0	ND	91.98
10/24/2008	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<1.0	ND<1.0	ND<1.0	ND	90.91
4/14/2009	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<1.0	ND<1.0	ND<1.0	ND	92.07
10/1/2009	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<1.0	ND<1.0	ND<1.0	ND	92.08
VGES	40	5.0	1,000	700	10,000	350 combined		20	---	---

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

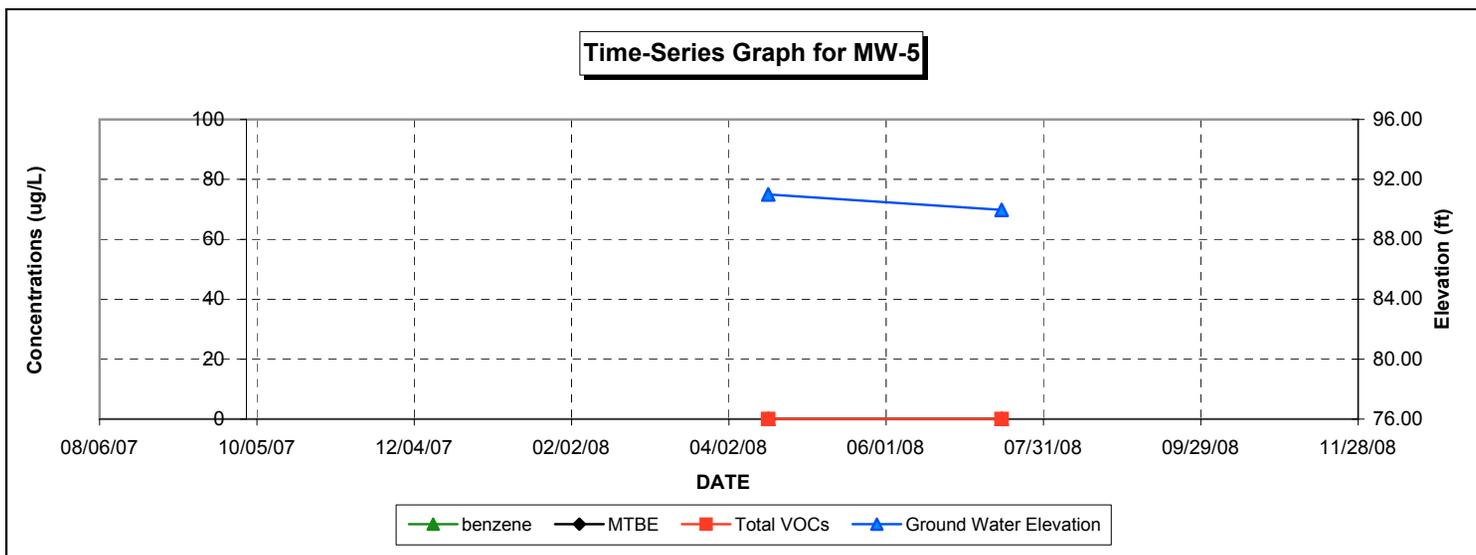


Summary of Ground Water Analytical Results for MW-4

Former KMC Auto Center
Fairfax, Vermont

Date	MTBE	benzene	toluene	ethyl benzene	total xylenes	1,3,5-TMB	1,2,4-TMB	naphthalene	Total VOCs	Ground Water Elevation
10/5/2007	ND<2.0	ND<1.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND	90.58
4/17/2008	ND<2.0	ND<1.0	ND<2.0	ND<2.0	ND<2.0	ND<1.0	ND<1.0	ND<5.0	ND	93.78
7/15/2008	ND<2.0	ND<1.0	ND<2.0	ND<2.0	ND<2.0	ND<1.0	ND<1.0	ND<5.0	ND	92.70
4/14/2009	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<1.0	ND<1.0	ND<1.0	ND	92.78
10/1/2009	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<1.0	ND<1.0	ND<1.0	ND	92.75
VGES	40	5.0	1,000	700	10,000	350 combined		20	---	---

