GeoLogic

GeoLogic NY, Inc. P.O. Box 5080 • Cortland, NY 13045 • 607.836.4400 • Fax: 607.836.4403

July 19, 2000

Mr. Brian Kradjian
Kradjian Properties
84 Court Street, Suite 600
Binghamton, NY 13901-3316

Reference: Former Vail-Ballou Press, Inc.
187 Clinton Street
Binghamton, New York

Dear Mr. Kradjian:

This letter report presents the results of the Limited Phase II Environmental Site Assessment conducted at the above referenced site. The work was conducted to permit the formulation of an opinion as to adverse impact(s) to the subject site from prior uses and surrounding land use. The purpose of conducting the ESA work is to reduce, not eliminate, the risk of Kradjian Properties, purchasing a site that is contaminated with hazardous materials or petroleum products as defined by the State of New York. The opinions expressed by GeoLogic, NY, Inc. (GeoLogic) regarding the conditions of the site will be based solely on the observations made and the data collected during the study. Kradjian Properties is hereby advised that conditions observed by GeoLogic are subject to change. Certain indicators of the presence of hazardous materials or petroleum products may not have been evident at the time the site work was completed and may subsequently become observable. Not finding such indicators does not mean that hazardous materials or petroleum products do not exist at the site.

The opinions regarding the environmental integrity of the site do not represent a warranty that all areas within the study area are of the same quality. GeoLogic is not able to represent that the site is free of hazardous materials or petroleum products beyond that detected by GeoLogic during the study.

Problems have arisen in the past because people and organizations have assumed, improperly, that they could rely on an ESA report developed for another party. So there is no confusion in this respect, recognize that Kradjian Properties is the only intended beneficiary of this work. With the consent of Kradjian Properties, GeoLogic will be available to contract with other parties to develop findings and opinions related to such other parties' unique risk management concerns.

BACKGROUND

The site had been used for industrial purposes dating back to at least 1898.

Sanborn fire insurance maps indicate that the site has been used for industrial purposes dating back at least to 1898. The site may have been adversely impacted by the prior industrial processes at the site.

The site may have been occupied by a gasoline station (Clinton Street area).

Sanborn fire insurance maps indicate that a former gas station was located on Clinton Street, immediately north of the site. Petroleum contamination from this former gas station could also have or had an adverse impact on the site.

Leaking drums and barrels of materials were noted by Broome County Health Department personnel in the basement of the former Vail-Ballou building.

A February 1995 Environmental Site Assessment report for the site was reviewed (prepared by Enviro-Testing). The building was being used for storage of computer supplies and an automobile repair business. The report pointed out that "numerous drums, containers, temporary mixing vats, etc...still on site, some corroded and leaking unknown materials". The New York State Industrial Chemical Survey listed the following materials used by Vail-Ballou at the site: developing chemicals, diazo solutions, activators, stabilizers and fixers as part of photo processing.

A portion of the site was used as an automobile repair business. Possible injection wells were noted in the area of the repair business.

A February 1995 Environmental Site Assessment report for the site was reviewed (prepared by Enviro-Testing). The report identified possible Class V injection wells. Some of the injection wells were identified in an area being used to repair automobiles and a concern of oil, gas or antifreeze entering the wells was discussed.

Possible PCB-containing transformers were noted at the facility (as described in the Environmental Site Assessment prepared by Enviro Testing in February 1995).

The February 1995 Environmental Site Assessment report for the site was reviewed (prepared by Enviro-Testing). The report discussed the presence of possible PCB-containing transformers.

Fill ports for underground storage tanks were noted at the northwest corner of the former building (as described in the Environmental Site Assessment prepared by Enviro Testing in February 1995).

The February 1995 Environmental Site Assessment report for the site was reviewed (prepared by Enviro-Testing). The report mentions the presence of three underground storage tank fill ports at the northwest corner of the former building. The location and status of these tanks was not discussed further in the report. The observations reported by Enviro-Testing could have an adverse impact on the site.

A petroleum spill was reported beneath Hudson Street (adjacent to site) and there was a former chemical off-loading rack adjacent to the site. Soil gas samples obtained by others west of the site had reportable concentrations of methylene chloride.

Information in a Broome County Health Department (BCHD) file indicates that petroleum product lines located beneath Hudson Street were leaking oil in 1971. Oil was reportedly entering a manhole and observed on the ground surface. These lines apparently brought product from a property located immediately west of Hudson Street to the site. The product was stored in four buried railroad cars. Limited tank closure activities for the railroad cars were conducted in May 1996 and free product was observed in the soil adjacent to these tanks. Mr. John Okesson of the New York State Department of Environmental Conservation (NYSDEC) has indicated that these railroad car petroleum storage tanks were not closed out properly. Mr. Okesson also indicated that the NYSDEC is pursuing enforcement action to force the investigation and/or clean up of petroleum from these railroad cars. Mr. Okesson stated there is some mention in the Deed of Vail-Ballou being responsible for these railroad cars.

SCOPE OF SERVICES

The scope of services conducted at the site, based on the above background information, was as follows:

Utilized a drill rig to obtain soil samples and install 2-inch PVC monitoring wells. The borings were located around the perimeter of the former building foundation. MW-1 is located on the northern portion of the site, approximately 100 feet south of the intersection of Clinton and Charles Streets; MW-2 is located on the western portion of the site, near the railroad trestle along Jarvis Street and MW-3 is located on the southeastern portion of the site near the intersection of Hudson Street and Slauson Avenue;

Obtained soil samples, at five-(5) foot intervals, from each boring and screened the samples in the field for volatiles with a photo-ionization detector (PID);

Obtained depth to water measurements and a groundwater sample from each well;

Submitted the groundwater samples for analysis for one or more of the following: volatile organics by EPA Method 8260, semi-volatile organics by EPA Method 8270 for NYSDEC STARS parameters and RCRA Metals;

Established the location and elevations of the monitoring wells relative to the existing site features;

Observed the removal of three underground storage tanks (UST's) from the property;

Observed the UST's being removed from the ground;

Obtained soil samples from the tank pit excavations and screened the samples in the field for volatile organic compounds with a photo-ionization detector (PID). Soil samples were submitted for laboratory analysis of volatiles (STARS 8021 parameters) and/or semi-volatiles (STARS 8270 parameters);

Backfilled the excavation with the excavated soil from around the UST's;

Prepared this report summarizing the findings of the work, including the subsurface and well construction details, and analytical results.

FINDINGS

Soil Borings and Monitoring Well Installation:

The monitoring wells (MW-1, MW-2 and MW-3) were installed on May 8, 2000 and May 9, 2000. Groundwater samples were obtained on May 9, 2000 and May 30, 2000. Mr. John Okesson, NYSDEC, was on site and approved the monitoring well locations. The monitoring well locations are shown on Drawing No. 1 – Site Plan.

For the purposes of evaluating the subsurface soils at the site, soil samples were obtained at 5-foot intervals in borings MW-1, MW-2 and MW-3 from the ground surface to their terminus. PID readings ranged from 0 to 4 ppm in the soil samples obtained from the borings. Two-inch PVC monitoring wells were installed in each of the borings. The drilling and monitoring well installation methodologies are attached.

The soils at the site generally consisted of fill (sand and gravel with brick, ash and cinders), underlain by sand and gravel with little to trace silt. The Subsurface Logs are attached.

Groundwater Sampling:

Groundwater samples were obtained from monitoring wells MW-1, MW-2 and MW-3 at two sampling events. The first sampling event occurred on May 9, 2000; the second event occurred on May 30, 2000.

On May 9, 2000, groundwater samples were obtained from the newly installed monitoring wells (MW-1, MW-2, and MW-3). The groundwater samples were submitted for analysis of volatile organics by EPA Method 8260, semi-volatile organics by EPA Method 8270 for NYSDEC STARS parameters and RCRA Metals. The groundwater sampling methodologies are attached.

The analytical results for the groundwater samples obtained from MW-1, MW-2 and MW-3 on May 9, 2000, were below laboratory detection limits and/or NYSDEC Ambient Water

Quality Standards and Guidance Values for groundwater for the volatile and semi-volatile organics. Copies of the laboratory results are attached.

NYSDEC Ambient Water Quality Standards and Guidance Values for groundwater were exceeded for one or more of the RCRA Metals in monitoring wells MW-1, MW-2 and MW-3 (see attached Table). We believe that this was due to the short time period the monitoring wells had to stabilize before being sampled. Therefore, monitoring wells MW-1, MW-2 and MW-3 were scheduled to be re-sampled on May 30, 2000.

On May 30, 2000, groundwater samples were obtained from monitoring wells (MW-1, MW-2, and MW-3) and submitted for analysis of RCRA Metals.

The analytical results for the groundwater samples obtained from MW-1, MW-2 and MW-3 on May 30, 2000, were below laboratory detection limits and/or NYSDEC Ambient Water Quality Standards and Guidance Values for groundwater for the RCRA Metals (Table No. 1). Copies of the laboratory results are attached.

Water table elevations measured in the monitoring wells on May 30, 2000 are shown on Drawing No. 1. The depth to water ranged from 12.47 feet in MW-2 to 18.52 feet in MW-3. Based on these groundwater elevations, the groundwater flow appears to be eastward.

