MAY 3 1 1995

LINCOLN
APPLIED GEOLOGY, INC.
ENVIRONMENTAL CONSULTANTS

May 30, 1995

Ms. Lynda Provencher
Site Manager
Sites Management Section
Vermont Department of Environmental Conservation
103 South Main Street
Waterbury, Vermont 05671

RE: Semiannual Water Quality Summary Report - Smith Buick GMC Truck, Route 7, Rutland, Vermont (~~Site #95-1721~~)

95-1721

Dear Lynda:

Lincoln Applied Geology, Inc. (LAG) has recently completed a round of semiannual ground water monitoring at the Smith Buick GMC Truck (SBGT) facility located on Route 7 in Rutland, Vermont. Ground water samples collected from the seven on-site monitor wells on April 26, 1995 were analyzed by EPA Method 8260 for volatile organic compounds (VOCs). Gasoline and petroleum-related compounds exceeding the Vermont Ground Water Enforcement Standards (GWES) were quantified in three monitor wells: MW-2, MW-6, and OW-1. We do not believe that any further remedial investigations are necessary other than continued semiannual monitoring.

Included for your information and use in reviewing this summary report are the following figures, tables, and appendix:

Figure 1, General Location Map;
Figure 2, Detailed Site Map;
Figure 3, Ground Water Contour Map for April 26, 1995;
Table 1, Ground Water Elevation Data;
Table 2, PID Assays;
Table 3, Ground Water Quality Results; and
Appendix A, MAV Laboratory Reports for April 26, 1995.

The site is shown on the general location map included as **Figure 1**. The area containing the ground water contamination is associated with the facility buildings on the eastern side of the property along Route 7. The SBGT property is an east to west elongated lot. The western two-thirds of the lot is undeveloped, wooded, contains a few wetland areas, and slopes to the west toward industrial development areas along the east side of Otter Creek.

Review of drilled well records on file at the Water Supply Division in Waterbury

revealed only two drilled wells are on record for this area. These include the Todd Transportation and United Van Lines property at the southwest corner of the site and the Suburban Propane property located south of the Todd Transportation property on the south side of Randbury Road as shown on **Figure 1**. Other businesses in the area are served by the City of Rutland and Town of Rutland municipal water systems. The Todd Transportation drilled bedrock well is 365 feet deep with 142 feet of steel casing and a yield of 2 gallons per minute (gpm). The Suburban Propane drilled well is 203 feet deep with 178 feet of steel casing and a yield of 10 gpm. The risk of potential contamination of these wells from shallow aquifer contaminants present at the SBGT site is considered non-existent due to the great horizontal and vertical distance between the drilled wells and the SBGT contaminants, the presence of 120 feet of low permeability clay and glacial till sediments separating the shallow aquifer from the bedrock, and the shallow aquifers' westerly flow direction and discharge to surface waters west of MW-4 and the overall site.

On April 26, 1995 a complete monitoring survey was conducted on the seven monitor wells on-site. The wells, buildings, roads, and other pertinent site features are shown on the detailed site map included as **Figure 2**. The ground water elevation data is included in **Table 1**. Review of this data shows that ground water levels have risen in all wells since January 12, 1995, in response to seasonal spring precipitation events. A photoionization detector (PID) with 10.2 eV lamp was used to measure VOCs in the headspace of the monitor wells. This data, included as **Table 2**, indicates that only wells MW-6 and OW-1 continue to contain elevated levels of VOCs at 22 parts per million (ppm) and 20 ppm, respectively. Theses assays are lower than those obtained this past January.

Ground water samples collected on April 26, 1995 show exceedences of the GWES in: MW-2 for tetrachloroethene (PCE) at 8.7 parts per billion (ppb); MW-6 for xylenes at 1,320 ppb; and OW-1 for xylenes at 4,600 ppb. The BTEX, MTBE, and chlorobenzene detected petroleum contaminants have been summarized and are presented in **Table 3**. Comparison of the January 11, 1995 data with the April 26th data in **Table 3** shows a slight increase from < 1 ppb to 1.5 ppb MTBE in MW-2 and an increase from 9 ppb to 93.2 ppb BTEX in MW-4. BTEX declined in MW-6 from 6,823 ppb to 1,622 ppb. BTEX declined in OW-1 from 20,290 ppb to 5,691 ppb. Ground water from monitor wells MW-1, MW-3, and MW-5 contained no detectable levels of VOCs. The MicroAssays of Vermont (MAV) laboratory reports presented as **Appendix A** include the levels of individual contaminants detected in each well.

The ground water elevation data was used to develop the ground water contour map presented as **Figure 3**. Review of **Figure 3** shows the west-southwest ground water flow direction of the shallow aquifer, which is similar to the January 12, 1995 ground water

contour map. Although water levels increased since January, the overall shallow ground water gradient (and discharge to surface waters west of MW-4) in April remains similar to January.

The presence of the gasoline-related contaminants BTEX and MTBE in MW-6 are attributed to the former gasoline USTs located in that area. Downgradient well MW-2 contains MTBE that has likely migrated from the MW-6 area, as well as low levels of PCE which may be from automotive degreasers and associated liquids stored, used, and potentially spilled in very small quantities in the service/repair garage and parts room. The PCE may have also entered the ground water from floor drain water exfiltrating the sanitary sewer service line (shown on **Figure 2** and **3**) or from very small scale spillage outside near MW-2. The various BTEX compounds and petroleum-related compounds detected in OW-1 are likely caused by possible spills or overfills of the former 550 gallon fuel oil UST and past chemicals usage at the former auto body shop and paint booth. Contaminants present in downgradient well MW-4 likely represent migration of ground water contaminants from OW-1 and the auto body shop/paint booth building.

It is encouraging that BTEX levels have decreased considerably in MW-6 and OW-1 since January 1995. The only sensitive receptors in the area are the wetland areas on the property to the west and directly downgradient of the contamination area. At this time we do not recommend that any further remedial activities be initiated. During the low water season in October 1995 we will conduct the second full ground water monitoring and sampling event as per our semiannual sampling schedule. A summary report will then be submitted to you that includes developing trends, conclusions, and recommendations for any further site activities, if deemed warranted.

If you have any questions or comments regarding this project, please call me or John Amadon, Project Manager, at 453-4384.

