O'BRIEN & GERE
ENGINEERS, INC.

Burke

Suozzo
Rec'd
FYI & file
from Jerry Rider

DEC 23

DEC 22 2003

December 18, 2003

Mr. Richard T. Robb, Commissioner
Department of Development & Operations
Town of DeWitt
PO Box 159
DeWitt, New York 13214-0159

Re: DeWitt Landfill Monitoring
Third Quarter 2003

File: 0123/32716

Dear Dick:

Enclosed please find the following information for the Third Quarter 2003 Landfill Monitoring:

- Appendix A – Water Sampling Analytical Results
- Appendix B – Water Sampling Field Memo and Sampling Logs
- Appendix C – Landfill Inspection Form
- Appendix D – Water Sampling Summary Tables
- Appendix E – Water Sampling Location Plans
- Appendix F – Air Sampling Field Memo and Analytical Results

As agreed upon with the New York State Department of Environmental Conservation, the third quarter sampling event consisted of surface water sampling and air sampling. A site inspection was also conducted and the results are shown in Appendix C.

Surface water samples were analyzed for Priority Pollutant Metals and Volatile Organics 624.

Air sampling was conducted in accordance with the latest approved protocols and a letter from the NYSDEC to Mr. Michael Kolceski dated April 17, 2003.

Water sampling analytical test results for the third quarter of 2003 have been compared with the NYSDEC Ambient Water Quality Standards and Guidance Values, dated October 1993 (reissued June 1998). The only parameter that exceeded the NYS Water Quality Standards for SW-1 and SW-3 was turbidity. The sample area for SW-2 was dry during this sampling event.

The surface water monitoring sites are indicated on Figures in Appendix E and the air monitoring locations are indicated in Appendix F.

We will elaborate on the findings when we prepare the Annual Report.

If you have any questions, please do not hesitate to contact us.

Very truly yours,

O'BRIEN & GERE ENGINEERS, INC.

Mike

Michael S. Kolceski, P.E.
Vice President

Enclosures
cc: Mr. James G. DiStefano, Supervisor - Town of Dewitt (w/enclosures)
Donald Greenwood, Esquire
Mr. James Burke P.E.- Attention: Carl Cuipylo, NYSDEC – Syracuse (w/enclosures)
Mr. Gerald J. Rider, Jr. - NYSDEC (w/enclosures)
Mr. Gary D. Cannerelli, P.E. - O'Brien & Gere Engineers, Inc.
Mr. Michael J. Petrie - O'Brien & Gere Engineers, Inc.

APPENDICES

Appendix A

Water Sampling Analytical Results

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 624

Client: O'Brien & Gere Engineers, Inc.
Project: Town of Dewitt Landfill - Dewitt, NY
Proj. Desc:
Package#: 6482
Sample: B1376
Sample Description: SW-1
Instrument: HP5973 GCMS#3
Units: ug/L
Number of analytes: 33

Job No.: 3435 . 036.11108
Certification NY No.: 10155

Collected: 10/03/03
Received: 10/03/03
Prepared: 10/07/03

Matrix: Water
QC Batch: 100703W3
%Solids:
Sample Size: 10 mL
Dilution: 5

Parameter	Result	Qual	PQL	Analyzed	Notes
Chloromethane	<10.	U	10.	10/07/03	
Vinyl chloride	<10.	U	10.	10/07/03	
Bromomethane	<10.	U	10.	10/07/03	
Chloroethane	<10.	U	10.	10/07/03	
Trichlorofluoromethane	<5.0	U	5.0	10/07/03	
1,1-Dichloroethene	<5.0	U	5.0	10/07/03	
Methylene chloride	<5.0	U	5.0	10/07/03	
trans-1,2-Dichloroethene	<5.0	U	5.0	10/07/03	
1,1-Dichloroethane	<5.0	U	5.0	10/07/03	
cis-1,2-Dichloroethene	<5.0	U	5.0	10/07/03	
Chloroform	<5.0	U	5.0	10/07/03	
1,2-Dichloroethane	<5.0	U	5.0	10/07/03	
1,1,1-Trichloroethane	<5.0	U	5.0	10/07/03	
Carbon tetrachloride	<5.0	U	5.0	10/07/03	
Benzene	<5.0	U	5.0	10/07/03	
1,2-Dichloropropane	<5.0	U	5.0	10/07/03	
Trichloroethene	<5.0	U	5.0	10/07/03	
Bromodichloromethane	<5.0	U	5.0	10/07/03	
2-Chloroethylvinyl ether	<10.	U	10.	10/07/03	
cis-1,3-Dichloropropene	<5.0	U	5.0	10/07/03	
trans-1,3-Dichloropropene	<5.0	U	5.0	10/07/03	
1,1,2-Trichloroethane	<5.0	U	5.0	10/07/03	
Toluene	<5.0	U	5.0	10/07/03	
Dibromochloromethane	<5.0	U	5.0	10/07/03	
Tetrachloroethene	<5.0	U	5.0	10/07/03	
Chlorobenzene	<5.0	U	5.0	10/07/03	
Ethylbenzene	<5.0	U	5.0	10/07/03	
Bromoform	<5.0	U	5.0	10/07/03	
Xylene (total)	<5.0	U	5.0	10/07/03	
1,1,2,2-Tetrachloroethane	<5.0	U	5.0	10/07/03	
1,3-Dichlorobenzene	<5.0	U	5.0	10/07/03	
1,4-Dichlorobenzene	<5.0	U	5.0	10/07/03	

B - Analyte detected above the PQL in the associated Prep Blank.
- Outside control limits U - Undetected at the reported level.
J - reported value is estimated. D - Result is diluted.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: October 8, 2003 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

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Matrix: Water
QC Batch: 100703W3
%Solids:
Sample Size: 10 mL
Dilution: 5

Parameter	Result	Qual	PQL	Analyzed	Notes
1,2-Dichlorobenzene	<5.0	U	5.0	10/07/03	

Surrogate	%R	Qual	%R Limits
Dibromofluoromethane (surrogate)	102		78-125
1,2-Dichloroethane-d4 (surrogate)	92		76-134
Toluene-d8 (surrogate)	107		80-120
Bromofluorobenzene (surrogate)	89		71-120

Notes:

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Date: October 8, 2003 Monika Santucci

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O'Brien & Gere Laboratories, Inc.

Analytical Results Trace Metals

Client: O'Brien & Gere Engineers, Inc.
Project: Town of Dewitt Landfill - Dewitt, NY
Proj. Desc:
Package#: 6482
Sample: B1376
Sample Description: SW-1
Units: mg/L

Job No.: 3435 . 036.11108
Certification NY No.: 10155

Collected: 10/03/03
Received: 10/03/03

Matrix: Water
%Solids:
Number of analytes: 13

Parameter	Result	Q	Method	PQL	Prepared	Analyzed	QC Batch	Dil	Note
Antimony	<.060	U	200.7	.060	10/16/03	10/17/03	101603W2	1	
Arsenic	.022		200.7	.0050	10/16/03	10/17/03	101603W2	1	
Beryllium	<.010	U	200.7	.010	10/16/03	10/17/03	101603W2	1	
Cadmium	<.010	U	200.7	.010	10/16/03	10/17/03	101603W2	1	
Chromium	.016		200.7	.010	10/16/03	10/17/03	101603W2	1	
Copper	.014		200.7	.010	10/16/03	10/17/03	101603W2	1	
Lead	.024		200.7	.0050	10/16/03	10/17/03	101603W2	1	
Mercury	<.00020	U	245.1	.00020	10/07/03	10/07/03	100703W1	1	
Nickel	<.050	U	200.7	.050	10/16/03	10/17/03	101603W2	1	
Selenium	.0075		200.7	.0050	10/16/03	10/17/03	101603W2	1	
Silver	<.010	U	200.7	.010	10/16/03	10/17/03	101603W2	1	
Thallium	<.010	U	200.7	.010	10/16/03	10/17/03	101603W2	1	
Zinc	.048		200.7	.010	10/16/03	10/17/03	101603W2	1	

Notes:

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Date: October 17, 2003 Monika Santucci

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O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 624

Client: O'Brien & Gere Engineers, Inc.
Project: Town of Dewitt Landfill - Dewitt, NY
Proj. Desc:
Package#: 6482
Sample: B1377
Sample Description: SW-3
Instrument: HP5973 GCMS#3
Units: ug/L
Number of analytes: 33