Underground Storage Tank Removal:

The three UST's were removed from the site on July 6, 2000 (Drawing No. 1). Mr. John Okesson, NYSDEC, was on site to observe the removal of the three UST's. After the UST's were removed and soils samples were obtained and scanned with a PID the NYSDEC agreed to place the excavated soil from around the UST's back onto the excavation.

Composite soil samples were obtained from the bottom and sidewall of the fuel oil / naphtha UST test pit excavation and the gasoline UST test pit excavation. The composite soil samples were analyzed for volatile organics by EPA Method 8021 for NYSDEC STARS parameters, and/or semi-volatile organics by EPA Method 8270 for NYSDEC STARS parameters.

The analytical results for the composite soil samples obtained from the fuel oil / naphtha UST test pit and the composite soil sample obtained from the gasoline UST test pit on July 6, 2000, were below laboratory detection limits and/or NYSDEC STARS Guidance Values. See the attached tank pull report for more detail.

According to the NYSDEC records, the three UST's referenced in this report had not been registered as required by the NYSDEC. Therefore, the UST's need to be registered with the NYSDEC, and then officially closed out.

If you have any questions concerning this Limited Subsurface Evaluation Report, please do not hesitate to call us at (607) 836-4400.

Sincerely,

GeoLogic NY, Inc.

Joseph L. Nossal/jpo

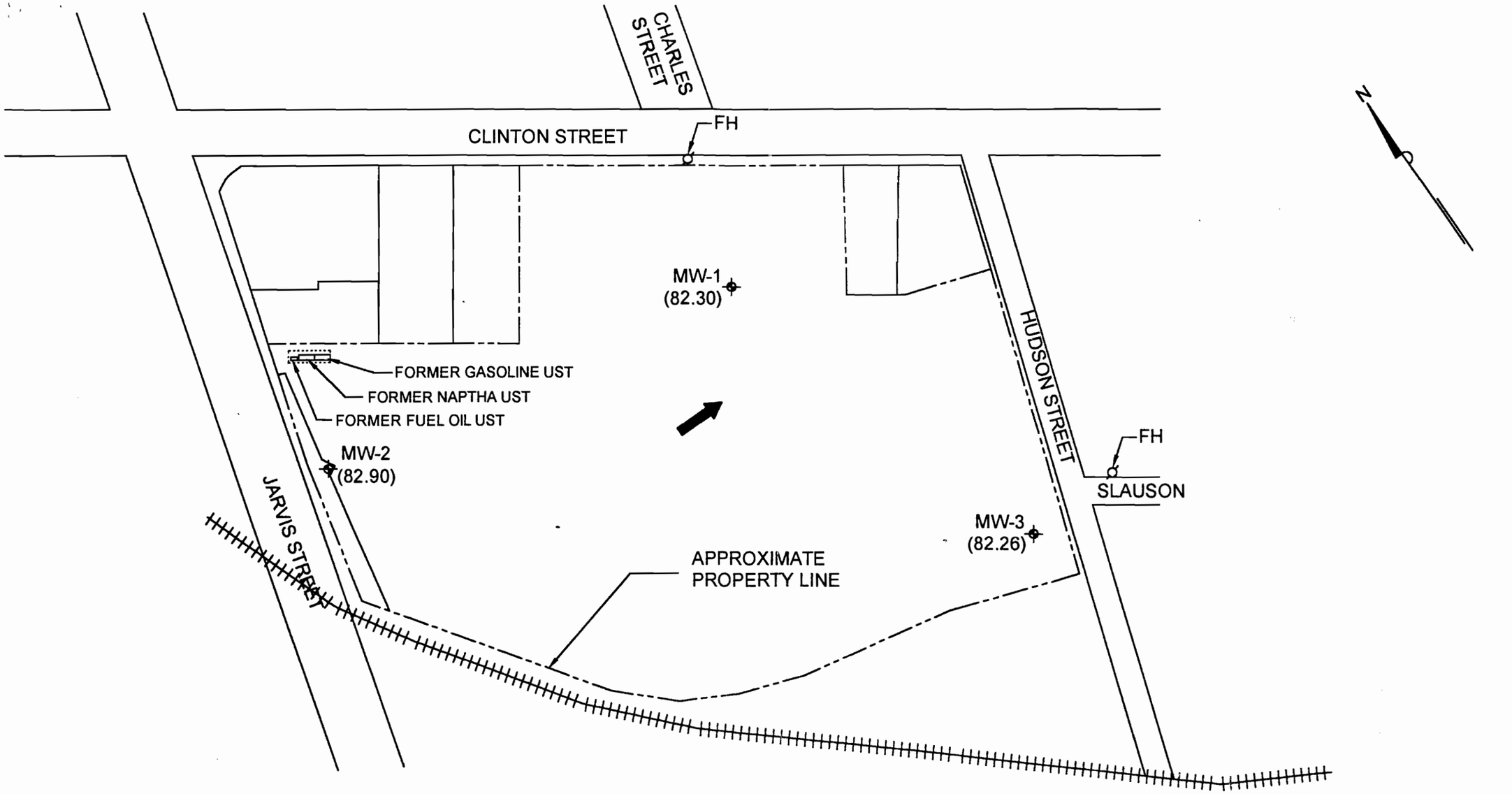
Joseph L. Nossal
Hydrogeologist

Forrest C. Earl

Forrest C. Earl
Vice President/Principal Hydrogeologist

Enc: Site Map, Metals Analytical Table, Analytical Results, Subsurface Logs (with Key), Methodologies and Tank Pull Report

cc: John Okesson, NYSDEC
Thomas Suozzo, NYSDEC
File: ..200048/report/Limited Phase II Evaluation



LEGEND

- MONITORING WELL LOCATION
- FH = FIRE HYDRANT
- (82.30) GROUNDWATER ELEVATION (FT.) FOR 5/30/00
- DIRECTION OF GROUNDWATER FLOW

APPROX. SCALE

0' 25' 50' 100'

GeoLogic

GeoLogic NY, Inc.

SITE PLAN
187 CLINTON STREET
BINGHAMTON, NEW YORK

DR. BY:	SCALE:	PROJ. NO:
JLN/SDW	AS SHOWN	200048
REVD BY:	DATE:	DRWG. NO:
	MAY 2000	1

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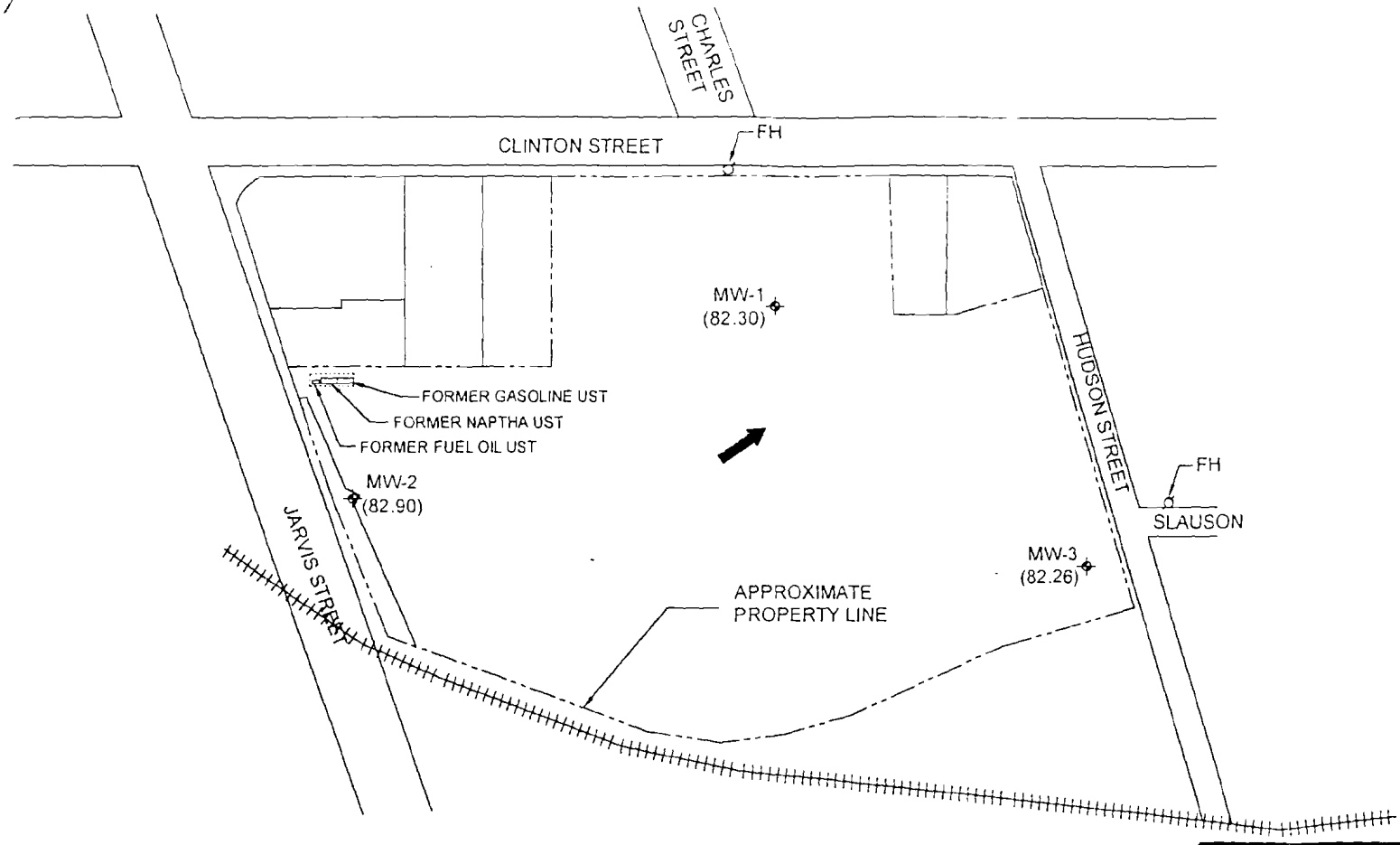

