TOWN OF VESTAL

605 Vestal Parkway West Vestal, New York 13850

Telephone - 748-1514 Area Code - 607



Supervisor Rose M. Fairbrother

Town Council Harold Bennett

Harold Bennett Robert Nasiatka Sandra Tillotson Frank Valletta

August 8, 1990

Scott Rodabaugh, Project Engineer Division of Hazardous Waste Remediation Region 7 Binghamton Sub-Office Route 11, RD#1 Box 1803 Kirkwood, NY 13795-9772

RE: Laboratory Analysis - Monarch Site

Dear Scott:

Please find enclosed the above referenced laboratory analysis.

If you have any questions concerning this matter, please feel free to contact me at anytime.

Very truly yours,

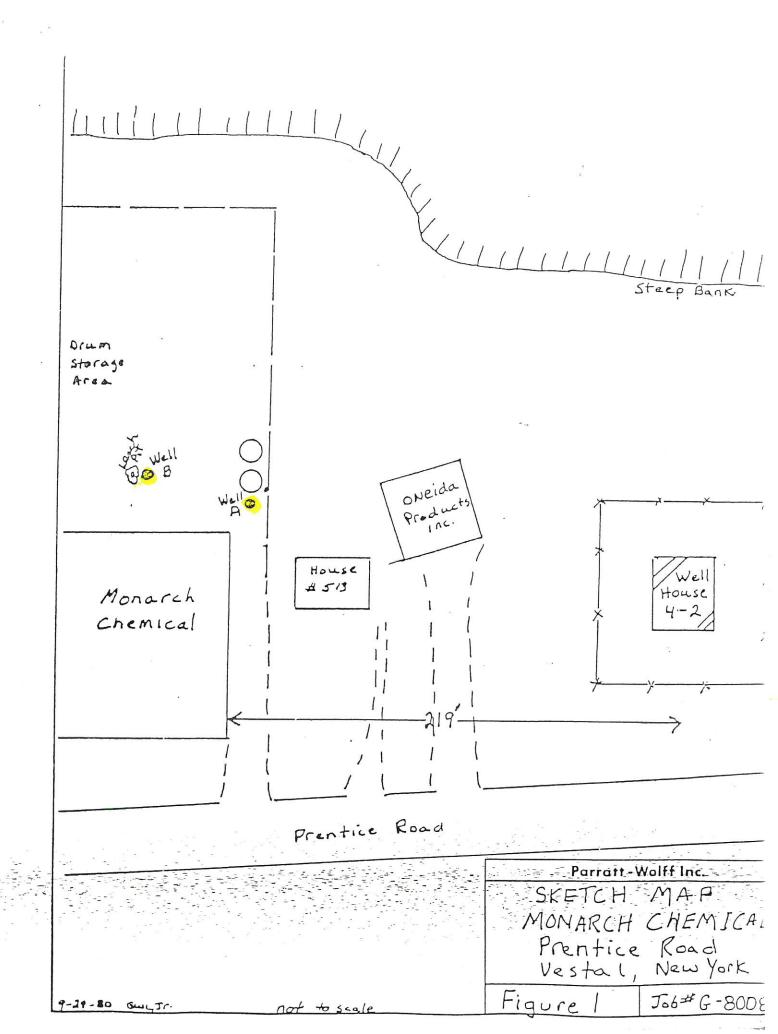
Donald A. Bulman

Director of Engineering Services

DAB: 1f

Enclosures





Laboratory Analyses

OBG LABORATORIES, INC. 5000 Brittonfield Parkway Syracuse, New York 13221

BUCK ENVIRONMENTAL

ACCREDITED ENVIRONMENTAL ANALYSIS

100 TOMPKINS ST. CORTLAND, N.Y. 13045 14 SMITH AVE. BINGHAMTON, N.Y. 13904

100 TOMPKINS ST. + CORTLAND, N.Y. 13045 607-753-3403

LABORATORY REPORT

Client: TOWN OF VESTAL

Report Date: 7/18/90 6/07/90

Site: Prentice Road, Vestal

Sampling Date: North Star Dr. Sampled By:

