URS
AN INTERNATIONAL PROFESSIONAL SERVICES ORGANIZATION

URS CONSULTANTS, INC.
282 DELAWARE AVENUE
BUFFALO, NEW YORK 14202-1805
(716) 856-5636
FAX: (716) 856-2545

ATLANTA
BOSTON
BUFFALO
CLEVELAND
COLUMBUS
DENVER
NEW YORK
PARAMUS, NJ
NEW ORLEANS
SAN FRANCISCO
SAN MATEO
SEATTLE
VIRGINIA BEACH
WASHINGTON, D.C.

April 29, 1993

Ms. Kathleen McCue
Project Manager
Division of Hazardous Waste Remediation
New York State Department of
Environmental Conservation
50 Wolf Road
Albany, New York 12233-7010

RE: RAMAPO LANDFILL REMEDIAL DESIGN
RESULTS OF FIRST QUARTER MONITORING

Dear Ms. McCue:

The Project Management Work Plan for the Remedial Design phase of the Ramapo Landfill remediation includes a monitoring task. This monitoring task consists primarily of groundwater and surface water sampling and analysis. This document provides the analytical data, data validation summary, and a presentation of the results for the first of the four quarterly sampling events, which are included in the project.

Key information is attached as described below:

- Locations sampled in the mid-January 1993 sampling event are shown on Figure 1.
- All quantifiable chemical concentrations are presented in Table 1.
- Analytical results for four designated chemicals-of-concern (benzene, chromium, iron, and manganese) are compared to their respective ARARs and summarized in Tables 2 through 5.
- The chemical analytical laboratory Form Is, preceded by a Data Validation Report, are included in the Appendix (the Form Is are in your copy only).

The second quarterly sampling event was completed during the week of April 19-23. The results will be reported in July. Please feel free to call if you have any questions or if you wish to discuss this letter.

Sincerely,
URS CONSULTANTS, INC.