Sincerely,

William D. Norland

William D. Norland
Hydrogeologist

WDN/smk
enclosures
cc: John Jones
Joan Wing

Lincoln Applied Geology, Inc.
Environmental Consultants
RD # 1 Box 710 • Bristol, Vermont 05443 • (802) 453-4384 • FAX (802) 453-5399

Project: Smith Buick GMC Truck
Location: Rutland, Vermont

Ground Water Elevation/Product Level (feet)

Data Point	TOC	01/11/95	01/12/95	04/26/95				
MW-1	99.88	96.44	96.38	97.84				
MW-2	99.19	96.02	95.98	97.38				
MW-3	97.37	94.54	94.45	95.44				
MW-4	97.84	94.22	94.15	94.96				
MW-5	97.94	94.73	94.65	95.78				
MW-6	100.00	96.67	96.65	97.69				
OW-1	98.70	95.58	95.45	97.07				

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

Project: Smith Buick GMC Truck
Location: Rutland, Vermont

Photoionization Results (PID - ppm)

Data Point	01/11/95	01/12/95	04/26/95					
MW-1	BG	BG	BG					
MW-2	0.6	1.2	BG					
MW-3	0.8	0.4	BG					
MW-4	0.2	0.2	BG					
MW-5	2.6	1.4	BG					
MW-6	150	100	22					
OW-1	64	90	20.0					

Notes:
BG - Background
SL - Saturated Lamp

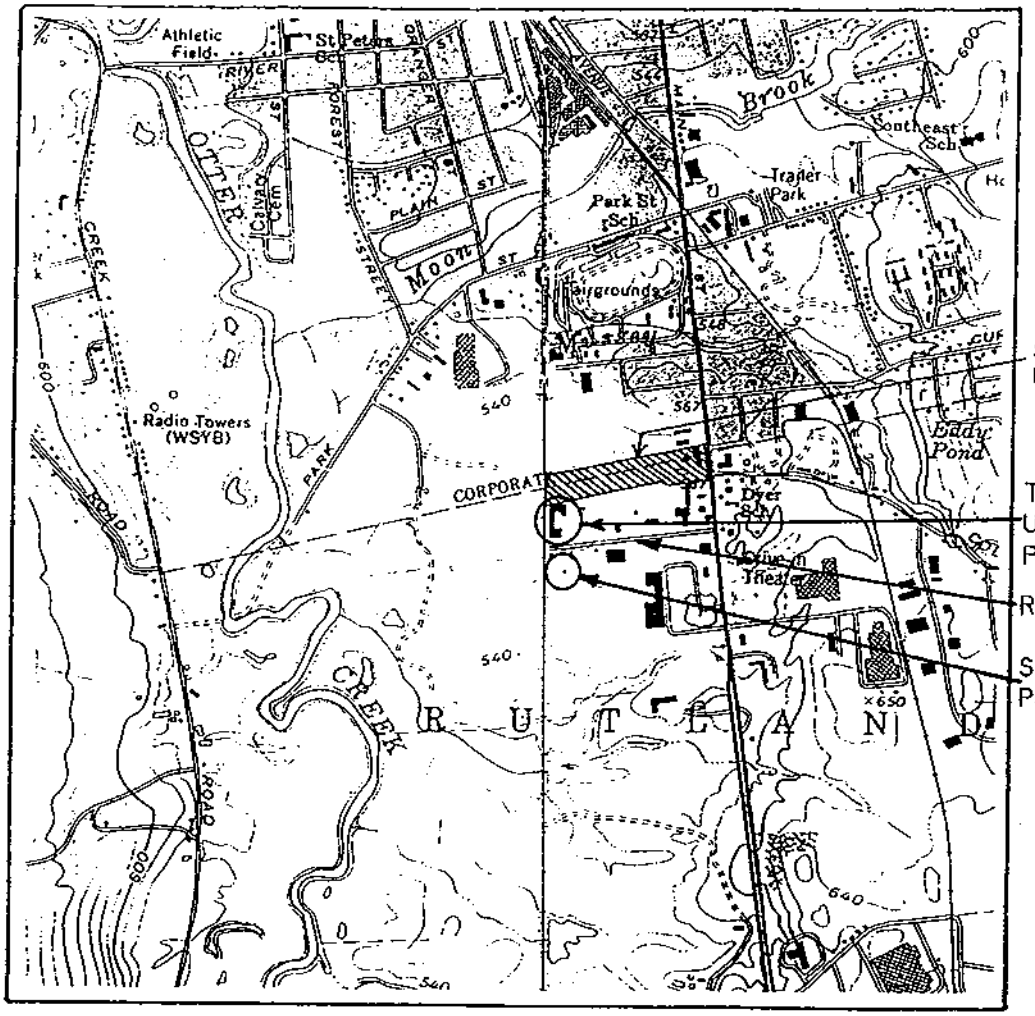
Project: Smith Buick GMC Truck
Location: Rutland, Vermont

Ground Water Quality Results (ppb)

Data Point	Compound	01/12/95	04/26/95					
MW-1	MTBE	<1	<1					
	BTEX	<6	<6					
	Chlorobenzene	<1	<1					
MW-2	MTBE	<1	1.5					
	BTEX	<6	<6					
	Chlorobenzene	<1	<1					
	Perchloroethylene		8.7					
	Trichloroethylene		1					
MW-3	MTBE	<1	<1					
	BTEX	<6	<6					
	Chlorobenzene	<1	<1					
MW-4	MTBE	<1	<1					
	BTEX	9	93.2					
	Chlorobenzene	98	<1					
MW-5	MTBE	<1	<1					
	BTEX	<6	<6					
	Chlorobenzene	<1	<1					
MW-6	MTBE	12	<25					
	BTEX	6,823	1,622					
	Chlorobenzene	<10	<25					
OW-1	MTBE	<100	<1					
	BTEX	20,290	5,691					
	Chlorobenzene	<100	<1					

