STERLING
Sterling Environmental Engineering, P.C.
May 12, 2009

Mr. Jim Schreyer
Construction Inspector
Division of Environmental Remediation
NYS Department of Environmental Conservation
Region 3
21 South Putt Corners Road
New Paltz, New York 12561-1696

Subject: Town of Ramapo Landfill
2009 Annual Environmental Monitoring Program Results
STERLING File #20010

Dear Mr. Schreyer,

This letter report provides groundwater, drinking water and air monitoring results for the 2009 annual post-closure Environmental Monitoring Program (EMP) event conducted for the Town of Ramapo Landfill, Rockland County, New York. The New York State Department of Environmental Conservation (NYSDEC) approved a variance request on October 27, 2003 reducing the monitoring frequency to annually.

Groundwater samples were collected on March 16 and 17, 2009 by Sterling Environmental Engineering, P.C. (STERLING) from monitoring well locations 1-OS/I, 2-OS, 3-OS/I, 4-OS, 5-OS, 7-OS, 8-OS, 8-I, 8-R, 9-OS, 9-I, 9-R, private water supply wells PW-1 and PW-2, and municipal water supply wells SVWC-93, SVWC-95 and SVWC-96. Municipal water supply well SVWC-94 was out of service during the monitoring event conducted on March 16 and 17, 2009, therefore, no sample was analyzed for this location. Static water level readings were obtained at all of the monitoring well locations mentioned above and at monitoring well locations 1-R, 2-R, 3-R, 4-R, 5-R, 6-I, 6-R and 7-R. Groundwater sampling locations are shown on Figure 1. A representative from United Water New York was present during the sampling of the SVWC water supply wells.

The 2009 air monitoring event was conducted on March 16, 2009. Air monitoring locations are shown on Figure 1 and results are summarized on Table 1.

Results for the 2009 EMP are summarized below.

GROUNDWATER MONITORING

Water Level, Specific Conductivity, Temperature, pH and Oxidation Reduction Potential (ORP) readings were measured in the field and are presented on Table 2, "Field Parameters and Water Levels". All samples were analyzed for approved post-closure 6 NYCRR Part 360 Baseline and Site Related Parameters by Life Science Laboratories, Inc. located in East Syracuse, New York, acccording to the United States Environmental Protection Agency (USEPA) methodologies and protocols.

The 2009 analytical results are summarized on Table 3, "Post-Closure Groundwater Quality Monitoring Analytical Results." This table also includes analytical data for the previous three (3) sampling events.

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Historic analytical data for the target compounds Benzene, Chromium, Iron and Manganese are presented on Tables 3A through 3D. A copy of the laboratory report for the March 2009 sampling event, prepared according to NYSDEC Analytical Services Protocol (ASP) Category B reporting requirements, is attached.

A duplicate sample was collected from groundwater well 7-OS and labeled DUP 3/09 for the 2009 EMP event.

The 2009 analytical results summarized in Tables 2 and 3 are generally consistent with concentrations reported for historical data provided in Tables 3A through 3D. A brief discussion of the 2009 analytical results for each well sample with respect to the NYSDEC Division of Water Technical and Operational Guidance Series 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (June 1998) (TOGS 1.1.1) is provided below:

Well 1-OS:

The reported concentrations for Chromium, Iron, Manganese, Nickel and Sodium exceed the applicable groundwater standards in TOGS 1.1.1. The reported exceedances are consistent with historic results. No detected Volatile Organic Compounds (VOCs) are reported for this sample.

Well 2-OS:

Consistent with historic results, the reported concentrations for Chromium, Iron and Manganese exceed the applicable groundwater standards in TOGS 1.1.1. No detected VOCs are reported for this sample.

Well 3-OS/I:

The reported concentrations for Chromium, Iron, Manganese, Nickel, and Sodium exceed the applicable groundwater standards in TOGS 1.1.1 and are consistent with historic data. No detected VOCs are reported for this sample.

Well 4-OS:

The reported concentrations for Chromium, Iron, Manganese and Sodium exceed the applicable groundwater standards in TOGS 1.1.1. Reported Chromium levels occasionally exceed the groundwater standard for samples collected up to March 2004. For samples collected from 2005-2009, all reported Chromium levels exceed TOGS 1.1.1. Reported levels for Iron, Manganese and Sodium are consistent with the historic data. No detected VOCs are reported for this sample.

Well 5-OS:

The reported concentrations for Chromium, Iron and Manganese exceed the applicable groundwater standards in TOGS 1.1.1 and are consistent with historic data. The reported concentration of 3.2 ug/L for Beryllium slightly exceeds the TOGS 1.1.1 standard of 3.0 ug/L. No detected VOCs are reported for this sample.

Well 7-OS:

Reported concentrations for Chromium, Iron and Manganese exceed the applicable groundwater standards in TOGS 1.1.1 and are consistent with historic data. No detected VOCs are reported for this sample.

Well 8-OS:

Reported concentrations for Chromium, Iron and Manganese exceed the applicable groundwater standards in TOGS 1.1.1 and are consistent with historic data. Reported Chromium levels occasionally exceed the groundwater standard for samples collected up to June 2005. For samples collected from 2005-2009, all reported Chromium levels exceed TOGS 1.1.1. Reported levels for Iron, Manganese and Sodium are consistent with historic data. No detected VOCs are reported for this sample.

Well 8-I:

Reported concentrations for Iron, Manganese, and Sodium exceed the applicable groundwater standards in TOGS 1.1.1 and are consistent with historic data. The VOC, Chlorobenzene, is reported at 0.29 ppb but does not exceed the groundwater standard of 5 ppb. No other detected VOCs are reported for this sample.

Well 8-R:

Reported concentrations for Iron, Magnesium, Manganese, and Sodium exceed the applicable groundwater standards in TOGS 1.1.1 and are consistent with historic data. The VOC, 1,1-Dichloroethane, is reported at 0.11 ppb but does not exceed the groundwater standard of 5 ppb. No other detected VOCs are reported for this sample.

Well 9-OS:

Reported concentrations for Chromium and Iron exceed the applicable groundwater standards in TOGS 1.1.1. Reported Chromium concentrations for 1990-2005 do not exceed the groundwater standard of 50 ug/L, but do for the 2006, 2007 and 2009 events. The reported Iron concentration is consistent with historic data. No detected VOCs are reported for this sample.

Well 9-I:

The reported concentration for Iron exceeds the applicable groundwater standard in TOGS 1.1.1 and is consistent with historic data. No detected VOCs are reported for this sample.

Well 9-R:

The reported concentrations for Iron, Manganese and Sodium exceed the applicable groundwater standards in TOGS 1.1.1, which are consistent with historic data. The VOC, Chlorobenzene, is reported at 0.22 ppb, but does not exceed the groundwater standard of 5 ppb.

Well PW-1:

Parameters reported at detectable concentrations do not exceed the applicable groundwater standards in TOGS 1.1.1 for the 2009 monitoring event. No VOCs are reported for the 2005-2009 monitoring events.

Well PW-2:

Parameters reported at detectable concentrations do not exceed the applicable groundwater standards in TOGS 1.1.1 for the 2009 monitoring event. No VOCs are reported for the 2005-2009 monitoring events.

Well SVWC-93:

The reported concentration for Sodium exceeds the applicable groundwater standard in TOGS 1.1.1, which is consistent with historic results. No detected VOCs are reported for the 2005-2009 monitoring events.

Well SVWC-94:

The SVWC-94 location was out of service during the time of the March 2009 monitoring event, therefore, no sample was obtained.

Well SVWC-95:

The reported concentration for Sodium exceeds the applicable groundwater standard in TOGS 1.1.1, which is consistent with historic results. No detected VOCs are reported for the 2005-2009 monitoring events.

Well SVWC-96:

The reported concentration for Sodium exceeds the applicable groundwater standard in TOGS 1.1.1, which is consistent with historic results. No detected VOCs are reported for the 2005-2009 monitoring events.

AIR QUALITY MONITORING

Air quality monitoring consisted of surveying explosive gas (Lower Explosive Limit, or LEL), Hydrogen Sulfide (H_2S) and Volatile Organic Compounds (VOCs) of the headspace of each monitoring well, the baler building, leachate Manhole A-5, lift stations A-10 and W-20, and breathing space of the Landfill perimeter at 100 foot intervals. Air sampling locations are shown on Figure 1 and results are summarized in Table 1. LEL and H_2S measurements were obtained with a QRAE Multi gas monitor, and VOC measurements were obtained with a Photovac 2020 photoionization unit.

The 2009 air quality monitoring survey for explosive gas, H_2S, and VOCs reports no detected readings except for two (2) reported LEL readings, one for the headspace of Well 1-OS (5%) and the other at Lift Station A-10 (3%), which are considered minor detections. Based on the 2009 air quality monitoring results, the Landfill is in compliance with the requirements of 6 NYCRR 360-2.15(k)(4).

The next sampling event is scheduled to occur in the second quarter of 2010. Please contact me should you have any questions or comments.

Very truly yours,

STERLING ENVIRONMENTAL ENGINEERING, P.C.

Jessica Sgambati
Environmental Consultant
jessica@sterlingenvironmental.com

JS/bc
First Class Mail
Attachments (Figure 1, Tables 1-3, 3A through 3D, and Laboratory Report)

cc: George Jacob, USEPA
John Olm, NYDOH*
Ed Moran, Town of Ramapo*
Judy Hunderfund, Rockland County DOH*
Kathy Quinn, Rockland County DOH*
Chris Berke, United Water New York *
Tanyo Parashkevov, United Water New York*
John France, Torne Brook Farm **
Rosie Digianni, 20 Torne Brook Road **
Arlene Lapidos, Ramapo Land Co., Inc. *

* letter, figures and tables only.
** letter, figures, tables and partial lab report enclosure.

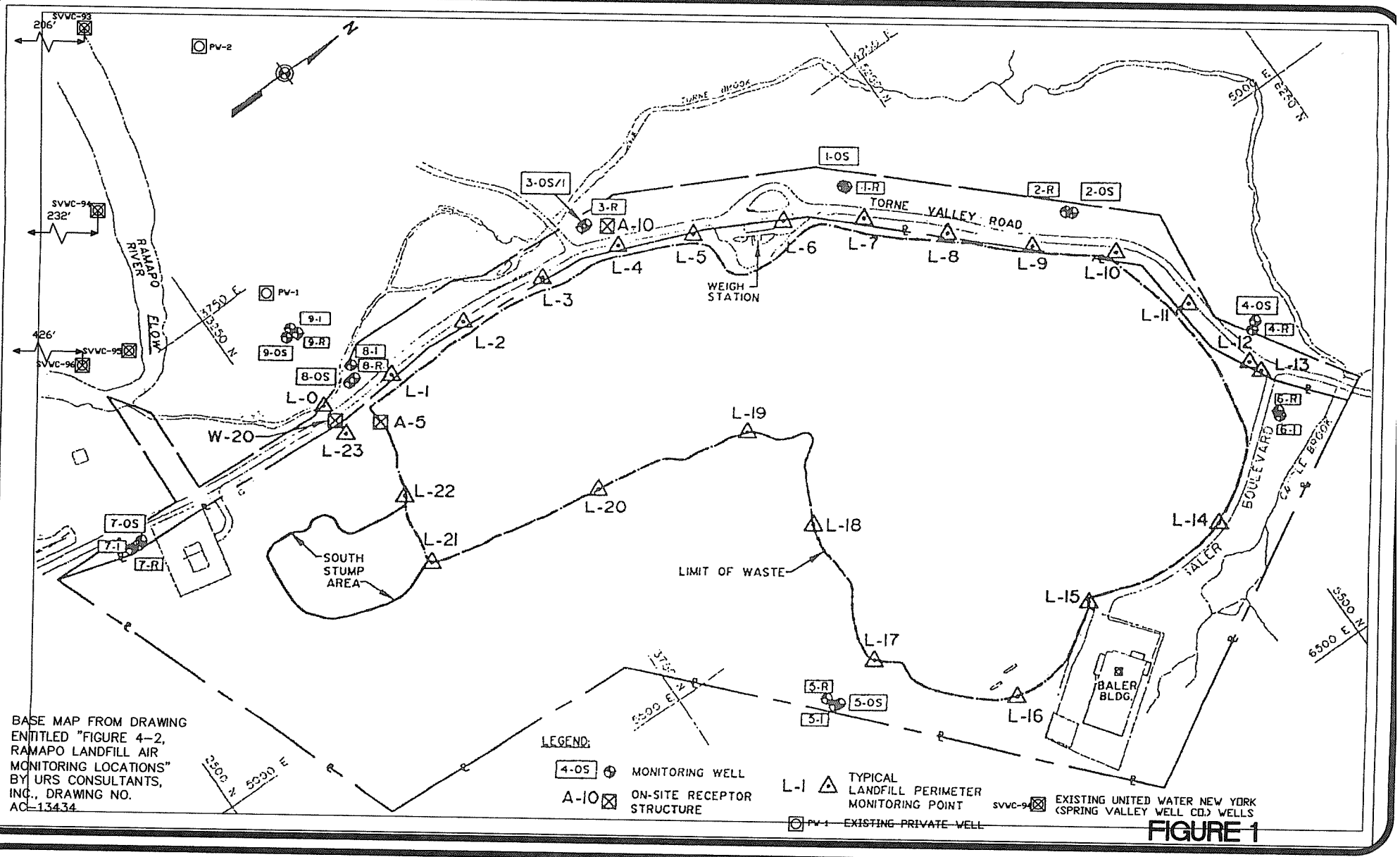

FIGURE 1

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2009 AIR QUALITY AND GROUNDWATER MONITORING LOCATIONS

TOWN OF RAMAPO LANDFILL

TOWN OF RAMAPO ROCKLAND CO., N.Y.