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187 CLINTON STREET
BINGHAMTON, NEW YORK

DR. BY:	SCALE:	PROJ. NO:
JLN/SDW	AS SHOWN	200048
REVD BY:	DATE:	DRWG. NO:
	MAY 2000	1

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Table No. 1

Former Vail-Ballou
187 Clinton Street
Binghamton, NY

Total Metals - Unfiltered

Metals in Groundwater	NYSDEC Standards/GV mg/L (ppm)	05/09/2000 MW-1 mg/L	05/30/2000 MW-1 mg/L	05/09/2000 MW-2 mg/L	05/30/2000 MW-2 mg/L	05/09/2000 MW-3 mg/L	5/30/200 MW-3 mg/L
mercury	0.0007	0.0015	ND	0.0102	ND	0.0251	ND
arsenic	0.025	ND	ND	0.0378	ND	0.117	ND
barium	1.0	0.159	0.0829	3.85	ND	0.847	0.0816
cadmium	0.005	ND	ND	0.018	ND	0.027	ND
chromium	0.05	0.0168	ND	0.322	ND	0.609	ND
lead	0.025	0.0342	0.00538	2.43	ND	0.894	0.00557
selenium	0.01	ND	ND	ND	ND	ND	ND
silver	0.05	ND	ND	ND	ND	ND	ND

Exceeds NYSDEC Standards / Guidance Values

North Star Drilling
P. O. Box 67
Cortland, New York 13045
(607) 753-8820

KEY TO SUBSURFACE LOG

Boring No.: B-1
Project No.: 200001
Date Started: 1/31/00
Date Completed: 1/31/00
Sheet 1 of 1

Project:
Location:

Reference Elevation: 100.0

Depth (ft.)	Sample No.	Type	SPT Blows	N-Value	Recovery (ft.)	PID Reading (ppm)	MATERIAL DESCRIPTION	REMARKS
0							Ground Surface	Water level at 2.0' with augers at 7.5'.
1	1	ss	1 2 2 1	4	2.0	32	Brown SILT, Some fine-coarse Sand, trace clay, moist-loose	At completion water level at 2.2' with augers at 10.0'.
2	2						Gray SHALE, medium hard weathered, thin bedded, some fractures	Run #1: 3.0'-5.0' 95% Recovery, 50% RQD

1 2 3 4 5 6 7 8 9 10

TABLE I

Identification of soil type is made on basis of an estimate of particle sizes, and in the case of fine-grained soils also on basis of plasticity.

Soil Type		Soil Particle	
Boulder		> 12"	
Cobble		12" - 3"	
Gravel	- Coarse	3" - 3/4"	Coarse Grained
	- Fine	3/4" - #4	(Granular)
Sand	- Coarse	#4 - #10	
	- Medium	#10 - #40	
	- Fine	#40 - #200	
Silt-Non Plastic (Granular)		< #200	Fine Grained
Clay-Plastic (Cohesive)			

TABLE II

The following terms are used in classifying soils consisting of mixtures of two or more soil types. The estimate is based on weight of total sample.

Term	Percent of Total Sample
"and"	35 - 50
"some"	20 - 35
"little"	10 - 20
"trace"	1 - 10

(When sampling gravelly soils with a standard split spoon, the true percentage of gravel is often not recovered due to the relatively small sampler diameter.)

TABLE III

The relative compactness or consistency is described in accordance with the following terms.

Granular Soils		Cohesive Soils	
Term	Blows per Foot, N	Term	Blows per Foot, N
Loose	< 11	Very Soft	< 2
Firm	11 - 30	Soft	2 - 4
Compact	31 - 50	Medium	4 - 8
Very Compact	> 51	Stiff	8 - 15
		Very Stiff	15 - 30
		Hard	>30

(Large particles in the soils will often significantly influence the blows per foot recorded during the Penetration Test.)

TABLE IV

Stratified Soils	
Descriptive Term	Thickness
Parting	- 0" - 1/16"
Seam	- 1/16" - 1/2"
Layer	- 1/2" - 12"
Stratum	- >12"
Varved Clay	- Alternating seams or layers of sand, silt & clay
Pocket	- small, erratic deposit, usually <12"
Lens	- lenticular deposit
Occasional	- one or less per foot of thickness
Frequent	- more than one per foot of thickness

North Star Drilling
P.O. Box 67
Cortland, NY 13045
607-756-8820
607-753-9911 (fax)

SUBSURFACE LOG

Boring No.: MW-1
Project No.: 200048
Date Started: 5-8-00
Date Completed: 5-8-00
Page 1 of 1
Reference Elevation: 98.22

Project: Former Vail-Ballou
Location:187 Clinton St. Binghamton NY

Depth (ft)	Number	SPT Blows (6")	N-Value	Recovery (ft)	MATERIAL DESCRIPTION	PID Readings (ppm)	Well Detail	Remarks
0					Ground Surface			
1	1	50 50-.4		0.5	FILL: Brown SAND and GRAVEL, trace silt very compact, moist	0		Curb Box with locking cap in Concrete
2								Auger cuttings 2.0' - 4.5'
3								
4								2" dia. PVC Riser 0'-10'
5								
6	2	7 8 50-.4		0.8	similar	0		Bentonite Seal, 4.5'-7.5'
7								
8								
9								
10								Sandpack 7.5'-25'
11	3	8 50-.4		0.9	Brown SAND and GRAVEL, trace silt very compact, moist-wet	0		
12								
13								
14								2" dia. PVC Well Screen,
15								10'-25', 0.020" slot size
16	4	35 25 16 12	41	1.6	similar	0		
17								
18								
19								
20								
21	5	3 3 5 4	8	1.1	washed GRAVEL, loose-saturated	0		
22								
23								At completion, water at 17.7',
24								augers at 25'.
25					End of Borehole			
26								
27								

Sampling Method: ASTM D-1586
Notes: 4 1/4" I.D. Hollow Stem Augers

Visually Classified: J. Nossal
File: 200048/tech/ MW1

North Star Drilling

P.O. Box 67
Cortland, NY 13045
607-756-8820
607-753-9911 (fax)

SUBSURFACE LOG

Boring No.: MW-2
Project No.: 200048
Date Started: 5-8-00
Date Completed: 5-8-00
Page 1 of 1
Reference Elevation: 95.37

Project: Former Vail-Ballou
Location:187 Clinton St. Binghamton NY

Depth (ft)	Number	SPT Blows (6")	N-Value	Recovery (ft)	MATERIAL DESCRIPTION	PID Readings (ppm)	Well Detail	Remarks
0					Ground Surface			
1	1	2 3 7 16	10	1.0	FILL: Brick, Cinders, Ash, with SAND and GRAVEL, moist	0		Curb Box with locking cap in Concrete
5	2	7 30 36 22	66	1.6	Brown SAND and GRAVEL, trace silt, compact, moist	0		Auger Cuttings 2.0' - 5.0' 2" dia. PVC Riser 0'-10'
10	3	38 38 27 30	65	1.8	Brown SAND and GRAVEL, trace silt, compact, moist	0		Bentonite Seal, 5.0'-8.0' Sandpack 8.0'-20.0'
15	4	3 6 19 8	25	0.1	similar, saturated	0		2" dia. PVC Well Screen, 10.0'-20.0', 0.020" slot size
20	5	12 7 7 8	14	1.7	similar, saturated	0		
22					End of Borehole			At completion, water at 15.2', augers at 20.0'.

Sampling Method: ASTM D-1586
Notes: 4 1/4" I.D. Hollow Stem Augers

Visually Classified: J. Nossal
File: 200048/tech/ MW2

North Star Drilling
P.O. Box 67
Cortland, NY 13045
607-756-8820
607-753-9911 (fax)

SUBSURFACE LOG

Boring No.: MW-3
Project No.: 200048
Date Started: 5-8-00
Date Completed: 5-8-00

Reference Elevation: 100.78

Project: Former Vail-Ballou
Location:187 Clinton St. Binghamton NY

Depth (ft)	Number	SPT Blows (6")	N-Value	Recovery (ft)	MATERIAL DESCRIPTION	PID Readings (ppm)	Well Detail	Remarks
0					Ground Surface			
1					FILL: Brick, Cinders, SAND and GRAVEL, auger cuttings			Curb Box with locking cap in Concrete
2								
3								
4								
5								Auger cuttings, 2.0' - 9.5'
6	1	11 7 25 50-.1	32	0.7	FILL: Cinders, SAND and GRAVEL, brick, moist	4		
7								
8								
9								
10								Bentonite Seal, 9.5'-12.5'
11	2	11 50-.4		0.9	Brown SAND and GRAVEL, little-trace silt, moist	3		
12								2" dia. PVC Riser 0'-10'
13								
14								Sandpack 9.5'-25.0'
15								
16	3	35 50 40 49	90	1.8	similar, very compact, moist	4		2" dia. PVC Well Screen, 15.0'-25.0', 0.020" slot size
17								
18								
19								
20								
21	4	16 30 15 15	45	1.6	similar, saturated at 21'	3		
22								
23								At completion, water at 20.0', augers at 25.0'.
24								
25					End of Borehole			
26								
27								

Sampling Method: ASTM D-1586
Notes: 4 1/4" I.D. Hollow Stem Augers

Visually Classified: J. Nossal
File: 200048/tech/ MW3

DRILLING METHODOLOGY

SOIL BORINGS

Borings were advanced using 4¼-inch I.D. hollow stem augers.