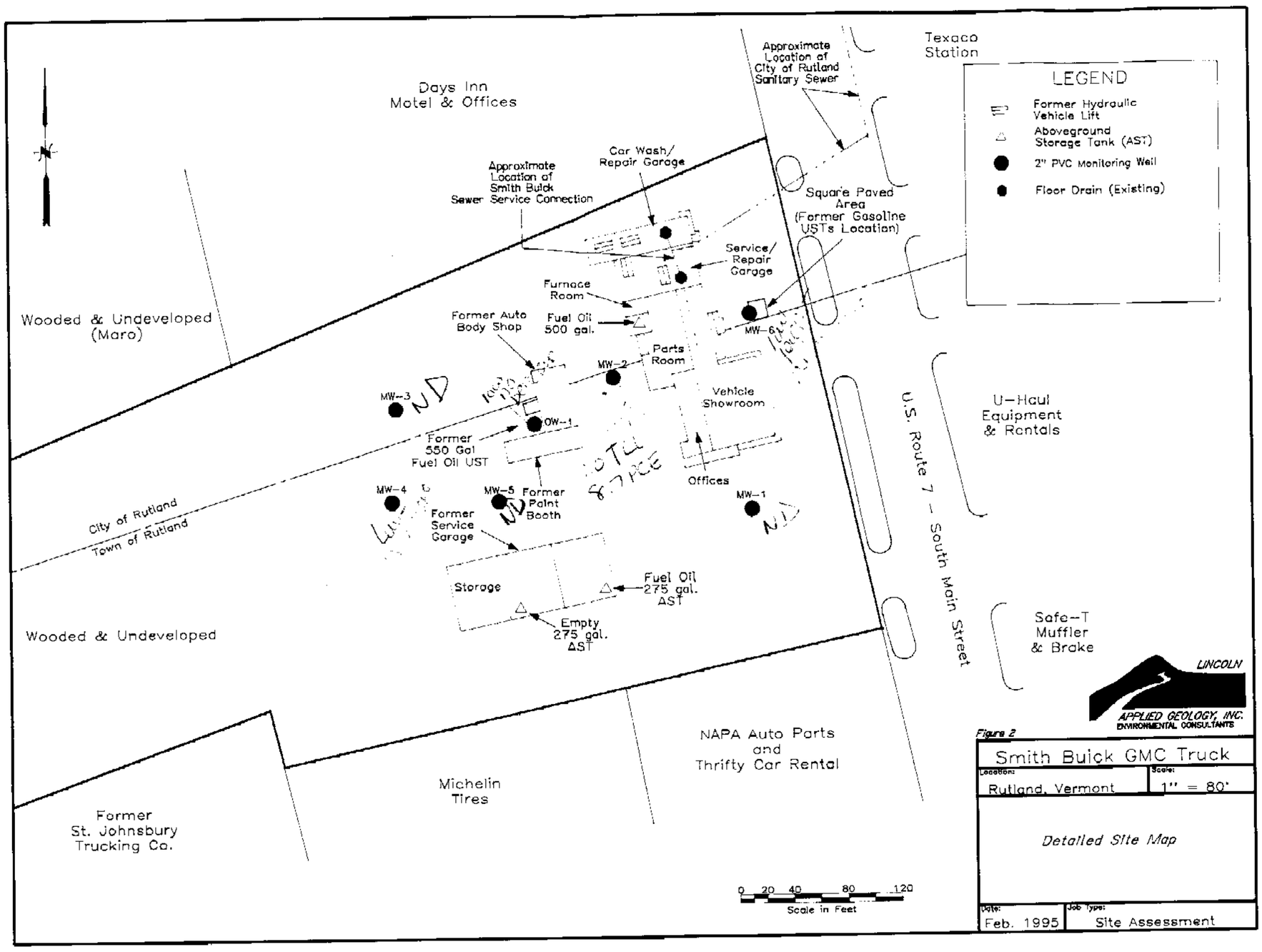
NOTES:
MTBE in upper right corner of cell
BTEX in lower left corner of cell
< - Contaminant not detected at specified detection limit

Smith Buick GMC Truck
GENERAL LOCATION MAP



Source: U.S.G.S. 7.5 min. Topo Series Rutland, VT Quad.

Scale: 1" = 2000'


Days Inn
Motel & Offices
Approximate Location of City of Rutland Sanitary Sewer
Texaco Station
LEGEND
Former Hydraulic Vehicle Lift
Aboveground Storage Tank (AST)
2" PVC Monitoring Well
Floor Drain (Existing)
Approximate Location of Smith Buick Sewer Service Connection
Car Wash/ Repair Garage
Square Paved Area (Former Gasoline USTs Location)
Service/ Repair Garage
Furnace Room
Former Auto Body Shop
Fuel Oil 500 gal.
Parts Room
MW-6
MW-2
MW-3
ND
OW-1
Vehicle Showroom
Former 550 Gal Fuel Oil UST
Offices
MW-4
MW-5
Former Paint Booth
Former Service Garage
MW-1
Storage
Fuel Oil 275 gal. AST
Empty 275 gal. AST
Wooded & Undeveloped (Maro)
City of Rutland
Town of Rutland
Wooded & Undeveloped
U-Haul Equipment & Rentals
U.S. Route 7 - South Main Street
Safe-T Muffler & Brake
NAPA Auto Parts and Thrifty Car Rental
Michelin Tires
Former St. Johnsbury Trucking Co.
0 20 40 80 120
Scale in Feet
LINCOLN
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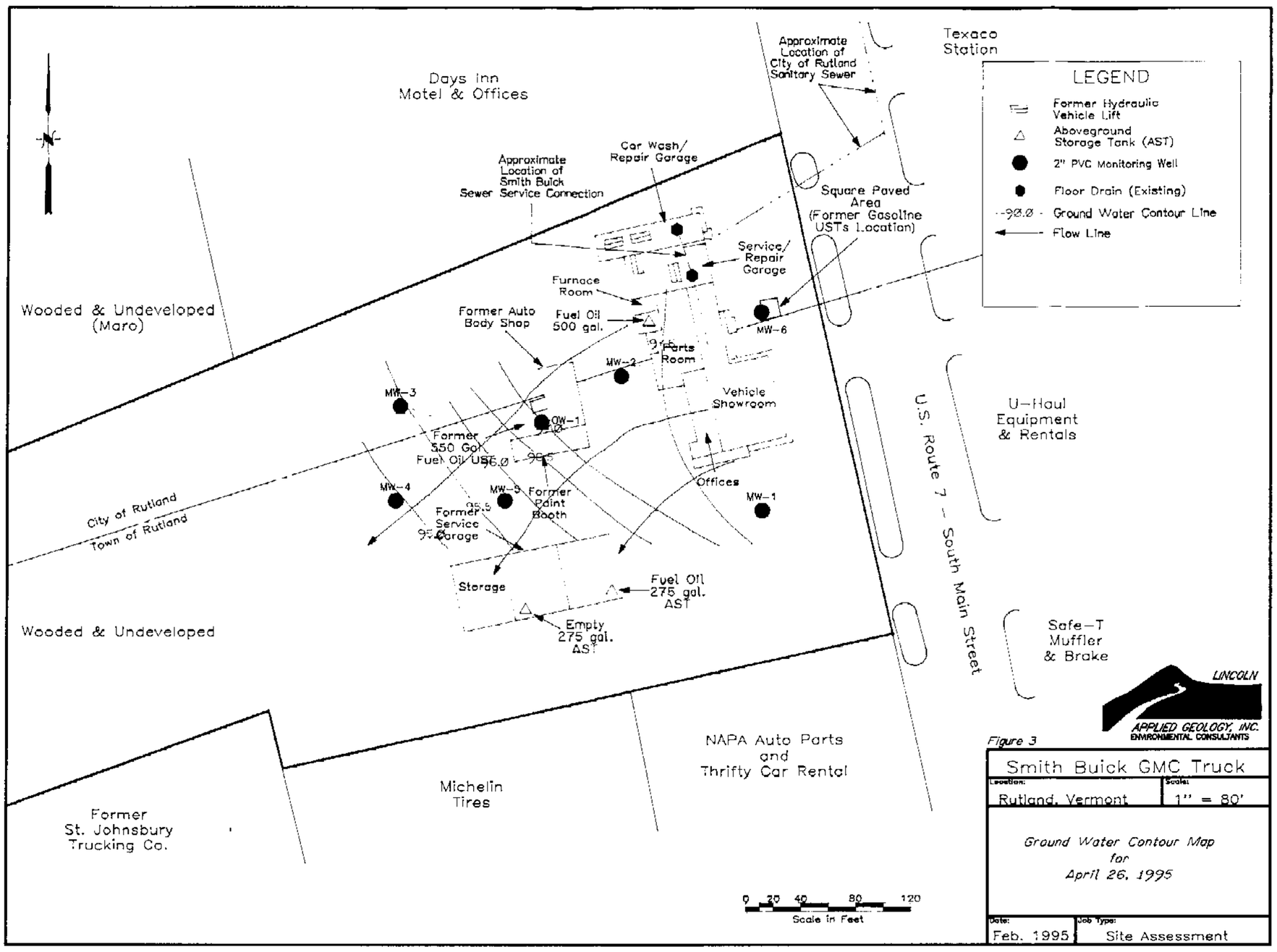
ENVIRONMENTAL CONSULTANTS
Figure 2
Smith Buick GMC Truck
Location: Rutland, Vermont
Scale: 1" = 80'
Detailed Site Map
Date: Feb. 1995
Job Type: Site Assessment