PROJ. No.:	E20010	DATE:	3-16-09	SCALE:	1"=400'	DWG. NO.	20010013	FIGURE	1

TABLE 1

TOWN OF RAMAPO LANDFILL
AIR MONITORING RESULTS
March 16 & 17, 2009

Monitoring Location (1)	LEL Reading (%)	H_2S Reading (ppm)	PID Reading (ppm)
Monitoring Wells:			
1-OS/I	5	0	0
1-R	0	0	0
2-OS	0	0	0
2-R	0	0	0
3-OS/I	0	0	0
3-R	0	0	0
4-OS	0	0	0
4-R	0	0	0
5-OS	0	0	0
5-R	0	0	0
6-I	0	0	0
6-R	0	0	0
7-OS	0	0	0
7-R	0	0	0
8-OS	0	0	0
8-I	0	0	0
8-R	0	0	0
9-OS	0	0	0
9-I	0	0	0
9-R	0	0	0
Baler Building (waist high)	0	0	0
Manhole A-5	0	0	0
Lift Station A-10	3	0	0
Lift Station W-20	0	0	0
Landfill Perimeter (every 100-foot location)	0	0	0

NOTES:

LEL = Lower Explosive Limit (for Explosive Gas)

H_2S = Hydrogen Sulfide

PID = Photoionization Detector (measures VOCs)

ppm = parts per million

(1) See Figure 1 for Air Monitoring Locations

TABLE 2

TOWN OF RAMAPO LANDFILL
POST-CLOSURE GROUNDWATER QUALITY MONITORING
FIELD PARAMETERS AND WATER LEVELS
March 2009

Well I.D.	Date	Static Water Level [1] (feet)	pH [2] (pH units)	Specific Conductance (ms/cm^c)	Temperature (degrees C)	ORP [3] (mV)
1-OS/I	2009-03-17	16.26	**6.37**	0.978	11.27	-20.1
1-R	2009-03-17	18.31	---	---	---	---
2-I	2009-03-17	---	---	---	---	---
2-OS	2009-03-17	13.48	6.64	0.583	9.60	122.6
2-R	2009-03-17	16.85	---	---	---	---
3-OS/I	2009-03-17	12.49	6.68	0.689	9.56	75.2
3-R	2009-03-17	13.1	---	---	---	---
4-OS	2009-03-17	6.58	**5.79**	0.437	7.42	160.2
4-R	2009-03-17	8.48	---	---	---	---
5-OS	2009-03-16	7.50	6.54	0.066	7.94	159.4
5-I	2009-03-17	---	---	---	---	---
5-R	2009-03-16	10.80	---	---	---	---
6-I	2009-03-17	18.55	---	---	---	---
6-R	2009-03-17	31.50	---	---	---	---
7-OS	2009-03-16	13.69	**6.13**	0.376	10.84	130.5
7-R	2009-03-16	16.62	---	---	---	---
8-OS	2009-03-16	13.97	**6.37**	0.537	9.41	46.5
8-I	2009-03-16	14.85	**6.28**	0.650	11.50	-38.7
8-R	2009-03-16	14.10	6.55	1.146	11.84	19.2
9-OS	2009-03-16	9.10	**6.17**	0.108	9.71	44.6
9-I	2009-03-16	11.39	**6.14**	0.149	11.59	64.9
9-R	2009-03-16	12.23	**6.21**	0.583	12.63	-65
PW-1	2009-03-16	---	**5.94**	0.140	11.69	70.5
PW-2	2009-03-16	---	**6.09**	0.182	11.61	104.6
SVWC-93	2009-03-17	---	**6.09**	0.445	9.95	147.2
SVWC-94	2009-03-17	---	---	---	---	---
SVWC-95	2009-03-17	---	**6.08**	0.428	6.38	141.1
SVWC-96	2009-03-17	---	**6.22**	0.432	7.48	131.8

NOTES: [1] Depth to water surface from top of PVC well riser, measured prior to purging and sampling well.

[2] pH values in **BOLD** indicate an exceedance of the NYSDEC Water Quality Standard for pH: minimum 6.5 pH units, maximum 8.5 pH units (from T.O.G.S. 1.1.1, June 1998).

[3] ORP - Oxidation Reduction Potential

--- Not Measured

TABLE 3

TOWN OF RAMAPO LANDFILL
POST-CLOSURE GROUNDWATER QUALITY MONITORING
ANALYTICAL RESULTS

Parameter	ARARs [1]	UNITS	WELL 1-OS/I Jun-05 [DUP]	Sep-06	Oct-07	Mar-09	WELL 2-OS Jun-05	Sep-06	Oct-07	Mar-09
Leachate Indicator Parameters:										
Alkalinity	---	mg/L	224	210	170	140	222	280	250	280
Chemical Oxygen Demand	---	mg/L	32.3	78	75	26	14.5	24	33	17
Total Hardness	---	mg/L	230	710	440	280	259	52	320	280
Total Kjeldhal Nitrogen	---	mg/L	1 UN	0.4 U	1.7	0.31	1 UN	0.4 U	0.32	0.1 J
TAL Metals:										
Aluminum	---	ug/L	765	39,000	47,000	12,000	1,190	4,500	12,000	3,200
Antimony	3	ug/L	0.12 U	3 U	**9.6**	60 U	0.12 U	3 U	2.4 J	60 U
Arsenic	25	ug/L	8.1 B	**43**	**31**	7.1 J	4 B	2.8 J	6.2	10 U
Barium	1000	ug/L	110 B	440	450	150	51.4 B	50 J	110	44 J
Beryllium	3	ug/L	0.4 U	2.2 J	2.6 J	0.61 J	0.4 U	0.44 J	0.66 J	3 U
Cadmium	5	ug/L	0.8 U	4.3	1 U	5 U	0.8 U	1.6	1 U	5 U
Calcium	---	ug/L	69,400	140,000	80,000	82,000	78,200	87,000	97,000	99,000
Chromium	50	ug/L	31.4	**2,400**	**530**	**140**	**101**	**120**	**250**	**480**
Cobalt	---	ug/L	9.1 B	63	81	28 J	12.4 B	25	47	20 J
Copper	200	ug/L	25.9	130	140	33	15.9 B	15	35	21
Iron	300	ug/L	**54,200 N**	**120000**	**160,000**	**38,000**	144 N	**12,000**	**31,000**	**12,000**
Lead	25	ug/L	5.8	**94**	**44**	6.3 J	7.6	9.1	22	5.7 J
Magnesium	35000 GV	ug/L	14,000	28,000	30,000	20,000	15,600	18,000	22,000	18,000
Manganese	300	ug/L	**4,720**	**2,800**	**5,100**	**9,000**	**778**	**1,900**	**3,500**	**2,200**
Mercury	0.7	ug/L	0.16 U	0.12	0.11 J	0.2 U	0.16 U	0.2 U	0.037 J	0.2 U
Nickel	100	ug/L	9.2 B	**270**	**750**	**640**	52.1	80	**150**	**490**
Potassium	---	ug/L	2,670 B	11,000	14,000	5,800	1,870 B	3,000 J	4,600 J	2,100 J
Selenium	10	ug/L	1.6 U	5 U	7.1	10 U	6.9 W	5 U	5 U	10 U
Silver	50	ug/L	2.7 BN	10 U	10 U	10 U	1.9 BN	10 U	10 U	10 U
Sodium	20000	ug/L	**37,100 E**	**62,000**	**76,000**	**97,000**	8,680 E	11,000	12,000	11,000
Thallium	0.5 GV	ug/L	**10.4**	**20**	**9.9** J	20 U	**5.3** B	**16**	10 U	20 U
Vanadium	---	ug/L	2 U	120	150	34 J	2.3 B	11 J	31 J	8.5 J
Zinc	2000 GV	ug/L	26.2	220	210	46	31.8	41	53	16 J
VOCs by EPA Method 8260B:										
1,1-Dichloroethane	5	ug/L	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.1 J	0.5 U
Vinyl Chloride	2	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzene	1	ug/L	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	5	ug/L	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U

NOTES:

[1] ARARs Applicable or Relevant and Appropriate Requirements: NYSDEC Water Quality Standards and Guidance Values, T.O.G.S. 1.1.1 (June 1998). Values in **BOLD** indicate an exceedance of applicable water quality standards or guidance values.

All samples were analyzed for NYCRR Part 360 Baseline Parameters and Site Specific Parameters.
Life Science Laboratories, Inc. conducted analyses for the 2006 - 2009 samples. Samples from the 2005 event were analyzed by STL Newburgh.

[DUP] Duplicate sample obtained at this location. The highest value given for the sample or the duplicate is reported.
NA Not Analyzed.
ND Not Detected.

Laboratory Qualifier Definitions:

STL Newburgh

U The compound was analyzed for, but not detected at the detection limit listed.
J Indicates an estimated value for tentatively identified compounds.
B The reported value is less than the Contract Required Detection Limit (CRDL), but greater than the Instrument Detection Limit.
E Indicates an estimated value because of the possible presence of interference.
W Indicates post digestion spike for furnance AA analysis is out of control limits (85-110%), while sample absorbance is less than 50% of spike absorbance.
N Spiked sample recovery not within control limits

Life Science Laboratories, Inc.

J Analyte detected below Practical Quantitation Limit (PQL)
U The compound was analyzed for, but not detected at the detection limit listed.
E Value exceeds the instrument calibration range.

TABLE 3 (Continued)

TOWN OF RAMAPO LANDFILL
POST-CLOSURE GROUNDWATER QUALITY MONITORING RESULTS
ANALYTICAL RESULTS

	ARARs [1]	UNITS	WELL 3-OS/I Jun-05	Sep-06	Oct-07	Mar-09 [2]	WELL 4-OS Jun-05	Sep-06	Oct-07	Mar-09
Leachate Indicator Parameters:										
Alkalinity	---	mg/L	206	280	270	NA	101	82	130	60
Chemical Oxygen Demand	---	mg/L	17.5	31	10 U	NA	10 U	10 U	28	15
Total Hardness	---	mg/L	255	580	340	280	201	92	230	110
Total Kjeldhal Nitrogen	---	mg/L	1.02 N	0.4 U	0.23	NA	1 U	0.4 U	0.25	0.2 U
TAL Metals:										
Aluminum	---	ug/L	10.4 U	580	520	870	386	2,500	9,800	3,800
Antimony	3	ug/L	0.12 U	3 U	**8.4**	60 U	0.12 U	3 U	1.8 J	60 U
Arsenic	25	ug/L	3.1 U	6.9	5 U	10 U	3.1 UN	2.6 J	5 U	10 U
Barium	1000	ug/L	122 B	69 J	34 J	130	32.7 BN	40 J	84 J	44 J
Beryllium	3	ug/L	0.4 U	0.23 J	0.1 J	3 U	0.4 U	0.43 J	0.6 J	3 U
Cadmium	5	ug/L	1.6 B	3.2	1 U	5 U	0.8 U	2.2	1 U	5 U
Calcium	---	ug/L	84,300	98,000	110,000	100,000	52,400	53,000	58,000	23,000
Chromium	50	ug/L	**2,020**	**7,200**	**3,400**	**3,900**	**56.7**	**1,300**	**270**	**230**
Cobalt	---	ug/L	9.3 B	56	17	20 J	2 B	14	13	50 U
Copper	200	ug/L	51.8	69	27	44	4.2 B	10	23	11
Iron	300	ug/L	**60,500 N**	**77,000**	**25,000**	**30,000**	**1,230**	**12,000**	**24,000**	**10,000**
Lead	25	ug/L	3.1	1.1 J	5 U	10 U	1.9 U	1.2 J	4.2 J	10 U
Magnesium	35000 GV	ug/L	10,700	13,000	14,000	12,000	17,100	18,000	20,000	11,000
Manganese	300	ug/L	**6,450**	**9,200**	**4,400**	**14,000**	**700**	**860**	**2,700**	**400**
Mercury	0.7	ug/L	0.16 U	0.2 U	0.2 U	0.2 U	0.16 U	0.2 U	0.2 U	0.2 U
Nickel	100	ug/L	**1,460**	**1,300**	**730**	**810**	87.8	40 J	68	44 J
Potassium	---	ug/L	4,010 B	3,900 J	3,200 J	3,100 J	1,390 B	2,400 J	4,100 J	1,800 J
Selenium	10	ug/L	1.6 U	5 U	5 U	20 U	3.9 UN	5 U	5 U	10 U
Silver	50	ug/L	23.3 N	10 U	10 U	10 U	3.8 BN	10 U	10 U	10 U
Sodium	20000	ug/L	**29,100 E**	**29,000**	**23,000**	**36,000**	**20,300**	**33,000**	**24,000**	**48,000**
Thallium	0.5 GV	ug/L	**12.7**	**16**	10 U	40 U	2.9 UN	**24**	10 U	20 U
Vanadium	---	ug/L	2 U	21 J	11 J	17 J	2 UN	9.8 J	27 J	11 J
Zinc	2000 GV	ug/L	35.7	33	6.5 J	6.6 J	22.5	44	36	17 J
VOCs by EPA Method 8260B:										
1,1-Dichloroethane	5	ug/L	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.15 J	0.5 U
Vinyl Chloride	2	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzene	1	ug/L	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	5	ug/L	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U

NOTES:

[1] ARARs Applicable or Relevant and Appropriate Requirements: NYSDEC Water Quality Standards and Guidance Values, T.O.G.S. 1.1.1 (June 1998).

[2] The parameters alkalinity, chemical oxygen demand, and total kjeldhal nitrogen were not analyzed due to insufficient water in monitoring well 3OS/I.

Values in **BOLD** indicate an exceedance of applicable water quality standards or guidance values.

All samples were analyzed for NYCRR Part 360 Baseline Parameters and Site Specific Parameters.
Life Science Laboratories, Inc. conducted analyses for the 2006 - 2009 samples. Samples from the 2005 event were analyzed by STL Newburgh.

[DUP] Duplicate sample obtained at this location. The highest value given for the sample or the duplicate is reported.
NA Not Analyzed.
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N Spiked sample recovery not within control limits

Life Science Laboratories, Inc.

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E Value exceeds the instrument calibration range.