Job No.: 3435.036.11108
Certification NY No.: 10155

Collected: 10/03/03
Received: 10/03/03
Prepared: 10/07/03

Matrix: Water
QC Batch: 100703W3
%Solids:
Sample Size: 10 mL
Dilution: 5

Parameter	Result	Qual	PQL	Analyzed	Notes
Chloromethane	<10.	U	10.	10/07/03	
Vinyl chloride	<10.	U	10.	10/07/03	
Bromomethane	<10.	U	10.	10/07/03	
Chloroethane	<10.	U	10.	10/07/03	
Trichlorofluoromethane	<5.0	U	5.0	10/07/03	
1,1-Dichloroethene	<5.0	U	5.0	10/07/03	
Methylene chloride	<5.0	U	5.0	10/07/03	
trans-1,2-Dichloroethene	<5.0	U	5.0	10/07/03	
1,1-Dichloroethane	<5.0	U	5.0	10/07/03	
cis-1,2-Dichloroethene	<5.0	U	5.0	10/07/03	
Chloroform	<5.0	U	5.0	10/07/03	
1,2-Dichloroethane	<5.0	U	5.0	10/07/03	
1,1,1-Trichloroethane	<5.0	U	5.0	10/07/03	
Carbon tetrachloride	<5.0	U	5.0	10/07/03	
Benzene	<5.0	U	5.0	10/07/03	
1,2-Dichloropropane	<5.0	U	5.0	10/07/03	
Trichloroethene	<5.0	U	5.0	10/07/03	
Bromodichloromethane	<5.0	U	5.0	10/07/03	
2-Chloroethylvinyl ether	<10.	U	10.	10/07/03	
cis-1,3-Dichloropropene	<5.0	U	5.0	10/07/03	
trans-1,3-Dichloropropene	<5.0	U	5.0	10/07/03	
1,1,2-Trichloroethane	<5.0	U	5.0	10/07/03	
Toluene	<5.0	U	5.0	10/07/03	
Dibromochloromethane	<5.0	U	5.0	10/07/03	
Tetrachloroethene	<5.0	U	5.0	10/07/03	
Chlorobenzene	<5.0	U	5.0	10/07/03	
Ethylbenzene	<5.0	U	5.0	10/07/03	
Bromoform	<5.0	U	5.0	10/07/03	
Xylene (total)	<5.0	U	5.0	10/07/03	
1,1,2,2-Tetrachloroethane	<5.0	U	5.0	10/07/03	
1,3-Dichlorobenzene	<5.0	U	5.0	10/07/03	
1,4-Dichlorobenzene	<5.0	U	5.0	10/07/03	
1,2-Dichlorobenzene	<5.0	U	5.0	10/07/03	

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O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 624

Client: O'Brien & Gere Engineers, Inc.
Project: Town of Dewitt Landfill - Dewitt, NY
Proj. Desc:
Package#: 6482
Sample: B1377
Sample Description: SW-3
Instrument: HP5973 GCMS#3
Units: ug/L
Number of analytes: 33

Job No.: 3435 . 036.11108
Certification NY No.: 10155

Collected: 10/03/03
Received: 10/03/03
Prepared: 10/07/03

Matrix: Water
QC Batch: 100703W3
%Solids:
Sample Size: 10 mL
Dilution: 5

Parameter	Result	Qual	PQL	Analyzed	Notes

Surrogate	%R	Qual	%R Limits
Dibromofluoromethane (surrogate)	102		78-125
1,2-Dichloroethane-d4 (surrogate)	93		76-134
Toluene-d8 (surrogate)	106		80-120
Bromofluorobenzene (surrogate)	89		71-120

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Analytical Results Trace Metals

Client: O'Brien & Gere Engineers, Inc.
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Proj. Desc:
Package#: 6482
Sample: B1377
Sample Description: SW-3
Units: mg/L

Job No.: 3435 . 036.11108
Certification NY No.: 10155

Collected: 10/03/03
Received: 10/03/03

Matrix: Water
%Solids:
Number of analytes: 13

Parameter	Result	Q	Method	PQL	Prepared	Analyzed	QC Batch	Dil	Note
Antimony	<.060	U	200.7	.060	10/16/03	10/17/03	101603W2	1	
Arsenic	<.0050	U	200.7	.0050	10/16/03	10/17/03	101603W2	1	
Beryllium	<.010	U	200.7	.010	10/16/03	10/17/03	101603W2	1	
Cadmium	<.010	U	200.7	.010	10/16/03	10/17/03	101603W2	1	
Chromium	.013		200.7	.010	10/16/03	10/17/03	101603W2	1	
Copper	<.010	U	200.7	.010	10/16/03	10/17/03	101603W2	1	
Lead	.0063		200.7	.0050	10/16/03	10/17/03	101603W2	1	
Mercury	<.00020	U	245.1	.00020	10/07/03	10/07/03	100703W1	1	
Nickel	<.050	U	200.7	.050	10/16/03	10/17/03	101603W2	1	
Selenium	<.0050	U	200.7	.0050	10/16/03	10/17/03	101603W2	1	
Silver	<.010	U	200.7	.010	10/16/03	10/17/03	101603W2	1	
Thallium	<.010	U	200.7	.010	10/16/03	10/17/03	101603W2	1	
Zinc	.032		200.7	.010	10/16/03	10/17/03	101603W2	1	

Notes:

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Authorized: Monika Santucci
Date: October 17, 2003 Monika Santucci

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O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 624

Client: O'Brien & Gere Engineers, Inc.
Project: Town of Dewitt Landfill - Dewitt, NY
Proj. Desc:
Package#: 6482
Sample: B1378
Sample Description: QC Trip Blank
Instrument: HP5973 GCMS#3
Units: ug/L
Number of analytes: 33

Job No.: 3435 . 036.11108
Certification NY No.: 10155

Collected: 10/03/03
Received: 10/03/03
Prepared: 10/07/03

Matrix: Water
QC Batch: 100703W3
%Solids:
Sample Size: 10 mL
Dilution: 5

Parameter	Result	Qual	PQL	Analyzed Notes
Chloromethane	<10.	U	10.	10/07/03
Vinyl chloride	<10.	U	10.	10/07/03
Bromomethane	<10.	U	10.	10/07/03
Chloroethane	<10.	U	10.	10/07/03
Trichlorofluoromethane	<5.0	U	5.0	10/07/03
1,1-Dichloroethene	<5.0	U	5.0	10/07/03
Methylene chloride	<5.0	U	5.0	10/07/03
trans-1,2-Dichloroethene	<5.0	U	5.0	10/07/03
1,1-Dichloroethane	<5.0	U	5.0	10/07/03
cis-1,2-Dichloroethene	<5.0	U	5.0	10/07/03
Chloroform	<5.0	U	5.0	10/07/03
1,2-Dichloroethane	<5.0	U	5.0	10/07/03
1,1,1-Trichloroethane	<5.0	U	5.0	10/07/03
Carbon tetrachloride	<5.0	U	5.0	10/07/03
Benzene	<5.0	U	5.0	10/07/03
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Bromodichloromethane	<5.0	U	5.0	10/07/03
2-Chloroethylvinyl ether	<10.	U	10.	10/07/03
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trans-1,3-Dichloropropene	<5.0	U	5.0	10/07/03
1,1,2-Trichloroethane	<5.0	U	5.0	10/07/03
Toluene	<5.0	U	5.0	10/07/03
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Tetrachloroethene	<5.0	U	5.0	10/07/03
Chlorobenzene	<5.0	U	5.0	10/07/03
Ethylbenzene	<5.0	U	5.0	10/07/03
Bromoform	<5.0	U	5.0	10/07/03
Xylene (total)	<5.0	U	5.0	10/07/03
1,1,2,2-Tetrachloroethane	<5.0	U	5.0	10/07/03
1,3-Dichlorobenzene	<5.0	U	5.0	10/07/03
1,4-Dichlorobenzene	<5.0	U	5.0	10/07/03
1,2-Dichlorobenzene	<5.0	U	5.0	10/07/03

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Instrument: HP5973 GCMS#3
Units: ug/L
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Certification NY No.: 10155

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%Solids:
Sample Size: 10 mL
Dilution: 5

Parameter	Result	Qual	PQL	Analyzed	Notes

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Dibromofluoromethane (surrogate)	103		78-125
1,2-Dichloroethane-d4 (surrogate)	91		76-134
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Bromofluorobenzene (surrogate)	86		71-120

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Date: October 8, 2003 Monika Santucci

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O'Brien & Gere Laboratories, Inc.

5000 Brittonfield Parkway
East Syracuse, New York 13057
(315) 437-0200

Chain of Custody

Client: TOWN OF DEWITT
Project: DEWITT LANDFILL 3rd QTR
Sampled by: SR SNELL
Client Contact: MJ PETRIE Phone # 2528

Analysis/Method

Sample Description

Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers	V.O. 624	PP METALS							Comments
														6482
SW-1	10/3/03	10:00	Water	Grab	4	✓	✓							
SW-3	10/3/03	10:30	Water	Grab	4	✓	✓							
TRIP BLANK					3									

Relinquished by: [signature]	Date: 10/3/03	Time: 11:45	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by Lab: Barbara [signature]	Date: 10/3/03	Time: 11:45
Shipment Method:			Airbill Number:		

Turnaround Time Required:
Routine_____
Rush (Specify)_____

Comments:

Cooler Temperature: 7.2°C - well iced

Original Laboratory Copy Client

Appendix B

Water Sampling Field Memo and Sampling Logs

O'BRIEN & GERE ENGINEERS, INC.