Days Inn
Motel & Offices
Approximate Location of City of Rutland Sanitary Sewer
Texaco Station
Approximate Location of Smith Buick Sewer Service Connection
Car Wash/ Repair Garage
Square Paved Area (Former Gasoline USTs Location)
Service/ Repair Garage
Furnace Room
Former Auto Body Shop
Fuel Oil 500 gal.
MW-6
Parts Room
MW-2
MW-3
Vehicle Showroom
OW-1
Former 550 Gal Fuel Oil UST
Offices
MW-4
MW-5
Former Paint Booth
MW-1
Former Service Garage
Storage
Fuel Oil 275 gal. AST
Empty 275 gal. AST
Wooded & Undeveloped (Maro)
City of Rutland
Town of Rutland
Wooded & Undeveloped
U-Haul Equipment & Rentals
U.S. Route 7 - South Main Street
Safe-T Muffler & Brake
NAPA Auto Parts and Thrifty Car Rental
Michelin Tires
Former St. Johnsbury Trucking Co.
LEGEND
Former Hydraulic Vehicle Lift
Aboveground Storage Tank (AST)
2" PVC Monitoring Well
Floor Drain (Existing)
Ground Water Contour Line
Flow Line
0 20 40 80 120
Scale in Feet
LINCOLN
APPLIED GEOLOGY, INC.
ENVIRONMENTAL CONSULTANTS
Figure 3
Smith Buick GMC Truck
Location: Rutland, Vermont
Scale: 1" = 80'
Ground Water Contour Map for April 26, 1995
Date: Feb. 1995
Job Type: Site Assessment

Appendix A

MAV Laboratory Reports for April 26, 1995

LABORATORY ANALYSIS

CLIENT NAME:	Lincoln Applied Geology	REF #:	11085
ADDRESS:	RD#1, Box 710	PROJECT NO.:	not given
	Bristol, VT 05443		
SAMPLE LOCATION:	Smith Buick	DATE OF SAMPLE:	4/26/95
SAMPLER:	Jim Holman	DATE OF RECEIPT:	4/26/95
		DATE OF ANALYSIS:	5/10, 5/11, 5/13/95
ATTENTION:	John Amadon/Bill Norland	DATE OF REPORT:	5/16/95

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. The trip blank was prepared by the client from reagent water supplied by the laboratory.
- Specimens were processed and examined according to the procedures outlined in the specified method.
- Holding times were honored, except for sample SW-1, which was analyzed three (3) times and two of the analysis were one (1) and two (2) days beyond hold time.
- 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 analytes to all samples, standards, and blanks. Surrogate recoveries were found to be within laboratory QA/QC acceptance limits, unless noted otherwise.

Reviewed by:

Denise E. Bouchard

Director, Chemical Services

MicroAssays of Vermont, Inc. P.O. Box 189 Middlesex, Vermont 05602 (802) 223-1468 FAX 223-8688

LABORATORY REPORT

CLIENT NAME:	Lincoln Applied Geology	PROJECT CODE:	not given
PROJECT NAME:	Smith Buick	REF.#:	11085
REPORT DATE:	May 16, 1995	STATION:	MW-1
DATE SAMPLED:	April 26, 1995	TIME SAMPLED:	09:10
DATE RECEIVED:	April 26, 1995	SAMPLER:	Jim Holman
ANALYSIS DATE:	May 10, 1995	SAMPLE TYPE:	Water

EPA METHOD 8260

PARAMETERS	PQL	µg/L
Benzene	1	ND
Bromobenzene	1	ND
Bromochloromethane	1	ND
Bromodichloromethane	1	ND
Bromoform	1	ND
Bromomethane	1	ND
n-Butylbenzene	1	ND
sec-Butylbenzene	1	ND
tert-Butylbenzene	1	ND
Carbon tetrachloride	1	ND
Chlorobenzene	1	ND
Chloroethane	1	ND
Chloroform	1	ND
Chloromethane	1	ND
2-Chlorotoluene	1	ND
4-Chlorotoluene	1	ND
1,2-Dibromo-3-chloropropane	1	ND
Dibromochloromethane	1	ND
1,2-Dibromoethane	1	ND
Dibromomethane	1	ND
1,2-Dichlorobenzene	1	ND
1,3-Dichlorobenzene	1	ND
1,4-Dichlorobenzene	1	ND
Dichlorodifluoromethane	1	ND
1,1-Dichloroethane	1	ND
1,2-Dichloroethane	1	ND
1,1-Dichloroethylene	1	ND
cis-1,2-Dichloroethylene	1	ND
trans-1,2-Dichloroethylene	1	ND
1,2-Dichloropropane	1	ND
1,3-Dichloropropane	1	ND
2,2-Dichloropropane	1	ND
1,1-Dichloropropene	1	ND