TOWN OF RAMAPO LANDFILL
POST-CLOSURE GROUNDWATER QUALITY MONITORING RESULTS
ANALYTICAL RESULTS

	ARARs [1]	UNITS	WELL 5-OS Jun-05 [2]	Sep-06	Oct-07	Mar-09	WELL 5-I Jun-05	Sep-06 [2]	Oct-07 [2]	Mar-09 [2]
Leachate Indicator Parameters:										
Alkalinity	---	mg/L		22	50	22	41.2			
Chemical Oxygen Demand	---	mg/L		610	10 U	71	10 U			
Total Hardness	---	mg/L	N	5,200	52	48	49.3	N	N	N
Total Kjeldhal Nitrogen	---	mg/L		0.4 U	0.2 U	0.34	1.25 N			
TAL Metals:			O					O	O	O
Aluminum	---	ug/L		230,000	370	65,000	247			
Antimony	3	ug/L	T	3 U	3 U	60 U	0.12 U	T	T	T
Arsenic	25	ug/L		**33**	5 U	9.8 J	3.1 U			
Barium	1000	ug/L		**1,200**	7.6 J	290	8.6 B			
Beryllium	3	ug/L		**13**	3 U	**3.2**	0.4 U			
Cadmium	5	ug/L	S	**11**	1 U	5 U	0.8 U	S	S	S
Calcium	---	ug/L		84,000	12,000	21,000	12,300			
Chromium	50	ug/L	A	**690**	32	**170**	5.6 B	A	A	A
Cobalt	---	ug/L		210	10 U	46 J	1.9 U			
Copper	200	ug/L	M	**500**	10 U	110	2.9 B	M	M	M
Iron	300	ug/L		**410,000**	**850**	**110,000**	124 N			
Lead	25	ug/L	P	**67**	5 U	12	1.9 U	P	P	P
Magnesium	35000 GV	ug/L		**80,000**	4,600	21,000	4,510 B			
Manganese	300	ug/L	L	**5,100**	14 J	**1,100**	13.6	L	L	L
Mercury	0.7	ug/L		0.14	0.026 J	0.2 U	0.16 U			
Nickel	100	ug/L	E	**370**	14 J	89	2.3 U	E	E	E
Potassium	---	ug/L		38,000	760 J	11,000	799 B			
Selenium	10	ug/L	D	5 U	5 U	10 U	1.6 UW	D	D	D
Silver	50	ug/L		8.1 J	10 U	10 U	1.1 UN			
Sodium	20000	ug/L		14,000	4,100	8,100	2,880 BE			
Thallium	0.5 GV	ug/L		**7.8** J	10 U	20 U	**5.1** B			
Vanadium	---	ug/L		620	4.7 J	170	3.9 B			
Zinc	2000 GV	ug/L		610	8.8 J	130	5.9 B			
VOCs by EPA Method 8260B:										
1,1-Dichloroethane	5	ug/L		0.5 U	0.5 U	0.5 U	1 U			
Vinyl Chloride	2	ug/L		1 U	1 U	1 U	1 U			
Benzene	1	ug/L		0.5 U	0.5 U	0.5 U	1 U			
Chlorobenzene	5	ug/L		0.5 U	0.5 U	0.5 U	1 U			

NOTES:

[1] ARARs Applicable or Relevant and Appropriate Requirements: NYSDEC Water Quality Standards and Guidance Values, T.O.G.S. 1.1.1 (June 1998).

[2] Well 5-I is the alternative sampling location if Well 5-OS has insufficient water volume for sampling.

Values in **BOLD** indicate an exceedance of applicable water quality standards or guidance values.

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J Analyte detected below Practical Quantitation Limit (PQL)
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E Value exceeds the instrument calibration range.

TABLE 3 (Continued)

TOWN OF RAMAPO LANDFILL
POST-CLOSURE GROUNDWATER QUALITY MONITORING RESULTS
ANALYTICAL RESULTS

	ARARs [1]	UNITS	WELL 7-OS Jun-05	Sep-06	Oct-07	Mar-09 [DUP]	WELL 8-OS Jun-05	Sep-06	Oct-07	Mar-09
Leachate Indicator Parameters:										
Alkalinity	---	mg/L	123	98	110	98	21.4	64	74	66
Chemical Oxygen Demand	---	mg/L	10 U	24	10 U	6 J	10 U	10 U	10 U	55
Total Hardness	---	mg/L	169	230	130	170	47.6	130	80	140
Total Kjeldhal Nitrogen	---	mg/L	1 U	0.4 U	0.36	0.27	1 U	0.4 U	0.31	0.12 J
TAL Metals:										
Aluminum	---	ug/L	1,520	11,000	7,900	4,000	735	140	89	100 U
Antimony	3	ug/L	0.12 U	3 U	3 U	60 U	0.13 B	3 U	3 U	60 U
Arsenic	25	ug/L	3.1 UN	4.7 J	5 U	10 U	3.7 BN	5 U	5 U	10 U
Barium	1000	ug/L	102 BN	95 J	75 J	49 J	56.9 BN	8.9 J	14 J	13 J
Beryllium	3	ug/L	0.4 U	0.73 J	0.51 J	0.24 J	0.51 B	0.16 J	3 U	3 U
Cadmium	5	ug/L	0.8 UN	1	1 U	5 U	0.8 UN	0.92 J	1 U	5 U
Calcium	---	ug/L	48,800	35,000	39,000	49,000	14,200	17,000	24,000	41,000
Chromium	50	ug/L	5.7 B	**87**	**96**	**61**	29.6	**140**	**85**	**680**
Cobalt	---	ug/L	25.7 B	34	110	7.4 J	15.4 B	4.2 J	10 U	50 U
Copper	200	ug/L	5.2 B	28	18	10	32.1	2 J	10 U	11
Iron	300	ug/L	**1,310**	**17,000**	**13,000**	**5,800**	**3,150**	**1,200**	**780**	**3,800**
Lead	25	ug/L	2.5 B	6.3	5 U	10 U	1.9 U	5 U	5 U	10 U
Magnesium	35000 GV	ug/L	11,500	9,800	10,000	12,000	2,950 B	4,200	5,100	9,100
Manganese	300	ug/L	222	**1,300**	**920**	**450**	**691**	110	**2,000**	**610**
Mercury	0.7	ug/L	0.16 U	0.2 U	0.049 J	0.2 U	0.16 U	0.2 U	0.2 U	0.2 U
Nickel	100	ug/L	2.3 U	26 J	26 J	11 J	61.9	5.8 J	14 J	17 J
Potassium	---	ug/L	4,930 B	5,600	5,700	4,600 J	1,370 B	1,800 J	2,000 J	1,900 J
Selenium	10	ug/L	3.9 UN	5 U	5 U	10 U	3.9 UN	5 U	5 U	10 U
Silver	50	ug/L	2 BN	10 U	10 U	10 U	3.7 BN	10 U	10 U	10 U
Sodium	20000	ug/L	9,190	7,000	7,700	9,700	8,400	**28,000**	15,000	**41,000**
Thallium	0.5 GV	ug/L	2.9 UN	**7.6** J	10 U	20 U	2.9 UN	**9.8** J	10 U	20 U
Vanadium	---	ug/L	2.8 BN	21 J	17 J	8.3 J	2.4 BN	50 U	50 U	3 J
Zinc	2000 GV	ug/L	13.4 B	53	24	13 J	56.7	20	5.2 J	5.4 J
VOCs by EPA Method 8260B:										
1,1-Dichloroethane	5	ug/L	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U
Vinyl Chloride	2	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzene	1	ug/L	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	5	ug/L	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U

NOTES:

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TABLE 3 (Continued)

TOWN OF RAMAPO LANDFILL
POST-CLOSURE GROUNDWATER QUALITY MONITORING RESULTS
ANALYTICAL RESULTS

	ARARs [1]	UNITS	WELL 8-I				WELL 8-R			
			Jun-05	Sep-06	Oct-07	Mar-09	Jun-05	Sep-06	Oct-07	Mar-09
Leachate Indicator Parameters:										
Alkalinity	---	mg/L	564	260	230	190	505	520	490	480
Chemical Oxygen Demand	---	mg/L	50.1	41	53	44	10 U	14	11	10
Total Hardness	---	mg/L	360	460	190	170	600	460	570	560
Total Kjeldhal Nitrogen	---	mg/L	10.2	18 E	14	7.8	1.78	1.6	3	1.7
TAL Metals:										
Aluminum	---	ug/L	184 B	8,700	10,000	8,300	10.4 U	1,200	66	100 U
Antimony	3	ug/L	0.12 U	3 U	3 U	60 U	0.12 U	3 U	3 U	60 U
Arsenic	25	ug/L	8.6 BN	**26**	15	12	3.1 UN	3.1 J	5 U	10 U
Barium	1000	ug/L	111 BN	110	110	95 J	20.8 BN	29 J	19 J	16 J
Beryllium	3	ug/L	0.4 U	0.66 J	0.67 J	0.46 J	0.4 U	0.28 J	3 U	3 U
Cadmium	5	ug/L	0.8 UN	1.5	1 U	5 U	0.8 UN	1.2	1 U	5 U
Calcium	---	ug/L	93,200	55,000	51,000	49,000	169,000	170,000	160,000	160,000
Chromium	50	ug/L	3.3 B	30	41	27	2.5 B	42	11	11
Cobalt	---	ug/L	8.6 B	19	15	9.5 J	13.8 B	26	9.3 J	6.7 J
Copper	200	ug/L	1.2 U	23	29	27	3 B	84	2.9 J	5 J
Iron	300	ug/L	**13,900**	**43,000**	**39,000**	**33,000**	**751**	**4,700**	**1,300**	**1,300**
Lead	25	ug/L	1.9 U	3.5 J	5 U	10 U	3.5	4 J	5 U	10 U
Magnesium	35000 GV	ug/L	31,000	21,000	18,000	16,000	**43,000**	**44,000**	**39,000**	**40,000**
Manganese	300	ug/L	**3,090**	**1,900**	**2,200**	**3,100**	**2,190**	**2,200**	**1,900**	**1,900**
Mercury	0.7	ug/L	0.16 U	0.2 U	0.033 J	0.2 U	0.16 U	0.2 U	0.2 U	0.2 U
Nickel	100	ug/L	15.6 B	20 J	24 J	18 J	11.5 B	36 J	15 J	15 J
Potassium	---	ug/L	52,500	31,000	23,000	17,000	7,630	5,700	5,600	4,400 J
Selenium	10	ug/L	3.9 UN	5 U	5 U	10 U	3.9 UN	5 U	5 U	10 U
Silver	50	ug/L	2.2 BN	10 U	10 U	10 U	4.3 BN	10 U	10 U	10 U
Sodium	20000	ug/L	**124,000**	**73,000**	**55,000**	**50,000**	**42,200**	**46,000**	**48,000**	**42,000**
Thallium	0.5 GV	ug/L	**4.6 BN**	**12**	10 U	20 U	**4.6 BN**	**9.4 J**	10 U	20 U
Vanadium	---	ug/L	2 UN	24 J	26 J	20 J	2 UN	4.1 J	50 U	50 U
Zinc	2000 GV	ug/L	5.4 B	55	35	32	8.6 B	31	10 U	20 U
VOCs by EPA Method 8260B:										
1,1-Dichloroethane	5	ug/L	1 U	0.5 U	0.5 U	0.5 U	1 U	0.24	0.14 J	0.11 J
Vinyl Chloride	2	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzene	1	ug/L	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	5	ug/L	1.6	0.67	0.52	0.29 J	1 U	0.5 U	0.13 J	0.5 U

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TOWN OF RAMAPO LANDFILL
POST-CLOSURE GROUNDWATER QUALITY MONITORING RESULTS
ANALYTICAL RESULTS

	ARARs [1]	UNITS	WELL 9-OS				WELL 9-I			
			Jun-05	Sep-06	Oct-07	Mar-09	Jun-05	Sep-06	Oct-07	Mar-09
Leachate Indicator Parameters:										
Alkalinity	---	mg/L	15.5	20	14	12	10.8	18	18	18
Chemical Oxygen Demand	---	mg/L	47.2	54	120	120	10 U	54	10 U	37
Total Hardness	---	mg/L	25.8	60	32	40	31.3	76	32	44
Total Kjeldhal Nitrogen	---	mg/L	1.05	0.4 U	3.2	5.4	1 U	0.4 U	0.2 U	0.099 J
TAL Metals:										
Aluminum	---	ug/L	291	1,000	4,000	3900	173 B	12,000	21,000	13,000
Antimony	3	ug/L	0.15 B	3 U	2 J	60 U	0.12 U	3 U	3 U	60 U
Arsenic	25	ug/L	3.1 UN	5 U	4.2 J	10 U	3.1 UN	4.5 J	4.4 J	10 U
Barium	1000	ug/L	11.7 BN	17 J	33 J	37 J	9.2 BN	110	180	120
Beryllium	3	ug/L	0.4 U	0.14 J	0.34 J	0.25 J	0.4 U	0.77 J	1.2 J	0.71 J
Cadmium	5	ug/L	0.8 UN	0.67 J	1 U	5 U	0.8 UN	0.73 J	1 U	5 U
Calcium	---	ug/L	7,100	7,600	8,100	9700	8,840	8,100	12,000	12,000
Chromium	50	ug/L	2.4 B	**55**	**330**	**300**	1.4 B	36	**150**	38
Cobalt	---	ug/L	1.9 U	2.2 J	10 U	50 U	1.9 U	14	27	11 J
Copper	200	ug/L	1.2 U	3.6 J	14	16	1.2 U	27	44	27
Iron	300	ug/L	**453**	**1,600**	**6,300**	**7800**	**318**	**24,000**	**41,000**	**23,000**
Lead	25	ug/L	1.9 U	1 J	6.1	10 U	1.9 U	3.5 J	4.8 J	10 U
Magnesium	35000 GV	ug/L	1,950 B	2,000	2,500	3300	2,230 B	5,100	7,900	5,900
Manganese	300	ug/L	27.7	51	140	150	11.6	290	**560**	290
Mercury	0.7	ug/L	0.16 U	0.2 U	0.049 J	0.2 U	0.16 U	0.2 U	0.078 J	0.2 U
Nickel	100	ug/L	2.3 U	6.7 J	34 J	28 J	2.3 U	18 J	31 J	19 J
Potassium	---	ug/L	3,320 B	5,100	1,700 J	5700	608 B	3,900 J	6,200	3,900 J
Selenium	10	ug/L	3.9 UN	5 U	5 U	10 U	3.9 UN	5 U	5 U	10 U
Silver	50	ug/L	1.1 UN	10 U	10 U	10 U	1.1 UN	10 U	10 U	10 U
Sodium	20000	ug/L	4,160 B	5.3	7,200	8300	5,530	9,400	9,800	15,000
Thallium	0.5 GV	ug/L	2.9 UN	10 U	10 U	20 U	2.9 UN	10 U	10 U	20 U
Vanadium	---	ug/L	2 UN	2.7 J	8.6 J	10 J	2 UN	25 J	43 J	24 J
Zinc	2000 GV	ug/L	9.3 B	36	13	21	5.6 B	65	56	35
VOCs by EPA Method 8260B:										
1,1-Dichloroethane	5	ug/L	1 U	0.5 U	0.5 U	0.50 U	1 U	0.5 U	0.5 U	0.5 U
Vinyl Chloride	2	ug/L	1 U	1 U	1 U	1.00 U	1 U	1 U	1 U	1 U
Benzene	1	ug/L	1 U	0.5 U	0.5 U	0.50 U	1 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	5	ug/L	1 U	0.5 U	0.5 U	0.50 U	1 U	0.5 U	0.5 U	0.5 U

