



O'BRIEN & GERE

June 7, 2004



*Cuipyo
FYR
Thanks
fem
You can
remove my
name from
cc list.*

Mr. Richard T. Robb, Commissioner
Department of Development & Operations
Town of DeWitt
5400 Butternut Drive
East Syracuse, New York 13057

Re: DeWitt Landfill Monitoring
First Quarter 2004

File: 0123/34723

Dear Dick:

Enclosed please find the following information for the First Quarter 2004 Landfill Monitoring:

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

As agreed upon with the New York State Department of Environmental Conservation, the First Quarter sampling event consisted of surface water sampling only. Samples were analyzed for Priority Pollutant Metals and Volatile Organics 624. A site inspection was also conducted and the results are provided in Appendix C.

Air sampling was not conducted at the landfill during the First Quarter but will be conducted during the Second Quarter per agreement with the NYSDEC and the results will be included with the next quarterly report.

Water sampling analytical test results for the First Quarter of 2004 have been compared with the NYSDEC Ambient Water Quality Standards and Guidance Values, dated October 1993 (reissued June 1998). The only parameter that may have slightly exceeded the NYS Water Quality Standards for all locations was turbidity. However, we were unable to determine if the test results were higher than the guidance values because the results were less than the lower limits of our instrument.

The monitoring sites are indicated on Figures 2 and 3 in Appendix E. We will elaborate on the findings when we prepare the Annual Report.



Mr. Richard T. Robb, Commissioner
June 7, 2004
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If you have any questions, please do not hesitate to contact us.

Very truly yours,

O'BRIEN & GERE ENGINEERS, INC.



Michael S. Kolceski, P.E.
Vice President

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

APPENDICES

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#: 7596
Sample: B7938
Sample Description: SW-1
Instrument: HP5970 GC/MS#2
Units: ug/L
Number of analytes: 33

Job No.: 3435.036.11108
Certification NY No.: 10155

Collected: 04/01/04 Matrix: Water
Received: 04/01/04 QC Batch: 040504W2
Prepared: 04/05/04 %Solids:
Sample Size: 25 mL
Dilution: 5

Parameter	Result	Qual	PQL	Analyzed	Notes
Chloromethane	<10.	U	10.	04/05/04	
Vinyl chloride	<10.	U	10.	04/05/04	
Bromomethane	<10.	U	10.	04/05/04	
Chloroethane	<10.	U	10.	04/05/04	
Trichlorofluoromethane	<5.0	U	5.0	04/05/04	
1,1-Dichloroethene	<5.0	U	5.0	04/05/04	
Methylene chloride	<5.0	U	5.0	04/05/04	
trans-1,2-Dichloroethene	<5.0	U	5.0	04/05/04	
1,1-Dichloroethane	<5.0	U	5.0	04/05/04	
cis-1,2-Dichloroethene	<5.0	U	5.0	04/05/04	
Chloroform	<5.0	U	5.0	04/05/04	
1,2-Dichloroethane	<5.0	U	5.0	04/05/04	
1,1,1-Trichloroethane	<5.0	U	5.0	04/05/04	
Carbon tetrachloride	<5.0	U	5.0	04/05/04	
Benzene	<5.0	U	5.0	04/05/04	
1,2-Dichloropropane	<5.0	U	5.0	04/05/04	
Trichloroethene	<5.0	U	5.0	04/05/04	
Bromodichloromethane	<5.0	U	5.0	04/05/04	
2-Chloroethylvinyl ether	<10.	U	10.	04/05/04	
cis-1,3-Dichloropropene	<5.0	U	5.0	04/05/04	
trans-1,3-Dichloropropene	<5.0	U	5.0	04/05/04	
1,1,2-Trichloroethane	<5.0	U	5.0	04/05/04	
Toluene	<5.0	U	5.0	04/05/04	
Dibromochloromethane	<5.0	U	5.0	04/05/04	
Tetrachloroethene	<5.0	U	5.0	04/05/04	
Chlorobenzene	<5.0	U	5.0	04/05/04	
Ethylbenzene	<5.0	U	5.0	04/05/04	
Bromoform	<5.0	U	5.0	04/05/04	
Xylene (total)	<5.0	U	5.0	04/05/04	
1,1,2,2-Tetrachloroethane	<5.0	U	5.0	04/05/04	
1,3-Dichlorobenzene	<5.0	U	5.0	04/05/04	
1,4-Dichlorobenzene	<5.0	U	5.0	04/05/04	

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: April 6, 2004

Monika Santucci

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

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#: 7596
Sample: B7938
Sample Description: SW-1
Instrument: HP5970 GC/MS#2
Units: ug/L
Number of analytes: 33

Job No.: 3435.036.11108
Certification NY No.: 10155

Collected: 04/01/04 Matrix: Water
Received: 04/01/04 QC Batch: 040504W2
Prepared: 04/05/04 %Solids:
Sample Size: 25 mL
Dilution: 5

Parameter	Result	Qual	PQL	Analyzed Notes
1,2-Dichlorobenzene	<5.0	U	5.0	04/05/04

Surrogate	%R	Qual	%R Limits
Dibromofluoromethane (surrogate)	112		78 - 120
1,2-Dichloroethane-d4 (surrogate)	115		71 - 126
Toluene-d8 (surrogate)	102		80 - 120
Bromofluorobenzene (surrogate)	91		78 - 120

Notes:

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.
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Date: April 6, 2004

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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#: 7596
Sample: B7938
Sample Description: SW-1
Units: mg/L

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

Collected: 04/01/04 Matrix: Water
Received: 04/01/04 %Solids:
Number of analytes: 13