MEMO TO FILE

FROM: SR Snell SRS
DATE: October 6, 2003
FILE: 0123/32716
RE: DeWitt Landfill Quarterly Sampling (3rd)

cc: GD Cannerelli
MJ Petrie

On October 3, 2003, SR Snell traveled to the DeWitt landfill in the Town of DeWitt, New York for the purpose of conducting the third quarter sampling for 2003. The sampling consisted of three (3) surface water samples (SW-1, SW-2, and SW-3). The weather conditions at the time of sampling were sunny and cool (50°).

Surface water sample SW-2 was dry at the time of sampling.

Sampling protocol was done in accordance with the O'Brien & Gere Quality Assurance Manual, Volume 8 and the approved Town of DeWitt Landfill Monitoring and Maintenance Operations Manual dated December 1994 and Addendum dated June 1995. The surface water samples were transported to OBG Laboratories, Inc. for analysis of volatile organics and priority pollutant metals.

Field readings were taken for specific conductivity, temperature, pH, Eh, dissolved oxygen and turbidity. The following table summaries the pertinent data.

Well	Static Ground Water Elevation (Feet)	Well Volumes Removed Prior to Sampling	Specific Conductivity (uMHOs)	Temp. °C	pH	Eh	Turbidity (NTU)	Dissolved Oxygen (mg/L)
SW-1	N/A	N/A	1630	7.2	5.6	51.4	>999	12.8
SW-2	Dry	-	-	-	-	-	-	-
SW-3	N/A	N/A	748	6.9	7.1	-5.7	333	12.9

The samples were hand delivered in a cooler to OBG Laboratories, Inc.

SURFACE WATER SAMPLING FIELD LOG

SAMPLE LOCATION: **SW-1**

SAMPLED BY: **SR SNELL** DATE: **10/3/03** TIME: **10:00**

WEATHER: **SUNNY AND COOL 50°**

A. PHYSICAL APPEARANCE:

COLOR: **BROWN** ODOR: **SLIGHT** TURBIDITY: **>999 NTU**

WAS AN OIL FILM OR LAYER APPARENT? **ORGANIC SHEEN**

B. CONDUCTIVITY: **1630 uMHO's**

C. pH: **5.6**

D. TEMPERATURE: **7.2°C**

E. DISSOLVED OXYGEN: **12.8 mg/L**

F. SAMPLING NOTES:

SURFACE WATER SAMPLING FIELD LOG

SAMPLE LOCATION: **SW-2**

SAMPLED BY: **SR SNELL** DATE: **10/3/03** TIME: **10:15**

WEATHER: **SUNNY AND COOL 50°**

A. PHYSICAL APPEARANCE:

COLOR: ODOR: TURBIDITY:

WAS AN OIL FILM OR LAYER APPARENT?

B. CONDUCTIVITY:

C. pH:

D. TEMPERATURE:

E. DISSOLVED OXYGEN:

F. SAMPLING NOTES: **SAMPLE AREA WAS DRY**

SURFACE WATER SAMPLING FIELD LOG

SAMPLE LOCATION: **SW-3**

SAMPLED BY: **SR SNELL** DATE: **10/3/03** TIME: **10:30**

WEATHER: **SUNNY AND COOL 50°**

A. PHYSICAL APPEARANCE:

COLOR: **BROWN** ODOR: **SLIGHT** TURBIDITY: **333 NTU**

WAS AN OIL FILM OR LAYER APPARENT? **NO**

B. CONDUCTIVITY: **748 uMHO's**

C. pH: **7.1**

D. TEMPERATURE: **6.9°C**

E. DISSOLVED OXYGEN: **12.9 mg/L**

F. SAMPLING NOTES:

Appendix C

Landfill Inspection Form

TOWN OF DEWITT LANDFILL
INSPECTION AND MAINTENANCE
CHECKLIST

3rd QUARTER

DATE: 10/3/03

CC: MS KOLCESKI
MJ PETRIE

INSPECTOR: SR SNELL

Landfill Components	Checked	Comments	Maintenance Action Needed
1. Barrier Protection Layer Topsoil Layer and Vegetative Cover	✓	OK	
2. Gas Discharge Vents	✓	OK	
3. Swales, Ditches and Downchutes	✓	OK	
4. Storm Sewer System, including culverts	✓	OK	
5. Fence and Gates	✓	OK	
6. Access Road	✓	OK	
7. Perimeter Service Road	✓	OK	

Appendix D

Water Sampling Summary Tables

TABLE 1
TOWN OF DEWITT LANDFILL MONITORING
WELL WATER ANALYSIS

SW-1

PARAMETER	UNIT	LIMIT	Apr-03	Jul-03	Oct-03
METHOD: 624					
1,1,1-Trichloroethane	ug/l	5	< 5.0	< 5.0	< 5.0
1,1,2,2-Tetrachloroethane	ug/l	5	< 5.0	< 5.0	< 5.0
1,1,2-Trichloroethane	ug/l	5	< 5.0	< 5.0	< 5.0
1,1-Dichloroethane	ug/l	5	< 5.0	< 5.0	< 5.0
1,1-Dichloroethene	ug/l	5	< 5.0	< 5.0	< 5.0
1,2-Dichlorobenzene	ug/l	3	< 5.0	< 5.0	< 5.0
1,2-Dichloroethane	ug/l	5	< 5.0	< 5.0	< 5.0
1,2-Dichloroethane-d4 (surrogate)	%		103.	93.	92
1,2-Dichloropropane	ug/l	5	< 5.0	< 5.0	< 5.0
1,3-Dichlorobenzene	ug/l	5	< 5.0	< 5.0	< 5.0
1,4-Dichlorobenzene	ug/l	3	< 5.0	< 5.0	< 5.0
2-Chloroethylvinyl ether	ug/l		< 10.	< 10.	< 10.
Benzene	ug/l	1	< 5.0	< 5.0	< 5.0
Bromodichloromethane	ug/l	50	< 5.0	< 5.0	< 5.0
Bromofluorobenzene (surrogate)	%		101.	93.	89
Bromoform	ug/l	50	< 5.0	< 5.0	< 5.0
Bromomethane	ug/l	5	< 10.	< 10.	< 10.
Carbon tetrachloride	ug/l	5	< 5.0	< 5.0	< 5.0
Chlorobenzene	ug/l	5	< 5.0	< 5.0	< 5.0
Chloroethane	ug/l	5	< 10.	< 10.	< 10.
Chloroform	ug/l	7	< 5.0	< 5.0	< 5.0
Chloromethane	ug/l		< 10.	< 10.	< 10.
cis-1,2-Dichloroethene	ug/l	5	< 5.0	< 5.0	< 5.0
cis-1,3-Dichloropropene	ug/l	5	104.	< 5.0	< 5.0
Dibromochloromethane	ug/l	5	< 5.0	< 5.0	< 5.0
Dibromofluoromethane (surrogate)	%		104	90.	102
Ethylbenzene	ug/l	5	< 5	< 5.0	< 5.0
Methylene chloride	ug/l	5	< 5	< 5.0	< 5.0
Toluene	ug/l	5	< 5	< 5.0	< 5.0
Toluene-d8 (surrogate)	%			106.	107
Tetrachloroethene	ug/l	5	< 5	< 5.0	< 5.0
trans-1,2-Dichloroethene	ug/l	5	< 5	< 5.0	< 5.0
trans-1,3-Dichloropropene	ug/l	5	< 5	< 5.0	< 5.0
Trichloroethene	ug/l	5	< 5	< 5.0	< 5.0
Trichlorofluoromethane	ug/l		< 5	< 5.0	< 5.0
Vinyl chloride	ug/l	2	< 10	< 10.	< 10.
Xylene (total)	ug/l	5	< 5	< 5.0	< 5.0