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TABLE 3 (Continued)

TOWN OF RAMAPO LANDFILL
POST-CLOSURE GROUNDWATER QUALITY MONITORING RESULTS
ANALYTICAL RESULTS

	ARARs [1]	UNITS	WELL 9-R Jun-05	Sep-06 [DUP]	Oct-07 [DUP]	Mar-09
Leachate Indicator Parameters:						
Alkalinity	---	mg/L	5 U	110	130	150
Chemical Oxygen Demand	---	mg/L	10 U	10 U	10 U	10 U
Total Hardness	---	mg/L	102	120	120	160
Total Kjeldhal Nitrogen	---	mg/L	6.78	4.9	5.9	5.6
TAL Metals:						
Aluminum	---	ug/L	26.5 B	73	140	100 U
Antimony	3	ug/L	0.12 U	3 U	3 U	60 U
Arsenic	25	ug/L	3.1 UN	5.9	6.1	5.7 J
Barium	1000	ug/L	23.3 BN	21 J	24 J	28 J
Beryllium	3	ug/L	0.4 U	1 U	0.1 J	3 U
Cadmium	5	ug/L	0.8 UN	0.53 J	1 U	5 U
Calcium	---	ug/L	26,700	27,000	31,000	38000
Chromium	50	ug/L	1.9 B	4.1 J	4.3 J	10 U
Cobalt	---	ug/L	2.8 B	3.7 J	10 U	50 U
Copper	200	ug/L	1.2 U	10 U	10 U	10 U
Iron	300	ug/L	**6,430**	**7,000**	**8,500**	**9400**
Lead	25	ug/L	1.9 U	5 U	5 U	10 U
Magnesium	35000 GV	ug/L	8,520	8,300	9,300	11000
Manganese	300	ug/L	**2,730**	**2,800**	**2,900**	**3700**
Mercury	0.7	ug/L	0.16 U	0.2 U	0.2 U	0.2 U
Nickel	100	ug/L	2.3 U	1.8 J	3.2 J	2.5 J
Potassium	---	ug/L	10,100	11,000	11,000	12000
Selenium	10	ug/L	3.9 UN	5 U	5 U	10 U
Silver	50	ug/L	1.4 BN	10 U	10 U	10 U
Sodium	20000	ug/L	**22,500**	**28,000**	**35,000**	**44000**
Thallium	0.5 GV	ug/L	2.9 UN	10 U	10 U	20 U
Vanadium	---	ug/L	2 UN	50 U	50 U	50 U
Zinc	2000 GV	ug/L	3.2 B	28	10 U	8.1 J
VOCs by EPA Method 8260B:						
1,1-Dichloroethane	5	ug/L	1 U	0.5 U	0.5 U	0.5 U
Vinyl Chloride	2	ug/L	1 U	1 U	1 U	1.00 U
Benzene	1	ug/L	1 U	0.5 U	0.5 U	0.50 U
Chlorobenzene	5	ug/L	1 U	0.24	0.5 U	0.22 J

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TABLE 3 (Continued)

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POST-CLOSURE GROUNDWATER QUALITY MONITORING RESULTS
ANALYTICAL RESULTS

	ARARs [1]	UNITS	WELL PW-1 Jun-05	Sep-06	Oct-07	Mar-09	WELL PW-2 Jun-05	Sep-06	Oct-07	Mar-09
Leachate Indicator Parameters:										
Alkalinity	---	mg/L	13.5	24	20	18	37.9	58	50	46
Chemical Oxygen Demand	---	mg/L	10 U	10 U	55	10 U	10 U	10 U	10 U	10 U
Total Hardness	---	mg/L	66.7	48	32	40	56.6	92	64	60
Total Kjeldhal Nitrogen	---	mg/L	1 U	0.49 U	0.2 U	0.2 U	1 U	0.4 U	0.2 U	0.2 U
TAL Metals:										
Aluminum	---	ug/L	10.4 U	76	50 U	100 U	10.4 U	67	50 U	100 U
Antimony	3	ug/L	0.12 U	3 U	3 U	60 U	0.12 U	3 U	3 U	60 U
Arsenic	25	ug/L	3.1 UN	5 U	5 U	100 U	3.1 UN	5 U	5 U	10 U
Barium	1000	ug/L	11.2 BN	7.2 J	5.5 J	5.9 J	7.1 UN	2.6 J	2.4 J	2.6 J
Beryllium	3	ug/L	0.4 U	3 U	3 U	3 U	0.4 U	0.12 J	3 U	3 U
Cadmium	5	ug/L	0.8 UN	0.53 J	1 U	5 U	0.8 UN	0.62 J	1 U	5 U
Calcium	---	ug/L	18,400	10,000	8,200	10,000	18,800	28,000	21,000	25,000
Chromium	50	ug/L	0.9 U	2.7 J	10 U	10 U	0.9 U	2.8 J	10 U	10 U
Cobalt	---	ug/L	1.9 U	2.1 J	10 U	50 U	1.9 U	2.4 J	10 U	50 U
Copper	200	ug/L	83.4	69	60	100	197	50	200	61
Iron	300 [2]	ug/L	18.6 B	15 J	17 J	12 J	115	34 J	130	140
Lead	25	ug/L	1.9 U	5 U	5 U	10 U	1.9 U	2.1 J	5 U	10 U
Magnesium	35000 GV	ug/L	5,070	2,700	2,300	2,800	2,320 B	3,200	2,400	2,900
Manganese	300 [2]	ug/L	2.1 U	0.75 J	50 U	50 U	2.1 U	1.4 J	5.6 J	1.8 J
Mercury	0.7	ug/L	0.16 U	0.2 U	0.047 J	0.2 U	0.16 U	0.2 U	0.2 U	0.2 U
Nickel	100	ug/L	2.3 U	50	50 U	50 U	2.3 U	50 U	7 J	50 U
Potassium	---	ug/L	1,260 B	1,200 J	910 J	880 J	871 B	1,100 J	880 J	960 J
Selenium	10	ug/L	3.9 UN	3 J	5 U	10 U	3.9 UN	5 U	5 U	10 U
Silver	50	ug/L	1.1 UN	10 U	10 U	10 U	1.7 BN	10 U	10 U	10 U
Sodium	20000	ug/L	11,500	14,000	12,000	12,000	5,400	7,400	6,100	7,400
Thallium	0.5 GV	ug/L	2.9 UN	10 U	10 U	20 U	2.9 UN	**8.8** J	10 U	20 U
Vanadium	---	ug/L	2 UN	50 U	50 U	50 U	2 UN	50 U	50 U	50 U
Zinc	2000 GV	ug/L	13.6 B	46	24	22	44.1	41	140	47
VOCs by EPA Method 8260B:										
1,1-Dichloroethane	5	ug/L	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U
Vinyl Chloride	5	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzene	1	ug/L	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	5	ug/L	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U

NOTES:

[1] ARARs Applicable or Relevant and Appropriate Requirements: NYSDEC Water Quality Standards and Guidance Values, T.O.G.S. 1.1.1 (June 1998). Values in **BOLD** indicate an exceedance of applicable water quality standards or guidance values.

All samples were analyzed for NYCRR Part 360 Baseline Parameters and Site Specific Parameters.
Life Science Laboratories, Inc. conducted analyses for the 2006 - 2009 samples. Samples from the 2005 event were analyzed by STL Newburgh.

[DUP] Duplicate sample obtained at this location. The highest value given for the sample or the duplicate is reported.
NA Not Analyzed.
ND Not Detected.

Laboratory Qualifier Definitions:

STL Newburgh
U The compound was analyzed for, but not detected at the detection limit listed.
J Indicates an estimated value for tentatively identified compounds.
B The reported value is less than the Contract Required Detection Limit (CRDL), but greater than the Instrument Detection Limit.
E Indicates an estimated value because of the possible presence of interference.
W Indicates post digestion spike for furnance AA analysis is out of control limits (85-110%), while sample absorbance is less than 50% of spike absorbance.
N Spiked sample recovery not within control limits

Life Science Laboratories, Inc.
J Analyte detected below Practical Quantitation Limit (PQL)
U The compound was analyzed for, but not detected at the detection limit listed.
E Value exceeds the instrument calibration range.

TABLE 3 (Continued)

TOWN OF RAMAPO LANDFILL
POST-CLOSURE GROUNDWATER QUALITY MONITORING RESULTS
ANALYTICAL RESULTS

	ARARs [1]	UNITS	SVWC-93 Jun-05	SVWC-93 Sep-06	SVWC-93 Oct-07	SVWC-93 Mar-09	SVWC-94 Jun-05	SVWC-94 Sep-06	SVWC-94 Oct-07	SVWC-94 Mar-09 [3]
Leachate Indicator Parameters:										
Alkalinity	---	mg/L	39.1	46	58	40	41.9	44	52	
Chemical Oxygen Demand	---	mg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Total Hardness	---	mg/L	84.1	76	88	76	88.2	72	92	
Total Kjeldhal Nitrogen	---	mg/L	1 U	0.4 U	0.2 U	0.2 U	1 U	0.4 U	0.2 U	N
TAL Metals:										
Aluminum	---	ug/L	10.4 U	63	50 U	100 U	10.4 U	56	50 U	O
Antimony	3	ug/L	0.14 B	3 U	3 U	60 U	0.12 U	3 U	3 U	
Arsenic	25	ug/L	4.2 BN	1.2 J	5 U	10 U	3.1 UN	5 U	5 U	T
Barium	1000	ug/L	9.7 BN	9.6 J	11 J	8.8 J	13.6 BN	13 J	14 J	
Beryllium	3	ug/L	0.4 U	0.14 J	3 U	3 U	0.4 U	3 U	3 U	
Cadmium	5	ug/L	0.8 UN	0.59 J	1 U	5 U	0.8 UN	1 U	1 U	
Calcium	---	ug/L	23,500	21,000	25,000	23,000	24,600	21,000	23,000	S
Chromium	50	ug/L	0.9 U	3.2 J	10 U	10 U	0.93 B	2 J	10 U	
Cobalt	---	ug/L	1.9 U	2.2 J	10 U	50 U	1.9 U	10 U	10 U	A
Copper	200	ug/L	3.9 B	7.6 J	8 J	3.9 J	5.4 B	7 J	12	
Iron	300 [2]	ug/L	14.4 B	21 J	46 J	29 J	7.7 U	50 U	12 J	M
Lead	25	ug/L	2 B	5 U	5 U	10 U	1.9 U	5 U	5 U	
Magnesium	35000 GV	ug/L	6,170	5,200	6,100	5,900	6,520	5,300	5,900	P
Manganese	300 [2]	ug/L	2.1 U	0.62 J	50 U	50 U	6.5 B	3.2 J	3.8 J	
Mercury	0.7	ug/L	0.16 U	0.2 U	0.027 J	0.2 U	0.16 U	0.2 U	0.2 U	L
Nickel	100	ug/L	2.3 U	50 U	5.5 J	50 U	2.3 U	50 U	50 U	
Potassium	---	ug/L	2,240 B	2,000 J	2,000 J	1,500 J	1,950 B	1,700 J	1,600 J	E
Selenium	10	ug/L	6.8 N	5 U	5 U	10 U	3.9 UN	5 U	5 U	
Silver	50	ug/L	1.5 BN	10 U	10 U	10 U	1.1 UN	10 U	10 U	D
Sodium	20000	ug/L	**44,100**	**52,000**	**60,000**	**52,000**	**42,300**	**47,000**	**52,000**	
Thallium	0.5 GV	ug/L	2.9 UN	**7.6** J	10 U	20 U	2.9 UN	10 U	10 U	
Vanadium	---	ug/L	2 UN	50 U	50 U	50 U	2 UN	50 U	50 U	
Zinc	2000 GV	ug/L	5.1 B	36	13	12 J	3.8 B	36	10	
VOCs by EPA Method 8260B:										
1,1-Dichloroethane	5	ug/L	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	
Vinyl Chloride	5	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
Benzene	1	ug/L	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	
Chlorobenzene	5	ug/L	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	

NOTES:

[1] ARARs Applicable or Relevant and Appropriate Requirements: NYSDEC Water Quality Standards and Guidance Values, T.O.G.S. 1.1.1 (June 1998).

[3] SVWC-94 Out of Service During March 2009 Sampling Event

Values in **BOLD** indicate an exceedance of applicable water quality standards or guidance values.

All samples were analyzed for NYCRR Part 360 Baseline Parameters and Site Specific Parameters.

Life Science Laboratories, Inc. conducted analyses for the 2006 - 2009 samples. Samples from the 2005 event were analyzed by STL Newburgh.

[DUP] Duplicate sample obtained at this location. The highest value given for the sample or the duplicate is reported.

NA Not Analyzed.

ND Not Detected.

Laboratory Qualifier Definitions:

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E Indicates an estimated value because of the possible presence of interference.

W Indicates post digestion spike for furnance AA analysis is out of control limits (85-110%), while sample absorbance is less than 50% of spike absorbance.

N Spiked sample recovery not within control limits

Life Science Laboratories, Inc.

J Analyte detected below Practical Quantitation Limit (PQL)

U The compound was analyzed for, but not detected at the detection limit listed.

E Value exceeds the instrument calibration range.