Representative samples of the overburden were obtained by driving a 2-inch OD split spoon sampler into the soil, through and beneath the augers, using a 140-pound hammer free-falling 30 inches (ASTM D 1586).

The soil samples were classified in the field by the geologist.

The drilling equipment was steam cleaned before starting work at the site and between each boring to minimize the possibility of cross contamination.

The Subsurface Logs attached to this report presents the observations and mechanical data collected at the site, supplemented by classification of material removed from the borings as determined through visual identification. It is cautioned that the materials removed from the borings represent only a fraction of the total volume of the deposits at the site and may not necessarily be representative of the subsurface conditions between adjacent borings or between the sampled intervals. The data presented on the Subsurface Logs, together with the recovered samples, will provide a basis for evaluating the character of the subsurface conditions relative to the project. The evaluation must consider all the recorded details and their significance relative to each other. Often the analysis of boring data indicate the need for additional testing or sampling procedures to more adequately evaluate the subsurface conditions. Any evaluation of the contents of this report and the recovered samples must be performed by knowledgeable Professionals.

MONITORING WELL CONSTRUCTION

A water table monitoring well was installed in each boring. The well screen was positioned to straddle the water table at the time of installation.

The monitoring wells are constructed of 2-inch diameter PVC well pipe. The well screens are 10 feet to 15-feet long and have 0.020-inch size slots.

A medium grade sand pack was placed around the wells 2 to 4 feet above the top of the well screen. A 2 to 4-foot bentonite seal was placed above the sand pack to minimize the vertical migration of contaminants into the well. The remainder of the borehole was backfilled with natural material.

Locking caps and flushed mounted curb boxes were placed on the wells to protect the well.

SURVEY METHODOLOGY

The locations of the monitoring wells were determined by taped measurements from existing site structures.

Elevations of the monitoring wells were determined by differential leveling.

A temporary bench mark was established and assigned an elevation of 100.00.

The temporary benchmark was top nut of the fire hydrant located on south side of Clinton Street across from Charles Street.

GROUNDWATER SAMPLING METHODOLOGY

WATER LEVEL MEASUREMENTS

All water levels were referenced to the top of the well casing.

Water levels were measured with a water level indicator to the nearest 0.01 foot.

The water level indicator was rinsed with distilled water between each well.

GROUNDWATER SAMPLES

Groundwater samples were obtained utilizing new-dedicated bailers and new polypropylene rope.

Prior to obtaining groundwater samples, at least three well volumes were purged from the wells, or until the wells were purged dry.

Groundwater samples were placed in containers provided by the analytical laboratory and kept chilled until delivery to the laboratory.

A chain of custody was maintained throughout sampling and delivery of the samples to the laboratory.

B U C K
ENVIRONMENTAL LABORATORIES, INC.
accredited environmental analysis

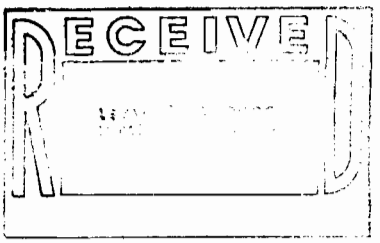
Report Date: *25-May-00*
Lab Log No: 0005141

CLIENT: GEOLOGIC NY, INC
PO BOX 5080
CORTLAND, NY 130455080

Client Sample ID: MW-1
Sampled By: J. N.
Collection Date: 05/09/00
Received at Lab: 05/10/00
Matrix: AQUEOUS

Project: 200048
Lab ID: 0005141-01A

Analyses	CAS	DF	PQL	Result	Units	Qual
STARS SEMIVOLATILES BY EPA 8270		Analyst: **JK**	Analysis Date: **05/22/00**			
Acenaphthene	83-32-9	1	10	ND	µg/L	
Acenaphthylene	208-96-8	1	10	ND	µg/L	
Anthracene	120-12-7	1	10	ND	µg/L	
Benz(a)anthracene	56-55-3	1	10	ND	µg/L	
Benzo(a)pyrene	50-32-8	1	10	ND	µg/L	
Benzo(b)fluoranthene	205-99-2	1	10	ND	µg/L	
Benzo(g,h,i)perylene	191-24-2	1	10	ND	µg/L	
Benzo(k)fluoranthene	207-08-9	1	10	ND	µg/L	
Chrysene	218-01-9	1	10	ND	µg/L	
Dibenz(a,h)anthracene	53-70-3	1	10	ND	µg/L	
Fluoranthene	206-44-0	1	10	ND	µg/L	
Fluorene	86-73-7	1	10	ND	µg/L	
Indeno(1,2,3-cd)pyrene	193-39-5	1	10	ND	µg/L	
Naphthalene	91-20-3	1	10	ND	µg/L	
Phenanthrene	85-01-8	1	10	ND	µg/L	
Pyrene	129-00-0	1	10	ND	µg/L	
Surr: 2-Fluorobiphenyl	321-60-8	1	10-102.8	45.6	%REC	
Surr: Nitrobenzene-d5	4165-60-0	1	10-111.7	53.9	%REC	
Surr: Terphenyl-d14	98904-43-9	1	10-156.4	47.0	%REC	



This laboratory analysis has been performed in accordance with generally accepted laboratory practices and requirements of the New York State Department of Health ELAP Program. Buck Environmental Laboratories, Inc. makes no recommendations, representations or warranties other than as specifically set forth in this report and shall not be responsible or liable for any action or the consequences of any action taken in connection with this report.

NYSDOH ELAP #10795

John H. Buck, P.E.
Laboratory Director

Abbreviations:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Est., Value exceeds quantitation range
H - Est., Holding time exceedance

3821 Buck Drive, Cortland, NY 13045-5150
Tel 607.753.3403 Fax 607.753.3415

B U C K
ENVIRONMENTAL LABORATORIES, INC.
accredited environmental analysis

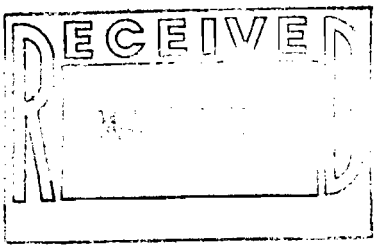
Report Date: *25-May-00*
Lab Log No: 0005141

CLIENT: GEOLOGIC NY, INC
PO BOX 5080
CORTLAND, NY 130455080

Client Sample ID: MW-1
Sampled By: J. N.
Collection Date: 05/09/00
Received at Lab: 05/10/00
Matrix: AQUEOUS

Project: 200048
Lab ID: 0005141-01B

Analyses	CAS	DF	PQL	Result	Units	Qual
MERCURY, TOTAL		Analyst: **MB**	Analysis Date: **05/22/00**			
Mercury	7439-97-6	1	0.000400	**0.00150**	mg/L	
METALS BY ICP		Analyst: **MB**	Analysis Date: **05/24/00**			
Arsenic	7440-38-2	1	0.0250	**ND**	mg/L	
Barium	7440-39-3	1	0.0450	**0.159**	mg/L	
Cadmium	7440-43-9	1	0.00500	**ND**	mg/L	
Chromium	7440-47-3	1	0.00500	**0.0168**	mg/L	
Lead	7439-92-1	1	0.00500	**0.0342**	mg/L	
Selenium	7782-49-2	1	0.0200	**ND**	mg/L	
Silver	7440-22-4	1	0.0150	**ND**	mg/L	



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NYSDOH ELAP #10795

John H. Buck, P.E.
Laboratory Director

Abbreviations:
ND - Not Detected at the Reporting Limit
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PO BOX 5080
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Client Sample ID: MW-1
Sampled By: J. N.
Collection Date: 05/09/00
Received at Lab: 05/10/00
Matrix: AQUEOUS