PARAMETERS	PQL	µg/L
Ethylbenzene	1	ND
Hexachlorobutadiene	1	ND
Isopropylbenzene	1	ND
p-Isopropyltoluene	1	ND
Methylene Chloride	1	ND
Methyl-t-butyl ether	1	ND
Naphthalene	1	ND
n-Propylbenzene	1	ND
Styrene	1	ND
1,1,1,2-Tetrachloroethane	1	ND
1,1,2,2-Tetrachloroethane	1	ND
Tetrachloroethylene	1	ND
Toluene	1	ND
1,2,3-Trichlorobenzene	1	ND
1,2,4-Trichlorobenzene	1	ND
1,1,1-Trichloroethane	1	ND
1,1,2-Trichloroethane	1	ND
Trichloroethylene	1	ND
Trichlorofluoromethane	1	ND
1,2,3-Trichloropropane	1	ND
1,2,4-Trimethylbenzene	1	ND
1,3,5-Trimethylbenzene	1	ND
Vinyl Chloride	1	ND
o-Xylene	1	ND
m+p-Xylene	2	ND

Surrogate:	
Dibromofluoromethane	98.4%
Toluene-D8	105%
4-Bromofluorobenzene	100%

ND-Not Detected
Concentration units = µg/L

MicroAssays of Vermont, Inc. P.O. Box 189 Middlesex, Vermont 05602 (802) 223-1468 FAX 223-8688

LABORATORY REPORT

CLIENT NAME:	Lincoln Applied Geology	PROJECT CODE:	not given
PROJECT NAME:	Smith Buick	REF.#:	11085
REPORT DATE:	May 16, 1995	STATION:	MW-2
DATE SAMPLED:	April 26, 1995	TIME SAMPLED:	09:26
DATE RECEIVED:	April 26, 1995	SAMPLER:	Jim Holman
ANALYSIS DATE:	May 10, 1995	SAMPLE TYPE:	Water

EPA METHOD 8260

PARAMETERS	PQL	µg/L
Benzene	1	ND
Bromobenzene	1	ND
Bromochloromethane	1	ND
Bromodichloromethane	1	ND
Bromoform	1	ND
Bromomethane	1	ND
n-Butylbenzene	1	ND
sec-Butylbenzene	1	ND
tert-Butylbenzene	1	ND
Carbon tetrachloride	1	ND
Chlorobenzene	1	ND
Chloroethane	1	ND
Chloroform	1	ND
Chloromethane	1	ND
2-Chlorotoluene	1	ND
4-Chlorotoluene	1	ND
1,2-Dibromo-3-chloropropane	1	ND
Dibromochloromethane	1	ND
1,2-Dibromoethane	1	ND
Dibromomethane	1	ND
1,2-Dichlorobenzene	1	ND
1,3-Dichlorobenzene	1	ND
1,4-Dichlorobenzene	1	ND
Dichlorodifluoromethane	1	ND
1,1-Dichloroethane	1	ND
1,2-Dichloroethane	1	ND
1,1-Dichloroethylene	1	ND
cis-1,2-Dichloroethylene	1	ND
trans-1,2-Dichloroethylene	1	ND
1,2-Dichloropropane	1	ND
1,3-Dichloropropane	1	ND
2,2-Dichloropropane	1	ND
1,1-Dichloropropene	1	ND

PARAMETERS	PQL	µg/L
Ethylbenzene	1	ND
Hexachlorobutadiene	1	ND
Isopropylbenzene	1	ND
p-Isopropyltoluene	1	ND
Methylene Chloride	1	ND
Methyl-t-butyl ether	1	1.5
Naphthalene	1	ND
n-Propylbenzene	1	ND
Styrene	1	ND
1,1,1,2-Tetrachloroethane	1	ND
1,1,2,2-Tetrachloroethane	1	ND
Tetrachloroethylene	1	8.7
Toluene	1	ND
1,2,3-Trichlorobenzene	1	ND
1,2,4-Trichlorobenzene	1	ND
1,1,1-Trichloroethane	1	ND
1,1,2-Trichloroethane	1	ND
Trichloroethylene	1	1.0
Trichlorofluoromethane	1	ND
1,2,3-Trichloropropane	1	ND
1,2,4-Trimethylbenzene	1	ND
1,3,5-Trimethylbenzene	1	ND
Vinyl Chloride	1	ND
o-Xylene	1	ND
m+p-Xylene	2	ND

Surrogate:	
Dibromofluoromethane	99.2%
Toluene-D8	104%
4-Bromofluorobenzene	100%

ND-Not Detected
Concentration units = µg/L

MicroAssays of Vermont, Inc. P.O. Box 189 Middlesex, Vermont 05602 (802) 223-1468 FAX 223-8688

LABORATORY REPORT

CLIENT NAME:	Lincoln Applied Geology	PROJECT CODE:	not given
PROJECT NAME:	Smith Buick	REF.#:	11085
REPORT DATE:	May 16, 1995	STATION:	MW-3
DATE SAMPLED:	April 26, 1995	TIME SAMPLED:	09:40
DATE RECEIVED:	April 26, 1995	SAMPLER:	Jim Holman
ANALYSIS DATE:	May 10, 1995	SAMPLE TYPE:	Water

EPA METHOD 8260

PARAMETERS	PQL	µg/L
Benzene	1	ND
Bromobenzene	1	ND
Bromochloromethane	1	ND
Bromodichloromethane	1	ND
Bromoform	1	ND
Bromomethane	1	ND
n-Butylbenzene	1	ND
sec-Butylbenzene	1	ND
tert-Butylbenzene	1	ND
Carbon tetrachloride	1	ND
Chlorobenzene	1	ND
Chloroethane	1	ND
Chloroform	1	ND
Chloromethane	1	ND
2-Chlorotoluene	1	ND
4-Chlorotoluene	1	ND
1,2-Dibromo-3-chloropropane	1	ND
Dibromochloromethane	1	ND
1,2-Dibromoethane	1	ND
Dibromomethane	1	ND
1,2-Dichlorobenzene	1	ND
1,3-Dichlorobenzene	1	ND
1,4-Dichlorobenzene	1	ND
Dichlorodifluoromethane	1	ND
1,1-Dichloroethane	1	ND
1,2-Dichloroethane	1	ND
1,1-Dichloroethylene	1	ND
cis-1,2-Dichloroethylene	1	ND
trans-1,2-Dichloroethylene	1	ND
1,2-Dichloropropane	1	ND
1,3-Dichloropropane	1	ND
2,2-Dichloropropane	1	ND
1,1-Dichloropropene	1	ND