Parameter	Result	Q	Method	PQL	Prepared	Analyzed	QC Batch	Dil	Note
Antimony	<.060	U	200.7	.060	04/06/04	04/09/04	040604W2	1	
Arsenic	<.0050	U	200.7	.0050	04/06/04	04/09/04	040604W2	1	
Beryllium	<.010	U	200.7	.010	04/06/04	04/09/04	040604W2	1	
Cadmium	<.010	U	200.7	.010	04/06/04	04/09/04	040604W2	1	
Chromium	<.010	U	200.7	.010	04/06/04	04/09/04	040604W2	1	
Copper	<.010	U	200.7	.010	04/06/04	04/09/04	040604W2	1	
Lead	<.0050	U	200.7	.0050	04/06/04	04/09/04	040604W2	1	
Mercury	<.00020	U	245.1	.00020	04/07/04	04/08/04	040704W1	1	
Nickel	<.050	U	200.7	.050	04/06/04	04/09/04	040604W2	1	
Selenium	<.0050	U	200.7	.0050	04/06/04	04/09/04	040604W2	1	
Silver	<.010	U	200.7	.010	04/06/04	04/09/04	040604W2	1	
Thallium	<.010	U	200.7	.010	04/06/04	04/09/04	040604W2	1	
Zinc	<.010	U	200.7	.010	04/06/04	04/09/04	040604W2	1	

Notes:

B - Analyte detected above the PQL in the associated Prep Blank.
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: April 13, 2004

Monika Santucci

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#: 7596
Sample: B7939
Sample Description: SW-2
Instrument: HP5970 GC/MS#2
Units: ug/L
Number of analytes: 33

Job No.: 3435.036.11108
Certification NY No.: 10155

Collected: 04/01/04 Matrix: Water
Received: 04/01/04 QC Batch: 040504W2
Prepared: 04/05/04 %Solids:
Sample Size: 25 mL
Dilution: 5

Parameter	Result	Qual	PQL	Analyzed Notes
Chloromethane	<10.	U	10.	04/05/04
Vinyl chloride	<10.	U	10.	04/05/04
Bromomethane	<10.	U	10.	04/05/04
Chloroethane	<10.	U	10.	04/05/04
Trichlorofluoromethane	<5.0	U	5.0	04/05/04
1,1-Dichloroethene	<5.0	U	5.0	04/05/04
Methylene chloride	<5.0	U	5.0	04/05/04
trans-1,2-Dichloroethene	<5.0	U	5.0	04/05/04
1,1-Dichloroethane	<5.0	U	5.0	04/05/04
cis-1,2-Dichloroethene	<5.0	U	5.0	04/05/04
Chloroform	<5.0	U	5.0	04/05/04
1,2-Dichloroethane	<5.0	U	5.0	04/05/04
1,1,1-Trichloroethane	<5.0	U	5.0	04/05/04
Carbon tetrachloride	<5.0	U	5.0	04/05/04
Benzene	<5.0	U	5.0	04/05/04
1,2-Dichloropropane	<5.0	U	5.0	04/05/04
Trichloroethene	<5.0	U	5.0	04/05/04
Bromodichloromethane	<5.0	U	5.0	04/05/04
2-Chloroethylvinyl ether	<10.	U	10.	04/05/04
cis-1,3-Dichloropropene	<5.0	U	5.0	04/05/04
trans-1,3-Dichloropropene	<5.0	U	5.0	04/05/04
1,1,2-Trichloroethane	<5.0	U	5.0	04/05/04
Toluene	<5.0	U	5.0	04/05/04
Dibromochloromethane	<5.0	U	5.0	04/05/04
Tetrachloroethene	<5.0	U	5.0	04/05/04
Chlorobenzene	<5.0	U	5.0	04/05/04
Ethylbenzene	<5.0	U	5.0	04/05/04
Bromoform	<5.0	U	5.0	04/05/04
Xylene (total)	<5.0	U	5.0	04/05/04
1,1,2,2-Tetrachloroethane	<5.0	U	5.0	04/05/04
1,3-Dichlorobenzene	<5.0	U	5.0	04/05/04
1,4-Dichlorobenzene	<5.0	U	5.0	04/05/04
1,2-Dichlorobenzene	<5.0	U	5.0	04/05/04

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.
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Date: April 6, 2004

Monika Santucci

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

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#: 7596
Sample: B7939
Sample Description: SW-2
Instrument: HP5970 GC/MS#2
Units: ug/L
Number of analytes: 33

Job No.: 3435 . 036 . 11108
Certification NY No.: 10155

Collected: 04/01/04 Matrix: Water
Received: 04/01/04 QC Batch: 040504W2
Prepared: 04/05/04 %Solids:
Sample Size: 25 mL
Dilution: 5

Parameter	Result	Qual	PQL	Analyzed	Notes
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Surrogate	%R	Qual	%R Limits
Dibromofluoromethane (surrogate)	116		78 - 120
1,2-Dichloroethane-d4 (surrogate)	117		71 - 126
Toluene-d8 (surrogate)	105		80 - 120
Bromofluorobenzene (surrogate)	91		78 - 120

Notes:

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Authorized: Monika Santucci
Date: April 6, 2004 Monika Santucci

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#: 7596
Sample: B7939
Sample Description: SW-2
Units: mg/L

Job No.: 3435.036.11108
Certification NY No.: 10155

Collected: 04/01/04 Matrix: Water
Received: 04/01/04 %Solids:
Number of analytes: 13