Exceeds the N.Y.S. Water Quality Standards for Class GA Fresh

TABLE
TOWN OF DEWITT LANDFILL MONITORING
WELL WATER ANALYSIS

SW-1

PARAMETER	UNIT	LIMIT	Apr-03	Jul-03	Oct-03
TRACE METALS					
Antimony	mg/l	0.003	< .060	< .060	< .060
Arsenic	mg/l	0.025	< .0050	.0091	0.022
Beryllium	mg/l	0.003	< .010	< .010	< .010
Cadmium	mg/l	0.005	< .010	< .010	< .010
Chromium	mg/l	0.05	.017	< .010	0.016
Copper	mg/l	0.2	.027	< .010	0.014
Lead	mg/l	0.025	.0072	< .0050	0.024
Mercury	mg/l	0.0007	< .00020	< .00020	< .00020
Nickel	mg/l		< .050	< .050	< .050
Selenium	mg/l	0.01	.011	< .0050	0.0075
Silver	mg/l	0.05	< .010	< .010	< .010
Thallium	mg/l	0.008	< .010	< .010	< .010
Zinc	mg/l	0.3	.049	.085	0.048
FIELD DATA					
STATIC GROUND WATER ELEV.	ft.		-	-	-
SPECIFIC CONDUCTIVITY	umho		1750	2200	1630
TEMPERATURE	deg C		8.2	19	7.2
Ph	su		6.1	6.5	5.6
Eh	Eh		51.43	51.4	51.4
TURBIDITY	NTU	5	100	320	>999
DISSOLVED OXYGEN	mg/l		14.67	11.3	12.8

Exceeds the N.Y.S. Water Quality Standards for Class GA Fresh Ground Water

TABLE 1
TOWN OF DEWITT LANDFILL MONITORING
WELL WATER ANALYSIS

SW-2

PARAMETER	UNIT	LIMIT	Apr-03	Jul-03	Oct-03
METHOD: 624					
1,1,1-Trichloroethane	ug/l	5	< 5.0	-	-
1,1,2,2-Tetrachloroethane	ug/l	5	< 5.0	-	-
1,1,2-Trichloroethane	ug/l	5	< 5.0	-	-
1,1-Dichloroethane	ug/l	5	< 5.0	-	-
1,1-Dichloroethene	ug/l	5	< 5.0	-	-
1,2-Dichlorobenzene	ug/l	3	< 5.0	-	-
1,2-Dichloroethane	ug/l	5	< 5.0	-	-
1,2-Dichloroethane-d4 (surrogate)	%		103.	-	-
1,2-Dichloropropane	ug/l	5	< 5.0	-	-
1,3-Dichlorobenzene	ug/l	5	< 5.0	-	-
1,4-Dichlorobenzene	ug/l	3	< 5.0	-	-
2-Chloroethylvinyl ether	ug/l		< 10.	-	-
Benzene	ug/l	1	< 5.0	-	-
Bromodichloromethane	ug/l	50	< 5.0	-	-
Bromofluorobenzene (surrogate)	%		103.	-	-
Bromoform	ug/l	50	< 5.0	-	-
Bromomethane	ug/l	5	< 10.	-	-
Carbon tetrachloride	ug/l	5	< 5.0	-	-
Chlorobenzene	ug/l	5	< 5.0	-	-
Chloroethane	ug/l	5	< 10.	-	-
Chloroform	ug/l	7	< 5.0	-	-
Chloromethane	ug/l		< 10.	-	-
cis-1,2-Dichloroethene	ug/l	5	< 5.0	-	-
cis-1,3-Dichloropropene	ug/l	5	< 5.0	-	-
Dibromochloromethane	ug/l	5	< 5.0	-	-
Dibromofluoromethane (surrogate)	%		104.	-	-
Ethylbenzene	ug/l	5	< 5.0	-	-
Methylene chloride	ug/l	5	< 5.0	-	-
Tetrachloroethene	ug/l	5	< 5.0	-	-
Toluene	ug/l	5	< 5.0	-	-
Toluene-d8 (surrogate)	%		107.	-	-
trans-1,2-Dichloroethene	ug/l	5	< 5.0	-	-
trans-1,3-Dichloropropene	ug/l	5	< 5.0	-	-
Trichloroethene	ug/l	5	< 5.0	-	-
Trichlorofluoromethane	ug/l		< 5.0	-	-
Vinyl chloride	ug/l	2	< 10.	-	-
Xylene (total)	ug/l	5	< 5.0	-	-

Exceeds the N.Y.S. Water Quality Standards for Class GA Fresh Ground Water

TABLE
TOWN OF DEWITT LANDFILL MONITORING
WELL WATER ANALYSIS

SW-2

PARAMETER	UNIT	LIMIT	Apr-03	Jul-03	Oct-03
TRACE METALS					
Antimony	mg/l	0.003	< .060	-	-
Arsenic	mg/l	0.025	< .0050	-	-
Beryllium	mg/l	0.003	< .010	-	-
Cadmium	mg/l	0.005	< .010	-	-
Chromium	mg/l	0.05	.017	-	-
Copper	mg/l	0.2	.027	-	-
Lead	mg/l	0.025	.0072	-	-
Mercury	mg/l	0.0007	< .00020	-	-
Nickel	mg/l		< .050	-	-
Selenium	mg/l	0.01	.011	-	-
Silver	mg/l	0.05	< .010	-	-
Thallium	mg/l	0.008	< .010	-	-
Zinc	mg/l	0.3	.049	-	-
FIELD DATA					
STATIC GROUND WATER ELEV.	ft.		-	-	-
SPECIFIC CONDUCTIVITY	umho		1000	-	-
TEMPERATURE	deg C		0	-	-
Ph	su		7	-	-
Eh	Eh		0	-	-
TURBIDITY	NTU	5	197	-	-
DISSOLVED OXYGEN	mg/l		19.99	-	-

Exceeds the N.Y.S. Water Quality Standards for Class GA Fresh Ground Water

TABLE 1
TOWN OF DEWITT LANDFILL MONITORING
WELL WATER ANALYSIS

SW-3

PARAMETER	UNIT	LIMIT	Apr-03	Jul-03	Oct-03
METHOD: 624					
1,1,1-Trichloroethane	ug/l	5	< 5.0	< 5.0	< 5.0
1,1,2,2-Tetrachloroethane	ug/l	5	< 5.0	< 5.0	< 5.0
1,1,2-Trichloroethane	ug/l	5	< 5.0	< 5.0	< 5.0
1,1-Dichloroethane	ug/l	5	< 5.0	< 5.0	< 5.0
1,1-Dichloroethene	ug/l	5	< 5.0	< 5.0	< 5.0
1,2-Dichlorobenzene	ug/l	3	< 5.0	< 5.0	< 5.0
1,2-Dichloroethane	ug/l	5	< 5.0	< 5.0	< 5.0
1,2-Dichloroethane-d4 (surrogate)	%		103.	94.	93
1,2-Dichloropropane	ug/l	5	< 5.0	< 5.0	< 5.0
1,3-Dichlorobenzene	ug/l	5	< 5.0	< 5.0	< 5.0
1,4-Dichlorobenzene	ug/l	3	< 5.0	< 5.0	< 5.0
2-Chloroethylvinyl ether	ug/l		< 10.	< 10.	< 10.
Benzene	ug/l	1	< 5.0	< 5.0	< 5.0
Bromodichloromethane	ug/l	50	< 5.0	< 5.0	< 5.0
Bromofluorobenzene (surrogate)	%		103.	90.	89
Bromoform	ug/l	50	< 5.0	< 5.0	< 5.0
Bromomethane	ug/l	5	< 10.	< 10.	< 10.
Carbon tetrachloride	ug/l	5	< 5.0	< 5.0	< 5.0
Chlorobenzene	ug/l	5	< 5.0	< 5.0	< 5.0
Chloroethane	ug/l	5	< 10.	< 10.	< 10.
Chloroform	ug/l	7	< 5.0	< 5.0	< 5.0
Chloromethane	ug/l		< 10.	< 10.	< 10.
cis-1,2-Dichloroethene	ug/l	5	< 5.0	< 5.0	< 5.0
cis-1,3-Dichloropropene	ug/l	5	< 5.0	< 5.0	< 5.0
Dibromochloromethane	ug/l	5	< 5.0	< 5.0	< 5.0
Dibromofluoromethane (surrogate)	%		104.	90.	102
Ethylbenzene	ug/l	5	< 5.0	< 5.0	< 5.0
Methylene chloride	ug/l	5	< 5.0	< 5.0	< 5.0
Tetrachloroethene	ug/l	5	< 5.0	< 5.0	< 5.0
Toluene	ug/l	5	< 5.0	< 5.0	< 5.0
Toluene-d8 (surrogate)	%		107.	106.	106.
trans-1,2-Dichloroethene	ug/l	5	< 5.0	< 5.0	< 5.0
trans-1,3-Dichloropropene	ug/l	5	< 5.0	< 5.0	< 5.0
Trichloroethene	ug/l	5	< 5.0	< 5.0	< 5.0
Trichlorofluoromethane	ug/l		< 5.0	< 5.0	< 5.0
Vinyl chloride	ug/l	2	< 10.	< 10.	< 10.
Xylene (total)	ug/l	5	< 5.0	< 5.0	< 5.0