Project: 200048
Lab ID: 0005141-01C

Analyses	CAS	DF	PQL	Result	Units	Qual
GC/MS VOLATILES BY EPA 8260		Analyst: **PI**	Analysis Date: **05/16/00**			
Acetone	67-64-1	1	25	ND	µg/L	
Benzene	71-43-2	1	5.0	ND	µg/L	
Bromobenzene	108-86-1	1	5.0	ND	µg/L	
Bromochloromethane	74-97-5	1	5.0	ND	µg/L	
Bromodichloromethane	75-27-4	1	5.0	ND	µg/L	
Bromoform	75-25-2	1	5.0	ND	µg/L	
Bromomethane	74-83-9	1	5.0	ND	µg/L	
2-Butanone	78-93-3	1	25	ND	µg/L	
n-Butylbenzene	104-51-8	1	5.0	ND	µg/L	
sec-Butylbenzene	135-98-8	1	5.0	ND	µg/L	
tert-Butylbenzene	98-06-6	1	5.0	ND	µg/L	
Carbon disulfide	75-15-0	1	5.0	ND	µg/L	
Carbon tetrachloride	56-23-5	1	5.0	ND	µg/L	
Chlorobenzene	108-90-7	1	5.0	ND	µg/L	
Chloroethane	75-00-3	1	5.0	ND	µg/L	
2-Chloroethyl vinyl ether	110-75-8	1	5.0	ND	µg/L	
Chloroform	67-66-3	1	5.0	ND	µg/L	
Chloromethane	74-87-3	1	5.0	ND	µg/L	
2-Chlorotoluene	95-49-8	1	5.0	ND	µg/L	
4-Chlorotoluene	106-43-4	1	5.0	ND	µg/L	
1,2-Dibromo-3-chloropropane	96-12-8	1	5.0	ND	µg/L	
Dibromochloromethane	124-48-1	1	5.0	ND	µg/L	
1,2-Dibromoethane	106-93-4	1	5.0	ND	µg/L	
Dibromomethane	74-95-3	1	5.0	ND	µg/L	
1,2-Dichlorobenzene	95-50-1	1	5.0	ND	µg/L	
1,3-Dichlorobenzene	541-73-1	1	5.0	ND	µg/L	
1,4-Dichlorobenzene	106-46-7	1	5.0	ND	µg/L	
Dichlorodifluoromethane	75-71-8	1	5.0	ND	µg/L	
1,1-Dichloroethane	75-34-3	1	5.0	ND	µg/L	

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Client Sample ID: MW-1
Sampled By: J. N.
Collection Date: 05/09/00
Received at Lab: 05/10/00
Matrix: AQUEOUS

Project: 200048
Lab ID: 0005141-01C

Analyses	CAS	DF	PQL	Result	Units	Qual
1,2-Dichloroethane	107-06-2	1	5.0	ND	µg/L	
1,1-Dichloroethene	75-35-4	1	5.0	ND	µg/L	
cis-1,2-Dichloroethene	156-59-2	1	5.0	ND	µg/L	
trans-1,2-Dichloroethene	156-60-5	1	5.0	ND	µg/L	
1,2-Dichloropropane	78-87-5	1	5.0	ND	µg/L	
1,3-Dichloropropane	142-28-9	1	5.0	ND	µg/L	
2,2-Dichloropropane	590-20-7	1	5.0	ND	µg/L	
cis-1,3-Dichloropropene	10061-01-5	1	5.0	ND	µg/L	
trans-1,3-Dichloropropene	10061-02-6	1	5.0	ND	µg/L	
Hexachlorobutadiene	87-68-3	1	5.0	ND	µg/L	
Ethylbenzene	100-41-4	1	5.0	ND	µg/L	
1,1-Dichloropropene	563-58-6	1	5.0	ND	µg/L	
2-Hexanone	591-78-6	1	25	ND	µg/L	
Methylene chloride	75-09-2	1	5.0	ND	µg/L	
4-Isopropyltoluene	99-87-6	1	5.0	ND	µg/L	
Methyl tert-butyl ether	1634-04-4	1	5.0	ND	µg/L	
4-Methyl-2-pentanone	108-10-1	1	25	ND	µg/L	
n-Propylbenzene	103-65-1	1	5.0	ND	µg/L	
Styrene	100-42-5	1	5.0	ND	µg/L	
Isopropylbenzene	98-82-8	1	5.0	ND	µg/L	
Naphthalene	91-20-3	1	5.0	ND	µg/L	
1,1,1,2-Tetrachloroethane	630-20-6	1	5.0	ND	µg/L	
1,1,2,2-Tetrachloroethane	79-34-5	1	5.0	ND	µg/L	
Tetrachloroethene	127-18-4	1	5.0	ND	µg/L	
Toluene	108-88-3	1	5.0	ND	µg/L	
1,2,3-Trichlorobenzene	87-61-6	1	5.0	ND	µg/L	
1,2,4-Trichlorobenzene	120-82-1	1	5.0	ND	µg/L	
1,1,1-Trichloroethane	71-55-6	1	5.0	ND	µg/L	
Trichloroethene	79-01-6	1	5.0	ND	µg/L	
1,1,2-Trichloroethane	79-00-5	1	5.0	ND	µg/L	

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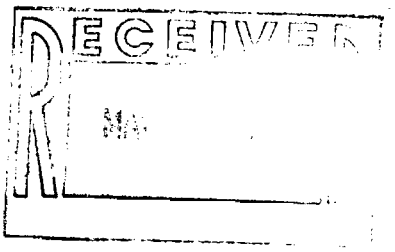
Report Date: *25-May-00*
Lab Log No: 0005141

CLIENT: GEOLOGIC NY, INC
PO BOX 5080
CORTLAND, NY 130455080

Client Sample ID: MW-1
Sampled By: J. N.
Collection Date: 05/09/00
Received at Lab: 05/10/00
Matrix: AQUEOUS

Project: 200048
Lab ID: 0005141-01C

Analyses	CAS	DF	PQL	Result	Units	Qual
1,2,3-Trichloropropane	96-18-4	1	5.0	ND	µg/L	
Trichlorofluoromethane	75-69-4	1	5.0	ND	µg/L	
1,2,4-Trimethylbenzene	95-63-6	1	5.0	ND	µg/L	
1,3,5-Trimethylbenzene	108-67-8	1	5.0	ND	µg/L	
Vinyl acetate	108-05-4	1	5.0	ND	µg/L	
Vinyl chloride	75-01-4	1	5.0	ND	µg/L	
m,p-Xylene	1330-20-7	1	10	ND	µg/L	
o-Xylene	95-47-6	1	5.0	ND	µg/L	
Surr: 4-Bromofluorobenzene	460-00-4	1	72.2-115.6	98.4	%REC	
Surr: Dibromofluoromethane	1868-53-7	1	82.7-126.6	106	%REC	
Surr: Toluene-d8	2037-26-5	1	83.8-114.2	102	%REC	



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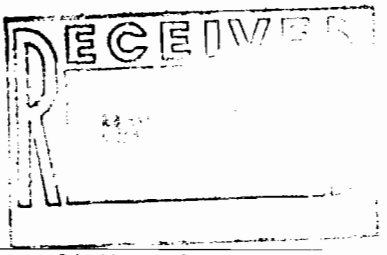
Report Date: *25-May-00*
Lab Log No: 0005141

CLIENT: GEOLOGIC NY, INC
PO BOX 5080
CORTLAND, NY 130455080

Client Sample ID: MW-2
Sampled By: J. N.
Collection Date: 05/09/00
Received at Lab: 05/10/00
Matrix: AQUEOUS

Project: 200048
Lab ID: 0005141-02A

Analyses	CAS	DF	PQL	Result	Units	Qual
STARS SEMIVOLATILES BY EPA 8270		Analyst: **JK**	Analysis Date: **05/22/00**			
Acenaphthene	83-32-9	1	10	ND	µg/L	
Acenaphthylene	208-96-8	1	10	ND	µg/L	
Anthracene	120-12-7	1	10	ND	µg/L	
Benz(a)anthracene	56-55-3	1	10	ND	µg/L	
Benzo(a)pyrene	50-32-8	1	10	ND	µg/L	
Benzo(b)fluoranthene	205-99-2	1	10	ND	µg/L	
Benzo(g,h,i)perylene	191-24-2	1	10	ND	µg/L	
Benzo(k)fluoranthene	207-08-9	1	10	ND	µg/L	
Chrysene	218-01-9	1	10	ND	µg/L	
Dibenz(a,h)anthracene	53-70-3	1	10	ND	µg/L	
Fluoranthene	206-44-0	1	10	ND	µg/L	
Fluorene	86-73-7	1	10	ND	µg/L	
Indeno(1,2,3-cd)pyrene	193-39-5	1	10	ND	µg/L	
Naphthalene	91-20-3	1	10	ND	µg/L	
Phenanthrene	85-01-8	1	10	ND	µg/L	
Pyrene	129-00-0	1	10	ND	µg/L	
Surr: 2-Fluorobiphenyl	321-60-8	1	10-102.8	30.0	%REC	
Surr: Nitrobenzene-d5	4165-60-0	1	10-111.7	34.1	%REC	
Surr: Terphenyl-d14	98904-43-9	1	10-156.4	40.8	%REC	



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Report Date: *25-May-00*
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CLIENT: GEOLOGIC NY, INC
PO BOX 5080
CORTLAND, NY 130455080

Client Sample ID: MW-2
Sampled By: J. N.
Collection Date: 05/09/00
Received at Lab: 05/10/00
Matrix: AQUEOUS

Project: 200048
Lab ID: 0005141-02B

Analyses	CAS	DF	PQL	Result	Units	Qual
MERCURY, TOTAL		Analyst: **MB**	Analysis Date: **05/22/00**			
Mercury	7439-97-6	10	0.00400	**0.0102**	mg/L	
METALS BY ICP		Analyst: **MB**	Analysis Date: **05/24/00**			
Arsenic	7440-38-2	1	0.0250	**0.0378**	mg/L	
Barium	7440-39-3	1	0.0450	**3.85**	mg/L	
Cadmium	7440-43-9	1	0.00500	**0.0180**	mg/L	
Chromium	7440-47-3	1	0.00500	**0.322**	mg/L	
Lead	7439-92-1	1	0.00500	**2.43**	mg/L	
Selenium	7782-49-2	1	0.0200	**ND**	mg/L	
Silver	7440-22-4	1	0.0150	**ND**	mg/L	