Parameter	Result	Q	Method	PQL	Prepared	Analyzed	QC Batch	Dil	Note
Antimony	<.060	U	200.7	.060	04/06/04	04/09/04	040604W2	1	
Arsenic	<.0050	U	200.7	.0050	04/06/04	04/09/04	040604W2	1	
Beryllium	<.010	U	200.7	.010	04/06/04	04/09/04	040604W2	1	
Cadmium	<.010	U	200.7	.010	04/06/04	04/09/04	040604W2	1	
Chromium	<.010	U	200.7	.010	04/06/04	04/09/04	040604W2	1	
Copper	<.010	U	200.7	.010	04/06/04	04/09/04	040604W2	1	
Lead	<.0050	U	200.7	.0050	04/06/04	04/09/04	040604W2	1	
Mercury	<.00020	U	245.1	.00020	04/07/04	04/08/04	040704W1	1	
Nickel	<.050	U	200.7	.050	04/06/04	04/09/04	040604W2	1	
Selenium	<.0050	U	200.7	.0050	04/06/04	04/09/04	040604W2	1	
Silver	<.010	U	200.7	.010	04/06/04	04/09/04	040604W2	1	
Thallium	<.010	U	200.7	.010	04/06/04	04/09/04	040604W2	1	
Zinc	<.010	U	200.7	.010	04/06/04	04/09/04	040604W2	1	

Notes:

B - Analyte detected above the PQL in the associated Prep Blank.
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: April 13, 2004

Monika Santucci

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#: 7596
Sample: B7940
Sample Description: SW-3
Instrument: HP5970 GC/MS#2
Units: ug/L
Number of analytes: 33

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

Collected: 04/01/04 Matrix: Water
Received: 04/01/04 QC Batch: 040504W2
Prepared: 04/05/04 %Solids:
Sample Size: 25 mL
Dilution: 5

Parameter	Result	Qual	PQL	Analyzed Notes
Chloromethane	<10.	U	10.	04/05/04
Vinyl chloride	<10.	U	10.	04/05/04
Bromomethane	<10.	U	10.	04/05/04
Chloroethane	<10.	U	10.	04/05/04
Trichlorofluoromethane	<5.0	U	5.0	04/05/04
1,1-Dichloroethene	<5.0	U	5.0	04/05/04
Methylene chloride	<5.0	U	5.0	04/05/04
trans-1,2-Dichloroethene	<5.0	U	5.0	04/05/04
1,1-Dichloroethane	<5.0	U	5.0	04/05/04
cis-1,2-Dichloroethene	<5.0	U	5.0	04/05/04
Chloroform	<5.0	U	5.0	04/05/04
1,2-Dichloroethane	<5.0	U	5.0	04/05/04
1,1,1-Trichloroethane	<5.0	U	5.0	04/05/04
Carbon tetrachloride	<5.0	U	5.0	04/05/04
Benzene	<5.0	U	5.0	04/05/04
1,2-Dichloropropane	<5.0	U	5.0	04/05/04
Trichloroethene	<5.0	U	5.0	04/05/04
Bromodichloromethane	<5.0	U	5.0	04/05/04
2-Chloroethylvinyl ether	<10.	U	10.	04/05/04
cis-1,3-Dichloropropene	<5.0	U	5.0	04/05/04
trans-1,3-Dichloropropene	<5.0	U	5.0	04/05/04
1,1,2-Trichloroethane	<5.0	U	5.0	04/05/04
Toluene	<5.0	U	5.0	04/05/04
Dibromochloromethane	<5.0	U	5.0	04/05/04
Tetrachloroethene	<5.0	U	5.0	04/05/04
Chlorobenzene	<5.0	U	5.0	04/05/04
Ethylbenzene	<5.0	U	5.0	04/05/04
Bromoform	<5.0	U	5.0	04/05/04
Xylene (total)	<5.0	U	5.0	04/05/04
1,1,2,2-Tetrachloroethane	<5.0	U	5.0	04/05/04
1,3-Dichlorobenzene	<5.0	U	5.0	04/05/04
1,4-Dichlorobenzene	<5.0	U	5.0	04/05/04
1,2-Dichlorobenzene	<5.0	U	5.0	04/05/04

B - Analyte detected above the PQL in the associated Prep Blank.
- Outside control limits U - Undetected at the reported level.
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Authorized: *Monika Santucci*
Date: April 6, 2004

Monika Santucci

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

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#: 7596
Sample: B7940
Sample Description: SW-3
Instrument: HP5970 GC/MS#2
Units: ug/L
Number of analytes: 33

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

Collected: 04/01/04 Matrix: Water
Received: 04/01/04 QC Batch: 040504W2
Prepared: 04/05/04 %Solids:
Sample Size: 25 mL
Dilution: 5

Parameter	Result	Qual	PQL	Analyzed	Notes
-----------	--------	------	-----	----------	-------

Surrogate	%R	Qual	%R Limits
Dibromofluoromethane (surrogate)	116		78 - 120
1,2-Dichloroethane-d4 (surrogate)	118		71 - 126
Toluene-d8 (surrogate)	103		80 - 120
Bromofluorobenzene (surrogate)	92		78 - 120

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Authorized: *Monika Santucci*

Date: April 6, 2004

Monika Santucci

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#: 7596
Sample: B7940
Sample Description: SW-3
Units: mg/L

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

Collected: 04/01/04 Matrix: Water
Received: 04/01/04 %Solids:
Number of analytes: 13