6/19/90 Analysis Date:

Samples: Soil

Lab Log No: N901208

Purgeable Halocarbons (By EPA 5030 and 8010)

		TBB-1	-	TBB-2	1	T88-3	1	TBB-4	1
bromodichlorome thane	1	ND		ND	T	ND	1	ND	1
bromoform	1	ND	.1	ND	-	ND	1	ND	1
bromomethane	1	ND -	.1	ND	1	ND	1	ND	1
carbon tetrachloride	J	ND '	ľ	ND	1	ND	1	ND	1
chlorobenzene	1	ND	1	ND	1	ND	1	ND	1
chloroethane 🦂	ŧ	ND	- 1	ND	1	ND	1	ND	ı
2-chloroethylvinylether	ł	ND	1	ND	1	ND	ı	ND	1
chloroform	1	ND	- 1	ND	1	ND	1	NĎ	1
chloromethane	1	ND	1	ND	1	ND	ŧ	ND	1
dibromochloromethane	1	ND	1	ND	1	ND -	1	ND	1
1,2-dichlorobenzene	1	ND	- 1	ND	1	ND	1	ND	1
1,3-dichlorobenzene	1	ND	1	ND	1	ND	1	ND	ŀ
1,4-dichlorobenzene	1	ND	ŧ	ND	1	ND	1	ND	I
dichlorodifluoromethane	1	ND	1	ND	1	ND	į	ND	1
1,1-dichloroethane	1	ND	1	ND	1	ND	1	ND	ļ
1,2-dichloroethane	1	ND	1	ND	1	ND	1	ND	1
1,1-dichloroethene	1	ND	-1	ND	1	ND	1	ND	1
trans-1,2-dichloroethene	ļ	ND	1	ND	1	ND	1	ND	1
1,2-dichloropropane	1	ND	1	ND	1	ND	1	ND	1
cis-1,3-dichloropropene	1	ND	1	ND	1	ND	1	ND	F
trans-1,3-dichloropropene	ł	ND	- 1	ND	1	ND	1	ND	1
methylene chloride	İ	ND	1	ND	1	ND	1	ND	1
1,1,2,2-tetrachloroethane	1	ND .	1	ND	1	ND	1	ND	l
tetrach1oroethene	1	0.3]	13.9	1	0.2	1	0.2	1
1,1,1-trichloroethane	1	0.1	ı	ND	1	ND	1	ND	1
1,1,2-trichloroethane	1	ND	1	ND	1	ND	1	ND	1
trichloroethene	1	ND	1	0.1	1	ND	ļ	ND	1
trichlorofluoromethane	1	ND	1	ND	ı	ND	1	ND	1
vinyl chloride	1	ND	1	ND .	1	ND	1	ND	I
	_ ا		_		.!		1_		ı

All concentrations are reported as ug/g.

ND indicates that no amount greater than 0.1 ug/g was detected.

This analysis is centified as conforming to generally accepted. laboratory practices and requirements of the New York State Health

100 TOMPKINS ST. + CORTLAND, N.Y. 13045 607-753-3403

LABORATORY REPORT

Client: TOWN OF VESTAL

Samples: Soil

7/18/90 Report Date: Sampling Date: 6/07/90

Site: Prentice Road, Vestal

Sampled By: .North Star Dr.

Analysis Date: Lab Log No:

6/19/90 N901208

Purgeable Halocarbons (By EPA 5030 and 8010)