TABLE 3 (Continued)

TOWN OF RAMAPO LANDFILL
POST-CLOSURE GROUNDWATER QUALITY MONITORING RESULTS
ANALYTICAL RESULTS

	ARARs [1]	UNITS	SVWC-95 Jun-05	SVWC-95 Sep-06	SVWC-95 Oct-07	SVWC-95 Mar-09	SVWC-96 Jun-05	SVWC-96 Sep-06	SVWC-96 Oct-07	SVWC-96 Mar-09
Leachate Indicator Parameters:										
Alkalinity	---	mg/L	53.5	54	62	40	47.6	44	50	40
Chemical Oxygen Demand	---	mg/L	10 U	0.1 U	10 U	10 U	10 U	0.1 U	10 U	10 U
Total Hardness	---	mg/L	80.6	84	100	88	83.2	76	80	88
Total Kjeldhal Nitrogen	---	mg/L	1 U	0.4 U	0.2 U	0.2 U	1 U	0.4 U	0.2 U	0.1 J
TAL Metals:										
Aluminum	---	ug/L	10.4 U	37	50 U	100 U	10.4 U	14 J	50 U	100 U
Antimony	3	ug/L	0.12 U	3 U	3 U	60 U	0.12 U	3 U	3 U	60 U
Arsenic	25	ug/L	3.1 UN	2 J	5 U	10 U	3.1 UN	1.3 J	5 U	10 U
Barium	1000	ug/L	13.7 BN	10 J	16 J	13 J	10 BN	7.2 J	9.4 J	8.6 J
Beryllium	3	ug/L	0.4 U	3 U	3 U	3 U	0.4 U	3 U	3 U	3 U
Cadmium	5	ug/L	0.8 UN	1 U	1 U	5 U	0.8 UN	1 U	1 U	5 U
Calcium	---	ug/L	22,300	20,000	25,000	24,000	22,400	18,000	22,000	23,000
Chromium	50	ug/L	0.9 U	10 U	10 U	10 U	0.94 B	10 U	10 U	10 U
Cobalt	---	ug/L	1.9 U	10 U	10 U	50 U	1.9 U	10 U	10 U	50 U
Copper	200	ug/L	3 B	6.1 J	4.4 J	5.4 J	3.9 B	6.8 J	4.3 J	6.3 J
Iron	300 [2]	ug/L	17.2 B	260	76	33 J	7.7 U	50 U	50 U	16 J
Lead	25	ug/L	1.9 U	5 U	5 U	10 U	1.9 U	5 U	5 U	10 U
Magnesium	35000 GV	ug/L	6,030	5,100	6,500	6,700	6,250	4,900	5,800	6,300
Manganese	300 [2]	ug/L	86	25 J	96	140	2.1 U	50 U	50 U	50 U
Mercury	0.7	ug/L	0.16 U	0.2 U	0.057 J	0.2 U	0.16 U	0.2 U	0.036 J	0.2 U
Nickel	100	ug/L	2.3 U	1.4 J	1.2 J	50 U	2.3 U	50 U	50 U	50 U
Potassium	---	ug/L	2,320 B	1,700 J	2,200 J	1,600 J	2,120 B	1,300 J	1,600 J	1,300 J
Selenium	10	ug/L	3.9 UN	5 U	5 U	10 U	3.9 UN	5 U	5 U	10 U
Silver	50	ug/L	1.1 UN	1.5 J	10 U	10 U	1.1 UN	10 U	10 U	10 U
Sodium	20000	ug/L	**41,700**	**36,000**	**53,000**	**49,000**	**47,400**	**47,000**	**56,000**	**54,000**
Thallium	0.5 GV	ug/L	2.9 UN	10 U	10 U	10 U	2.9 UN	10 U	10 U	20 U
Vanadium	---	ug/L	2 UN	50 U	50 U	2 U	2 UN	50 U	50 U	50 U
Zinc	2000 GV	ug/L	9.3 B	25	8.2 J	11 J	6 B	24	8.8 J	14 J
VOCs by EPA Method 8260B:										
1,1-Dichloroethane	5	ug/L	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U
Vinyl Chloride	5	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzene	1	ug/L	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	5	ug/L	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U

NOTES:

[1] ARARs Applicable or Relevant and Appropriate Requirements: NYSDEC Water Quality Standards and Guidance Values, T.O.G.S. 1.1.1 (June 1998). Values in **BOLD** indicate an exceedance of applicable water quality standards or guidance values.

All samples were analyzed for NYCRR Part 360 Baseline Parameters and Site Specific Parameters.
Life Science Laboratories, Inc. conducted analyses for the 2006 - 2009 samples. Samples from the 2005 event were analyzed by STL Newburgh.

[DUP] Duplicate sample obtained at this location. The highest value given for the sample or the duplicate is reported.
NA Not Analyzed.
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W Indicates post digestion spike for furnance AA analysis is out of control limits (85-110%), while sample absorbance is less than 50% of spike absorbance.
N Spiked sample recovery not within control limits

Life Science Laboratories, Inc.

J Analyte detected below Practical Quantitation Limit (PQL)
U The compound was analyzed for, but not detected at the detection limit listed.
E Value exceeds the instrument calibration range.

TABLE 3A

TOWN OF RAMAPO LANDFILL
POST-CLOSURE GROUNDWATER MONITORING DATA
COMPOUND: Benzene

Sample ID	Sample Date															
	Jan-90	Sep-90	Jan-93	Apr-93	Sep-93	Dec-93	Mar-94	Jun-94	Sep-94	Dec-94	Mar-95	Jun-95	Sep-95	Dec-95	Mar-96	Jun-96
1-OS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	NA
2-OS	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	NA
3-OS/I	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	NA
4-OS	ND	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	NA
5-OS	**2.0**	ND	ND	ND	NA	NA	NA	ND	NA	NA	NA	ND	NA	NA	ND	NA
5-I	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	NA	NA	ND	NA	NA
7-OS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	NA
8-OS	**2.0**	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
8-I	**2.0**	**2.9**	NA	ND	ND	ND	ND	ND	ND	**2.0**	ND	ND	ND	**1.2**	1.0	**2.0**
8-R	**3.0**	0.4	ND	0.9	ND	ND	ND	ND	ND	ND	**2.0**	0.9	ND	0.65	ND	ND
9-OS	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
9-I	NA	0.2	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9-R	NA	0.9	ND	ND	ND	NA	ND	ND	ND	1.0	ND	ND	ND	ND	ND	ND
PW-1	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PW-2	NA	NA	ND	ND	ND	NA	NA	NA	ND	ND	NA	0.5	ND	ND	ND	ND
SVWC-93	NA	NA	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SVWC-94	NA	NA	ND	ND	NA	NA	ND	ND	ND	1.0	ND	ND	ND	ND	ND	ND
SVWC-95	NA	NA	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SVWC-96	NA	NA	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

NOTES:

Concentrations reported in µg/L (ppb).

ND = Not Detected

NA = Not Analyzed

Values in **BOLD** indicate an exceedance of groundwater quality standard for Benzene, 1.0 µg/L.

TABLE 3A (Continued)

TOWN OF RAMAPO LANDFILL
POST-CLOSURE GROUNDWATER MONITORING DATA
COMPOUND: Benzene

Sample ID	Sample Date															
	Sep-96	Dec-96	Mar-97	Jun-97	Sep-97	Dec-97	Mar-98	Jun-98	Sep-98	Mar-99	Jun-99	Sep-99	May-00	Sep-00	Dec-00	Mar-01
1-OS	ND	NA	ND	NA	ND	NA	ND	NA	ND	ND	NA	ND	ND	NA	ND	ND
2-OS	NA	NA	ND	NA	ND	NA	ND	NA	ND	ND	NA	ND	ND	NA	ND	ND
3-OS/I	ND	NA	ND	NA	ND	NA	ND	NA	ND	ND	NA	ND	ND	NA	ND	ND
4-OS	ND	NA	ND	NA	ND	NA	ND	NA	ND	ND	NA	ND	ND	NA	ND	ND
5-OS	NA	NA	ND	NA	NA	NA	NA	NA	NA	ND	NA	ND	ND	NA	ND	ND
5-I	ND	NA	NA	NA	ND	NA	ND	NA	ND	NA	NA	ND	NA	NA	NA	NA
7-OS	ND	NA	ND	NA	ND	NA	ND	NA	ND	ND	NA	ND	ND	NA	ND	ND
8-OS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
8-I	**2.0**	**3.0**	ND	ND	**2.0**	ND	ND	ND	ND	NA	ND	ND	0.5 J	ND	ND	ND
8-R	ND	ND	ND	ND	ND	**2.0**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9-OS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9-I	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9-R	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PW-1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PW-2	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SVWC-93	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND
SVWC-94	ND	ND	ND	ND	ND	NA	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND
SVWC-95	ND	ND	ND	ND	ND	NA	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND
SVWC-96	ND	NA	NA	ND	ND	ND	ND	NA	ND	NA	ND	NA	ND	ND	ND	ND

NOTES:

Concentrations reported in µg/L (ppb).

ND = Not Detected

NA = Not Analyzed

Values in **BOLD** indicate an exceedance of groundwater quality standard for Benzene, 1.0 µg/L.

TABLE 3A

TOWN OF RAMAPO LANDFILL
POST-CLOSURE GROUNDWATER QUALITY MONITORING
COMPOUND: BENZENE

Sample ID	Sample Date											
	Oct-03		Mar-04		Jun-05		Sep-06		Oct-07		Mar-09	
1-OS/I	NA		NA		1.0	U	0.5	U	0.5	U	0.5	U
2-OS	1.0	U	1.0	U	1.0	U	0.5	U	0.5	U	0.5	U
3-OS/I	1.0	U	1.0	U	1.0	U	0.5	U	0.5	U	0.5	U
4-OS	1.0	U	1.0	U	1.0	U	0.5	U	0.5	U	0.5	U
5-OS	NA		1.0	U	NA		0.5	U	0.5	U	0.5	U
5-I	1.0	U	NA		1.0	U	NA		NA		NA	
7-OS	1.0	U	1.0	U	1.0	U	0.5	U	0.5	U	0.5	U
8-OS	1.0	U	1.0	U	1.0	U	0.5	U	0.5	U	0.5	U
8-I	1.0	U	0.6 J		1.0	U	0.5	U	0.5	U	0.5	U
8-R	1.0	U	1.0	U	1.0	U	0.5	U	0.5	U	0.5	U
9-OS	1.0	U	1.0	U	1.0	U	0.5	U	0.5	U	0.5	U
9-I	1.0	U	1.0	U	1.0	U	0.5	U	0.5	U	0.5	U
9-R	1.0	U	1.0	U	1.0	U	0.5	U	0.5	U	0.5	U
PW-1	1.0	U	1.0	U	1.0	U	0.5	U	0.5	U	0.5	U
PW-2	1.0	U	1.0	U	1.0	U	0.5	U	0.5	U	0.5	U
SVWC-93	1.0	U	1.0	U	1.0	U	0.5	U	0.5	U	0.5	U
SVWC-94	1.0	U	1.0	U	1.0	U	0.5	U	0.5	U	NA	
SVWC-95	1.0	U	1.0	U	1.0	U	0.5	U	0.5	U	0.5	U
SVWC-96	1.0	U	1.0	U	1.0	U	0.5	U	0.5	U	0.5	U

NOTES:

Concentrations reported in ug/L (ppb).
NA = Not Analyzed
Values in **BOLD** indicate an exceedance of groundwater quality standard for Benzene, 1.0 mg/L.

Life Science Laboratories, Inc. conducted analyses for the 2006 - 2009 events. STL Newburgh conducted analyses for the 2003 - 2005 events.

Life Science Laboratories
U = Analyte not detected at listed detection limit.

STL Newburgh
J = Indicates an estimated value for Tentatively Identified Compounds

TABLE 3B

TOWN OF RAMAPO LANDFILL
POST-CLOSURE GROUNDWATER MONITORING DATA
COMPOUND: Chromium

Sample ID	Sample Date															
	Jan-90	Sep-90	Jan-93	Apr-93	Sep-93	Dec-93	Mar-94	Jun-94	Sep-94	Dec-94	Mar-95	Jun-95	Sep-95	Dec-95	Mar-96	Jun-96
1-OS	**153**	**57.3**	8	ND	**60**	**257**	**65.5**	7.2	**284**	**134**	**727**	17	**102**	**70.5**	**127**	NA
2-OS	**180**	**141**	NA	ND	**50.2**	**95.9**	11.8	**89.3**	45.9	25.1	39.7	34.1	**137**	**50.3**	**83.6**	NA
3-OS/I	**587**	**1,290**	**807**	40.4	**1,350**	**1,100**	**784**	**304**	**561**	**1,020**	**144**	**406**	**589**	**253**	**372**	NA
4-OS	**139**	40.1	5.8	ND	10.8	11.2	15.1	25.4	23.1	**53.1**	21.1	ND	38.8	12.2	11	NA
5-OS	**90**	35.6	48.8	ND	NA	NA	NA	NA	NA	NA	NA	39	NA	NA	**216**	NA
5-I	NA	NA	NA	NA	NA	**80**	30.2	7.2	40	**63.1**	**109**	NA	17.4	22.4	NA	NA
7-OS	33.5	40.1	24.2	13	**1,890**	**218**	31	**210**	**571**	**258**	**324**	NA	NA	37	**125**	NA
8-OS	34.8	16.7	ND	ND	ND	7.6	**86.6**	28.7	13.2	4.2	**129**	40.4	13.9	7.2	**62.2**	35.8
8-I	**215**	32.5	NA	ND	ND	ND	29	17	12.8	8.4	8	3.4	24.1	29.2	12.3	26.2
8-R	20	23.1	9.9	ND	17.7	18.2	7.5	17	10.4	6.8	6.3	10.1	13.4	8.5	6.7	23.8
9-OS	NA	6.8	ND	ND	ND	ND	22.9	27.1	14.8	2.9	6.6	7.6	NA	NA	9.8	11.2
9-I	NA	8.1	NA	NA	NA	NA	28	ND	2.4	5.8	3.9	8	34.6	25.3	8.1	11.4
9-R	NA	8.8	3.9	16.4	16.7	11.6	35.4	48.2	29.9	10.5	16.9	26.5	**66.7**	45.4	43.8	12.8
PW-1	NA	ND	ND	ND	ND	ND	ND	ND	0.6	ND	0.8	ND	ND	ND	ND	ND
PW-2	NA	ND	ND	ND	ND	4.9	NA	ND	ND	ND	NA	ND	ND	ND	ND	0.94
SVWC-93	NA	NA	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
SVWC-94	NA	NA	ND	ND	NA	NA	ND	ND	ND	0.97	ND	ND	NA	ND	ND	ND
SVWC-95	NA	NA	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
SVWC-96	NA	NA	ND	ND	NA	ND	ND	ND	ND	0.87	ND	1.7	NA	ND	ND	ND

NOTES:

Concentrations reported in µg/L (ppb).

ND = Not Detected

NA = Not Analyzed

Values in **BOLD** indicate an exceedance of groundwater quality standard for Chromium, 50 µg/L.