PARAMETERS	PQL	µg/L
Ethylbenzene	1	ND
Hexachlorobutadiene	1	ND
Isopropylbenzene	1	ND
p-Isopropyltoluene	1	ND
Methylene Chloride	1	ND
Methyl-t-butyl ether	1	ND
Naphthalene	1	ND
n-Propylbenzene	1	ND
Styrene	1	ND
1,1,1,2-Tetrachloroethane	1	ND
1,1,2,2-Tetrachloroethane	1	ND
Tetrachloroethylene	3	ND
Toluene	1	ND
1,2,3-Trichlorobenzene	1	ND
1,2,4-Trichlorobenzene	1	ND
1,1,1-Trichloroethane	1	ND
1,1,2-Trichloroethane	1	ND
Trichloroethylene	1	ND
Trichlorofluoromethane	1	ND
1,2,3-Trichloropropane	1	ND
1,2,4-Trimethylbenzene	1	ND
1,3,5-Trimethylbenzene	1	ND
Vinyl Chloride	1	ND
o-Xylene	1	ND
m+p-Xylene	2	ND

Surrogate:	
Dibromofluoromethane	100%
Toluene-D8	104%
4-Bromofluorobenzene	101%

ND-Not Detected
Concentration units = µg/L

MicroAssays of Vermont, Inc. P.O. Box 189 Middlesex, Vermont 05602 (802) 223-1468 FAX 223-8688

LABORATORY REPORT

CLIENT NAME:	Lincoln Applied Geology	PROJECT CODE:	not given
PROJECT NAME:	Smith Buick	REF.#:	11085
REPORT DATE:	May 16, 1995	STATION:	MW-4
DATE SAMPLED:	April 26, 1995	TIME SAMPLED:	10:07
DATE RECEIVED:	April 26, 1995	SAMPLER:	Jim Holman
ANALYSIS DATE:	May 10, 1995	SAMPLE TYPE:	Water

EPA METHOD 8260

PARAMETERS	PQL	µg/L
Benzene	1	ND
Bromobenzene	1	ND
Bromochloromethane	1	ND
Bromodichloromethane	1	ND
Bromoform	1	ND
Bromomethane	1	ND
n-Butylbenzene	1	1.2
sec-Butylbenzene	1	ND
tert-Butylbenzene	1	ND
Carbon tetrachloride	1	ND
Chlorobenzene	1	ND
Chloroethane	1	ND
Chloroform	1	ND
Chloromethane	1	ND
2-Chlorotoluene	1	5.7
4-Chlorotoluene	1	2.2
1,2-Dibromo-3-chloropropane	1	ND
Dibromochloromethane	1	ND
1,2-Dibromoethane	1	ND
Dibromomethane	1	ND
1,2-Dichlorobenzene	1	ND
1,3-Dichlorobenzene	1	ND
1,4-Dichlorobenzene	1	ND
Dichlorodifluoromethane	1	ND
1,1-Dichloroethane	1	ND
1,2-Dichloroethane	1	ND
1,1-Dichloroethylene	1	ND
cis-1,2-Dichloroethylene	1	ND
trans-1,2-Dichloroethylene	1	ND
1,2-Dichloropropane	1	ND
1,3-Dichloropropane	1	ND
2,2-Dichloropropane	1	ND
1,1-Dichloropropene	1	ND

PARAMETERS	PQL	µg/L
Ethylbenzene	1	25
Hexachlorobutadiene	1	ND
Isopropylbenzene	1	1.9
p-Isopropyltoluene	1	ND
Methylene Chloride	1	ND
Methyl-t-butyl ether	1	ND
Naphthalene	1	6.9
n-Propylbenzene	1	5.3
Styrene	1	ND
1,1,1,2-Tetrachloroethane	1	ND
1,1,2,2-Tetrachloroethane	1	ND
Tetrachloroethylene	1	ND
Toluene	1	4.2
1,2,3-Trichlorobenzene	1	ND
1,2,4-Trichlorobenzene	1	ND
1,1,1-Trichloroethane	1	ND
1,1,2-Trichloroethane	1	ND
Trichloroethylene	1	ND
Trichlorofluoromethane	1	ND
1,2,3-Trichloropropane	1	ND
1,2,4-Trimethylbenzene	1	62
1,3,5-Trimethylbenzene	1	20
Vinyl Chloride	1	ND
o-Xylene	1	61
m+p-Xylene	2	ND

Surrogate:	
Dibromofluoromethane	99.6%
Toluene-D8	104%
4-Bromofluorobenzene	98.7%

ND-Not Detected

Concentration units = µg/L

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LABORATORY REPORT

CLIENT NAME:	Lincoln Applied Geology	PROJECT CODE:	not given
PROJECT NAME:	Smith Buick	REF.#:	11085
REPORT DATE:	May 16, 1995	STATION:	MW-5
DATE SAMPLED:	April 26, 1995	TIME SAMPLED:	09:55
DATE RECEIVED:	April 26, 1995	SAMPLER:	Jim Holman
ANALYSIS DATE:	May 10, 1995	SAMPLE TYPE:	Water

EPA METHOD 8260

PARAMETERS	PQL	µg/L
Benzene	1	ND
Bromobenzene	1	ND
Bromochloromethane	1	ND
Bromodichloromethane	1	ND
Bromoform	1	ND
Bromomethane	1	ND
n-Butylbenzene	1	ND
sec-Butylbenzene	1	ND
tert-Butylbenzene	1	ND
Carbon tetrachloride	1	ND
Chlorobenzene	1	ND
Chloroethane	1	ND
Chloroform	1	ND
Chloromethane	1	ND
2-Chlorotoluene	1	ND
4-Chlorotoluene	1	ND
1,2-Dibromo-3-chloropropane	1	ND
Dibromochloromethane	1	ND
1,2-Dibromoethane	1	ND
Dibromomethane	1	ND
1,2-Dichlorobenzene	1	ND
1,3-Dichlorobenzene	1	ND
1,4-Dichlorobenzene	1	ND
Dichlorodifluoromethane	1	ND
1,1-Dichloroethane	1	ND
1,2-Dichloroethane	1	ND
1,1-Dichloroethylene	1	ND
cis-1,2-Dichloroethylene	1	ND
trans-1,2-Dichloroethylene	1	ND
1,2-Dichloropropane	1	ND
1,3-Dichloropropane	1	ND
2,2-Dichloropropane	1	ND
1,1-Dichloropropene	1	ND