Parameter	Result	Q	Method	PQL	Prepared	Analyzed	QC Batch	Dil	Note
Antimony	<.060	U	200.7	.060	04/06/04	04/09/04	040604W2	1	
Arsenic	<.0050	U	200.7	.0050	04/06/04	04/09/04	040604W2	1	
Beryllium	<.010	U	200.7	.010	04/06/04	04/09/04	040604W2	1	
Cadmium	<.010	U	200.7	.010	04/06/04	04/09/04	040604W2	1	
Chromium	<.010	U	200.7	.010	04/06/04	04/09/04	040604W2	1	
Copper	<.010	U	200.7	.010	04/06/04	04/09/04	040604W2	1	
Lead	<.0050	U	200.7	.0050	04/06/04	04/09/04	040604W2	1	
Mercury	<.00020	U	245.1	.00020	04/07/04	04/08/04	040704W1	1	
Nickel	<.050	U	200.7	.050	04/06/04	04/09/04	040604W2	1	
Selenium	<.0050	U	200.7	.0050	04/06/04	04/09/04	040604W2	1	
Silver	<.010	U	200.7	.010	04/06/04	04/09/04	040604W2	1	
Thallium	<.010	U	200.7	.010	04/06/04	04/09/04	040604W2	1	
Zinc	<.010	U	200.7	.010	04/06/04	04/09/04	040604W2	1	

Notes:

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Date: April 13, 2004 Monika Santucci

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#: 7596
Sample: B7941
Sample Description: QC Trip Blank
Instrument: HP5970 GC/MS#2
Units: ug/L
Number of analytes: 33

Job No.: 3435.036.11108
Certification NY No.: 10155

Collected: 04/01/04 Matrix: Water
Received: 04/01/04 QC Batch: 040504W2
Prepared: 04/05/04 %Solids:
Sample Size: 25 mL
Dilution: 5

Parameter	Result	Qual	PQL	Analyzed Notes
Chloromethane	<10.	U	10.	04/05/04
Vinyl chloride	<10.	U	10.	04/05/04
Bromomethane	<10.	U	10.	04/05/04
Chloroethane	<10.	U	10.	04/05/04
Trichlorofluoromethane	<5.0	U	5.0	04/05/04
1,1-Dichloroethene	<5.0	U	5.0	04/05/04
Methylene chloride	<5.0	U	5.0	04/05/04
trans-1,2-Dichloroethene	<5.0	U	5.0	04/05/04
1,1-Dichloroethane	<5.0	U	5.0	04/05/04
cis-1,2-Dichloroethene	<5.0	U	5.0	04/05/04
Chloroform	<5.0	U	5.0	04/05/04
1,2-Dichloroethane	<5.0	U	5.0	04/05/04
1,1,1-Trichloroethane	<5.0	U	5.0	04/05/04
Carbon tetrachloride	<5.0	U	5.0	04/05/04
Benzene	<5.0	U	5.0	04/05/04
1,2-Dichloropropane	<5.0	U	5.0	04/05/04
Trichloroethene	<5.0	U	5.0	04/05/04
Bromodichloromethane	<5.0	U	5.0	04/05/04
2-Chloroethylvinyl ether	<10.	U	10.	04/05/04
cis-1,3-Dichloropropene	<5.0	U	5.0	04/05/04
trans-1,3-Dichloropropene	<5.0	U	5.0	04/05/04
1,1,2-Trichloroethane	<5.0	U	5.0	04/05/04
Toluene	<5.0	U	5.0	04/05/04
Dibromochloromethane	<5.0	U	5.0	04/05/04
Tetrachloroethene	<5.0	U	5.0	04/05/04
Chlorobenzene	<5.0	U	5.0	04/05/04
Ethylbenzene	<5.0	U	5.0	04/05/04
Bromoform	<5.0	U	5.0	04/05/04
Xylene (total)	<5.0	U	5.0	04/05/04
1,1,2,2-Tetrachloroethane	<5.0	U	5.0	04/05/04
1,3-Dichlorobenzene	<5.0	U	5.0	04/05/04
1,4-Dichlorobenzene	<5.0	U	5.0	04/05/04
1,2-Dichlorobenzene	<5.0	U	5.0	04/05/04

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: April 6, 2004

Monika Santucci

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

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#: 7596
Sample: B7941
Sample Description: QC Trip Blank
Instrument: HP5970 GC/MS#2
Units: ug/L
Number of analytes: 33

Job No.: 3435.036.11108
Certification NY No.: 10155

Collected: 04/01/04 Matrix: Water
Received: 04/01/04 QC Batch: 040504W2
Prepared: 04/05/04 %Solids:
Sample Size: 25 mL
Dilution: 5

Parameter	Result	Qual	PQL	Analyzed	Notes
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Surrogate	%R	Qual	%R Limits
Dibromofluoromethane (surrogate)	112		78 - 120
1,2-Dichloroethane-d4 (surrogate)	114		71 - 126
Toluene-d8 (surrogate)	101		80 - 120
Bromofluorobenzene (surrogate)	90		78 - 120

Notes:

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: April 6, 2004

Monika Santucci

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

[illegible]

Turnaround Time Required:

Comments:

Routine

Rush (Specify)

Cooler Temperature:

70C well/iced

Original - Laboratory
Copy - Client

**Water Sampling Field Memo and
Sampling Logs**

FROM: SR Snell *SRS*

DATE: April 5, 2004

FILE: 0123/34723

RE: DeWitt Landfill Quarterly Sampling (1st)cc: GD Cannerelli
MJ Petrie

On April 1, 2004, SR Snell traveled to the DeWitt landfill in the Town of DeWitt, New York for the purpose of conducting the first quarter sampling for 2004. 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 rainy and cool (49°).