TABLE 3B (Continued)

TOWN OF RAMAPO LANDFILL
POST-CLOSURE GROUNDWATER MONITORING DATA
COMPOUND: Chromium

Sample ID	Sample Date															
	Sep-96	Dec-96	Mar-97	Jun-97	Sep-97	Dec-97	Mar-98	Jun-98	Sep-98	Mar-99	Jun-99	Sep-99	May-00	Sep-00	Dec-00	Mar-01
1-OS	**102**	NA	**88**	NA	**220**	NA	**1,180**	NA	**52.1**	**496**	NA	**1,850**	**2,100**	NA	**405**	**253**
2-OS	NA	NA	ND	NA	ND	NA	**241**	NA	**121**	13.6	NA	**285**	**415**	NA	**120**	**128**
3-OS/I	29.7	NA	25	NA	**190**	NA	**433**	NA	**804**	**270**	NA	**321**	**687**	NA	453	**522**
4-OS	6.2	NA	ND	NA	ND	NA	34.7	NA	8.6	2.2	NA	**87.7**	36.8	NA	17.9	13.2
5-OS	NA	NA	19	NA	NA	NA	NA	NA	NA	15.3	NA	NA	**69.3**	NA	**165**	38.6
5-I	8	NA	NA	NA	ND	NA	2.3	NA	9.6	NA	NA	10.6	NA	NA	NA	NA
7-OS	4.4	NA	41	NA	**60**	NA	**188**	NA	**96.2**	48.1	NA	**59.2**	**200**	NA	34.7	**51.9**
8-OS	15.9	20	ND	ND	ND	ND	4	9.6	4.5	**79.4**	20.2	31	30.1	16.9	8.8	25.8
8-I	17.4	**110**	17	10	ND	20	4.6	4.8	**55.6**	NA	**56.8**	ND	10	17.3	22.9	49.9
8-R	20.4	ND	ND	20	20	ND	ND	5.2	6.3	3.4	2	ND	1.1	2.2	3.6	7.7
9-OS	5.2	ND	ND	10	ND	ND	ND	2.3	0.64	9.8	1.1	ND	34.5	7.4	20.1	17
9-I	4.8	ND	ND	ND	ND	ND	1.7	8	2.8	1.7	6.8	ND	10.8	5.0	4.1	28.8
9-R	23.8	**90**	ND	20	ND	ND	15.2	1.9	23.4	8.5	15	47.3	3	1.6	2.4	4.1
PW-1	0.43	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.75	ND	ND	ND
PW-2	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.69	ND	ND	ND	ND	ND	ND
SVWC-93	0.89	ND	ND	ND	ND	ND	ND	ND	0.78	NA	ND	NA	ND	ND	1.4	ND
SVWC-94	ND	ND	ND	ND	ND	NA	ND	ND	ND	NA	ND	NA	0.53	ND	ND	ND
SVWC-95	ND	ND	ND	ND	ND	NA	ND	ND	0.96	NA	ND	NA	ND	ND	ND	ND
SVWC-96	1.3	NA	NA	ND	ND	ND	ND	NA	ND	NA	ND	NA	ND	ND	ND	ND

NOTES:

Concentrations reported in µg/L (ppb).

ND = Not Detected
NA = Not Analyzed

Values in **BOLD** indicate an exceedance of groundwater quality standard for Chromium, 50 µg/L.

TABLE 3B

TOWN OF RAMAPO LANDFILL
POST-CLOSURE GROUNDWATER QUALITY MONITORING
COMPOUND: CHROMIUM

Sample ID	Sample Date											
	Oct-03		Mar-04		Jun-05		Sep-06		Oct-07		Mar-09	
1-OS/I	NA		NA		31.4		**2,400**		**530**		**140**	
2-OS	**52.9**		**87.1**		**101**		**120**		**250**		**480**	
3-OS/I	**2,810**		**816**		**2,020**		**7,200**		**3,400**		**3,900**	
4-OS	5		9.4	B	**56.7**		**1,300**		**270**		**230**	
5-OS	NA		**237**		NA		**690**		32		**170**	
5-I	29.8		NA		5.6	B	NA		NA		NA	
7-OS	2.4		**133**		5.7	B	**87**		**96**		**61**	
8-OS	2.2		10.3		29.6		**140**		**85**		**680**	
8-I	1.4		19.4		3.3	B	30		41		27	
8-R	10	U	2	B	2.5	B	42		11		11	
9-OS	5		10.4		2.4	B	**55**		**330**		**300**	
9-I	2		2.8	B	1.4	B	36		**150**		38	
9-R	1.1		2.6	B	1.9	B	4.1	J	4.3	J	10	U
PW-1	0.73		1.3	B	10	U	2.7	J	10	U	10	U
PW-2	1.9		1.5	B	10	U	2.8	J	10	U	10	U
SVWC-93	1.3		1.4	B	10	U	3.2	J	10	U	10	U
SVWC-94	0.75		1.9	B	0.93	B	2	J	10	U	NA	
SVWC-95	10	U	1.5	B	10	U	10	U	10	U	10	U
SVWC-96	10	U	1.2	B	0.94	B	10	U	10	U	10	U

NOTES:

Concentrations reported in ug/L (ppb).
NA = Not Analyzed
Values in **BOLD** indicate an exceedance of groundwater quality standard for Chromium, 50 mg/L.

Life Science Laboratories, Inc. conducted analyses for the 2006 - 2009 events. STL Newburgh conducted analyses for the 2003-2005 events.

Life Science Laboratories
J = Analyte detected below the Practical Quantitation Limit (PQL)
U = Analyte not detected at listed detection limit.

STL Newburgh
B = The reported value is less than the Contract Required Detection Limit (CRDL), but greater than the Instrument Detection Limit.

TABLE 3C

TOWN OF RAMAPO LANDFILL
POST-CLOSURE GROUNDWATER MONITORING DATA
COMPOUND: Iron

Sample ID	Sample Date															
	Jan-90	Sep-90	Jan-93	Apr-93	Sep-93	Dec-93	Mar-94	Jun-94	Sep-94	Dec-94	Mar-95	Jun-95	Sep-95	Dec-95	Mar-96	Jun-96
1-OS	**45,000**	**17,500**	**1,870**	**884**	**32,300**	**162,000**	**12,200**	69.6	**4,950**	**47,700**	**5,970**	**2,820**	**27,900**	**23,400**	**21,700**	NA
2-OS	**912**	**41,800**	NA	186	**11,800**	**9,800**	**946**	**5,080**	**14,700**	**4,120**	**1,310**	**1,730**	**24,300**	**5,660**	**1,770**	NA
3-OS/I	**6,830**	**9,750**	**5,110**	**333**	**21,300**	**37,900**	**19,400**	**29,900**	**14,400**	**37,500**	**54,600**	**16,600**	**31,400**	**3,710**	**7,750**	NA
4-OS	**15,600**	**12,400**	**529**	**520**	**5,560**	**10,600**	**5,720**	**17,600**	**16,900**	**15,200**	**6,110**	**3,010**	**28,600**	**7,460**	**7,470**	NA
5-OS	**27,000**	**11,200**	**11,100**	**4,700**	NA	NA	NA	NA	NA	NA	NA	**17,100**	NA	NA	**60,000**	NA
5-I	NA	NA	NA	NA	NA	**2,030**	**2,080**	**2,380**	**8,990**	**30,700**	**56,200**	NA	**2,200**	**1,870**	NA	NA
7-OS	**981**	**24,500**	**1,250**	**521**	**619,000**	**2,200**	**2,340**	**15,600**	**14,500**	**14,400**	**12,200**	NA	NA	**1,870**	**11,400**	NA
8-OS	**229,000**	**43,800**	**3,230**	**2,080**	**6,180**	**12,000**	**20,300**	**6,240**	**7,490**	**6,740**	**13,500**	**5,760**	**46,900**	0.116	**4,870**	**4,370**
8-I	**15,700**	**30,500**	NA	ND	ND	ND	**22,300**	**41,200**	**24,200**	**18,200**	**24,300**	**21,100**	**32,300**	**28,500**	**27,300**	**38,700**
8-R	**1,360**	**2,940**	**11,600**	**2,590**	**9,160**	**4,710**	**2,510**	**11,100**	**22,000**	**10,200**	**24,900**	**25,700**	**26,600**	**124,000**	**18,400**	**14,300**
9-OS	NA	249	50.7	**1,200**	**383**	**393**	**2,210**	**1,040**	**1,020**	**1,490**	**1,340**	294	NA	NA	**2,330**	**1,350**
9-I	NA	145	NA	NA	NA	NA	**2,040**	62.3	84	260	**788**	**468**	**4,530**	**762**	232	**443**
9-R	NA	**20,200**	**2,680**	**8,250**	**11,500**	**10,800**	**8,850**	**19,400**	**9,110**	**2,700**	**1,080**	**2,230**	**4,080**	**1,370**	**2,060**	**2,270**
PW-1	NA	64	186	130	**1,260**	**916**	85.3	11.2	**561**	39.7	283	**400**	238	252	53.9	38.1
PW-2	NA	11	41.8	49.5	ND	22.7	NA	ND	53.5	13.6	NA	253	276	225	ND	ND
SVWC-93	NA	NA	32.6	10.6	NA	**553**	179	ND	17.2	20.7	19	154	NA	**585**	ND	ND
SVWC-94	NA	NA	40.3	19.1	NA	NA	49.4	ND	6.1	13.8	ND	143	NA	124	ND	ND
SVWC-95	NA	NA	51.7	74.4	ND	NA	45.5	ND	274	40.3	279	161	NA	148	ND	ND
SVWC-96	NA	NA	22.3	17.3	NA	22.6	14.9	ND	61.5	66.8	ND	173	NA	136	ND	ND

NOTES:

Concentrations reported in µg/L (ppb).
ND = Not Detected
NA = Not Analyzed

Values in **BOLD** indicate an exceedance of groundwater quality standard for Iron, 300 µg/L.

TABLE 3C (Continued)

TOWN OF RAMAPO LANDFILL
POST-CLOSURE GROUNDWATER MONITORING DATA
COMPOUND: Iron

Sample ID	Sample Date															
	Sep-96	Dec-96	Mar-97	Jun-97	Sep-97	Dec-97	Mar-98	Jun-98	Sep-98	Mar-99	Jun-99	Sep-99	May-00	Sep-00	Dec-00	Mar-01
1-OS	**48,000**	NA	**19,000**	NA	**49,000**	NA	**62,100**	NA	**3,150**	**74,400**	NA	**76,200**	**40,500**	NA	**43,800**	**54,100**
2-OS	NA	NA	140	NA	**900**	NA	**15,100**	NA	**24,900**	**536**	NA	**6,910**	**32,900**	NA	**32,800**	**37,700**
3-OS/I	**303**	NA	**1,500**	NA	**5,400**	NA	**29,800**	NA	**23,600**	**1,620**	NA	**1,990**	**3,310**	NA	**3,620**	**5,810**
4-OS	**1,300**	NA	**2,700**	NA	**600**	NA	**8,490**	NA	**6,840**	**1,100**	NA	**50,200**	**16,300**	NA	**11,300**	**7,690**
5-OS	NA	NA	**8,100**	NA	NA	NA	NA	NA	NA	**8,180**	NA	NA	**41,500**	NA	**101,000**	**22,800**
5-I	**2,170**	NA	NA	NA	**600**	NA	**3,150**	NA	**851**	NA	NA	**700**	NA	NA	NA	NA
7-OS	**305**	NA	**9,700**	NA	**9,700**	NA	**36,300**	NA	**21,900**	**1,950**	NA	**11,300**	**4,300**	NA	**12,400**	**4,170**
8-OS	**997**	**2,100**	ND	**1,500**	**1,800**	**2,800**	**795**	**1,820**	153	**1,000**	**473**	**747**	**1,200**	**8,900**	**4,450**	**6,020**
8-I	**26,400**	**80,000**	**18,000**	**26,000**	**14,000**	**15,000**	**15,700**	**6,000**	**37,200**	NA	**19,100**	**4,270**	**9,870**	**22,900**	**26,400**	**47,600**
8-R	**11,700**	**2,700**	**1,400**	**5,400**	**9,200**	**12,000**	**4,880**	**4,150**	**1,940**	**2,440**	**1,140**	**5,260**	**1,180**	**2,230**	**2,580**	**2,500**
9-OS	**1,030**	**460**	**1,400**	**6,500**	200	**300**	0.105	**392**	126	**912**	**515**	198	**1,880**	**2,230**	**2,640**	**3,660**
9-I	80.5	100	ND	ND	ND	ND	113	**400**	91.3	86.4	**949**	ND	**2,820**	**3,920**	**2,570**	**24,000**
9-R	**1,640**	**3,200**	**13,000**	**4,700**	**7,800**	**4,600**	**5,040**	**3,660**	**3,900**	**670**	**4,360**	**3,110**	**1,340**	**9,110**	**8,280**	**8,080**
PW-1	40.2	**30,000**	ND	ND	ND	ND	ND	94.4	38.8	42.2	163	ND	18	ND	4.5	15.3
PW-2	ND	ND	ND	ND	ND	ND	27.7	36.9	22.2	35.3	114	ND	59.4	36.8	62	10.8
SVWC-93	ND	ND	ND	ND	ND	ND	26.4	253	50.2	NA	169	NA	8.8	4.2	36.5	62.4
SVWC-94	ND	ND	ND	ND	ND	NA	ND	90.9	ND	NA	83.1	NA	3.9	ND	20.5	22.2
SVWC-95	98.8	ND	ND	ND	ND	NA	ND	61	27	NA	90.1	NA	23.2	ND	14.4	24.9
SVWC-96	147	NA	NA	ND	ND	ND	ND	NA	289	NA	67.8	NA	4.6	ND	52.9	27.8

NOTES:

Concentrations reported in µg/L (ppb).
ND = Not Detected
NA = Not Analyzed

Values in **BOLD** indicate an exceedance of groundwater quality standard for Iron, 300 µg/L.