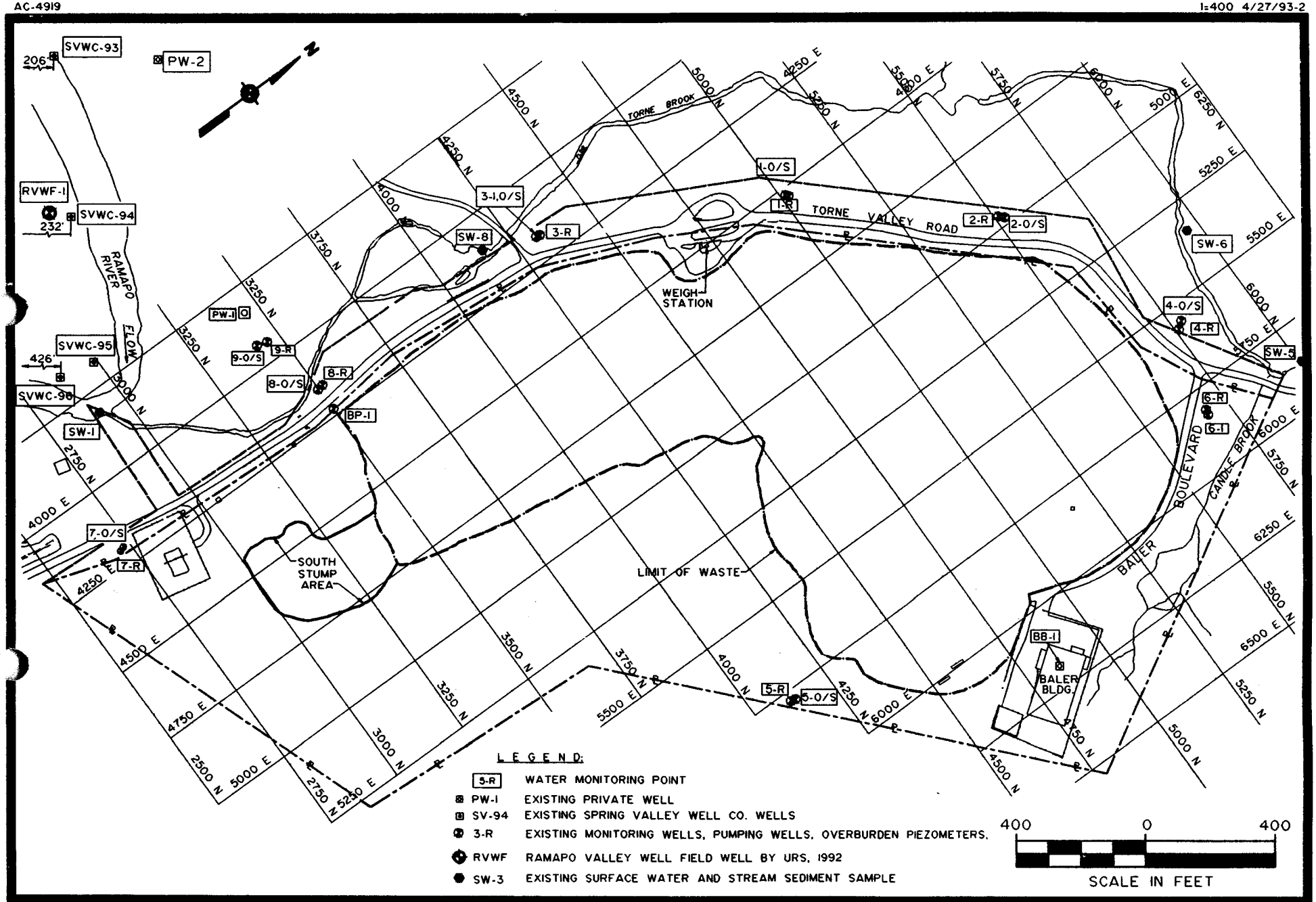
James Lanzo
Project Manager

B.E.R.A.
FOILABLE Y-N
SITE NAME 344004
SITE CODE
SUB SECTIONS
PRO. ELEMENT design
OPERABLE UNIT NO DESC.
DRAFT
FILE SECTION
I
II
III
IV
V
VI

Enc.

cc: Supervisor Reisman - Town of Ramapo
Mr. G. Ostertag - Town of Ramapo
Mr. R. Nunes - USEPA
Mr. R. Pergadia - NYSDEC
Mr. J. Olm - NYSDOH
Mr. J. Gorton - URS
Ms. Mary Bitka - URS
Mr. Rob Pirog - URS
Ms. Amy Monti - URS
File: 35314 (VI-C and X)

35314/4-29-93.KMC/ys



URS CONSULTANTS, INC.

RAMAPO LANDFILL SAMPLE LOCATIONS

FIGURE 1

TABLE 1
RAMAPO LANDFILL - JANUARY 1993 SAMPLING +

ANALYTE	CONCENTRATION (µg/L)									
	1-OS	1-R	3-OS	3-R	4-OS	4-R	5-OS	5-R	6-R	6-I
Acetone	—	—	—	—	—	—	3 J	—	—	—
1,1,1-Trichloroethane	—	—	—	—	—	—	1 J	—	—	—
Bromoethane *	—	—	—	—	—	4	—	—	—	—
Chloroethane *	—	—	—	—	—	—	—	—	—	—
Chloromethane Δ	—	—	—	—	—	—	—	—	—	—
Vinyl Chloride Δ	—	—	—	—	—	—	—	—	—	—
Hexachlorobenzene	—	—	—	44	—	—	DR	—	—	—
bis(2-ethylhexyl)phthalate	14	5 J	R	26 B	3 J	2 J	DR	10 J	2 J	4 J
Dibenzofuran	—	—	—	—	—	—	DR	—	—	—
Aluminum	976	27.5	138	14.7	83.3	28.6	8,350	160	18.7	74.5
Arsenic	—	—	—	—	—	—	—	—	—	—
Barium	23.3	11.3	24.6	43.1	20.5	8.5	56.4	6.1	10.1	10.3
Beryllium	0.3	—	—	0.37	0.73	—	0.3	—	—	—
Boron	NR	NR	117	117	—	—	NR	NR	—	—
Cadmium	—	—	—	—	5.8	—	—	—	—	2.4
Calcium	57,000	81,000	104,000	78,200	32,900	58,500	7,250	13,100	20,800	17,400
Chromium	8.0	—	807	—	5.8	—	48.8	6.8	24.0	—
Cobalt	—	—	2.8	5.2	5.0	3.5	5.6	—	—	—
Copper	5.2	5.2	14.3	1.6	2.2	1.5	16.6	3.8	3.0	1.5
Iron	1,870	395	5,110	11,500	529	3,520	11,100	620	1,220	953
Lead	—	—	1.5	—	—	—	2.2	—	—	—
Magnesium	14,800	15,900	27,700	25,800	13,400	18,300	4,740	4,670	5,050	4,460
Manganese	809	61.4	3,450	10,700	547	1,660	192	9.6	100	151
Mercury	—	—	—	—	—	—	—	—	—	—
Nickel	34.5	34.3	214	59.3	16.0	7.1	41.4	29.2	14.3	8.9
Potassium	2,100	2,180	2,770	1,770	1,270	1,250	2,330	1,070	1,140	1,290
Selenium	—	—	—	—	—	—	—	—	—	—
Silver	3.4	2.9	—	—	—	—	4.5	3.5	—	—
Sodium	28,600	15,300	75,800	50,200	34,600	13,900	5,500	4,310	5,020	4,940
Vanadium	2.8	—	2.4	—	—	—	17.5	3.5	—	—
Zinc	14.9	58.0	7.5	4.2	11.1	7.6	31.9	20.5	26.8	8.7