	_ [_	_TBB-5		_ TBB−ሪ	}	TBB-7	l.	TBA-1	
bromodichloromethane	1	ND	1	ND	1	ND	1	ND	
bromoform	1	ND	1	ND	- 1	ND	1	ND	
bromome thane	1	ND .	· 1	ND	ı	ND	1	ND	
carbon tetrachloride	- 1	ND '	1	ND		ND	1	ND	
chlorobenzene	ţ	ND	1	ND	1	ND	ŀ	ND	
chloroethane	- 1	ND	}	ND	1	ND	1.	ND	
2-chloroethylvinylether	1	ND	1	ND	1	ND	1	ND	
chloroform	ŧ	ND		ND	ı	ND	1	ND	
chloromethane	ŧ	ND	1	ND	J	ND	1 .	ND	
dibromochloromethane	1	ND	F	ND	1	ND	1	ND	
1,2-dichlorobenzene	1	ND	1	ND	- 1	ND	1	ND	
1,3-dichlorobenzene	1	ND	ľ	ND	1	ND	1	ND	
1,4-dichlorobenzene	- 1	ND	1	ND	- 1	ND	1	ND	
dichlorodifluoromethane	1	ND	1	ND	ı	ND	1	ND	
1,1-dichloroethane	1	ND	1	ND	1	ND	ı	ND	
1,2-dichloroethane	T	ND	1	ND	1	ND	1	ND	
1,1-dichloroethene	1	ND	1	ND	l	ND	1	ND	
trans-1,2-dichloroethene	1	ND	1	ND	Ì	ND	i	ND	
1,2-dichtoropropane	1	ND	1	ND	1	ND	Ì	ND	
cis-1,3-dichloropropene	1	ND	ı	ND	1	ND	i	ND	ı
trans-1,3-dichloropropene	ŧ	ND	1	ND	1	ND	j	ND	i
methylene chloride	i	ND	1	ND	1	ND	1	ND	1
1,1,2,2-tetrachloroethane	1	ND	1	ND	1	ND	Ì	ND	ĺ
tetrachioroethene	1	0.3	1	0.2	ĺ	0.1	i	0.4	ĺ
1,1,1-trichloroethane	1	ND	1	ND	Ī	- ND	i	0.1	i
1,1,2-trichloroethane	1	ND	1	ND	1	ND	i	ND	1
trichloroethene	1	ND	1	ND	i	ND	i	0.2	Ì
trichTorofluoromethane	1	ND	1	ND	i	ND	İ	ND	1
vinyl chloride	1	ND	İ	NĎ	į	ND	į	ND	į
011	.' —	 	_!		_		_!		_]

All concentrations are reported as ug/g.

ND indicates that no amount greater than 0.1 ug/g was detected.

This analysis is certified as conforming to generally accepted laboratory practices and requirements of the New York State Health Department ELAP program.

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100 TOMPKINS ST. + CORTLAND, N.Y. 13045 607-753-3403

LABORATORY REPORT

Client: TOWN OF VESTAL

Site: Prentice Road, Vestal

Samples: Soil

Report Date: 7. Sampling Date: 6.

7/18/90 6/07/90

Sampled By:

North Star Dr.

Analysis Date:

6/19/90

Lab Log No: N901208

Purgeable Halocarbons (By EPA 5030 and 8010)

bromodichloromethane I ND I ND I ND I ND I ND I ND I ND I ND
bromome thane ND ND ND ND ND carbon tetrachloride ND ND ND ND ND chlorobenzene ND ND ND ND ND chloroethane ND ND ND ND ND 2-chloroethylvinylether ND ND ND ND ND chloroform ND ND ND ND ND chloromethane ND ND ND ND ND dibromochloromethane ND ND ND ND
carbon tetrachloride ND ND ND ND ND ND ND N
chlorobenzene I ND I ND I ND I ND chloroethane I ND I ND I ND I ND I ND Chloroform I ND I ND I ND I ND Chloromethane I ND I ND I ND I ND I ND Chloromethane I ND I ND I ND I ND I ND Chloromethane I ND I ND I ND I ND I ND I ND I ND I N
chloroethane ND ND ND ND ND ND ND N
2-chloroethylvinylether ND ND ND ND ND ND ND N
chloroform ND ND ND ND ND ND ND N
chloromethane ND ND ND ND dibromochloromethane ND ND ND ND
dibromochloromethane ND ND ND ND
1,2-dichlorobenzene I ND I ND I ND I ND
1,3-dichlorobenzene I ND I ND I ND I ND
1,4-dichlorobenzene I ND I ND I ND I ND
dichlorodifluoromethane ND ND ND ND
1,1-dichloroethane ND ND ND ND
1,2-dichloroethane ND ND ND ND
1,1-dichloroethene ND ND ND ND
trans-1,2-dichloroethene ND ND ND ND
1,2-dichloropropane ND ND ND ND
cis-1,3-dichloropropene ND ND ND ND
trans-1,3-dichloropropene (ND ND ND ND
methylene chloride IND IND IND IND
1,1,2,2-tetrachloroethane ND ND ND ND
tetrachloroethene 0.3 0.3 0.4
1,1,1-trichloroethane 0.1 0.2 0.1 0.1
1,1,2-trichloroethane ND ND ND ND
trichloroethene 0.1 ND 0.1 0.1
trichlorofluoromethane ND ND ND ND
vinyl chloride I ND I ND I ND I ND