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

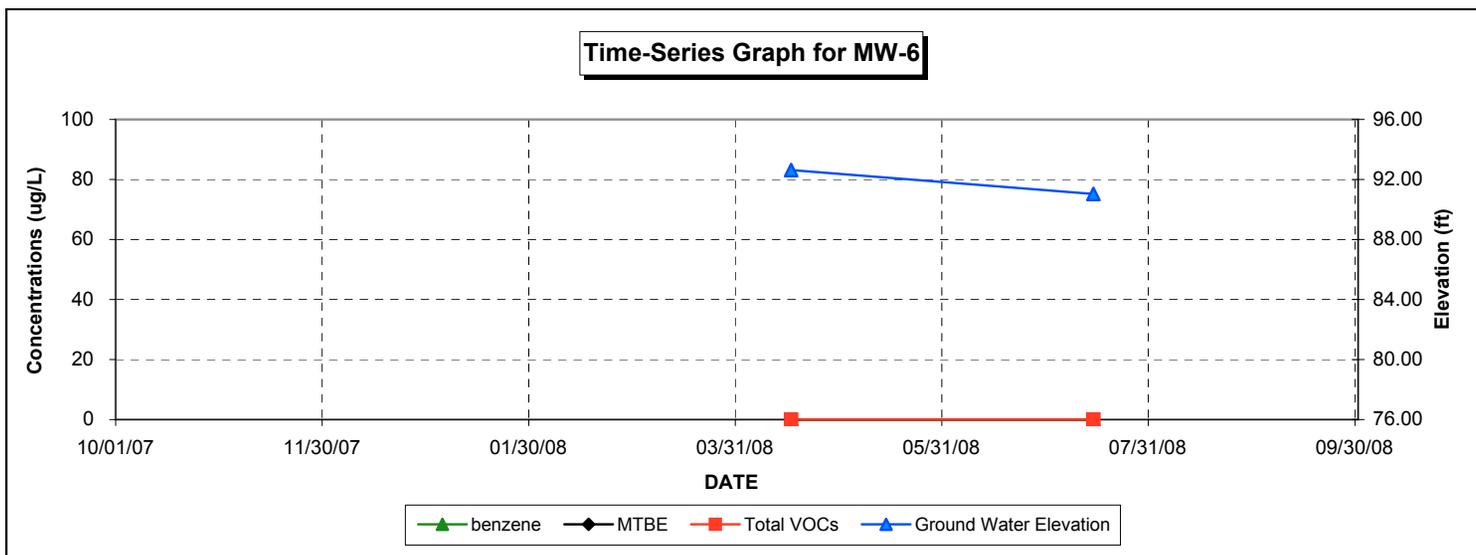


Summary of Ground Water Analytical Results for MW-5

Former KMC Auto Center
Fairfax, Vermont

Date	MTBE	benzene	toluene	ethyl benzene	total xylenes	1,3,5-TMB	1,2,4-TMB	naphthalene	1,2-dichloroethane	isopropyl benzene	n-propyl benzene	sec-butyl benzene	PCE	Total VOCs	Ground Water Elevation
4/17/2008	ND<2.0	ND<1.0	ND<2.0	ND<2.0	ND<2.0	ND<1.0	ND<1.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND	90.99
7/15/2008	ND<2.0	ND<1.0	ND<2.0	ND<2.0	ND<2.0	ND<1.0	ND<1.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND	89.96
VGES	40	5.0	1,000	700	10,000	350 combined	20	5.0	---	---	---	---	5.0	---	---