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Received at Lab: 05/10/00
Matrix: AQUEOUS

Project: 200048
Lab ID: 0005141-02C

Analyses	CAS	DF	PQL	Result	Units	Qual
GC/MS VOLATILES BY EPA 8260		Analyst: **PI**	Analysis Date: **05/16/00**			
Acetone	67-64-1	1	25	ND	µg/L	
Benzene	71-43-2	1	5.0	ND	µg/L	
Bromobenzene	108-86-1	1	5.0	ND	µg/L	
Bromochloromethane	74-97-5	1	5.0	ND	µg/L	
Bromodichloromethane	75-27-4	1	5.0	ND	µg/L	
Bromoform	75-25-2	1	5.0	ND	µg/L	
Bromomethane	74-83-9	1	5.0	ND	µg/L	
2-Butanone	78-93-3	1	25	ND	µg/L	
n-Butylbenzene	104-51-8	1	5.0	ND	µg/L	
sec-Butylbenzene	135-98-8	1	5.0	ND	µg/L	
tert-Butylbenzene	98-06-6	1	5.0	ND	µg/L	
Carbon disulfide	75-15-0	1	5.0	ND	µg/L	
Carbon tetrachloride	56-23-5	1	5.0	ND	µg/L	
Chlorobenzene	108-90-7	1	5.0	ND	µg/L	
Chloroethane	75-00-3	1	5.0	ND	µg/L	
2-Chloroethyl vinyl ether	110-75-8	1	5.0	ND	µg/L	
Chloroform	67-66-3	1	5.0	**5.3**	µg/L	
Chloromethane	74-87-3	1	5.0	ND	µg/L	
2-Chlorotoluene	95-49-8	1	5.0	ND	µg/L	
4-Chlorotoluene	106-43-4	1	5.0	ND	µg/L	
1,2-Dibromo-3-chloropropane	96-12-8	1	5.0	ND	µg/L	
Dibromochloromethane	124-48-1	1	5.0	ND	µg/L	
1,2-Dibromoethane	106-93-4	1	5.0	ND	µg/L	
Dibromomethane	74-95-3	1	5.0	ND	µg/L	
1,2-Dichlorobenzene	95-50-1	1	5.0	ND	µg/L	
1,3-Dichlorobenzene	541-73-1	1	5.0	ND	µg/L	
1,4-Dichlorobenzene	106-46-7	1	5.0	ND	µg/L	
Dichlorodifluoromethane	75-71-8	1	5.0	ND	µg/L	
1,1-Dichloroethane	75-34-3	1	5.0	ND	µg/L	

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Lab ID: 0005141-02C

Analyses	CAS	DF	PQL	Result	Units	Qual
1,2-Dichloroethane	107-06-2	1	5.0	ND	µg/L	
1,1-Dichloroethene	75-35-4	1	5.0	ND	µg/L	
cis-1,2-Dichloroethene	156-59-2	1	5.0	ND	µg/L	
trans-1,2-Dichloroethene	156-60-5	1	5.0	ND	µg/L	
1,2-Dichloropropane	78-87-5	1	5.0	ND	µg/L	
1,3-Dichloropropane	142-28-9	1	5.0	ND	µg/L	
2,2-Dichloropropane	590-20-7	1	5.0	ND	µg/L	
cis-1,3-Dichloropropene	10061-01-5	1	5.0	ND	µg/L	
trans-1,3-Dichloropropene	10061-02-6	1	5.0	ND	µg/L	
Hexachlorobutadiene	87-68-3	1	5.0	ND	µg/L	
Ethylbenzene	100-41-4	1	5.0	ND	µg/L	
1,1-Dichloropropene	563-58-6	1	5.0	ND	µg/L	
2-Hexanone	591-78-6	1	25	ND	µg/L	
Methylene chloride	75-09-2	1	5.0	ND	µg/L	
4-Isopropyltoluene	99-87-6	1	5.0	ND	µg/L	
Methyl tert-butyl ether	1634-04-4	1	5.0	ND	µg/L	
4-Methyl-2-pentanone	108-10-1	1	25	ND	µg/L	
n-Propylbenzene	103-65-1	1	5.0	ND	µg/L	
Styrene	100-42-5	1	5.0	ND	µg/L	
Isopropylbenzene	98-82-8	1	5.0	ND	µg/L	
Naphthalene	91-20-3	1	5.0	ND	µg/L	
1,1,1,2-Tetrachloroethane	630-20-6	1	5.0	ND	µg/L	
1,1,2,2-Tetrachloroethane	79-34-5	1	5.0	ND	µg/L	
Tetrachloroethene	127-18-4	1	5.0	ND	µg/L	
Toluene	108-88-3	1	5.0	ND	µg/L	
1,2,3-Trichlorobenzene	87-61-6	1	5.0	ND	µg/L	
1,2,4-Trichlorobenzene	120-82-1	1	5.0	ND	µg/L	
1,1,1-Trichloroethane	71-55-6	1	5.0	ND	µg/L	
Trichloroethene	79-01-6	1	5.0	ND	µg/L	
1,1,2-Trichloroethane	79-00-5	1	5.0	ND	µg/L	

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3821 Buck Drive, Cortland, NY 13045-5150
Tel 607.753.3403 Fax 607.753.3415

BUCK
ENVIRONMENTAL LABORATORIES, INC.
accredited environmental analysis

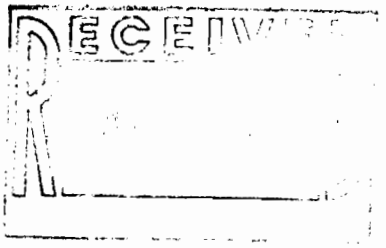
Report Date: *25-May-00*
Lab Log No: 0005141

CLIENT: GEOLOGIC NY, INC
PO BOX 5080
CORTLAND, NY 130455080

Client Sample ID: MW-2
Sampled By: J. N.
Collection Date: 05/09/00
Received at Lab: 05/10/00
Matrix: AQUEOUS

Project: 200048
Lab ID: 0005141-02C

Analyses	CAS	DF	PQL	Result	Units	Qual
1,2,3-Trichloropropane	96-18-4	1	5.0	ND	µg/L	
Trichlorofluoromethane	75-69-4	1	5.0	ND	µg/L	
1,2,4-Trimethylbenzene	95-63-6	1	5.0	ND	µg/L	
1,3,5-Trimethylbenzene	108-67-8	1	5.0	ND	µg/L	
Vinyl acetate	108-05-4	1	5.0	ND	µg/L	
Vinyl chloride	75-01-4	1	5.0	ND	µg/L	
m,p-Xylene	1330-20-7	1	10	ND	µg/L	
o-Xylene	95-47-6	1	5.0	ND	µg/L	
Surr: 4-Bromofluorobenzene	460-00-4	1	72.2-115.6	98.4	%REC	
Surr: Dibromofluoromethane	1868-53-7	1	82.7-126.6	102	%REC	
Surr: Toluene-d8	2037-26-5	1	83.8-114.2	88.2	%REC	



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NYSDOH ELAP #10795

John H. Buck, P.E.
Laboratory Director

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BUCK
ENVIRONMENTAL LABORATORIES, INC.
accredited environmental analysis

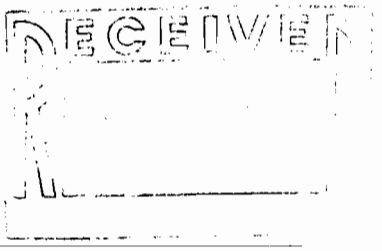
Report Date: *25-May-00*
Lab Log No: 0005141

CLIENT: GEOLOGIC NY, INC
PO BOX 5080
CORTLAND, NY 130455080

Client Sample ID: MW-3
Sampled By: J. N.
Collection Date: 05/09/00
Received at Lab: 05/10/00
Matrix: AQUEOUS

Project: 200048
Lab ID: 0005141-03A

Analyses	CAS	DF	PQL	Result	Units	Qual
STARS SEMIVOLATILES BY EPA 8270		Analyst: **JK**	Analysis Date: **05/22/00**			
Acenaphthene	83-32-9	1	11	ND	µg/L	
Acenaphthylene	208-96-8	1	11	ND	µg/L	
Anthracene	120-12-7	1	11	ND	µg/L	
Benz(a)anthracene	56-55-3	1	11	ND	µg/L	
Benzo(a)pyrene	50-32-8	1	11	ND	µg/L	
Benzo(b)fluoranthene	205-99-2	1	11	ND	µg/L	
Benzo(g,h,i)perylene	191-24-2	1	11	ND	µg/L	
Benzo(k)fluoranthene	207-08-9	1	11	ND	µg/L	
Chrysene	218-01-9	1	11	ND	µg/L	
Dibenz(a,h)anthracene	53-70-3	1	11	ND	µg/L	
Fluoranthene	206-44-0	1	11	ND	µg/L	
Fluorene	86-73-7	1	11	ND	µg/L	
Indeno(1,2,3-cd)pyrene	193-39-5	1	11	ND	µg/L	
Naphthalene	91-20-3	1	11	ND	µg/L	
Phenanthrene	85-01-8	1	11	ND	µg/L	
Pyrene	129-00-0	1	11	ND	µg/L	
Surr: 2-Fluorobiphenyl	321-60-8	1	10-102.8	46.7	%REC	
Surr: Nitrobenzene-d5	4165-60-0	1	10-111.7	54.1	%REC	
Surr: Terphenyl-d14	98904-43-9	1	10-156.4	50.5	%REC	