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 summarizes 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	2530	8.9	6.8	11.42	<10	13.88
SW-2	N/A	N/A	3880	9.9	7.8	-45.7	<10	11.54
SW-3	N/A	N/A	1190	9.6	7.6	-34.3	<10	12.62

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: 4/1/04

TIME: 2:00

WEATHER: CLOUDY AND RAINY 49°

A. PHYSICAL APPEARANCE:

COLOR: CLEAR

ODOR: SLIGHT

TURBIDITY: <10 NTU

WAS AN OIL FILM OR LAYER APPARENT? NO

B. CONDUCTIVITY: 2530 uMHO's

C. pH: 6.8

D. TEMPERATURE: 8.9°C

E. DISSOLVED OXYGEN: 13.88 mg/L

F. SAMPLING NOTES:

SURFACE WATER SAMPLING FIELD LOG

SAMPLE LOCATION: SW-2

SAMPLED BY: SR SNELL

DATE: 4/1/04

TIME: 3:00

WEATHER: CLOUDY AND RAINY 49°

A. PHYSICAL APPEARANCE:

COLOR: GREENISH

ODOR: SLIGHT

TURBIDITY: <10 NTU

WAS AN OIL FILM OR LAYER APPARENT? NO

B. CONDUCTIVITY: 3880 uMHO'S

C. pH: 7.8

D. TEMPERATURE: 9.9°C

E. DISSOLVED OXYGEN: 11.54 MG/L

F. SAMPLING NOTES:

SURFACE WATER SAMPLING FIELD LOG

SAMPLE LOCATION: SW-3

SAMPLED BY: SR SNELL

DATE: 04/1/04

TIME: 2:30

WEATHER: CLOUDY AND RAINY 49°C

A. PHYSICAL APPEARANCE:

COLOR: CLEAR

ODOR: SLIGHT

TURBIDITY: <10 NTU

WAS AN OIL FILM OR LAYER APPARENT? NO

B. CONDUCTIVITY: 1190 uMHO's

C. pH: 7.6

D. TEMPERATURE: 9.6°C

E. DISSOLVED OXYGEN: 12.62 mg/L

F. SAMPLING NOTES:

Landfill Inspection Form

TOWN OF DEWITT LANDFILL
INSPECTION AND MAINTENANCE
CHECKLIST

1st QUARTER

DATE OF INSPECTION: 4/1/04
FILE NO: 123/34723
INSPECTOR: SR SNELL

CC: MS KOLCESKI
MJ PETRIE

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	

Summary Tables

**TOWN OF DEWITT LANDFILL MONITORING
WELL WATER ANALYSIS**

SUMMARY TABLE - SW-1

PARAMETER	UNIT	LIMIT	Jul-03	Oct-03	Dec-03	Apr-04
METHOD: 624						
1,1,1-Trichloroethane	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2,2-Tetrachloroethane	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2-Trichloroethane	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethane	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethene	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichlorobenzene	ug/l	3	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichloroethane	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichloroethane-d4 (surrogate)	%		93.	92	87	115
1,2-Dichloropropane	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0
1,3-Dichlorobenzene	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0
1,4-Dichlorobenzene	ug/l	3	< 5.0	< 5.0	< 5.0	< 5.0
2-Chloroethylvinyl ether	ug/l		< 10.	< 10.	< 10.	< 10.
Benzene	ug/l	1	< 5.0	< 5.0	< 5.0	< 5.0
Bromodichloromethane	ug/l	50	< 5.0	< 5.0	< 5.0	< 5.0
Bromofluorobenzene (surrogate)	%		93.	89	95	91
Bromoform	ug/l	50	< 5.0	< 5.0	< 5.0	< 5.0
Bromomethane	ug/l	5	< 10.	< 10.	< 10.	< 10.
Carbon tetrachloride	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0
Chlorobenzene	ug/l	5	< 5.0	< 5.0	7.5	< 5.0
Chloroethane	ug/l	5	< 10.	< 10.	< 10.	< 10.
Chloroform	ug/l	7	< 5.0	< 5.0	< 5.0	< 5.0
Chloromethane	ug/l		< 10.	< 10.	< 10.	< 10.
cis-1,2-Dichloroethene	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0
cis-1,3-Dichloropropene	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0
Dibromochloromethane	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0
Dibromofluoromethane (surrogate)	%		90.	102	91	112
Ethylbenzene	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0
Methylene chloride	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0
Toluene-d8 (surrogate)	%		106.	107	94	102
Tetrachloroethene	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0
trans-1,2-Dichloroethene	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0
trans-1,3-Dichloropropene	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0
Trichloroethene	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0
Trichlorofluoromethane	ug/l		< 5.0	< 5.0	< 5.0	< 5.0
Vinyl chloride	ug/l	2	< 10.	< 10.	< 10.	< 10.
Xylene (total)	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0

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

**TOWN OF DEWITT LANDFILL MONITORING
WELL WATER ANALYSIS**

SUMMARY TABLE - SW-1

PARAMETER	UNIT	LIMIT	Jui-03	Oct-03	Dec-03	Apr-04
TRACE METALS						
Antimony	mg/l	0.003	< .060	< .060	< .060	< .060
Arsenic	mg/l	0.025	.0091	0.022	0.0071	< 0.005
Beryllium	mg/l	0.003	< .010	< .010	< .010	< .010
Cadmium	mg/l	0.005	< .010	< .010	< .010	< .010
Chromium	mg/l	0.05	< .010	0.016	0.013	< .010
Copper	mg/l	0.2	< .010	0.014	0.017	< .010
Lead	mg/l	0.025	< .0050	0.024	0.034	< 0.005
Mercury	mg/l	0.0007	< .00020	< .00020	< .00020	< .00020
Nickel	mg/l		< .050	< .050	< .050	< .050
Selenium	mg/l	0.01	< .0050	0.0075	< 0.005	< 0.005
Silver	mg/l	0.05	< .010	< .010	< .010	< .010
Thallium	mg/l	0.008	< .010	< .010	< .010	< .010
Zinc	mg/l	0.3	.085	0.048	0.056	< .010
FIELD DATA						
STATIC GROUND WATER ELEV.	ft.		-	-	-	-
SPECIFIC CONDUCTIVITY	umho		2200	1630	1570	2530
TEMPERATURE	deg C		19	7.2	8.2	8.9
Ph	su		6.5	5.6	6.9	6.8
Eh	Eh		51.4	51.4	5.7	11.42
TURBIDITY	NTU	5	320	>999	51	<10
DISSOLVED OXYGEN	mg/l		11.3	12.8	8.2	13.88