+ - Only detected values are reported
NR - Not Requested
Δ - Chloromethane and Vinyl Chloride co-elute

J - Concentration is less than the contract required detection limit, but > 0
B - Compound detected in the associated method blank
R - Compound rejected due to contamination in the associated blank
* - Bromoethane and Chloroethane co-elute

DR - Data rejected due to holding time exceedance

TABLE 1 (Cont'd)
RAMAPO LANDFILL - JANUARY 1993 SAMPLING +

ANALYTE	CONCENTRATION (µg/L)									
	7-OS	7-R	8-OS	8-R	9-OS	9-R	BB-1	BP-1	PW-1	PW-2
Acetone	—	—	—	—	—	—	—	—	—	—
1,1,1-Trichloroethane	—	—	—	—	—	—	—	—	—	—
Bromoethane *	—	—	—	—	—	—	—	4	—	—
Chloroethane *	—	—	—	—	—	—	—	—	—	—
Chloromethane Δ	—	—	—	—	—	—	—	3	—	—
Vinyl Chloride Δ	—	—	—	—	—	—	—	—	—	—
Hexachlorobenzene	6 J	—	—	—	—	—	—	—	—	—
bis(2-ethylhexyl)phthalate	R	R	R	R	R	R	3 J	38 B	R	R
Dibenzofuran	—	—	—	—	—	—	—	—	—	—
Aluminum	790	129	34	122	31.2	144	15.1	38.9	15.2	10.7
Arsenic	—	—	2.0	9.8	—	1.4	—	—	—	—
Barium	120	13.1	75.6	181	4.7	40.6	—	24.5	4.4	2.3
Beryllium	—	0.5	—	—	—	—	—	0.83	—	—
Boron	418	96	246	716	—	234	—	156	40.0	—
Cadmium	—	—	—	0.93	—	3.1	—	1.9	—	—
Calcium	97,000	60,600	43,300	92,800	8,490	30,500	17,200	173,000	9,480	40,100
Chromium	24.2	—	—	9.9	—	3.9	—	—	—	—
Cobalt	2.7	—	5.1	8.6	—	5.1	—	11.1	—	—
Copper	9.5	—	4.2	—	1.2	5.6	19.8	3.0	225	6.4
Iron	1,250	31.5	3,230	11,600	50.7	2,680	138	274	186	41.8
Lead	—	—	—	2.2	—	1.4	—	1.3	23.7	6.7
Magnesium	28,800	16,000	14,400	33,600	2,350	9,580	3,710	53,000	2,840	4,750
Manganese	48.3	46.1	1680	1,660	—	2,320	7.9	4,630	1.2	4.7
Mercury	—	—	—	—	—	—	—	—	—	—
Nickel	9.0	3.1	6.2	26.2	—	24.1	—	24.5	—	—
Potassium	23,900	2,090	16,400	50,100	811	12,000	717	2,950	881	1,180
Selenium	—	—	—	—	1.6	—	—	—	—	—
Silver	—	—	—	1.4	1.7	—	—	—	1.7	—
Sodium	78,700	21,300	64,300	165,000	2,130	96,600	5,250	48,500	4,640	9,690
Vanadium	—	—	—	—	—	—	—	—	—	—
Zinc	7.6	2.1	3.7	85.7	5.5	13.2	216	147	29.1	19.2