TABLE 3C

TOWN OF RAMAPO LANDFILL
POST-CLOSURE GROUNDWATER MONITORING
COMPOUND: IRON

Sample ID	Sample Date					
	Oct-03	Mar-04	Jun-05	Sep-06	Oct-07	Mar-09
1-OS/I	NA	NA	**54,200** N	**120,000**	**160,000**	**38,000**
2-OS	**14,700**	**14,700**	144 N	**12,000**	**31,000**	**12,000**
3-OS/I	**39,000**	**12,900**	**60,500** N	**77,000**	**25,000**	**30,000**
4-OS	**2,470**	**3,050**	**3,050**	**12,000**	**24,000**	**10,000**
5-OS	NA	**150,000**	NA	**410,000**	**850**	**110,000**
5-I	**21,800**	NA	124	NA	NA	NA
7-OS	**633**	**38,500**	**1,310**	**17,000**	**13,000**	**5,800**
8-OS	**705**	**1,030**	**3,150**	**1,200**	**780**	**3,800**
8-I	**8,310**	**29,700**	**13,900**	**43,000**	**39,000**	**33,000**
8-R	**1,090**	**1,160**	**751**	**4,700**	**1,300**	**1,300**
9-OS	**656**	**506**	**453**	**1,600**	**6,300**	**7,800**
9-I	**514**	**1,630**	**318**	**24,000**	**41,000**	**23,000**
9-R	**4,660**	**4,890**	**6,430**	**7,000**	**8,500**	**9,400**
PW-1	50 U	20 B	18.6 B	15 J	17 J	12 J
PW-2	50 U	27.5 B	115	34 J	130	140
SVWC-93	50 U	203	14.4 B	21 J	46 J	29 J
SVWC-94	50 U	30.3 B	7.7 U	50 U	12 J	NA
SVWC-95	50 U	157	17.2 B	260	76	33 J
SVWC-96	50 U	16.8 U	7.7 U	50 U	50 U	16 J

NOTES:

Concentrations reported in ug/L (ppb).
NA = Not Analyzed
Values in **BOLD** indicate an exceedance of groundwater quality standard for Iron, 300 mg/L.

Life Science Laboratories, Inc. conducted analyses for the 2006 - 2009 events. STL Newburgh conducted analyses for the 2003-2005 events.

Life Science Laboratories
J = Analyte detected below the Practical Quantitation Limit (PQL)
U = Analyte not detected at listed detection limit.

STL Newburgh
B = The reported value is less than the Contract Required Detection Limit (CRDL), but greater than the Instrument Detection Limit.

TABLE 3D

TOWN OF RAMAPO LANDFILL
POST-CLOSURE GROUNDWATER MONITORING DATA
COMPOUND: Manganese

Sample ID	Sample Date															
	Jan-90	Sep-90	Jan-93	Apr-93	Sep-93	Dec-93	Mar-94	Jun-94	Sep-94	Dec-94	Mar-95	Jun-95	Sep-95	Dec-95	Mar-96	Jun-96
1-OS	**3,790**	**3,700**	**809**	**1,410**	**4,010**	**5,590**	**3,510**	26.8	**5,150**	**4,770**	**2,950**	**2,010**	**4,930**	**3,130**	**2,020**	NA
2-OS	298	**4,770**	NA	27	**4,850**	**1,580**	92.5	**985**	**2,450**	**827**	221	**982**	**5,570**	**883**	280	NA
3-OS/I	**8,700**	**18,100**	**3,450**	**1,690**	**9,590**	**8,780**	**5,640**	**10,300**	**2,240**	**5,540**	**3,590**	**3,270**	**3,860**	**6,090**	**11,900**	NA
4-OS	**4,210**	**5,020**	**547**	**506**	**2,080**	**995**	**598**	**2,850**	**3,050**	**1,130**	**602**	**2,860**	**7,080**	**682**	**636**	NA
5-OS	**981**	**530**	192	43.2	NA	NA	NA	NA	NA	NA	**1410**	NA	49.5	NA	**616**	NA
5-I	NA	NA	NA	NA	NA	52.8	40.6	215	221	**474**	NA	248	NA	53.6	NA	NA
7-OS	**1,240**	**3,260**	48.3	46.1	**45,100**	122	67.4	**1,580**	**9,820**	**992**	**1,180**	NA	NA	56.8	**390**	NA
8-OS	**2,830**	**2,750**	**1,680**	**1,640**	**3,330**	**1,910**	**4,090**	**1,790**	**3,230**	**1,840**	**2,050**	**2,690**	**1,420**	**903**	**2,460**	**3,120**
8-I	**4,230**	**1,110**	NA	ND	ND	ND	**877**	**1,180**	**692**	**862**	**1,480**	**1,110**	**2,430**	**945**	**1,860**	**3,200**
8-R	**872**	181	**1,660**	**2,600**	**2,440**	**2,650**	**2,220**	**1,890**	**1,740**	**1,980**	**3,290**	**1,300**	**2,500**	**2,610**	**4,040**	**3,230**
9-OS	NA	14.6	ND	21.1	9.6	8.7	74.8	34.7	26.2	40.8	32.9	3.9	NA	NA	75.7	70.9
9-I	NA	**377**	NA	NA	NA	NA	40.6	3.2	21.7	9.8	40.5	10.9	129	15.9	5.2	13.1
9-R	NA	**3,270**	**2,320**		**2,540**	**1,890**	**1,660**	**1,830**	**1,650**	**1,460**	**1,590**	**1,790**	**1,810**	**1,070**	**738**	**1,840**
PW-1	NA	ND	1.2	1.8	ND	3.6	5.4	ND	5.1	15.3	18.1	5.2	83.1	57.7	83.7	25.7
PW-2	NA	ND	4.7	7.5	6.3	6.6	NA	2.4	8.7	6.1	NA	6.1	11.6	7.7	2.6	5
SVWC-93	NA	NA	ND	1.7	NA	72.2	ND	ND	2	0.37	9.6	0.95	NA	11.9	ND	3.4
SVWC-94	NA	NA	7.3	ND	NA	NA	6.3	ND	10.4	11.9	6.7	11.4	NA	ND	3.1	ND
SVWC-95	NA	NA	56.4	1.8	ND	NA	91.6	108	273	85.9	29	49.7	NA	22.1	47.4	67.4
SVWC-96	NA	NA	ND	ND	NA	ND	ND	ND	2.1	11.9	1.3	ND	NA	48	ND	ND

NOTES:

Concentrations reported in µg/L (ppb).

ND = Not Detected
NA = Not Analyzed

Values in **BOLD** indicate an exceedance of groundwater quality standard for Manganese, 300 µg/L.

TABLE 3D (Continued)

TOWN OF RAMAPO LANDFILL
POST-CLOSURE GROUNDWATER MONITORING DATA
COMPOUND: Manganese

Sample ID	Sample Date															
	Sep-96	Dec-96	Mar-97	Jun-97	Sep-97	Dec-97	Mar-98	Jun-98	Sep-98	Mar-99	Jun-99	Sep-99	May-00	Sep-00	Dec-00	Mar-01
1-OS	**4,710**	NA	**2,200**	NA	**5,500**	NA	**4,530**	NA	**1,600**	**5,600**	NA	**9,830**	**5,740**	NA	**5,810**	**4,940**
2-OS	NA	NA	18	NA	**650**	NA	**1,060**	NA	**3,320**	69.6	NA	**936**	**4,110**	NA	**3,370**	**3,450**
3-OS/I	**4,880**	NA	**3,000**	NA	**4,500**	NA	**12,100**	NA	**8,880**	**948**	NA	**577**	**5,720**	NA	**5,070**	**3,750**
4-OS	59.6	NA	140	NA	**940**	NA	**430**	NA	**1,600**	220	NA	**1,720**	**1,340**	NA	**1,930**	**440**
5-OS	NA	NA	NA	NA	20	NA	57.8	NA	18.7	NA	NA	27.2	**533**	NA	**1,080**	**323**
5-I	77.7	NA	160	NA	NA	NA	NA	NA	NA	88.6	NA	NA	NA	NA	NA	NA
7-OS	43.1	NA	**1,400**	NA	**550**	NA	**2,480**	NA	**2,190**	211	NA	**755**	**305**	NA	**1,270**	**638**
8-OS	**679**	**2,200**	**570**	**670**	**830**	**570**	124	**466**	**2,640**	119	**1,400**	**860**	**525**	**3,820**	**2,410**	**6,760**
8-I	**2,100**	**3,100**	**1,200**	**1,800**	**910**	**840**	**937**	**692**	**1,500**	NA	**1,050**	**1,570**	**789**	**2,810**	**2,560**	**3,430**
8-R	**4,310**	**3,400**	**3,500**	**3,100**	**2,000**	**1,500**	**2,130**	**2,340**	**952**	NA	**1,900**	**2,780**	**2,640**	**2,390**	**2,120**	**2,250**
9-OS	43.3	20	49	170	ND	20	28	14.7	3.5	28.6	15.1	11.7	40.1	54.6	58.9	93.2
9-I	5.6	6	ND	ND	ND	ND	4.8	11.8	3.6	2.8	18	5.4	109	66.7	49.2	**561**
9-R	**1,930**	**2,200**	**2,600**	**2,400**	**2,000**	**1,500**	**1,650**	**1,150**	**1,810**	**771**	**1,620**	**1,320**	**1,500**	**3,020**	**3,100**	**2,860**
PW-1	4.4	80	ND	ND	ND	ND	9.4	0.99	7	1.4	1.9	ND	0.81	0.74	1.4	13.6
PW-2	3.8	ND	ND	ND	ND	ND	9.1	5.1	0.61	6.6	6.6	ND	1.8	2.5	3.9	6
SVWC-93	2	ND	ND	ND	ND	ND	12.8	0.79	3.6	NA	2.5	NA	0.49	2.1	ND	2.2
SVWC-94	5.3	6	ND	ND	10	NA	8.1	5.8	7.6	NA	4.3	NA	3.6	7.1	9.6	4.7
SVWC-95	26.4	70	82	80	130	NA	58.6	64.4	21	NA	40.6	NA	40.4	49.7	47.5	49.8
SVWC-96	10.1	NA	NA	ND	ND	ND	ND	NA	22	NA	1.6	NA	ND	<0.70	ND	ND

NOTES:

Concentrations reported in µg/L (ppb).

ND = Not Detected
NA = Not Analyzed

Values in **BOLD** indicate an exceedance of groundwater quality standard for Manganese, 300 µg/L.

TABLE 3D

TOWN OF RAMAPO LANDFILL
POST-CLOSURE GROUNDWATER QUALITY MONITORING
COMPOUND: MANGANESE

Sample ID	Sample Date					
	Oct-03	Mar-04	Jun-05	Sep-06	Oct-07	Mar-09
1-OS/I	NA	NA	**4,720**	**2,800**	**5,100**	**9,000**
2-OS	**1,310**	**2,300**	**778**	**1,900**	**3,500**	**2,200**
3-OS/I	**14,200**	**7,200**	**6,450**	**9,200**	**4,400**	**14,000**
4-OS	**690**	**338**	**700**	**860**	**2,700**	**400**
5-OS	NA	**2,040**	NA	**5,100**	14 J	**1,100**
5-I	**577**	NA	13.6	NA	NA	NA
7-OS	76.4	**2,140**	222	**1,300**	**920**	**450**
8-OS	235	**1,590**	**691**	110	**2,000**	**610**
8-I	**2,590**	**4,650**	**3,090**	**1,900**	**2,200**	**3,100**
8-R	**2,040**	**2,150**	**2,190**	**2,200**	**1,900**	**1,900**
9-OS	15.5	4.4 B	27.7	51	140	150
9-I	15.1	19	11.6	290	**560**	290
9-R	**2,090**	**1,980**	**2,730**	**2,800**	**2,900**	**3,700**
PW-1	0.69	0.9 U	2.1 U	0.75 J	50 U	50 U
PW-2	1.6	0.9 U	2.1 U	1.4 J	5.6 J	1.8 J
SVWC-93	0.65	0.9 U	2.1 U	0.62 J	50 U	50 U
SVWC-94	4.3	3.3 B	6.5 B	3.2 J	3.8 J	NA
SVWC-95	84.6	88	86	25 J	96	140
SVWC-96	0.9 U	0.9 U	2.1 U	50 U	50 U	50 U

NOTES:

Concentrations reported in ug/L (ppb).
NA = Not Analyzed
Values in **BOLD** indicate an exceedance of groundwater quality standard for Manganese, 300 mg/L.

Life Science Laboratories, Inc. conducted analyses for the 2006 - 2009 events. STL Newburgh conducted analyses for the 2003-2005 events.

Life Science Laboratories
J = Analyte detected below the Practical Quantitation Limit (PQL)
U = Analyte not detected at listed detection limit.

STL Newburgh
B = The reported value is less than the Contract Required Detection Limit (CRDL), but greater than the Instrument Detection Limit.

RAMARO 2009 GW DATA – #20010

Project Management Case Narrative

INTRODUCTION/ANALYTICAL RESULTS

This report summarizes the laboratory results for samples from Sterling Environmental Engineering, P.C. New York State Department of Environmental Conservation forms are included in the Sample Data Summary Package and in the Sample Data Package.

CONDITION UPON RECEIPT/CHAIN OF CUSTODY

The cooler(s) were received intact. When the cooler(s) were received by the laboratory, the sample custodian(s) opened and inspected the shipment(s) for damage, custody inconsistencies, and proper preservation. Chain of custodies documenting receipt are presented in the chain of custody section. Each sample was assigned a unique laboratory number and a custody file created. The samples were placed in a secured walk-in cooler and signed in and out by the chemists performing the tests. The sign out record, or lab chronicle, is presented in the chain of custody section.

Discrepancies noted upon receipt are documented on the Sample Receipt Checklist included in the chain of custody section. The temperatures of the iced coolers were 2.2°C, and 2.4°C.

METHODOLOGY

The following methods were used to perform the analyses:

PARAMETER	METHOD	REFERENCE
GC/MS Volatile Organics	8260B	1
ICP Metals	6010B	1
Mercury	SW7470A	1
Chemical Oxygen Demand	EPA410.4	1
Kjeldahl Nitrogen	EPA351.2	1
Alkalinity	SM 2320B	2
Hardness	SM 2340C	2
Antimony	200.8	1

1) New York State Department of Environmental Conservation Analytical Services Protocol, 2000.

2) Standard Methods for the Examination of Water and Wastewater, 18th to 20th Edition

QUALITY CONTROL

QA/QC results are summarized in the Sample Data Summary Package and are also included in the raw data.

RAW DATA

The raw data is organized in the New York State Department of Environmental Conservation Analytical Services Protocol Category B order of data.

MISCELLANEOUS

The methodology requested for Antimony was 200.8 with a detection limit of 0.3 ppb. Antimony was analyzed by both methods 6010B and 200.8. The method 6010B is reported down to a MDL of 3 ppb. Method 200.8 is reported to a reporting limit (CRDL) of 2 ppb and a MDL of .1 ppb. Due to the interferences experienced and the limited sensitivity of non drinking water analysis by method 200.8, the results detected below the 2 ppb CRDL are reported as estimated.