Exceeds the N.Y.S. Water Quality Standards for Class GA Fresh Ground Water

TABLE
TOWN OF DEWITT LANDFILL MONITORING
WELL WATER ANALYSIS

SW-3

PARAMETER	UNIT	LIMIT	Dec-02	Apr-03	Oct-03
TRACE METALS					
Antimony	mg/l	0.003	< 0.06	< .060	< 0.06
Arsenic	mg/l	0.025	< 0.005	< .0050	< 0.005
Beryllium	mg/l	0.003	< 0.01	< .010	< 0.01
Cadmium	mg/l	0.005	< 0.01	< .010	< 0.01
Chromium	mg/l	0.05	< 0.01	.017	0.013
Copper	mg/l	0.2	< 0.01	.027	< 0.01
Lead	mg/l	0.025	< 0.005	.0072	0.0063
Mercury	mg/l	0.0007	< 0.0002	< .00020	< .00020
Nickel	mg/l		< 0.05	< .050	< 0.05
Selenium	mg/l	0.01	< 0.005	.011	< 0.005
Silver	mg/l	0.05	< 0.01	< .010	< 0.01
Thallium	mg/l	0.008	< 0.01	< .010	< 0.01
Zinc	mg/l	0.3	0.03	.049	0.032
FIELD DATA					
STATIC GROUND WATER ELEV.	ft.		-	-	-
SPECIFIC CONDUCTIVITY	umho		1140	702	748
TEMPERATURE	deg C		0	2.2	6.9
Ph	su		6.9	8.3	7.1
Eh	Eh		5.7	-74.28	-5.7
TURBIDITY	NTU	5	275	10	333
DISSOLVED OXYGEN	mg/l		9.1	16.04	12.9

Exceeds the N.Y.S. Water Quality Standards for Class GA Fresh Ground Water

Appendix E

Water Sampling Location Plans

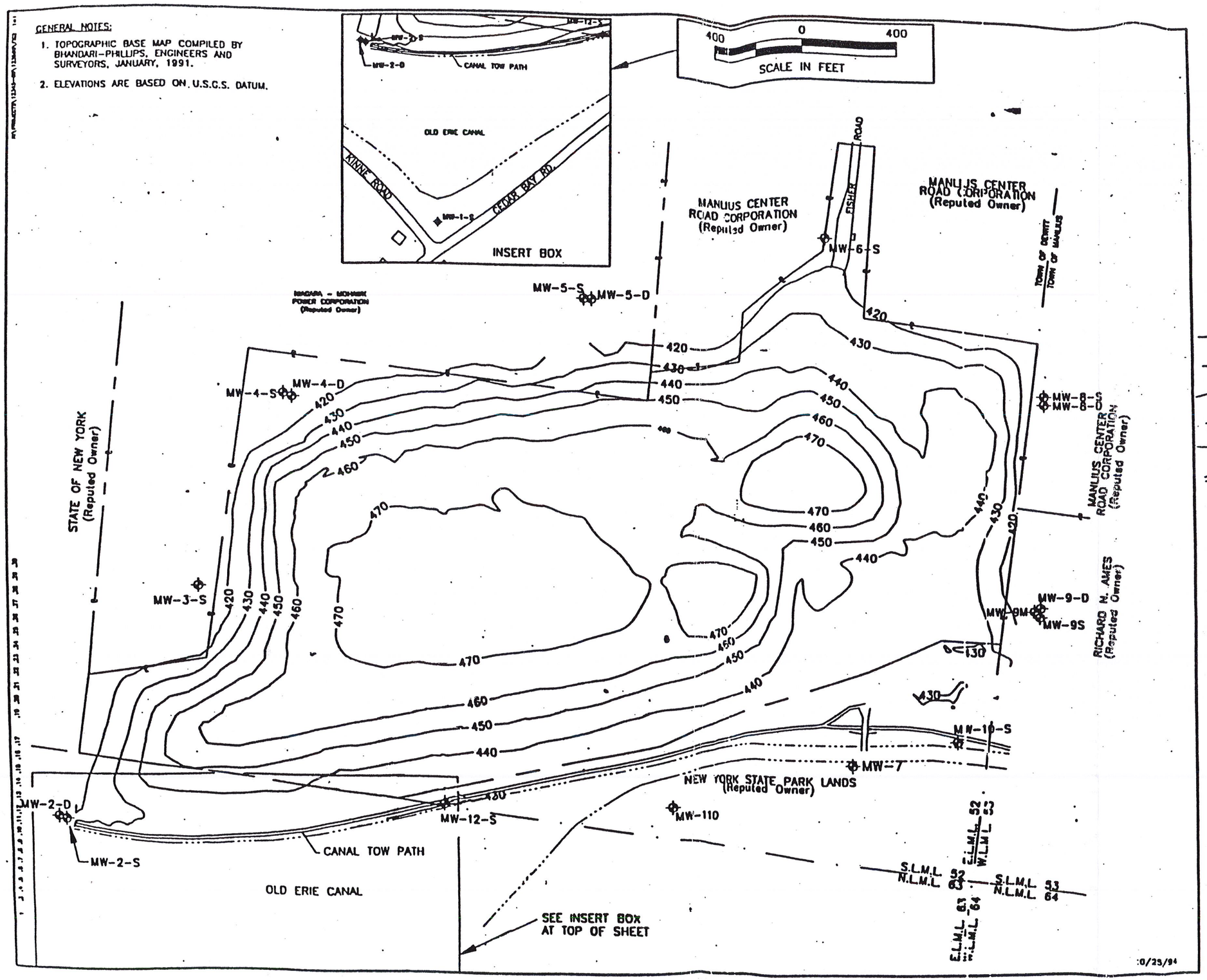


FIGURE 2

TOWN OF DEWITT LANDFILL
DEWITT, NEW YORK

LEGEND

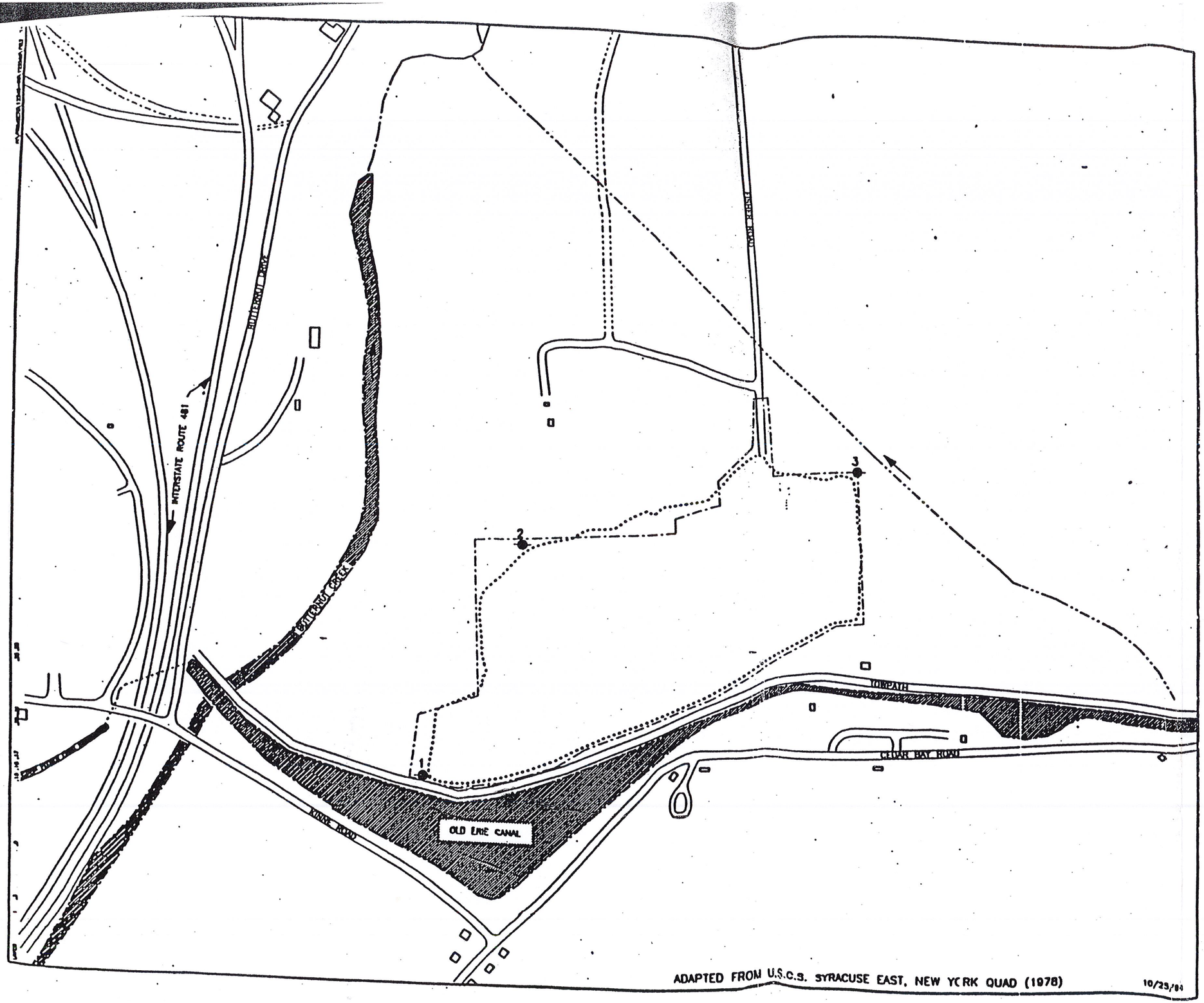
- PROPERTY LINE
- E.L.M.L. 52 — MILITARY LOT LINE
- 420 — EXISTING CONTOUR (10')
- EDGE OF CANAL
- EXISTING FENCE
- EXISTING CANAL TOW PA
- MW-5-S — EXISTING MONITOR WELL