+ - Only detected values are reported
NR - Not Requested
Δ - Chloromethane and Vinyl Chloride co-elute

J - Concentration is less than the contract required detection limit, but > 0
B - Compound detected in the associated method blank
R - Compound rejected due to contamination in the associated blank
* - Bromoethane and Chloroethane co-elute

TABLE 1 (Cont'd)
RAMAPO LANDFILL - JANUARY 1993 SAMPLING +

ANALYTE	CONCENTRATION (µg/L)					
	RVWF-1	SVWC-93	SVWC-94	SVWC-95	SVWC-96	ARARs @
Acetone	—	—	—	—	—	50
1,1,1-Trichloroethane	—	—	—	—	—	5 §
Bromoethane *	—	—	—	—	—	5 §
Chloroethane *	—	—	—	—	—	5 §
Chloromethane Δ	—	—	—	—	—	5 §
Vinyl Chloride Δ	—	—	—	—	—	2
Hexachlorobenzene	—	—	—	—	—	0
bis(2-ethylhexyl)phthalate	25 B	8 J	5 J	3 J	8 J	50
Dibenzofuran	—	—	—	—	—	50 ¤
Aluminum	71.2	10.4	10.1	6.2	10.7	—
Arsenic	—	—	—	—	20.2	25
Barium	15.2	6.7	8.4	5.1	4.6	1,000
Beryllium	—	—	—	—	—	—
Boron	136	28	48	—	28	1,000
Cadmium	—	—	—	—	—	10
Calcium	29,500	18,700	21,200	15,900	15,000	—
Chromium	25.2	—	—	—	—	50
Cobalt	3.7	—	—	—	—	—
Copper	8.7	101	36.4	23.3	25.0	200
Iron	362	32.6	40.3	51.7	22.3	300
Lead	—	6.7	2.5	13.1	2.5	15 ¥
Magnesium	8,360	4,770	5,730	4,530	4,560	35,000
Manganese	839	—	7.3	56.4	—	300
Mercury	—	—	—	—	—	2
Nickel	22.9	—	—	—	—	—
Potassium	2,500	1,390	1,250	950	966	—
Selenium	—	—	—	—	—	10
Silver	—	1.3	1.4	—	—	50
Sodium	37,100	30,400	32,800	23,400	21,700	20,000
Vanadium	—	—	—	—	—	—
Zinc	41.2	94.1	7.6	19.6	19.5	300

@ - Values obtained from Water Quality Regulations for Surface Waters and Groundwaters 6 NYCRR Parts 700-705, September 1, 1991, unless otherwise indicated.

§ - Values obtained from Chapter I - New York State Sanitary Code, Subpart 5-1, Principle Organic Contaminants.

¤ - Value obtained from Chapter I - New York State Sanitary Code, Subpart 5-1, Unspecified Organic Contaminants.

¥ - USEPA proposed action level

+ - Only detected values are reported
NR - Not Requested
Δ - Chloromethane and Vinyl Chloride co-elute

J - Concentration is less than the contract required detection limit, but > 0
B - Compound detected in the associated method blank
R - Compound rejected due to contamination in the associated blank
* - Bromoethane and Chloroethane co-elute