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

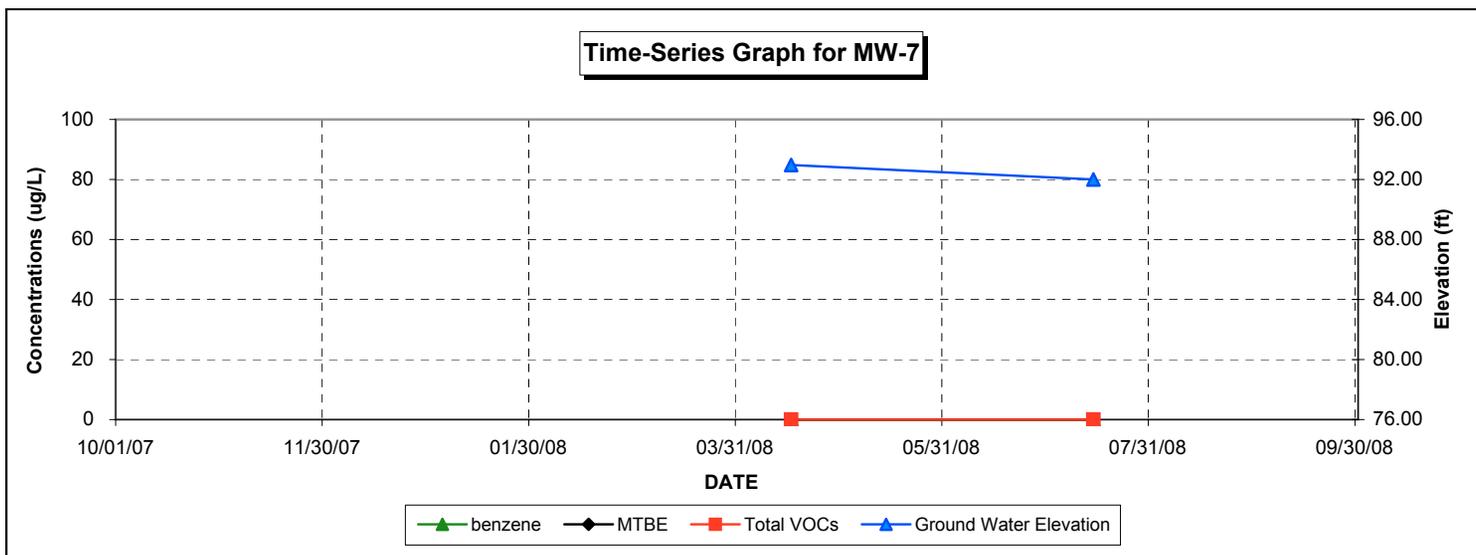


Summary of Ground Water Analytical Results for MW-6

Former KMC Auto Center
Fairfax, Vermont

Date	MTBE	benzene	toluene	ethyl benzene	total xylenes	1,3,5-TMB	1,2,4-TMB	naphthalene	1,2-dichloroethane	isopropyl benzene	n-propyl benzene	sec-butyl benzene	PCE	Total VOCs	Ground Water Elevation
4/17/2008	ND<2.0	ND<1.0	ND<2.0	ND<2.0	ND<2.0	ND<1.0	ND<1.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND	92.63
7/15/2008	ND<2.0	ND<1.0	ND<2.0	ND<2.0	ND<2.0	ND<1.0	ND<1.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND	91.03
VGES	40	5.0	1,000	700	10,000	350 combined	20	5.0	---	---	---	---	5.0	---	---