PARAMETERS	PQL	µg/L
Ethylbenzene	1	ND
Hexachlorobutadiene	1	ND
Isopropylbenzene	1	ND
p-Isopropyltoluene	1	ND
Methylene Chloride	1	ND
Methyl-t-butyl ether	1	ND
Naphthalene	1	ND
n-Propylbenzene	1	ND
Styrene	1	ND
1,1,1,2-Tetrachloroethane	1	ND
1,1,2,2-Tetrachloroethane	1	ND
Tetrachloroethylene	3	ND
Toluene	1	ND
1,2,3-Trichlorobenzene	1	ND
1,2,4-Trichlorobenzene	1	ND
1,1,1-Trichloroethane	1	ND
1,1,2-Trichloroethane	1	ND
Trichloroethylene	1	ND
Trichlorofluoromethane	1	ND
1,2,3-Trichloropropane	1	ND
1,2,4-Trimethylbenzene	1	ND
1,3,5-Trimethylbenzene	1	ND
Vinyl Chloride	1	ND
o-Xylene	1	ND
m+p-Xylene	2	ND

Surrogate:	
Dibromofluoromethane	98.6%
Toluene-D8	104%
4-Bromofluorobenzene	101%

ND-Not Detected
Concentration units = µg/L

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LABORATORY REPORT

CLIENT NAME:	Lincoln Applied Geology	PROJECT CODE:	not given
PROJECT NAME:	Smith Buick	REF.#:	11085
REPORT DATE:	May 16, 1995	STATION:	MW-6
DATE SAMPLED:	April 26, 1995	TIME SAMPLED:	10:15
DATE RECEIVED:	April 26, 1995	SAMPLER:	Jim Holman
ANALYSIS DATE:	May 10, 1995	SAMPLE TYPE:	Water

EPA METHOD 8260

PARAMETERS	PQL	µg/L
Benzene	25	ND
Bromobenzene	25	ND
Bromochloromethane	25	ND
Bromodichloromethane	25	ND
Bromoform	25	ND
Bromomethane	25	ND
n-Butylbenzene	25	ND
sec-Butylbenzene	25	ND
tert-Butylbenzene	25	ND
Carbon tetrachloride	25	ND
Chlorobenzene	25	ND
Chloroethane	25	ND
Chloroform	25	ND
Chloromethane	25	ND
2-Chlorotoluene	25	ND
4-Chlorotoluene	25	ND
1,2-Dibromo-3-chloropropane	25	ND
Dibromochloromethane	25	ND
1,2-Dibromoethane	25	ND
Dibromomethane	25	ND
1,2-Dichlorobenzene	25	ND
1,3-Dichlorobenzene	25	ND
1,4-Dichlorobenzene	25	ND
Dichlorodifluoromethane	25	ND
1,1-Dichloroethane	25	ND
1,2-Dichloroethane	25	ND
1,1-Dichloroethylene	25	ND
cis-1,2-Dichloroethylene	25	ND
trans-1,2-Dichloroethylene	25	ND
1,2-Dichloropropane	25	ND
1,3-Dichloropropane	25	ND
2,2-Dichloropropane	25	ND
1,1-Dichloropropene	25	ND

PARAMETERS	PQL	µg/L
Ethylbenzene	25	27
Hexachlorobutadiene	25	ND
Isopropylbenzene	25	ND
p-Isopropyltoluene	25	ND
Methylene Chloride	25	ND
Methyl-t-butyl ether	25	ND
Naphthalene	25	ND
n-Propylbenzene	25	ND
Styrene	25	ND
1,1,1,2-Tetrachloroethane	25	ND
1,1,2,2-Tetrachloroethane	25	ND
Tetrachloroethylene	25	ND
Toluene	25	250
1,2,3-Trichlorobenzene	25	ND
1,2,4-Trichlorobenzene	25	ND
1,1,1-Trichloroethane	25	ND
1,1,2-Trichloroethane	25	ND
Trichloroethylene	25	ND
Trichlorofluoromethane	25	ND
1,2,3-Trichloropropane	25	ND
1,2,4-Trimethylbenzene	25	ND
1,3,5-Trimethylbenzene	25	ND
Vinyl Chloride	25	ND
o-Xylene	25	410
m+p-Xylene	50	910

Surrogate:	
Dibromofluoromethane	101%
Toluene-D8	105%
4-Bromofluorobenzene	99.6%

ND-Not Detected

Concentration units = µg/L

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LABORATORY REPORT

CLIENT NAME:	Lincoln Applied Geology	PROJECT CODE:	not given
PROJECT NAME:	Smith Buick	REF.#:	11085
REPORT DATE:	May 16, 1995	STATION:	OW-1
DATE SAMPLED:	April 26, 1995	TIME SAMPLED:	10:30
DATE RECEIVED:	April 26, 1995	SAMPLER:	Jim Holman
ANALYSIS DATE:	May 10, 11 & 12, 1995	SAMPLE TYPE:	Water

EPA METHOD 8260

PARAMETERS	PQL	µg/L
Benzene	1	ND
Bromobenzene	1	ND
Bromochloromethane	1	ND
Bromodichloromethane	1	ND
Bromoform	1	ND
Bromomethane	1	ND
n-Butylbenzene	1	ND
sec-Butylbenzene	1	ND
tert-Butylbenzene	1	1.3
Carbon tetrachloride	1	ND
Chlorobenzene	1	ND
Chloroethane	1	ND
Chloroform	1	ND
Chloromethane	1	ND
2-Chlorotoluene	1	1.3
4-Chlorotoluene	1	ND
1,2-Dibromo-3-chloropropane	1	ND
Dibromochloromethane	1	ND
1,2-Dibromoethane	1	ND
Dibromomethane	1	ND
1,2-Dichlorobenzene	1	ND
1,3-Dichlorobenzene	1	ND
1,4-Dichlorobenzene	1	ND
Dichlorodifluoromethane	1	ND
1,1-Dichloroethane	1	ND
1,2-Dichloroethane	1	ND
1,1-Dichloroethylene	1	ND
cis-1,2-Dichloroethylene	1	ND
trans-1,2-Dichloroethylene	1	ND
1,2-Dichloropropane	1	ND
1,3-Dichloropropane	1	ND
2,2-Dichloropropane	1	ND
1,1-Dichloropropene	1	ND