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

**TOWN OF DEWITT LANDFILL MONITORING
WELL WATER ANALYSIS**

SUMMARY TABLE - SW-2

PARAMETER	UNIT	LIMIT	Jul-03	Oct-03	Dec-03	Apr-04
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)	%		-	-	-	117
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)	%		-	-	-	91
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)	%		-	-	-	116
Ethylbenzene	ug/l	5	-	-	-	< 5.0
Methylene chloride	ug/l	5	-	-	-	< 5.0
Tetrachloroethene	ug/l	5	-	-	-	< 5.0
Toluene	ug/l	5	-	-	-	105
Toluene-d8 (surrogate)	%		-	-	-	< 5.0
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

**TOWN OF DEWITT LANDFILL MONITORING
WELL WATER ANALYSIS**

SUMMARY TABLE - SW-2

PARAMETER	UNIT	LIMIT	Jul-03	Oct-03	Dec-03	Apr-04
TRACE METALS						
Antimony	mg/l	0.003	-	-	-	< 0.06
Arsenic	mg/l	0.025	-	-	-	< 0.005
Beryllium	mg/l	0.003	-	-	-	< 0.01
Cadmium	mg/l	0.005	-	-	-	< 0.01
Chromium	mg/l	0.05	-	-	-	< 0.01
Copper	mg/l	0.2	-	-	-	< 0.01
Lead	mg/l	0.025	-	-	-	< 0.005
Mercury	mg/l	0.0007	-	-	-	< 0.0002
Nickel	mg/l		-	-	-	< 0.05
Selenium	mg/l	0.01	-	-	-	< 0.005
Silver	mg/l	0.05	-	-	-	< 0.01
Thallium	mg/l	0.008	-	-	-	< 0.01
Zinc	mg/l	0.3	-	-	-	< 0.01
FIELD DATA						
STATIC GROUND WATER ELEV.	ft.		-	-	-	-
SPECIFIC CONDUCTIVITY	umho		-	-	-	3880
TEMPERATURE	deg C		-	-	-	9.9
Ph	su		-	-	-	7.8
Eh	Eh		-	-	-	-45.7
TURBIDITY	NTU	5	-	-	-	<10
DISSOLVED OXYGEN	mg/l		-	-	-	11.54

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

**TOWN OF DEWITT LANDFILL MONITORING
WELL WATER ANALYSIS**

SUMMARY TABLE - SW-3

PARAMETER	UNIT	LIMIT	Jul-03	Oct-03	Dec-03	Apr-04
METHOD: 624						
1,1,1-Trichloroethane	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2,2-Tetrachloroethane	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2-Trichloroethane	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethane	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethene	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichlorobenzene	ug/l	3	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichloroethane	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichloroethane-d4 (surrogate)	%		94.	93	89	118
1,2-Dichloropropane	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0
1,3-Dichlorobenzene	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0
1,4-Dichlorobenzene	ug/l	3	< 5.0	< 5.0	< 5.0	< 5.0
2-Chloroethylvinyl ether	ug/l		< 10.	< 10.	< 10.	< 10.
Benzene	ug/l	1	< 5.0	< 5.0	< 5.0	< 5.0
Bromodichloromethane	ug/l	50	< 5.0	< 5.0	< 5.0	< 5.0
Bromofluorobenzene (surrogate)	%		90.	89	94	92
Bromoform	ug/l	50	< 5.0	< 5.0	< 5.0	< 5.0
Bromomethane	ug/l	5	< 10.	< 10.	< 10.	< 10.
Carbon tetrachloride	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0
Chlorobenzene	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0
Chloroethane	ug/l	5	< 10.	< 10.	< 10.	< 10.
Chloroform	ug/l	7	< 5.0	< 5.0	< 5.0	< 5.0
Chloromethane	ug/l		< 10.	< 10.	< 10.	< 10.
cis-1,2-Dichloroethene	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0
cis-1,3-Dichloropropene	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0
Dibromochloromethane	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0
Dibromofluoromethane (surrogate)	%		90.	102	93	116
Ethylbenzene	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0
Methylene chloride	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0
Tetrachloroethene	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0
Toluene-d8 (surrogate)	%		106.	106.	95	103
trans-1,2-Dichloroethene	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0
trans-1,3-Dichloropropene	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0
Trichloroethene	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0
Trichlorofluoromethane	ug/l		< 5.0	< 5.0	< 5.0	< 5.0
Vinyl chloride	ug/l	2	< 10.	< 10.	< 10.	< 10.
Xylene (total)	ug/l	5	< 5.0	< 5.0	< 5.0	< 5.0