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

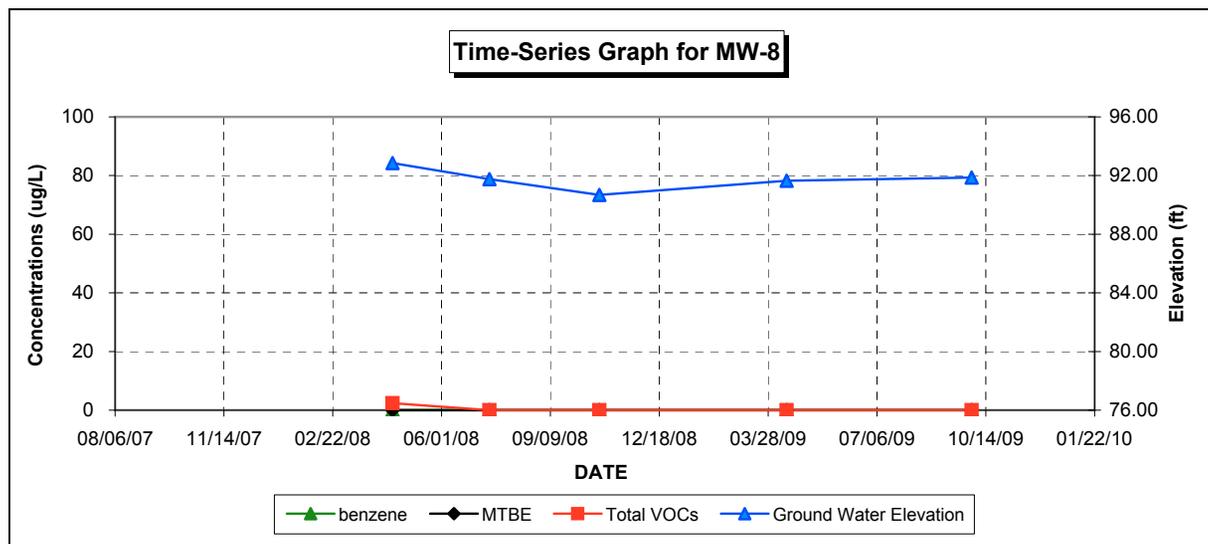


Summary of Ground Water Analytical Results for MW-7

Former KMC Auto Center
Fairfax, Vermont

Date	MTBE	benzene	toluene	ethyl benzene	total xylenes	1,3,5-TMB	1,2,4-TMB	naphthalene	1,2-dichloroethane	isopropyl benzene	n-propyl benzene	sec-butyl benzene	PCE	Total VOCs	Ground Water Elevation
4/17/2008	ND<2.0	ND<1.0	ND<2.0	ND<2.0	ND<2.0	ND<1.0	ND<1.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND	92.97
7/15/2008	ND<2.0	ND<1.0	ND<2.0	ND<2.0	ND<2.0	ND<1.0	ND<1.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND	92.00
VGES	40	5.0	1,000	700	10,000	350 combined	20	5.0	---	---	---	---	5.0	---	---