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Sampled By: North Star Dr.

Analysis Date: 6/19/90

Samples: Soil

Lab Log No: N901208

Purgeable Halocarbons (By EPA 5030 and 8010)

boomadiakt	_	TBA-6		TBA-8		SOIL BLAN	1K I	METHOD	BLI
bromodichloromethane	1	ND	Į	ND	- 1	ND	Ī	ND	1
bromoform	1	ND	- 1	ND	- 1	ND	1	ND	i
bromomethane	1	ND	. 1.	ND	1	ND	1	ND	1
carbon tetrachloride	1	ND	1	ND	- 1	ND	Ī	ND	i
chlorobenzene	1	ND	1	ND	1	ND	1	ND	i
chloroethane	1	ND	- 1	ND	ŀ	ND	1	ND	ĺ
2-chloroethylvinylether	- 1	ND	1	ND	- 1	ND	İ	ND	į
chloroform	1	ND	- 1	ND	i	ND	i	ND	i
chlorome thane	1	ND	ı	ND	i	ND	í	ND	,
dibromochloromethane	1	ИD	1	ND	i	ND	i	ND	1
1,2-dichlorobenzene	- 1	ND	i	ND	j	ND		ND	'
1,3-dichlorobenzene	ļ	ND	i	ND	i	ND	i	ND	1
1,4-dichlorobenzene	1	ND	i	ND	í	ND		ND	;
dichlorodifluoromethane	İ	ND	í	ND	i	ND	1	ND	
1,1-dichloroethane	1	ND	i	ND	,	ND			!
1,2-dichlorgethane	i	ND	i	ND	,	ND	1	ND	!
1,1-dichloroethene	i	ND	j	ND	,		,	ND	. !
trans-1,2-dichloroethene	i	ND	i	ND	-	ND	!	ND	
1,2-dichloropropane	i	ND	1		!	ND	!	ND	- [
is-1,3-dichloropropene	ì	ND	,	ND	- [ND	Ţ	ND	1
trans-1,3-dichloropropene	1	ND	1	ND	1	ND	1	ND	1
nethylene chloride	i	ND .	1	ND	!	ND	!	· ND	1
,1,2,2-tetrachloroethane	,	ND .		ND	!	ND	1	ND	1
etrachloroethene	,	0.3		ND		ND	Ţ	ND	ļ
,1,1-trichloroethane	,	0.3	1	0.2	!	ND	1	ND	- 1
,1,2-trichloroethane	1			0.1	!	ND	ı	ND	- 1
richloroethene	1	ND	•	ND	ı	ND	1	ND	- 1
richlorofluoromethane	1	0.1	!	ND	1	ND	1	ND	1
inyl chloride	į.	ND	!	ND	ı	ND	1	ND	1
curoutue	!	ND	1	ND	1	ND	ŧ	ND	1
1 2	J		. !		1		1		1