TABLE 1 (Cont'd)
RAMAPO LANDFILL - JANUARY 1993 SAMPLING +

ANALYTE	CONCENTRATION (μg/L)				
	SW-1	SW-5	SW-6	SW-8	ARARs æ
Acetone	—	—	—	—	—
1,1,1-Trichloroethane	—	—	—	—	—
Bromoethane *	—	—	—	—	—
Chloroethane *	—	—	—	—	—
Chloromethane Δ	—	—	—	—	—
Vinyl Chloride Δ	—	—	—	—	—
Hexachlorobenzene	—	—	—	—	0.3
bis(2-ethylhexyl)phthalate	3 J	6 J	3 J	9 J	0.6
Dibenzofuran	1 J	—	—	—	50
Aluminum	101	172	88.8	108	—
Arsenic	—	—	—	—	0.0022 £
Barium	11.8	12.1	10.4	11.1	1,000
Beryllium	—	—	—	—	¢
Boron	—	—	—	—	10,000
Cadmium	—	—	—	—	10, ¢
Calcium	6,180	4,620	4,450	4,670	—
Chromium	—	—	—	—	50, ¢
Cobalt	—	—	—	—	5
Copper	3.8	—	1.5	—	200, ¢
Iron	141	194	82.5	109	300
Lead	—	1.3	2.4	—	50, ¢
Magnesium	1,560	1,010	1,040	1,140	35,000
Manganese	166	19.3	14.5	10.9	300
Mercury	—	—	—	—	0.012 £
Nickel	—	—	—	—	1.30E-07 £
Potassium	772	314	337	323	—
Selenium	—	—	—	—	10
Silver	—	—	—	—	50
Sodium	5,930	5,490	5,030	4,590	—
Vanadium	—	—	—	—	14
Zinc	11.6	26.1	10.8	11.1	30

æ - Values obtained from Water Quality Regulations for Surface Waters and Groundwaters 6 NYCRR Parts 700-705, September 1, 1991, unless otherwise indicated.

£ - Clean Water Act

¢ - ARAR value must be calculated; see next page.

+ - Only detected values are reported
NR - Not Requested
Δ - Chloromethane and Vinyl Chloride co-elute

J - Concentration is less than the contract required detection limit, but > 0
B - Compound detected in the associated method blank
R - Compound rejected due to contamination in the associated blank
* - Bromoethane and Chloroethane co-elute

TABLE 1 (Cont'd)

RAMAPO LANDFILL - JANUARY 1993 SAMPLING +

Calculated Surface Water ARARs

Analyte	Units	SW-1		SW-5		SW-6	
		Concentration	Calculated ARAR	Concentration	Calculated ARAR	Concentration	Calculated ARAR
Hardness	ppm	21.9		15.7		15.4	
Copper	µg/L	3.8	3.2			1.5	2.4
Lead	µg/L			1.3	0.31	2.4	0.30

Copper ARAR = e^(0.8545 [ln (Hardness)] - 1.465)

Lead ARAR = e^(1.266 [ln (Hardness)] - 4.661)

TABLE 2

RAMAPO LANDFILL
GROUNDWATER AND SURFACE WATER
MONITORING DATA
COMPOUND: Benzene

Sample ID	Date of Sampling Event		
	1/90	9/90	1/93
1 O/S	ND	ND	ND
1 R	ND	ND	ND
2 O/S	ND	ND	NA
2R	ND	ND	NA
3 O/S	ND	ND	ND
3 R	ND	ND	ND
4 O/S	ND	0.3	ND
4 R	1.0	1.0	ND
5 O/S	2.0	ND	ND
5 R	ND	ND	ND
6 I	NA	0.2	ND
6 R	NA	ND	ND
7 O/S	ND	ND	ND
7 R	ND	ND	ND
8 O/S	2.0	0.3	ND
8 R	3.0	0.4	ND
9 O/S	NA	ND	ND
9 R	NA	0.9	ND
PW-1	NA	ND	ND
PW-2	NA	NA *	ND
BP-1	NA	NA	ND
RVWF-1	NA	NA	ND
SVWC-93	NA	NA	ND
SVWC-94	NA	NA	ND
SVWC-95	NA	NA	ND
SVWC-96	NA	NA	ND
Surface Water	Date of Sampling Event		
Sample ID	10/89	7/90	1/93
SW-1	ND	NA	ND
SW-5	ND	ND	ND
SW-6	NA	ND	ND
SW-8	NA	ND	ND

Notes: *Concentration reported in µg/L (ppb).*

ND - Not detected

NA - Not applicable (e.g. well not installed by this date or if installed, not sampled)

** NYSDOH results from 3/92 sampling.*

- *Exceeded ARAR value of 0.7 ppb for groundwater and Ramapo River.*
- *Exceeded ARAR value of 6 ppb for Torne Brook.*