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

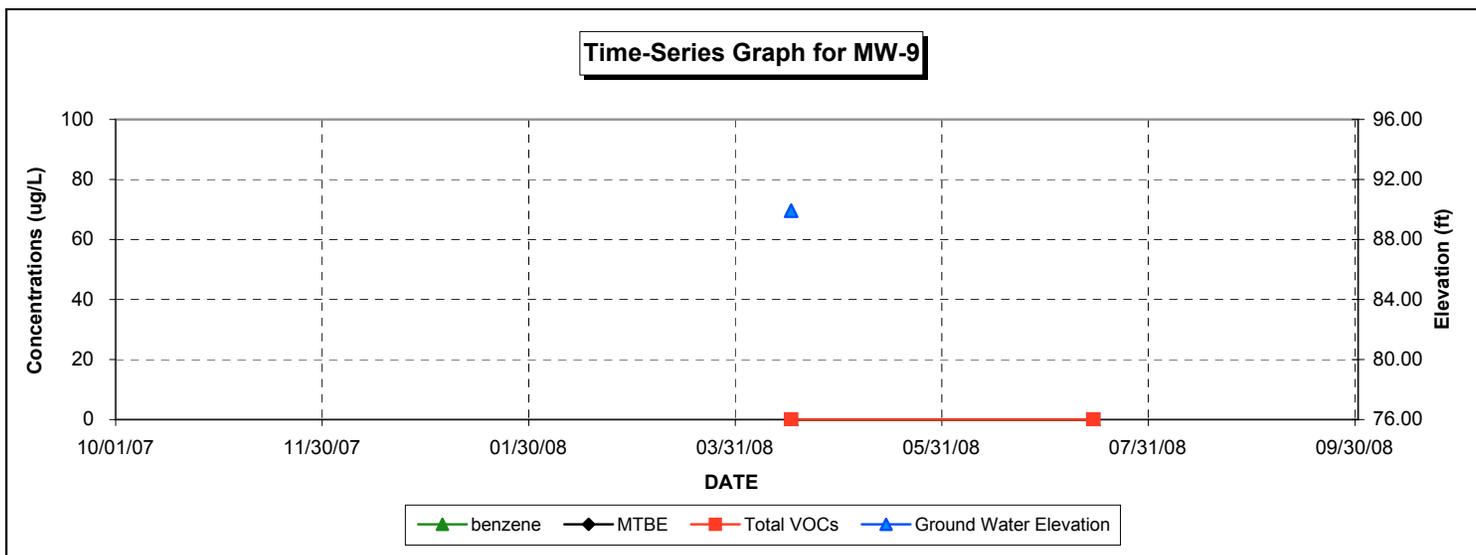


Summary of Ground Water Analytical Results for MW-8

Former KMC Auto Center
Fairfax, Vermont

Date	MTBE	benzene	toluene	ethyl benzene	total xylenes	1,3,5-TMB	1,2,4-TMB	naphthalene	Total VOCs	Ground Water Elevation
4/17/2008	ND<2.0	ND<1.0	ND<2.0	ND<2.0	ND<2.0	ND<1.0	ND<1.0	ND<5.0	2.4	92.85
7/15/2008	ND<2.0	ND<1.0	ND<2.0	ND<2.0	ND<2.0	ND<1.0	ND<1.0	ND<5.0	ND	91.75
10/24/2008	ND<2.0	ND<1.0	ND<2.0	ND<2.0	ND<2.0	ND<1.0	ND<1.0	ND<5.0	ND	90.68
4/14/2009	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<2.0	ND<1.0	ND<1.0	ND<1.0	ND	91.65
10/1/2009	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<2.0	ND<1.0	ND<1.0	ND<1.0	ND	91.86
VGES	40	5.0	1,000	700	10,000	350 combined		20	---	---

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



Summary of Ground Water Analytical Results for MW-9

Former KMC Auto Center
Fairfax, Vermont

Date	MTBE	benzene	toluene	ethyl benzene	total xylenes	1,3,5-TMB	1,2,4-TMB	naphthalene	1,2-dichloroethane	isopropyl benzene	n-propyl benzene	sec-butyl benzene	PCE	Total VOCs	Ground Water Elevation
4/17/2008	ND<2.0	ND<1.0	ND<2.0	ND<2.0	ND<2.0	ND<1.0	ND<1.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND	---
7/15/2008	ND<2.0	ND<1.0	ND<2.0	ND<2.0	ND<2.0	ND<1.0	ND<1.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND	89.92
VGES	40	5.0	1,000	700	10,000	350 combined	20	5.0	---	---	---	---	5.0	---	---

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

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CLIENT: Ross Environmental Associates
Project: 27097 KMC Auto
Lab Order: 1104058
Date Received: 4/26/2011

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Collection Date	Collection Time
1104058-01A	TB	4/21/2011	8:34 AM
1104058-02A	Dup	4/21/2011	12:00 AM
1104058-03A	MW1	4/21/2011	8:50 AM

DATA COMMENT PAGE

Organic Data Qualifiers

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

Micro Data Qualifiers

TNTC	Too numerous to count
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Inorganic Data Qualifiers

ND or U	Indicates element was analyzed for, but not detected at or above the reporting limit.
J	Indicates a value greater than or equal to the method detection limit, but less than the quantitation limit.
H	Indicates analytical holding time exceedance.
B	Indicates that the analyte is found in the associated blank, as well as in the sample.
MSA	Indicates value determined by the Method of Standard Addition
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
R	RPD outside accepted recovery limits
RL	Reporting limit; defined as the lowest concentration the laboratory can accurately quantitate.
S	Spike Recovery outside accepted recovery limits.
W	Post-digestion spike for Furnace AA analysis is out of control limits (85-115), while sample absorbance is less than 50% of spike absorbance.
*	Duplicate analysis not within control limits.
+	Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995
#	See Case Narrative

Report Comments:

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

AMRO Environmental Laboratories Corp.

Date: 04-May-11

CLIENT: Ross Environmental Associates
Project: 27097 KMC Auto

Lab Order: 1104058**Lab ID:** 1104058-01**Collection Date:** 4/21/2011 8:34:00 AM**Collection Time:****Client Sample ID:** TB**Matrix:** AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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EPA 8260B AROMATIC VOLATILES BY GC/MS**SW8260B**Analyst: **SK**