GROUND WATER SAMPLING LOCATIONS

250 0 250
SCALE IN FEET

123.566

O'BRIEN & GERE



ADAPTED FROM U.S.G.S. SYRACUSE EAST, NEW YORK QUAD (1978)

10/23/84

FIGURE 3

TOWN OF DEWITT LANDFILL
DEWITT, NEW YORK

LEGEND

- APPROXIMATE SURFACE WATER SAMPLE LOCATION
- PROPERTY BOUNDARY
- APPROXIMATE FILL LIMITS
- INTERMITTENT STREAM

SURFACE WATER SAMPLING LOCATIONS

500 0 500

SCALE IN FEET

123.566

O'BRIEN & GERE ENGINEERS, INC.

Appendix F

Air Sampling Field Memo and Analytical Results

From: Jason A. Hudson

CC: MJ Petrie, Matthew Traister, MSKolceski

Re: Town of DeWitt Landfill – 2003 Third Quarter Air Sampling Project

File: 123/32716

Date: 09/23/03

O'Brien & Gere Engineers, Inc. (O'Brien & Gere) is pleased to provide results of 2003 air sampling data collected at the Town of DeWitt Landfill (Landfill) located in DeWitt, New York. On August 20, 2003, Jason Hudson of O'Brien & Gere, collected air sample measurements at the Landfill according to the 1995 **Town of DeWitt Landfill Monitoring and Maintenance Operations Manual** (Manual), and a letter to Mr. Michael Kolceski from Mr. Carl S. Cuipylo of the New York State Department of Environmental Conservation (NYSDEC) dated April 17, 2003. The August 20, 2003 sampling consisted of meteorological monitoring, gas vent sampling, and perimeter monitoring. A copy of the DeWitt Landfill Air Sampling Field Log (Manual – Appendix N-R1) is provided in Attachment A.

Meteorological Monitoring

- Wind Speed = 5 mph
- Wind direction = East/Southeast
- Temperature = 84 °F
- Barometric pressure = 30.13

Gas Vent Sampling

- Exhaust gas velocity measurements were conducted a t vents V-3, V-9, V-10, V-11, V-12, and V-18. Vents V-3, V-10, V-12 had the highest measured exhaust gas velocities. Consistent with the scope of work and method detailed in the manual, vents V-3, V-10, and V-12 were sampled. Grab air samples were collected at these vents for the compounds with the ten highest detected concentrations (Tentatively Identified Compounds {TICs}). The samples were collected in accordance with the procedures outlined in the Manual and in the April 17, 2003 letter which includes a blind duplicate sample collected every sampling event. For the August 20, 2003 sampling event, a blind duplicate was collected at vent V-3.

  The samples were submitted to PSC Analytical Services for analysis according to the Environmental Protection Agency (EPA) analytical Method TO-14. The analytical results are presented in Attachment B and summarized in Table 1, in units of micrograms per cubic meter of sampled air (ug/m^3).

Perimeter Monitoring

- Combustible gas monitoring was conducted at six downwind locations. The results of the combustible gas monitoring are provided In Attachment A.

Attachments: Attachment A – DeWitt Landfill Air Sampling Field Log
Attachment B – Air Sampling Analysis
Table 1 – Exhaust Vent Sampling Results Summary
Air Monitoring Location Plan

Attachment A
DeWitt Landfill Air Sampling Field Log

DEWITT LANDFILL
AIR SAMPLING FIELD LOG

APPENDIX N-R1

SAMPLED BY Jason Hudson DATE 8/20/03 TIME 9:30 - 14:30

WIND DIRECTION East / Southeast WIND SPEED 5 mph

TEMPERATURE 84°F BAROMETRIC PRESSURE 30.13" R or (F)

Relative Humidity - 45%

A. Vent Velocity Determination

Vent No.	Velocity Traverse Readings (6)	Average Vel.	Real-time VOC measurement*
1. V-3	~~40, 37, 58, 44, 77, 64~~ fpm	49.3 fpm	N/A
2. V-9	37, 25, 43, 55, 28, 32	36.6	
3. V-10	47, 40, 75, 53, 35, 40	48.3	
4. V-11	54, 28, 50, 39, 30, 36	34.0	
5. V-12	56, 50, 50, 56, 55, 82	58.2	
6. V-18	45, 13, 87, 94, 29, 38	46.2	

*Real-time VOC field measurements are only required when more than 3 vents with the highest velocity have identical average velocities.

B. VOC and SVOC Vent Sampling:

Sampled Vent Nos: V-3, V-10, V-12
Sampling Device: Vacuum cylinder & Tedlar bag

C. Combustible Gas (CG) Monitoring: Indicate wind direction, downwind perimeter monitored and corresponding CG measurement point numbers

Serial #	Comb. Gas Point No.	% LEL Reading
7428299	1	<0
783115	2	<0
0052042	3	<0
7723172	4	<0
252043	5	<0
782 7122	6	0.1%

D. Blind Duplicate Required Every Other Quarter:
Taken: (Y) or N

E. Site Map: refer to map on reverse side.

Attachment B
Air Sampling Analysis

PASC - Certificate of Analysis

			Method Blank	Method Blank	Method Blank	V-3-82003	V-12-82003
	Client ID:						
	Lab No.:		045683 03	045683 03	045683 03	045684 03	045685 03
	Date Sampled:		20-Aug-2003	20-Aug-2003	20-Aug-2003	20-Aug-2003	20-Aug-2003
Component	**MDL**	**Units**		M. Spike	MS % Rec.		
Can pressure (P1) as received		psig	<	-	-	<	<
Temperature when P1 measured		degC	20	-	-	20	20
Can pressure (P2) for analysis		psig	<	-	-	<	<
Temperature when P2 measured		degC	20	-	-	20	20
Dichlorodifluoromethane	0.20	ppbv	<	64	130	2100	460
Chloromethane	0.29	"	<	64	130	3.2	5.8
Halocarbon 114	0.17	"	<	64	130	97	42
Vinyl Chloride	0.09	"	<	63	130	290	240
Chloroethane	0.10	"	<	64	130	200	570
1,2-Dichloroethane	0.15	"	<	61	130	<1.5	<1.5
Bromomethane	0.09	"	<	59	120	<0.90	<0.90
Trichlorofluoromethane	0.14	"	<	64	130	81	550
1,1-Dichloroethylene	0.19	"	<	64	130	<1.9	<1.9
cis-1,2-dichloroethylene	0.14	"	<	59	120	40	47
1,1-Dichloroethane	0.17	"	<	59	120	6.2	3.6
1,2-Dichloropropane	0.15	"	<	63	130	<1.5	<1.5
Dichloromethane	0.20	"	0.85	59	120	27	11
Chloroform	0.15	"	<	61	120	<1.5	<1.5
1,1,2,2-Tetrachloroethane	0.22	"	<	54	110	<2.2	<2.2
Halocarbon 113	0.14	"	<	64	130	<1.4	1.6
1,1,1-Trichloroethane	0.14	"	<	62	130	<1.4	3.0
1,1,2-Trichloroethane	0.12	"	<	58	120	<1.2	<1.2
Toluene	0.13	"	<	60	130	170	400
Benzene	0.17	"	<	62	120	460	570
cis-1,3-Dichloropropene	0.14	"	<	52	110	<1.4	<1.4
trans-1,3-Dichloropropene	0.11	"	<	41	88	<1.1	<1.1
Trichloroethylene	0.13	"	<	62	130	4.4	10.0
Tetrachloroethylene	0.15	"	<	60	130	4.5	27
Carbon tetrachloride	0.15	"	<	56	120	<1.5	<1.5
Ethylene Dibromide	0.15	"	<	53	110	<1.5	<1.5
Ethylbenzene	0.15	"	<	59	120	640	1700
M&P-Xylene	0.37	"	<	120	120	370	480
O-Xylene	0.19	"	<	58	120	65	290
1,3,5-Trimethylbenzene	0.26	"	<	45	91	50	160
1,2,4-Trimethylbenzene	0.25	"	<	47	96	73	120
1,3-Dichlorobenzene	0.40	"	<	56	110	<4.0	<4.0
1,4-Dichlorobenzene	0.40	"	<	57	120	4.7	<4.0
1,2-Dichlorobenzene	0.40	"	<	55	110	<4.0	<4.0
1,2,4-Trichlorobenzene	1.0	"	<	59	120	<10	<10
Hexachlorobutadiene	1.0	"	<	56	110	<10	<10
Internal Recoveries		%					
Bromochloromethane			86	102	102	89	101
1,4-Difluorobenzene			87	103	103	94	105
Chlorobenzene-d5			86	104	104	105	111