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Project Town of Vestal Well # 4-2 Investigation Location Prentice Road Town of Vestal, New York Method of Investigation										NORTH STAR DRILLING CO. Boring No. TB-A Project No. NSD-9049 Sheet 1 of 1 Date Started 6/6/90 Date Completed 6/7/90 Driller Harry Lyon Boring Location Established by Town Engineer (12' South of Fence Line Adjacent to Driveway)
S	Casin Casin Oil S amp ock Othe	g Ham ample le Har Sampl r:	nmer: r <u>2"</u> nmer: ler <u> </u>	Wt. O.D Wt.	. Spli	t Spoo	lb. Fa n (AS lb. Fa	II TM D- II	1586) 30	Court of Fence Line Adjacent to Driveway
Depth	Sample Number	Jai	mple epth To (Ft)	Sample Type	0' 0.5	0.5' 1.0 RC		ampler		MATERIAL DESCRIPTION REMARKS Depth of Change Reworked Soils
10	2	5.0	16.5		8 -	30	30		20	Damp, Brown, Coarse to Fine SAND, Some Coarse to Fine GRAVEL, Little SILT
30	3	25.0	26,5	S	16	20	30		50	23.0' Similar - Moist33.0'
40	4		36,5		20	29	50			Moist, Brown, Coarse to Fine SAND, And Coarse to Fine GRAVEL, Little SILT 42.0' Moist, Brown, Coarse to Fine SAND,
50	6		56,5		12	14	21		35	Little SILT
-	7		62.0		9	Cuti	ings 8		18 -	Wet, Brown, Fine SAND, Trace SILT 63.5' Saturated, Brown, Medium to Fine SAND, Trace SILT 66.5'
70										Boring Terminated at 66.5'

P.O. Box 67 Cortland, N.Y. 13045

Telephone: 607-756-8820

Client Buck Engineering Cortland, New York Project Town of Vestal Well # 4-2 Investigation Location Prentice Road Town of Vestal, New York									NORTH STAR DRILLING CO. Boring No. TB-B Project No. NSD-9049 Sheet 1 of 1 Date Started 6/7/90 Date Completed 6/7/90 Driller Harry Lyon						
Method of Investigation Drill Rig Central Mine Eqp. Model 55 Casing 4" I.D. Casing - ODEX Method Casing Hammer: Wt. Ib. Fall Soil Sampler 2" O.D. Split Spoon (ASTM D-1586) Sample Hammer: Wt. 140 lb. Fall 30 Rock Sampler Other:									1.586) 30	Boring LocationEstablished_by_Town_Engineer (53' West of Rear Center of Building) Surface Elevation _Not_Recorded Ground Water Observations DateTime					
Deptu	Sample Number		nple pth To (Ft)	Sample Type	0' 0.5	0.5' 1.0 RC		ampler 1.5' 2.0	7	MATERIAL DESCRIPTION REMARKS Depth of Change					
					_					Reworked Soils 2.01					
0	1	5.0	6.5	s	13	16	16		32	Damp, Brown, Coarse to Fine SAND, Some Coarse to Fine GRAVEL, Little SILT					
	_									SILI .					
	2	15.0	16.5	S	17	18	20		38						
0							-								
-		75.0	25.5		10			ļ		· .					
۔	3	25.0	26.5	S	10	9	8_		17	28.5					
0	4	35,0	36.5	S	26	36	36		72	Damp, Brown, Coarse to Fine SAND, And Coarse to Fine GRAVEL, Little SILT 43.51					
	5	45.0	46.5	S	12	19_	22		41	Damp, Brown, Coarse to Fine SAND, Little SILT					
0								<u> </u>		49.0					
1	6	55.0	56.5	s	9	14	6		20	Similar - Moist to Wet					
0										Saturated, Brown, Medium to Fine SAND, Trace SILT					
1	7	65.0	66.5	s	3	4	5		. 9						
† n										66.5'					
1										Boring Terminated at 66.5'					
‡								,							
+															
-		1	-2, -	 	<u> </u>		 		ing the second						
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P.O. Box 67 Cortland, N.Y. 13045

Telephone: 607-756-8820