TABLE 3

RAMAPO LANDFILL
GROUNDWATER AND SURFACE WATER
MONITORING DATA
COMPOUND: Chromium

Sample ID	Date of Sampling Event		
	1/90	9/90	1/93
1 O/S	153	57.3	8
1 R	39.7	17.5	ND
2 O/S	180	141	NA
2R	16.1	5.5	NA
3 O/S	587	1290	807
3 R	28	11.4	ND
4 O/S	139	40.1	5.8
4 R	35.5	13.1	ND
5 O/S	90	35.6	48.8
5 R	27.4	29.3	6.8
6 I	NA	28.7	ND
6 R	NA	31.1	24
7 O/S	33.5	40.1	24.2
7 R	16.2	16.8	ND
8 O/S	34.8	16.7	ND
8 R	20	23.1	9.9
9 O/S	NA	6.8	ND
9 R	NA	8.8	3.9
PW-1	NA	ND	ND
PW-2	NA	ND *	ND
BP-1	NA	NA	ND
RVWF-1	NA	NA	25.2
SVWC-93	NA	NA	ND
SVWC-94	NA	NA	ND
SVWC-95	NA	NA	ND
SVWC-96	NA	NA	ND
Surface Water	Date of Sampling Event		
Sample ID	10/89	7/90	1/93
SW-1	ND	NA	ND
SW-5	ND	ND	ND
SW-6	NA	ND	ND
SW-8	NA	ND	ND

Notes: *Concentration reported in µg/L (ppb).*

ND - Not detected

NA - Not applicable (e.g. well not installed by this date or if installed, not sampled)

** NYSDOH results from 3/92 sampling.*

- *Exceeded ARAR value of 50 ppb for groundwater and Ramapo River.*
- *Exceeded ARAR value of 59 ppb for Torne Brook.*

TABLE 4

RAMAPO LANDFILL
GROUNDWATER AND SURFACE WATER
MONITORING DATA
COMPOUND: Iron

Sample ID	Date of Sampling Event		
	1/90	9/90	1/93
1 O/S	45000	17500	1870
1 R	1180	2650	395
2 O/S	912	41800	NA
2R	409	602	NA
3 O/S	6830	9750	5110
3 R	1930	1370	11500
4 O/S	15600	12400	529
4 R	8230	5290	3520
5 O/S	27000	11200	11100
5 R	658	368	620
6 I	NA	486	953
6 R	NA	683	1220
7 O/S	981	24500	1250
7 R	ND	1940	31.5
8 O/S	229000	43800	3230
8 R	1360	2940	11600
9 O/S	NA	249	50.7
9 R	NA	20200	2680
PW-1	NA	64	186
PW-2	NA	11 *	41.8
BP-1	NA	NA	274
RVWF-1	NA	NA	362
SVWC-93	NA	NA	32.6
SVWC-94	NA	NA	40.3
SVWC-95	NA	NA	51.7
SVWC-96	NA	NA	22.3
Surface Water	Date of Sampling Event		
Sample ID	10/89	7/90	1/93
SW-1	2630	NA	141
SW-5	93	163	194
SW-6	NA	177	82.5
SW-8	NA	1290	109

Notes: *Concentration reported in µg/L (ppb).*

ND - Not detected

NA - Not applicable (e.g. well not installed by this date or if installed, not sampled)

** NYSDOH results from 3/92 sampling.*

- *Exceeded ARAR value of 300 ppb for groundwater and Ramapo River.*
- *Exceeded ARAR value of 300 ppb for Torne Brook.*

TABLE 5

RAMAPO LANDFILL
GROUNDWATER AND SURFACE WATER
MONITORING DATA
COMPOUND: Manganese

Sample ID	Date of Sampling Event		
	1/90	9/90	1/93
1 O/S	3,790.0	3,700.0	809.0
1 R	144.0	98.5	61.4
2 O/S	298.0	4770.0	
2R	197.0	135.0	
3 O/S	8,700.0	18,100.0	3,450.0
3 R	7,230.0	12,400.0	10,700.0
4 O/S	4,210.0	5,020.0	547.0
4 R	1,730.0	1,520.0	1,660.0
5 O/S	981.0	530.0	192.0
5 R	22.3	9.3	9.6
6 I	NA	33.1	151.0
6 R	NA	14.3	100.0
7 O/S	1,240.0	3,260.0	48.3
7 R	51.9	102.0	46.1
8 O/S	2,830.0	2,750.0	1,680.0
8 R	872.0	181.0	1,660.0
9 O/S	NA	14.6	ND
9 R	NA	3,270.0	2,320.0
PW-1	NA	ND	1.2
PW-2	NA	ND *	4.7
BP-1	NA	NA	4,630.0
RVWF-1	NA	NA	839.0
SVWC-93	NA	NA	ND
SVWC-94	NA	NA	7.3
SVWC-95	NA	NA	56.4
SVWC-96	NA	NA	ND
Surface Water	Date of Sampling Event		
Sample ID	10/89	7/90	1/93
SW-1	1,120.0	NA	16.6
SW-5	19.5	44.5	19.3
SW-6	NA	31.9	14.5
SW-8	NA	153.0	10.9