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

**TOWN OF DEWITT LANDFILL MONITORING
WELL WATER ANALYSIS**

SUMMARY TABLE - SW-3

PARAMETER	UNIT	LIMIT	Jul-03	Oct-03	Dec-03	Apr-04
TRACE METALS						
Antimony	mg/l	0.003	< .060	< 0.06	< .30	< 0.06
Arsenic	mg/l	0.025	< .0050	< 0.005	.21	< 0.005
Beryllium	mg/l	0.003	< .010	< 0.01	< .050	< 0.01
Cadmium	mg/l	0.005	< .010	< 0.01	< .050	< 0.01
Chromium	mg/l	0.05	.017	0.013	.091	< 0.01
Copper	mg/l	0.2	.027	< 0.01	.11	< 0.01
Lead	mg/l	0.025	.0072	0.0063	0.16	< 0.005
Mercury	mg/l	0.0007	< .00020	< .00020	0.00057	< 0.0002
Nickel	mg/l		< .050	< 0.05	< 0.25	< 0.05
Selenium	mg/l	0.01	.011	< 0.005	0.037	< 0.005
Silver	mg/l	0.05	< .010	< 0.01	< 0.05	< 0.01
Thallium	mg/l	0.008	< .010	< 0.01	< 0.05	< 0.01
Zinc	mg/l	0.3	.049	0.032	0.61	< 0.01
FIELD DATA						
STATIC GROUND WATER ELEV.	ft.		-	-	-	-
SPECIFIC CONDUCTIVITY	umho		702	748	748	1190
TEMPERATURE	deg C		2.2	6.9	6.9	9.6
Ph	su		8.3	7.1	7.1	7.6
Eh	Eh		-74.28	-5.7	-5.7	-34.3
TURBIDITY	NTU	5	10	333	333	<10
DISSOLVED OXYGEN	mg/l		16.04	12.9	12.9	12.62

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

Water Sampling Location Plans

GENERAL NOTES:

1. TOPOGRAPHIC BASE MAP COMPILED BY BHANDARI-PHILLIPS, ENGINEERS AND SURVEYORS, JANUARY, 1991.
2. ELEVATIONS ARE BASED ON U.S.C.S. DATUM.

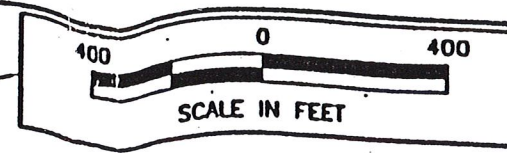
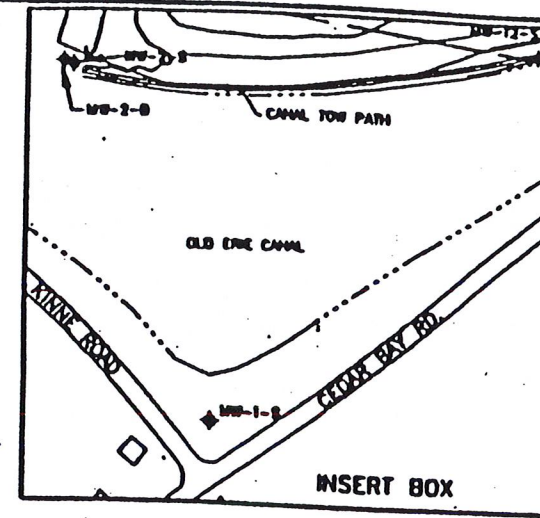
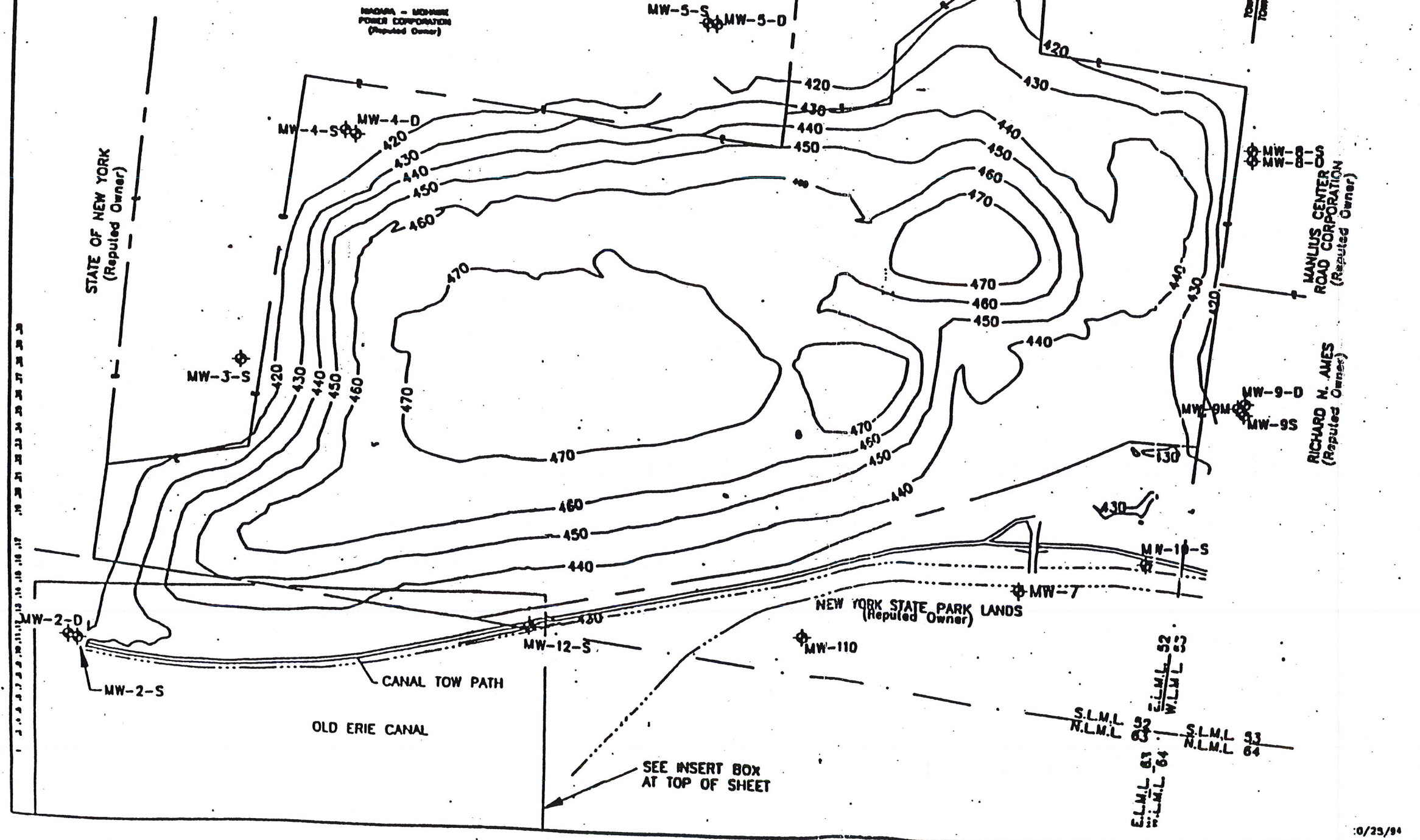