Client:O'Brien Gere Engineers Inc Project:32716.020.502

PASC - Certificate of Analysis

	Client ID:		V-10-82003	V-3D-82003
	Lab No.:		045686 03	045687 03
	Date Sampled:		20-Aug-2003	20-Aug-2003
Component	**MDL**	**Units**		
Can pressure (P1) as received		psig	<	<
Temperature when P1 measured		degC	20	20
Can pressure (P2) for analysis		psig	<	<
Temperature when P2 measured		degC	20	20
Dichlorodifluoromethane	0.20	ppbv	260	1200
Chloromethane	0.29	"	4.7	<2.9
Halocarbon 114	0.17	"	56	53
Vinyl Chloride	0.09	"	190	200
Chloroethane	0.10	"	260	130
1,2-Dichloroethane	0.15	"	<1.5	<1.5
Bromomethane	0.09	"	<0.90	<0.90
Trichlorofluoromethane	0.14	"	160	41
1,1-Dichloroethylene	0.19	"	<1.9	<1.9
cis-1,2-dichloroethylene	0.14	"	24	28
1,1-Dichloroethane	0.17	"	<1.7	4.0
1,2-Dichloropropane	0.15	"	<1.5	<1.5
Dichloromethane	0.20	"	13	12
Chloroform	0.15	"	<1.5	<1.5
1,1,2,2-Tetrachloroethane	0.22	"	<2.2	<2.2
Halocarbon 113	0.14	"	<1.4	<1.4
1,1,1-Trichloroethane	0.14	"	<1.4	<1.4
1,1,2-Trichloroethane	0.12	"	<1.2	<1.2
Toluene	0.13	"	400	110
Benzene	0.17	"	680	330
cis-1,3-Dichloropropene	0.14	"	<1.4	<1.4
trans-1,3-Dichloropropene	0.11	"	<1.1	<1.1
Trichloroethylene	0.13	"	5.3	3.3
Tetrachloroethylene	0.15	"	7.4	3.3
Carbon tetrachloride	0.15	"	<1.5	<1.5
Ethylene Dibromide	0.15	"	<1.5	<1.5
Ethylbenzene	0.15	"	2300	480
M&P-Xylene	0.37	"	340	260
O-Xylene	0.19	"	200	46
1,3,5-Trimethylbenzene	0.26	"	160	34
1,2,4-Trimethylbenzene	0.25	"	120	44
1,3-Dichlorobenzene	0.40	"	<4.0	<4.0
1,4-Dichlorobenzene	0.40	"	16	<4.0
1,2-Dichlorobenzene	0.40	"	<4.0	<4.0
1,2,4-Trichlorobenzene	1.0	"	<10	<10
Hexachlorobutadiene	1.0	"	<10	<10
Internal Recoveries		%		
Bromochloromethane			98	96
1,4-Difluorobenzene			103	101
Chlorobenzene-d5			108	103

Client:O'Brien Gere Engineers Inc Project:32716.020.502

Volatile Organics Analysis Data Sheets
Tentatively Identified Compounds

Client ID: MBLANK

Sample ID: **BL0824 03**

Number of TICs found:_0

Concentration Units
PPBV

	CAS #	Compound Name	RT	Est. Conc.	Match %
1.		NO COMPOUNDS FOUND			
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					

Volatile Organics Analysis Data Sheets
Tentatively Identified Compounds

Client ID: V-12-82003

Sample ID: 045685 03

Number of TICs found: 10

Concentration Units
PPBV

	CAS #	Compound Name	RT	Est. Conc.	Match %
1.	000108-87-2	CYCLOHEXANE,METHYL.	15.44	1700	
2.		UNKNOWN CYCLIC HYDROCARBON	17.12	1500	
3.		UNKNOWN ALIPHATIC HYDROCARBON	21.22	2300	
4.		UNKNOWN CYCLIC HYDROCARBON	21.38	1800	
5.	000080-56-8	.ALPHA.-PINENE,(-)-	21.54	2200	94
6.		UNKNOWN ALIPHATIC HYDROCARBON	21.98	2400	
7.		UNKNOWN ALIPHATIC HYDROCARBON	22.19	1900	
8.		UNKNOWN CYCLIC HYDROCARBON	22.72	1800	
9.	000124-18-5	DECANE	22.82	1900	94
10.		UNKNOWN ALIPHATIC HYDROCARBON	23.4	1700	

Philip Analytical Services Corp.

Semi-Volatile Organics Analysis Data Sheets
Tentatively Identified Compounds

Client ID: V-10-82003

Sample ID: 045686 03

Number of TICs found: 10

Concentration Units
PPBV

	CAS #	Compound Name	RT	Est. Conc.	Match %
1.		UNKNOWN CYCLIC HYDROCARBON	17.13	1600	
2.		UNKNOWN ALIPHATIC HYDROCARBON	20.80	1800	
3.		UNKNOWN ALIPHATIC HYDROCARBON	21.23	3100	
4.		UNKNOWN CYCLIC HYDROCARBON	21.39	1600	
5.	000080-56-8	.ALPHA.-PINENE,(-)-	21.54	2000	94
6.		UNKNOWN ALIPHATIC HYDROCARBON	21.98	2600	
7.		UNKNOWN ALIPHATIC HYDROCARBON	22.19	2600	
8.		UNKNOWN CYCLIC HYDROCARBON	22.73	2400	
9.	000124-18-5	DECANE	22.83	2800	94
10.		UNKNOWN ALIPHATIC HYDROCARBON	23.4	2600	90

Semi-Volatile Organics Analysis Data Sheets
Tentatively Identified Compounds

Client ID: V-3D-82003

Sample ID: **045687 03**

Number of TICs found: 8

Concentration Units
PPBV

	CAS #	Compound Name	RT	Est. Conc.	Match %
1.		UNKNOWN	3.89	5900	
2.	000115-11-7	1-PROPENE,2-METHYL-	5.05	2100	90
3.	000106-97-8	BUTANE	5.19	3200	64
4.	000078-78-4	BUTANE,2-METHYL-	7.05	1500	91
5.	000109-66-0	PENTANE	7.86	2100	86
6.	000107-83-5	PENTANE,2-METHYL	10.18	1600	91
7.	000096-14-0	PENTANE,3-METHYL-	10.68	1300	91
8.	000110-54-3	HEXANE	11.28	2300	90
9.	000108-87-2	CYCLOHEXANE,METHYL-	15.44	1400	96
10.		UNKNOWN ALIPHATIC HYDROCARBON	21.98	970	

PSC PHILIP SERVICES

North/East: 800 345-4026
Central: 800 LPHILIP
West: 800 440-4808

CHAIN OF CUSTODY RECORD

PROVIDING A COMPLETE LINE OF INDUSTRIAL HYGIENE AND ENVIRONMENTAL SERVICES

REPORT RESULTS TO:	
NAME	O'Brien & Gere Engineers, Inc. TITLE Scientist
COMPANY	Attn: Jason Hudson
MAILING ADDRESS	5000 Brittonfield Parkway
CITY, STATE, ZIP	Syracuse NY 13221
TELEPHONE NO.	315 437 6100 FAX NO. 315 463 7554

SEND INVOICE TO:	
PURCASE ORDER NUMBER	32716.020.502 JOB I.D.
NAME	Same as report information
COMPANY	DEPT
ADDRESS	
CITY, STATE, ZIP	

SPECIAL INSTRUCTIONS

TIC's - Scan samples for TIC's for the 10 highest concentration compounds that contain 12 or less carbon atoms per molecule.