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NYSDOH ELAP #10795

John H. Buck, P.E.
Laboratory Director

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Tel 607.753.3403 Fax 607.753.3415

BUCK
ENVIRONMENTAL LABORATORIES, INC.
accredited environmental analysis

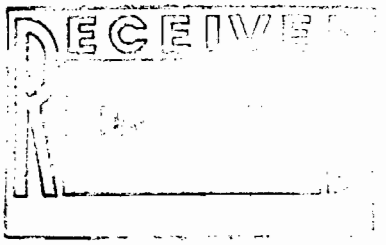
Report Date: *25-May-00*
Lab Log No: 0005141

CLIENT: GEOLOGIC NY, INC
PO BOX 5080
CORTLAND, NY 130455080

Client Sample ID: MW-3
Sampled By: J. N.
Collection Date: 05/09/00
Received at Lab: 05/10/00
Matrix: AQUEOUS

Project: 200048
Lab ID: 0005141-03B

Analyses	CAS	DF	PQL	Result	Units	Qual
MERCURY, TOTAL		Analyst: **MB**	Analysis Date: **05/22/00**			
Mercury	7439-97-6	10	0.00400	**0.0251**	mg/L	
METALS BY ICP		Analyst: **MB**	Analysis Date: **05/24/00**			
Arsenic	7440-38-2	1	0.0250	**0.117**	mg/L	
Barium	7440-39-3	1	0.0450	**0.847**	mg/L	
Cadmium	7440-43-9	1	0.00500	**0.0270**	mg/L	
Chromium	7440-47-3	1	0.00500	**0.609**	mg/L	
Lead	7439-92-1	1	0.00500	**0.894**	mg/L	
Selenium	7782-49-2	1	0.0200	ND	mg/L	
Silver	7440-22-4	1	0.0150	ND	mg/L	



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accredited environmental analysis

Report Date: *25-May-00*
Lab Log No: 0005141

CLIENT: GEOLOGIC NY, INC
PO BOX 5080
CORTLAND, NY 130455080

Client Sample ID: MW-3
Sampled By: J. N.
Collection Date: 05/09/00
Received at Lab: 05/10/00
Matrix: AQUEOUS

Project: 200048
Lab ID: 0005141-03C

Analyses	CAS	DF	PQL	Result	Units	Qual
GC/MS VOLATILES BY EPA 8260		Analyst: **PI**	Analysis Date: **05/16/00**			
Acetone	67-64-1	1	25	ND	µg/L	
Benzene	71-43-2	1	5.0	ND	µg/L	
Bromobenzene	108-86-1	1	5.0	ND	µg/L	
Bromochloromethane	74-97-5	1	5.0	ND	µg/L	
Bromodichloromethane	75-27-4	1	5.0	ND	µg/L	
Bromoform	75-25-2	1	5.0	ND	µg/L	
Bromomethane	74-83-9	1	5.0	ND	µg/L	
2-Butanone	78-93-3	1	25	ND	µg/L	
n-Butylbenzene	104-51-8	1	5.0	ND	µg/L	
sec-Butylbenzene	135-98-8	1	5.0	ND	µg/L	
tert-Butylbenzene	98-06-6	1	5.0	ND	µg/L	
Carbon disulfide	75-15-0	1	5.0	ND	µg/L	
Carbon tetrachloride	56-23-5	1	5.0	ND	µg/L	
Chlorobenzene	108-90-7	1	5.0	ND	µg/L	
Chloroethane	75-00-3	1	5.0	ND	µg/L	
2-Chloroethyl vinyl ether	110-75-8	1	5.0	ND	µg/L	
Chloroform	67-66-3	1	5.0	ND	µg/L	
Chloromethane	74-87-3	1	5.0	ND	µg/L	
2-Chlorotoluene	95-49-8	1	5.0	ND	µg/L	
4-Chlorotoluene	106-43-4	1	5.0	ND	µg/L	
1,2-Dibromo-3-chloropropane	96-12-8	1	5.0	ND	µg/L	
Dibromochloromethane	124-48-1	1	5.0	ND	µg/L	
1,2-Dibromoethane	106-93-4	1	5.0	ND	µg/L	
Dibromomethane	74-95-3	1	5.0	ND	µg/L	
1,2-Dichlorobenzene	95-50-1	1	5.0	ND	µg/L	
1,3-Dichlorobenzene	541-73-1	1	5.0	ND	µg/L	
1,4-Dichlorobenzene	106-46-7	1	5.0	ND	µg/L	
Dichlorodifluoromethane	75-71-8	1	5.0	ND	µg/L	
1,1-Dichloroethane	75-34-3	1	5.0	ND	µg/L	

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Report Date: *25-May-00*
Lab Log No: 0005141

CLIENT: GEOLOGIC NY, INC
PO BOX 5080
CORTLAND, NY 130455080

Client Sample ID: MW-3
Sampled By: J. N.
Collection Date: 05/09/00
Received at Lab: 05/10/00
Matrix: AQUEOUS

Project: 200048
Lab ID: 0005141-03C

Analyses	CAS	DF	PQL	Result	Units	Qual
1,2-Dichloroethane	107-06-2	1	5.0	ND	µg/L	
1,1-Dichloroethene	75-35-4	1	5.0	ND	µg/L	
cis-1,2-Dichloroethene	156-59-2	1	5.0	ND	µg/L	
trans-1,2-Dichloroethene	156-60-5	1	5.0	ND	µg/L	
1,2-Dichloropropane	78-87-5	1	5.0	ND	µg/L	
1,3-Dichloropropane	142-28-9	1	5.0	ND	µg/L	
2,2-Dichloropropane	590-20-7	1	5.0	ND	µg/L	
cis-1,3-Dichloropropene	10061-01-5	1	5.0	ND	µg/L	
trans-1,3-Dichloropropene	10061-02-6	1	5.0	ND	µg/L	
Hexachlorobutadiene	87-68-3	1	5.0	ND	µg/L	
Ethylbenzene	100-41-4	1	5.0	ND	µg/L	
1,1-Dichloropropene	563-58-6	1	5.0	ND	µg/L	
2-Hexanone	591-78-6	1	25	ND	µg/L	
Methylene chloride	75-09-2	1	5.0	ND	µg/L	
4-Isopropyltoluene	99-87-6	1	5.0	ND	µg/L	
Methyl tert-butyl ether	1634-04-4	1	5.0	ND	µg/L	
4-Methyl-2-pentanone	108-10-1	1	25	ND	µg/L	
n-Propylbenzene	103-65-1	1	5.0	ND	µg/L	
Styrene	100-42-5	1	5.0	ND	µg/L	
Isopropylbenzene	98-82-8	1	5.0	ND	µg/L	
Naphthalene	91-20-3	1	5.0	ND	µg/L	
1,1,1,2-Tetrachloroethane	630-20-6	1	5.0	ND	µg/L	
1,1,2,2-Tetrachloroethane	79-34-5	1	5.0	ND	µg/L	
Tetrachloroethene	127-18-4	1	5.0	ND	µg/L	
Toluene	108-88-3	1	5.0	ND	µg/L	
1,2,3-Trichlorobenzene	87-61-6	1	5.0	ND	µg/L	
1,2,4-Trichlorobenzene	120-82-1	1	5.0	ND	µg/L	
1,1,1-Trichloroethane	71-55-6	1	5.0	ND	µg/L	
Trichloroethene	79-01-6	1	5.0	ND	µg/L	
1,1,2-Trichloroethane	79-00-5	1	5.0	ND	µg/L	

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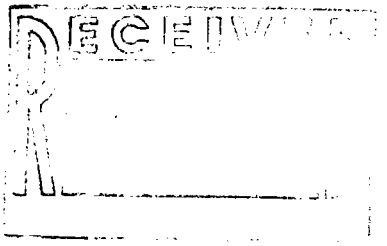
Report Date: *25-May-00*
Lab Log No: 0005141

CLIENT: GEOLOGIC NY, INC
PO BOX 5080
CORTLAND, NY 130455080

Client Sample ID: MW-3
Sampled By: J. N.
Collection Date: 05/09/00
Received at Lab: 05/10/00
Matrix: AQUEOUS

Project: 200048
Lab ID: 0005141-03C

Analyses	CAS	DF	PQL	Result	Units	Qual
1,2,3-Trichloropropane	96-18-4	1	5.0	ND	µg/L	
Trichlorofluoromethane	75-69-4	1	5.0	ND	µg/L	
1,2,4-Trimethylbenzene	95-63-6	1	5.0	ND	µg/L	
1,3,5-Trimethylbenzene	108-67-8	1	5.0	ND	µg/L	
Vinyl acetate	108-05-4	1	5.0	ND	µg/L	
Vinyl chloride	75-01-4	1	5.0	ND	µg/L	
m,p-Xylene	1330-20-7	1	10	ND	µg/L	
o-Xylene	95-47-6	1	5.0	ND	µg/L	
Surr: 4-Bromofluorobenzene	460-00-4	1	72.2-115.6	99.0	%REC	
Surr: Dibromofluoromethane	1868-53-7	1	82.7-126.6	104	%REC	
Surr: Toluene-d8	2037-26-5	1	83.8-114.2	97.8	%REC	



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BUCK
ENVIRONMENTAL LABORATORIES, INC.