Methyl tert-butyl ether	ND	1.0		µg/L	1	5/2/2011 2:31:00 PM
Benzene	ND	1.0		µg/L	1	5/2/2011 2:31:00 PM
Toluene	ND	1.0		µg/L	1	5/2/2011 2:31:00 PM
Ethylbenzene	ND	1.0		µg/L	1	5/2/2011 2:31:00 PM
m,p-Xylene	ND	2.0		µg/L	1	5/2/2011 2:31:00 PM
o-Xylene	ND	2.0		µg/L	1	5/2/2011 2:31:00 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	5/2/2011 2:31:00 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	5/2/2011 2:31:00 PM
Naphthalene	ND	2.0		µg/L	1	5/2/2011 2:31:00 PM
Surr: Dibromofluoromethane	89.2	82-122		%REC	1	5/2/2011 2:31:00 PM
Surr: 1,2-Dichloroethane-d4	99.8	73-135		%REC	1	5/2/2011 2:31:00 PM
Surr: Toluene-d8	96.8	82-117		%REC	1	5/2/2011 2:31:00 PM
Surr: 4-Bromofluorobenzene	95.6	77-119		%REC	1	5/2/2011 2:31:00 PM

Lab ID: 1104058-02**Collection Date:** 4/21/2011**Collection Time:****Client Sample ID:** Dup**Matrix:** AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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EPA 8260B AROMATIC VOLATILES BY GC/MS**SW8260B**Analyst: **SK**

Methyl tert-butyl ether	ND	1.0		µg/L	1	5/2/2011 6:32:00 PM
Benzene	ND	1.0		µg/L	1	5/2/2011 6:32:00 PM
Toluene	ND	1.0		µg/L	1	5/2/2011 6:32:00 PM
Ethylbenzene	61	1.0		µg/L	1	5/2/2011 6:32:00 PM
m,p-Xylene	940	20		µg/L	10	5/3/2011 1:14:00 PM
o-Xylene	500	20		µg/L	10	5/3/2011 1:14:00 PM
1,3,5-Trimethylbenzene	710	10		µg/L	10	5/3/2011 1:14:00 PM
1,2,4-Trimethylbenzene	2,300	10		µg/L	10	5/3/2011 1:14:00 PM
Naphthalene	140	2.0		µg/L	1	5/2/2011 6:32:00 PM
Surr: Dibromofluoromethane	96.2	82-122		%REC	1	5/2/2011 6:32:00 PM
Surr: 1,2-Dichloroethane-d4	92.5	73-135		%REC	1	5/2/2011 6:32:00 PM
Surr: Toluene-d8	99.3	82-117		%REC	1	5/2/2011 6:32:00 PM
Surr: 4-Bromofluorobenzene	97.8	77-119		%REC	1	5/2/2011 6:32:00 PM

AMRO Environmental Laboratories Corp.

Date: 04-May-11

CLIENT: Ross Environmental Associates
Project: 27097 KMC Auto

Lab Order: 1104058**Lab ID:** 1104058-03**Collection Date:** 4/21/2011 8:50:00 AM**Collection Time:****Client Sample ID:** MW1**Matrix:** AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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EPA 8260B AROMATIC VOLATILES BY GC/MS**SW8260B**Analyst: **SK**

Methyl tert-butyl ether	ND	1.0		µg/L	1	5/2/2011 7:07:00 PM
Benzene	ND	1.0		µg/L	1	5/2/2011 7:07:00 PM
Toluene	ND	1.0		µg/L	1	5/2/2011 7:07:00 PM
Ethylbenzene	78	1.0		µg/L	1	5/2/2011 7:07:00 PM
m,p-Xylene	980	20		µg/L	10	5/3/2011 1:48:00 PM
o-Xylene	500	20		µg/L	10	5/3/2011 1:48:00 PM
1,3,5-Trimethylbenzene	850	10		µg/L	10	5/3/2011 1:48:00 PM
1,2,4-Trimethylbenzene	2,700	10		µg/L	10	5/3/2011 1:48:00 PM
Naphthalene	190	2.0		µg/L	1	5/2/2011 7:07:00 PM
Surr: Dibromofluoromethane	92.1	82-122		%REC	1	5/2/2011 7:07:00 PM
Surr: 1,2-Dichloroethane-d4	95.7	73-135		%REC	1	5/2/2011 7:07:00 PM
Surr: Toluene-d8	99.5	82-117		%REC	1	5/2/2011 7:07:00 PM
Surr: 4-Bromofluorobenzene	97.8	77-119		%REC	1	5/2/2011 7:07:00 PM