ANALYSIS REQUESTED

SAMPLE IDENTIFICATION/DESCRIPTION	AIR VOL.	MATRIX TYPE	DATE SAMPLED	TIME SAMPLED	PRES	NO CONT	TO-14 (VOC's SVOC)	TIC's - see special instructions	COMMENTS
V-3 - 82003	0.7	Air	8/20/03	1055			✓	✓	Std turnaround
V-12 - 82003	↓	↓	↓	1104			✓	✓	
V-10 - 82003				1116			✓	✓	
V-3D - 82003				1055			✓	✓	

EMPTY CONTAINER DISPATCHED BY:	DATE:	TIME:	RECEIVED BY:	SAMPLER (SIGNITURE)
JAH	8/20/03	—	JAH	Jason Hudson

RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:	RELINQUISHED BY:
Jason Hudson	8/20/03	1330		

RELINQUISHED BY:	DATE:	TIME:	RECEIVED FOR LABORATORY BY:	DATE:	TIME:	CONDITION OF SAMPLES UPON RECEIPT	CUSTODY SEALS INTACT Y N N/A

DATA DELIVERABLES (ADDITIONAL CHARGES MAY APPLY)

- ☐ FULL
- ☐ REDUCED
- ☐ RESULTS ONLY
- ☐ OTHER (SPECIFY)

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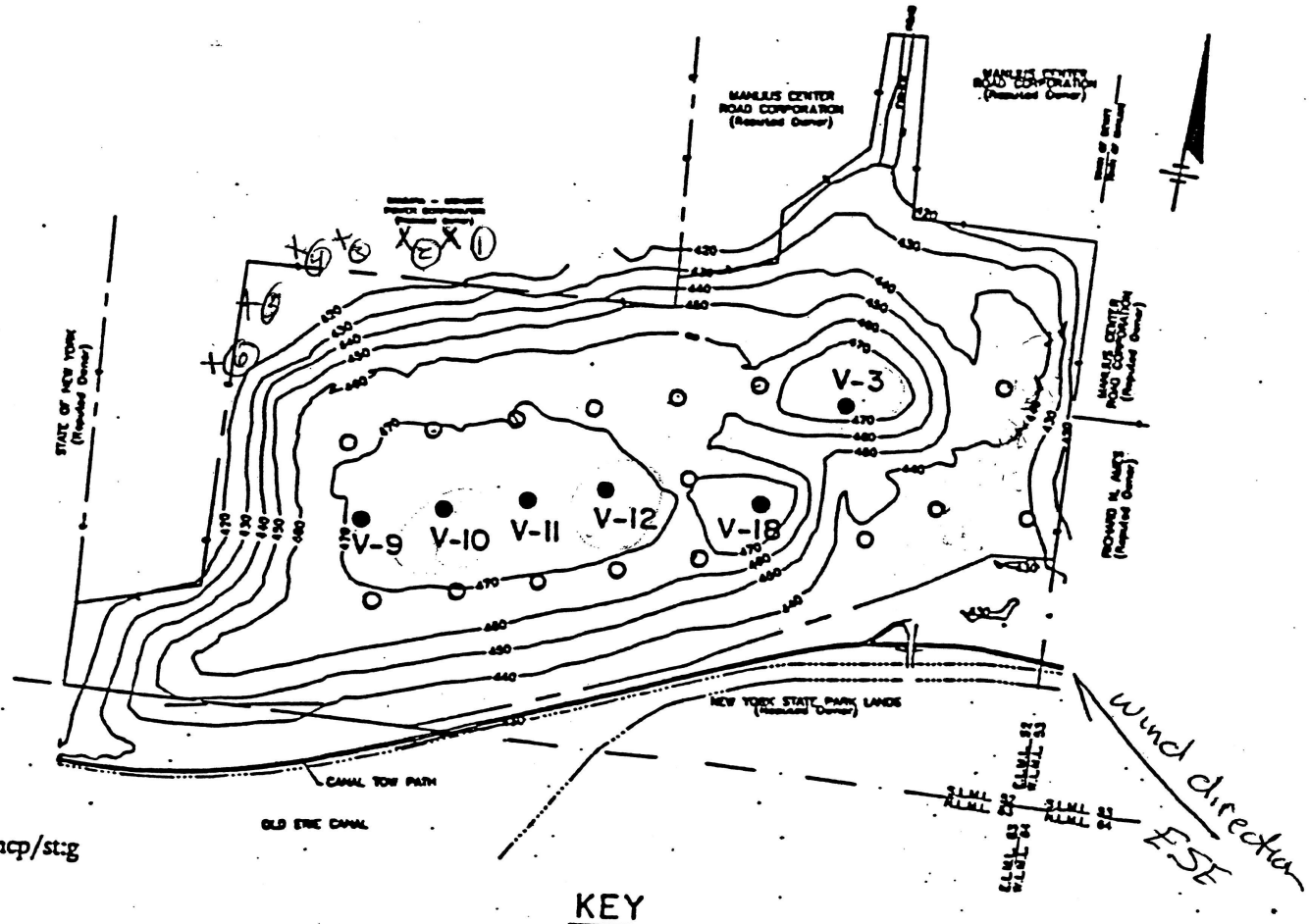
DeWitt Landfill 2003
Exhaust Vent Sampling Results Summary
Table 1

Parameter	*Vent Number*			
	V-3	*V-3D*	*V-10*	*V-12*
Exhaust velocity (fpm)				
Chloromethane (74-87-3)	3.2	5.8	4.7	<2.9
Vinyl Chloride (75-01-4)	290	240	190	200
Bromomethane (74-83-9)	<0.9	<0.9	<0.9	<0.9
Chloroethane (75-00-3)	200	570	260	130
Dichlorodifluoromethane	2100	460	260	1200
Trichlorofluoromethane (75-69-4)	81	550	160	41
Halocarbon 114	97	42	56	53
1,1-Dichloroethylene	<1.9	<1.9	<1.9	<1.9
cis-1,2-dichloroethylene	40	47	24	28
Dichloromethane	27	11	13	12
Halocarbon 113	<1.4	1.6	<1.4	<1.4
1,1-Dichloroethane (75-34-3)	6.2	3.6	<1.7	4.0
Trichloroethylene	4.4	10	5.3	3.3
Tetrachloroethylene	4.5	27	7.4	3.3
Ethylene Dibromide	<1.5	<1.5	<1.5	<1.5
1,3,5-Trimethylbenzene	50	160	160	34
Chloroform (67-66-3)	<1.5	<1.5	<1.5	<1.5
1,2-Dichloroethane (107-06-2)	<1.5	<1.5	<1.5	<1.5
1,1,1-Trichloroethane (71-55-6)	<1.4	3.0	<1.4	<1.4
Benzene (71-43-2)	460	570	680	330
Carbon Tetrachloride (56-23-5)	<1.5	<1.5	<1.5	<1.5
1,2-Dichloropropane (78-87-5)	<1.5	<1.5	<1.5	<1.5
1,2,4-Trimethylbenzene	73	120	120	44
1,2,4-Trichlorobenzene	<10	<10	<10	<10
cis-1,3-Dichloropropene (10061-01-5)	<1.4	<1.4	<1.4	<1.4
Hexachlorobutadiene	<10	<10	<10	<10
trans-1,3-Dichloropropene (10061-02-6)	<1.1	<1.1	<1.1	<1.1
1,1,2-Trichloroethane (79-00-5)	<1.2	<1.2	<1.2	<1.2
Toluene (108-88-3)	170	400	400	110
Bromochloromethane	89	101	98	96
1,4-Difluorobenzene	94	105	103	101
Chlorobenzene (108-90-7)	105	111	108	103
Ethylbenzene (100-41-4)	640	1700	2300	480
Total Xylene (1330-20-7 & 95-47-6)	435	770	540	306

Parameter	*Vent Number*			
	V-3	*V-3D*	*V-10*	*V-12*
1,1,2,2-Tetrachloroethane (79-34-5)	<2.2	<2.2	<2.2	<2.2
1,3-Dichlorobenzene (541-73-)	<4.0	<4.0	<4.0	<4.0
1,4-Dichlorobenzene (106-46-7)	4.7	<4.0	16	<4.0
1,2-Dichlorobenzene (95-50-1)	<4.0	<4.0	<4.0	<4.0
TICs				
1-Propene, 2-Methyl-		2100	ND	ND
Butane		3200	ND	ND
2-Methylbutane		1500	ND	ND
Decane		ND	2800	1900
Methylcyclohexane		1400	ND	1700
Pentane		2100	ND	ND
Hexane		2300	ND	ND
3-Methyl Pentane		1300	ND	ND
2-Methyl Pentane		1600	ND	ND
Alpha-Pinene, (-)			2000	2200

Air Monitoring Location Plan



airsamp.mcp/st:g

KEY

● V-11 INDICATES VENT TO BE MONITORED

○ INDICATES VENT NOT MONITORED