PARAMETERS	PQL	µg/L
Ethylbenzene	1	110
Hexachlorobutadiene	1	ND
Isopropylbenzene	1	ND
p-Isopropyltoluene	1	ND
Methylene Chloride	1	ND
Methyl-t-butyl ether	1	ND
Naphthalene	1	2.9
n-Propylbenzene	1	ND
Styrene	1	ND
1,1,1,2-Tetrachloroethane	1	ND
1,1,2,2-Tetrachloroethane	1	ND
Tetrachloroethylene	2	ND
Toluene	1	980
1,2,3-Trichlorobenzene	1	5.3
1,2,4-Trichlorobenzene	1	ND
1,1,1-Trichloroethane	1	ND
1,1,2-Trichloroethane	1	ND
Trichloroethylene	1	ND
Trichlorofluoromethane	1	ND
1,2,3-Trichloropropane	1	ND
1,2,4-Trimethylbenzene	1	9.6
1,3,5-Trimethylbenzene	1	5.3
Vinyl Chloride	1	ND
o-Xylene	1	1500
m+p-Xylene	2	3100

Surrogate:	
Dibromofluoromethane	99.0%
Toluene-D8	105%
4-Bromofluorobenzene	97.3%

ND-Not Detected

Concentration units = µg/L

*Note: This sample was analyzed three times at three different dilutions. The tabulated results represent the concentrations that were within the calib range of the instrument. The 10x and 1x dilutions were analyzed, one (1) and two (2) days beyond hold times.

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LABORATORY REPORT

CLIENT NAME:	Lincoln Applied Geology	PROJECT CODE:	not given
PROJECT NAME:	Smith Buick	REF.#:	11085
REPORT DATE:	May 16, 1995	STATION:	Trip Blank
DATE SAMPLED:	April 26, 1995	TIME SAMPLED:	08:00
DATE RECEIVED:	April 26, 1995	SAMPLER:	Jim Holman
ANALYSIS DATE:	May 10, 1995	SAMPLE TYPE:	Water

EPA METHOD 8260

PARAMETERS	PQL	µg/L
Benzene	1	ND
Bromobenzene	1	ND
Bromochloromethane	1	ND
Bromodichloromethane	1	ND
Bromoform	1	ND
Bromomethane	1	ND
n-Butylbenzene	1	ND
sec-Butylbenzene	1	ND
tert-Butylbenzene	1	ND
Carbon tetrachloride	1	ND
Chlorobenzene	1	ND
Chloroethane	1	ND
Chloroform	1	ND
Chloromethane	1	ND
2-Chlorotoluene	1	ND
4-Chlorotoluene	1	ND
1,2-Dibromo-3-chloropropane	1	ND
Dibromochloromethane	1	ND
1,2-Dibromoethane	1	ND
Dibromomethane	1	ND
1,2-Dichlorobenzene	1	ND
1,3-Dichlorobenzene	1	ND
1,4-Dichlorobenzene	1	ND
Dichlorodifluoromethane	1	ND
1,1-Dichloroethane	1	ND
1,2-Dichloroethane	1	ND
1,1-Dichloroethylene	1	ND
cis-1,2-Dichloroethylene	1	ND
trans-1,2-Dichloroethylene	1	ND
1,2-Dichloropropane	1	ND
1,3-Dichloropropane	1	ND
2,2-Dichloropropane	1	ND
1,1-Dichloropropene	1	ND

PARAMETERS	PQL	µg/L
Ethylbenzene	1	ND
Hexachlorobutadiene	1	ND
Isopropylbenzene	1	ND
p-Isopropyltoluene	1	ND
Methylene Chloride	1	1.9
Methyl-t-butyl ether	1	ND
Naphthalene	1	ND
n-Propylbenzene	1	ND
Styrene	1	ND
1,1,1,2-Tetrachloroethane	1	ND
1,1,2,2-Tetrachloroethane	1	ND
Tetrachloroethylene	1	ND
Toluene	1	ND
1,2,3-Trichlorobenzene	1	ND
1,2,4-Trichlorobenzene	1	ND
1,1,1-Trichloroethane	1	ND
1,1,2-Trichloroethane	1	ND
Trichloroethylene	1	ND
Trichlorofluoromethane	1	ND
1,2,3-Trichloropropane	1	ND
1,2,4-Trimethylbenzene	1	ND
1,3,5-Trimethylbenzene	1	ND
Vinyl Chloride	1	ND
o-Xylene	1	ND
m+p-Xylene	2	ND

Surrogate:	
Dibromofluoromethane	97.7%
Toluene-D8	104%
4-Bromofluorobenzene	100%

ND-Not Detected

Concentration units = µg/L

CHAIN OF CUSTODY RECORD

MicroAssays of Vermont
RR#3 Box 5210 P.O. Box 189
Montpelier, VT 05602
Ph. (802)223-1468 Fax (802)223-8688

CLIENT NAME: LINCOLN APPLIED GEOLOGY
ADDRESS: RD1 BOX 710 BRISTOL VT 05443
PROJECT NAME: SMITH BUICK
PROJECT NUMBER:
PROJECT MANAGER: BILL N
SAMPLER: ~~JAMES R~~ JIM HOLMAN

Page 1 of 1

MAV # 11085

ANALYSIS REQUESTED: 8260

Sample Location	Date	Time	# of cont	pres end	Sample Type		REMARKS:
TRIP	4/26/95	800	2	HCL	40 mill	✓	
MW-1	4/26/95	910	2	HCL	40 mill	✓	
MW-2	4/26/95	926	2	HCL	40 mill	✓	
MW-3	4/26/95	940	2	HCL	40 mill	✓	
MW-5	4/26/95	955	2	HCL	40 mill	✓	
MW-4	4/26/95	10:07	2	HCL	40 mill	✓	
MW-6	4/26/95	10:15	2	HCL	40 mill	✓	
OW-1	4/26/95	1030	2	HCL	40 mill	✓	

Relinquished by:	Received by:	Date/Time	Relinquished by:	Received by:	Date/Time
James Rodi	[signature]	4/26/95 12:00			