May 25, 2000

Mr. Nossal
GEOLOGIC NY, INC
PO BOX 5080
CORTLAND, NY 130455080
TEL: (607) 836-4400
FAX: (607) 836-4403

RE: 200048 Order No.: 0005141

Dear Mr. Nossal,

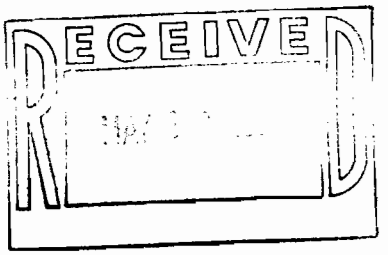
Buck Environmental Labs, Inc. received 3 samples on 05/10/00 for the analyses presented in the following report.

The analytical results for your samples are presented on the enclosed laboratory report(s). In accordance with NYSDOH-ELAP and NELAC regulations, we are required to notify you of any aspects of the analysis that did not comply with these regulations. A summary of problems, notations, and non-compliant parameters is presented on the attached "Narrative". Any data qualifiers are noted on the laboratory report. The Laboratory also maintains a "Sample Receipt Checklist" and the submitted "Chain of Custody" forms in its files that are available upon request.

Thank you for the opportunity to provide these analytical services. Please contact Pamela Brown, Client Services Manager, or Barbara Houskamp, QA/QC Manager, with questions on the analysis.

Sincerely,

John H. Buck, P.E.
Laboratory Director
ELAP Lab ID # 10795



CC:

3821 Buck Drive, P.O. Box 5150, Cortland, NY 13045 • 607.753.3403 fax 607.753.3415
Branch Office: 14 Smith Avenue, Binghamton, NY 13904 • 607.771.0866 fax 607.771.0966

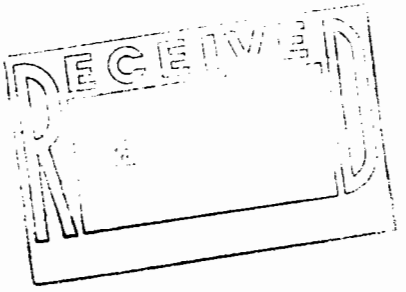
Buck Environmental Labs, Inc. **Date:** *25-May-00*

CLIENT: GEOLOGIC NY, INC
Project: 200048
Lab Order: 0005141

CASE NARRATIVE

Samples were analyzed using Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition or other methods specifically approved by NYSDOH-ELAP.

All quality control parameters for the analyses in this log number met the laboratory acceptance limits and no data were qualified.



B U C K
ENVIRONMENTAL LABORATORIES, INC.
accredited environmental analysis

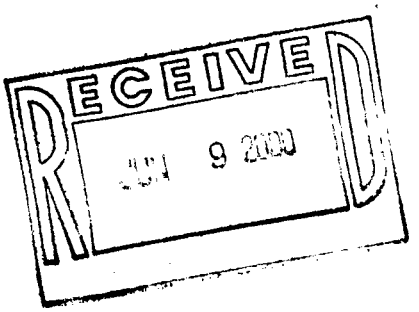
Report Date: *07-Jun-00*
Lab Log No: 0005396

CLIENT: GEOLOGIC NY, INC
PO BOX 5080
CORTLAND, NY 130455080

Client Sample ID: MW-1
Sampled By: J.N.
Collection Date: 05/30/00
Received at Lab: 05/31/00
Matrix: AQUEOUS

Project: 200048
Lab ID: 0005396-01A

Analyses	CAS	DF	PQL	Result	Units	Qual
MERCURY, TOTAL		Analyst: **MB**	Analysis Date: **06/07/00**			
Mercury	7439-97-6	1	0.000400	ND	mg/L	
METALS BY ICP		Analyst: **MB**	Analysis Date: **06/05/00**			
Arsenic	7440-38-2	1	0.0250	ND	mg/L	
Barium	7440-39-3	1	0.0450	**0.0829**	mg/L	
Cadmium	7440-43-9	1	0.00500	ND	mg/L	
Chromium	7440-47-3	1	0.00500	ND	mg/L	
Lead	7439-92-1	1	0.00500	**0.00538**	mg/L	
Selenium	7782-49-2	1	0.0200	ND	mg/L	
Silver	7440-22-4	1	0.0150	ND	mg/L	



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NYSDOH ELAP #10795

John H. Buck, P.E.
Laboratory Director

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BUCK
ENVIRONMENTAL LABORATORIES, INC.
accredited environmental analysis

Report Date: *07-Jun-00*
Lab Log No: 0005396

CLIENT: GEOLOGIC NY, INC
PO BOX 5080
CORTLAND, NY 130455080

Client Sample ID: MW-2
Sampled By: J.N.
Collection Date: 05/30/00
Received at Lab: 05/31/00
Matrix: AQUEOUS

Project: 200048
Lab ID: 0005396-02A

Analyses	CAS	DF	PQL	Result	Units	Qual
MERCURY, TOTAL		Analyst: **MB**	Analysis Date: **06/07/00**			
Mercury	7439-97-6	1	0.000400	ND	mg/L	
METALS BY ICP		Analyst: **MB**	Analysis Date: **06/05/00**			
Arsenic	7440-38-2	1	0.0250	ND	mg/L	
Barium	7440-39-3	1	0.0450	ND	mg/L	
Cadmium	7440-43-9	1	0.00500	ND	mg/L	
Chromium	7440-47-3	1	0.00500	ND	mg/L	
Lead	7439-92-1	1	0.00500	ND	mg/L	
Selenium	7782-49-2	1	0.0200	ND	mg/L	
Silver	7440-22-4	1	0.0150	ND	mg/L	

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H - Est., Holding time exceedance

3821 Buck Drive, Cortland, NY 13045-5150
Tel 607.753.3403 Fax 607.753.3415

BUCK
ENVIRONMENTAL LABORATORIES, INC.
accredited environmental analysis

Report Date: *07-Jun-00*
Lab Log No: 0005396

CLIENT: GEOLOGIC NY, INC
PO BOX 5080
CORTLAND, NY 130455080

Client Sample ID: MW-3
Sampled By: J.N.
Collection Date: 05/30/00
Received at Lab: 05/31/00
Matrix: AQUEOUS

Project: 200048
Lab ID: 0005396-03A

Analyses	CAS	DF	PQL	Result	Units	Qual
MERCURY, TOTAL		Analyst: **MB**	Analysis Date: **06/07/00**			
Mercury	7439-97-6	1	0.000400	ND	mg/L	
METALS BY ICP		Analyst: **MB**	Analysis Date: **06/05/00**			
Arsenic	7440-38-2	1	0.0250	ND	mg/L	
Barium	7440-39-3	1	0.0450	**0.0816**	mg/L	
Cadmium	7440-43-9	1	0.00500	ND	mg/L	
Chromium	7440-47-3	1	0.00500	**ND**	mg/L	
Lead	7439-92-1	1	0.00500	**0.00557**	mg/L	
Selenium	7782-49-2	1	0.0200	**ND**	mg/L	
Silver	7440-22-4	1	0.0150	**ND**	mg/L	

This laboratory analysis has been performed in accordance with generally accepted laboratory practices and requirements of the New York State Department of Health ELAP Program. Buck Environmental Laboratories, Inc. makes no recommendations, representations or warranties other than as specifically set forth in this report and shall not be responsible or liable for any action or the consequences of any action taken in connection with this report.

NYSDOH ELAP #10795

John H. Buck, P.E.
Laboratory Director

Abbreviations:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Est., Value exceeds quantitation range
H - Est., Holding time exceedance

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June 07, 2000

Mr. Nossal
GEOLOGIC NY, INC
PO BOX 5080
CORTLAND, NY 130455080
TEL: (607) 836-4400
FAX: (607) 836-4403

RE: 200048 Order No.: 0005396

Dear Mr. Nossal,

Buck Environmental Labs, Inc. received 3 samples on 05/31/00 for the analyses presented in the following report.

The analytical results for your samples are presented on the enclosed laboratory report(s). In accordance with NYSDOH-ELAP and NELAC regulations, we are required to notify you of any aspects of the analysis that did not comply with these regulations. A summary of problems, notations, and non-compliant parameters is presented on the attached "Narrative". Any data qualifiers are noted on the laboratory report. The Laboratory also maintains a "Sample Receipt Checklist" and the submitted "Chain of Custody" forms in its files that are available upon request.

Thank you for the opportunity to provide these analytical services. Please contact Pamela Brown, Client Services Manager, or Barbara Houskamp, QA/QC Manager, with questions on the analysis.

Sincerely,

John H. Buck, P.E.
Laboratory Director
ELAP Lab ID # 10795

CC:

Buck Environmental Labs, Inc.

Date: *07-Jun-00*

CLIENT: GEOLOGIC NY, INC
Project: 200048
Lab Order: 0005396

CASE NARRATIVE

Samples were analyzed using Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition or other methods specifically approved by NYSDOH-ELAP.

All quality control parameters for the analyses in this log number met the laboratory acceptance limits and no data were qualified.