Notes: *Concentration reported in µg/L (ppb).*

ND - Not detected

NA - Not applicable (e.g. well not installed by this date or if installed, not sampled)

** NYSDOH results from 3/92 sampling.*

- Exceeded ARAR value of 300 ppb for groundwater and Ramapo River. There is no ARAR for Class B water body (Torne Brook).

APPENDIX

CHEMICAL ANALYTICAL DATA

RAMAPO LANDFILL QUARTERLY MONITORING

DATA VALIDATION REPORT

The first quarter monitoring event at Ramapo Landfill occurred in January 1993. Groundwater samples were collected from nineteen monitoring wells, two private residential wells, and four of the Spring Valley Water Company (SVWC) wells. Four surface water samples were also collected. The sample locations are present in Figure 1.

The samples were analyzed by H_2M Labs, Inc., located in Melville, NY in accordance with the New York State Department of Environmental Conservation Analytical Services Protocols (ASP), September 1989, 12/91 Revisions. The deliverable data package consisted of an abbreviated Superfund deliverable and included analytical summaries, surrogate recoveries and quality control data. Three separate data packages were submitted by H_2M Labs for validation. Chain-of-custody procedures were followed in accordance with the project work plans. Data validation and determination of usability were performed following the guidelines established in USEPA SOP No. HW-6 CLP Organic Data Review, April 1989. The inorganic data validation was performed following the guidelines presented in USEPA SOP No. HW-2 Evaluation of Metals Data for the Contract Laboratory Program, Revisions XI, March 1992. Other ASP water quality parameters were validated against the methods. Included with this report is a Table of rejected organic compounds that meet USEPA criteria for rejection and are considered common laboratory contaminants.

A. General Variance (All Reports)

Methods 601/602 for halogenated and aromatic volatile organic compounds report detection limits of 3 ppb, when a 1 ppb maximum detection limit was requested. The laboratory was questioned about this and responded that with all future analyses, a detection limit of 1 ppb would be reported.

Four compounds (bromomethane/chloroethane and chloromethane/vinyl chloride) co-eluted. Method 601 states when doubt exists over the identification of a peak on the chromatogram, confirmatory technique must be used (e.g. dissimilar GC column or GC/MS analysis). H_2M Labs, Inc. stated this would be the procedure they follow with all future samples received at the laboratory.

B. Lab Report URS001/002

The data is usable as reported. The only variance noted was the analysis of semivolatile sample 9R. The initial analysis exhibited internal standard outliers. The reanalysis produced the same results, indicating a matrix interference.

C. **Lab Report URS003/005/007**

The data is usable as reported, except semivolatile sample 5-0S. This data is rejected because the sample was initially fortified with matrix spike solution. The sample was reextracted outside holding time, therefore invalidating the data.

D. **Lab Report URS004/006**

No deviations detected, all data usable as reported.

ORGANIC COMPOUNDS REJECTED FROM THE RAMAPO LANDFILL SITE*

Sample ID	Compound Rejected	Conc. (ppb) of Compound in the Sample	Conc. (ppb) of Compound in the Method Blank
3-0S	bis (2-Ethylhexyl)phthalate (SVOA)	2	2
7-0S	"	2	2
7-R	"	3	2
8-0S	"	2	2
8-R	"	12	2
9-0S	"	16	2
9-R	"	17	2
9-R-RE	"	19	2
PW1	"	2	2
PW2	"	4	2

* For semivolatile samples, no positive results are reported unless the concentration of the compound in the sample exceeds ten times the concentration of the compound in the method blank for common laboratory contaminants (phthalates), or five times the concentration for other compounds. Diluted samples and dry weights must be accounted for in the method blank.