FIGURE 2
TOWN OF DEWITT LANDFILL
DEWITT, NEW YORK

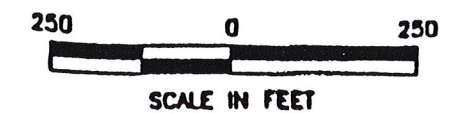


LEGEND

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



GROUND WATER
SAMPLING LOCATIONS



123.566



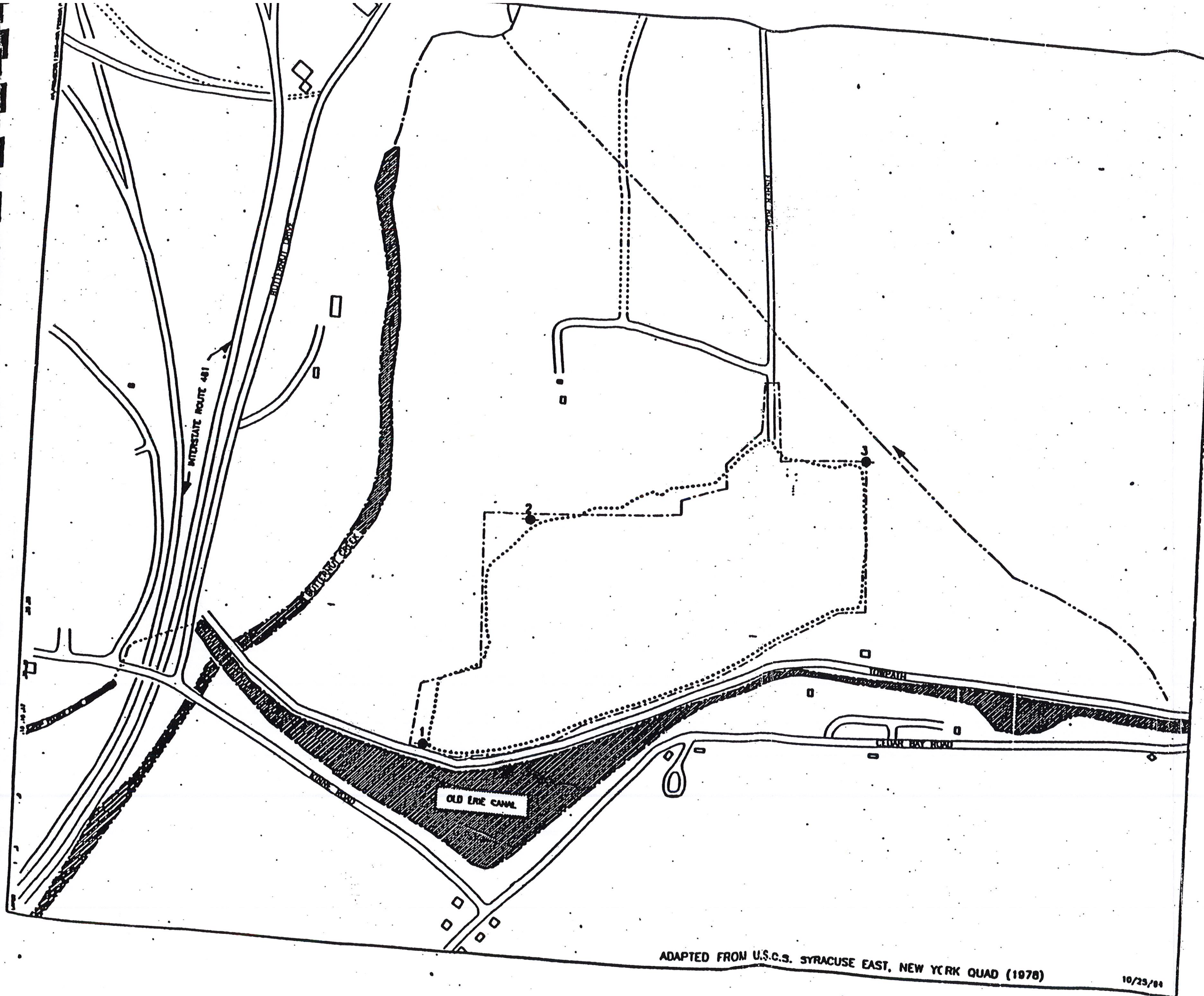
10/23/94

FIGURE 3
TOWN OF DEWITT LANDFILL
DEWITT, NEW YORK

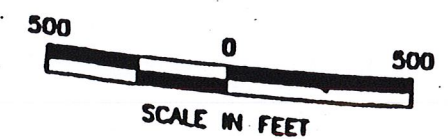


LEGEND

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



SURFACE WATER
SAMPLING LOCATIONS



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

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123.568
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