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Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-001A**
Project:	Ramapo	**Client Sample ID:**	*9-R*
W Order:	0903097	**Collection Date:**	03/16/09 12:40
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	GENESYS 20	**Sample Size:** NA	**PrepDate:**
ColumnID:		**%Moisture:**	**BatchNo:** R16725
Revision:	03/19/09 11:27	**TestCode:** COD410.4	**FileID:** 1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
COD					**EPA 410.4**		
Chemical Oxygen Demand	ND		10	3.6	mg/L	1	03/19/09 11:54

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 434743 **Project Supervisor:** Anthony Crescenzi

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Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-001A**
Project:	Ramapo	**Client Sample ID:**	*9-R*
W Order:	0903097	**Collection Date:**	03/16/09 12:40
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	AA3 **Sample Size:** 20 mL	**PrepDate:**	03/18/09 0:00
ColumnID:	**%Moisture:**	**BatchNo:**	9133/R16714
Revision:	03/18/09 14:58 **TestCode:** TKN351.2	**FileID:**	1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
KJELDAHL NITROGEN - TOTAL (AS N)					**EPA 351.2**		**(E351.2)**
Kjeldahl Nitrogen - Total (as N)	5.6	E	0.20	0.056	mg/L	1	03/18/09 13:12

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 434627 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-001ADL**
Project:	Ramapo	**Client Sample ID:**	*9-R*
W Order:	0903097	**Collection Date:**	03/16/09 12:40
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	AA3 **Sample Size:** 20 mL	**PrepDate:**	03/18/09 0:00
ColumnID:	**%Moisture:**	**BatchNo:**	9133/R16714
Revision:	03/18/09 14:58 **TestCode:** TKN351.2	**FileID:**	1-DL-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
KJELDAHL NITROGEN - TOTAL (AS N)					**EPA 351.2**		**(E351.2)**
Kjeldahl Nitrogen - Total (as N)	5.6		0.40	0.11	mg/L	2	03/18/09 13:12

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 434642 **Project Supervisor:** Anthony Crescenzi

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Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-001B**
Project:	Ramapo	**Client Sample ID:**	*9-R*
W Order:	0903097	**Collection Date:**	03/16/09 12:40
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	pH meter	**Sample Size:** NA	**PrepDate:**
ColumnID:		**%Moisture:**	**BatchNo:** R16700
Revision:	03/18/09 9:43	**TestCode:** ALKT 2320B	**FileID:** 1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ALKALINITY, AS CACO3					**SM 18-20 2320 B**		
Alkalinity, as CaCO3	150		10	10	mg/L	1	03/17/09

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 434355 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.

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Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-001C**
Project:	Ramapo	**Client Sample ID:**	*9-R*
W Order:	0903097	**Collection Date:**	03/16/09 12:40
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	FIMS 100	**Sample Size:** 50 mL	**PrepDate:** 03/19/09 0:00
ColumnID:		**%Moisture:**	**BatchNo:** 9141/R16742
Revision:	03/20/09 15:31	**TestCode:** HG7470W	**FileID:** 1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY					**SW7470A**		**(SW7470A)**
Mercury	ND		0.00020	0.000050	mg/L	1	03/20/09 11:48

Qualifiers:					
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 435035 **Project Supervisor:** Anthony Crescenzi

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Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-001C**
Project:	Ramapo	**Client Sample ID:**	*9-R*
W Order:	0903097	**Collection Date:**	03/16/09 12:40
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	Buret Type A	**Sample Size:** NA	**PrepDate:**
ColumnID:		**%Moisture:**	**BatchNo:** R16791
Revision:	04/03/09 14:18	**TestCode:** HARD2340C	**FileID:** 1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
HARDNESS-TOTAL, AS CACO3					**SM 18-20 2340 C**		
Hardness-Total, as CaCO3	160		10	10	mg/L	1	03/26/09

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 435761 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.

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Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-001C**
Project:	Ramapo	**Client Sample ID:**	*9-R*
W Order:	0903097	**Collection Date:**	03/16/09 12:40
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	ICAP 61E	**Sample Size:** 50 mL	**PrepDate:** 03/18/09 0:00
ColumnID:		**%Moisture:**	**BatchNo:** 9136/R16868
Revision:	04/06/09 11:41	**TestCode:** 6010W05	**FileID:** 1-SAMP-102810
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP					**SW6010B**		**(SW3005A)**
Aluminum	ND		0.10	0.060	mg/L	1	04/03/09 11:20
Antimony	ND		0.060	0.0030	mg/L	1	04/03/09 11:20
Arsenic	0.0057	J	0.010	0.0040	mg/L	1	04/03/09 11:20
Barium	0.028	J	0.10	0.0020	mg/L	1	04/03/09 11:20
Beryllium	ND		0.0030	0.00020	mg/L	1	04/03/09 11:20
Cadmium	ND		0.0050	0.0010	mg/L	1	04/03/09 11:20
Calcium	38		1.0	0.040	mg/L	1	04/03/09 11:20
Chromium	ND		0.010	0.0028	mg/L	1	04/03/09 11:20
Cobalt	ND		0.050	0.0060	mg/L	1	04/03/09 11:20
Copper	ND		0.010	0.0028	mg/L	1	04/03/09 11:20
Iron	9.4		0.050	0.010	mg/L	1	04/03/09 11:20
Lead	ND		0.010	0.0040	mg/L	1	04/03/09 11:20
Magnesium	11		1.0	0.040	mg/L	1	04/03/09 11:20
Manganese	3.7		0.050	0.0015	mg/L	1	04/03/09 11:20
Nickel	0.0025	J	0.050	0.0020	mg/L	1	04/03/09 11:20
Potassium	12		5.0	0.20	mg/L	1	04/03/09 11:20
Selenium	ND		0.010	0.0050	mg/L	1	04/03/09 11:20
Silver	ND		0.010	0.0020	mg/L	1	04/03/09 11:20
Sodium	44		1.0	0.040	mg/L	1	04/03/09 11:20
Thallium	ND		0.020	0.010	mg/L	1	04/03/09 11:20
Vanadium	ND		0.050	0.0020	mg/L	1	04/03/09 11:20
Zinc	0.0081	J	0.020	0.0040	mg/L	1	04/03/09 11:20

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 437062 **Project Supervisor:** Anthony Crescenzi

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Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-001D**
Project:	Ramapo	**Client Sample ID:**	9-R
W Order:	0903097	**Collection Date:**	03/16/09 12:40
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	MS02_12 **Sample Size:** 25 mL	**PrepDate:**	
ColumnID:	Rtx-502.2 **%Moisture:**	**BatchNo:**	R16745
Revision:	03/23/09 13:26 **TestCode:** 8260W	**FileID:**	1-SAMP-M5900.D
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					**SW8260B**		
1,1-Dichloroethane	ND		0.50	0.10	µg/L	1	03/20/09 20:07
Benzene	ND		0.50	0.10	µg/L	1	03/20/09 20:07
Chlorobenzene	0.22	J	0.50	0.10	µg/L	1	03/20/09 20:07
Vinyl chloride	ND		1.00	0.33	µg/L	1	03/20/09 20:07
Surr: 1,2-Dichloroethane-d4	111		75-134	0.16	%REC	1	03/20/09 20:07
Surr: 4-Bromofluorobenzene	102		75-125	0.10	%REC	1	03/20/09 20:07
Surr: Toluene-d8	109		75-125	0.10	%REC	1	03/20/09 20:07

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 435136 **Project Supervisor:** Anthony Crescenzi

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Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-002A**
Project:	Ramapo	**Client Sample ID:**	*9-OS*
W Order:	0903097	**Collection Date:**	03/16/09 12:50
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	GENESYS 20	**Sample Size:** NA	**PrepDate:**
ColumnID:		**%Moisture:**	**BatchNo:** R16725
Revision:	03/19/09 11:27	**TestCode:** COD410.4	**FileID:** 1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
COD					**EPA 410.4**		
Chemical Oxygen Demand	120		10	3.6	mg/L	1	03/19/09 11:54

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 434744 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-002A**
Project:	Ramapo	**Client Sample ID:**	*9-OS*
W Order:	0903097	**Collection Date:**	03/16/09 12:50
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	AA3 **Sample Size:** 20 mL	**PrepDate:**	03/18/09 0:00
ColumnID:	**%Moisture:**	**BatchNo:**	9133/R16714
Revision:	03/18/09 14:58 **TestCode:** TKN351.2	**FileID:**	1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
KJELDAHL NITROGEN - TOTAL (AS N)					**EPA 351.2**		**(E351.2)**
Kjeldahl Nitrogen - Total (as N)	5.5	E	0.20	0.056	mg/L	1	03/18/09 13:12

Qualifiers:					
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 434628 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-002ADL**
Project:	Ramapo	**Client Sample ID:**	*9-OS*
W Order:	0903097	**Collection Date:**	03/16/09 12:50
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	AA3 **Sample Size:** 20 mL	**PrepDate:**	03/18/09 0:00
ColumnID:	**%Moisture:**	**BatchNo:**	9133/R16714
Revision:	03/18/09 14:58 **TestCode:** TKN351.2	**FileID:**	1-DL-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
KJELDAHL NITROGEN - TOTAL (AS N)					**EPA 351.2**		**(E351.2)**
Kjeldahl Nitrogen - Total (as N)	5.4		0.40	0.11	mg/L	2	03/18/09 13:12

Qualifiers:					
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 434643 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-002B**
Project:	Ramapo	**Client Sample ID:**	9-OS
W Order:	0903097	**Collection Date:**	03/16/09 12:50
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	pH meter	**Sample Size:** NA	**PrepDate:**
ColumnID:		**%Moisture:**	**BatchNo:** R16700
Revision:	03/18/09 9:43	**TestCode:** ALKT 2320B	**FileID:** 1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ALKALINITY, AS CACO3					**SM 18-20 2320 B**		
Alkalinity, as CaCO3	12		10	10	mg/L	1	03/17/09

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 434356 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-002C**
Project:	Ramapo	**Client Sample ID:**	*9-OS*
W Order:	0903097	**Collection Date:**	03/16/09 12:50
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	FIMS 100 **Sample Size:** 50 mL	**PrepDate:**	03/19/09 0:00
ColumnID:	**%Moisture:**	**BatchNo:**	9141/R16742
Revision:	03/20/09 15:31 **TestCode:** HG7470W	**FileID:**	1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY					**SW7470A**		**(SW7470A)**
Mercury	ND		0.00020	0.000050	mg/L	1	03/20/09 11:50

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 435036 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-002C**
Project:	Ramapo	**Client Sample ID:**	*9-OS*
W Order:	0903097	**Collection Date:**	03/16/09 12:50
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	Buret Type A	**Sample Size:** NA	**PrepDate:**
ColumnID:		**%Moisture:**	**BatchNo:** R16791
Revision:	04/03/09 14:18	**TestCode:** HARD2340C	**FileID:** 1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
HARDNESS-TOTAL, AS CACO3					**SM 18-20 2340 C**		
Hardness-Total, as CaCO3	40		10	10	mg/L	1	03/26/09

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 435762 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-002C**
Project:	Ramapo	**Client Sample ID:**	*9-OS*
W Order:	0903097	**Collection Date:**	03/16/09 12:50
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	ICAP 61E	**Sample Size:** 50 mL	**PrepDate:** 03/18/09 0:00
ColumnID:		**%Moisture:**	**BatchNo:** 9136/R16868
Revision:	04/06/09 11:41	**TestCode:** 6010W05	**FileID:** 1-SAMP-102811
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP					**SW6010B**		**(SW3005A)**
Aluminum	3.9		0.10	0.060	mg/L	1	04/03/09 11:23
Antimony	ND		0.060	0.0030	mg/L	1	04/03/09 11:23
Arsenic	ND		0.010	0.0040	mg/L	1	04/03/09 11:23
Barium	0.037	J	0.10	0.0020	mg/L	1	04/03/09 11:23
Beryllium	0.00025	J	0.0030	0.00020	mg/L	1	04/03/09 11:23
Cadmium	ND		0.0050	0.0010	mg/L	1	04/03/09 11:23
Calcium	9.7		1.0	0.040	mg/L	1	04/03/09 11:23
Chromium	0.30		0.010	0.0028	mg/L	1	04/03/09 11:23
Cobalt	ND		0.050	0.0060	mg/L	1	04/03/09 11:23
Copper	0.016		0.010	0.0028	mg/L	1	04/03/09 11:23
Iron	7.8		0.050	0.010	mg/L	1	04/03/09 11:23
Lead	ND		0.010	0.0040	mg/L	1	04/03/09 11:23
Magnesium	3.3		1.0	0.040	mg/L	1	04/03/09 11:23
Manganese	0.15		0.050	0.0015	mg/L	1	04/03/09 11:23
Nickel	0.028	J	0.050	0.0020	mg/L	1	04/03/09 11:23
Potassium	5.7		5.0	0.20	mg/L	1	04/03/09 11:23
Selenium	ND		0.010	0.0050	mg/L	1	04/03/09 11:23
Silver	ND		0.010	0.0020	mg/L	1	04/03/09 11:23
Sodium	8.3		1.0	0.040	mg/L	1	04/03/09 11:23
Thallium	ND		0.020	0.010	mg/L	1	04/03/09 11:23
Vanadium	0.010	J	0.050	0.0020	mg/L	1	04/03/09 11:23
Zinc	0.021		0.020	0.0040	mg/L	1	04/03/09 11:23

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 437063 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
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Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-002D**
Project:	Ramapo	**Client Sample ID:**	*9-OS*
W Order:	0903097	**Collection Date:**	03/16/09 12:50
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	MS02_12 **Sample Size:** 25 mL	**PrepDate:**	
ColumnID:	Rtx-502.2 **%Moisture:**	**BatchNo:**	R16745
Revision:	03/23/09 13:26 **TestCode:** 8260W	**FileID:**	1-SAMP-M5901.D
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					**SW8260B**		
1,1-Dichloroethane	ND		0.50	0.10	µg/L	1	03/20/09 20:48
Benzene	ND		0.50	0.10	µg/L	1	03/20/09 20:48
Chlorobenzene	ND		0.50	0.10	µg/L	1	03/20/09 20:48
Vinyl chloride	ND		1.00	0.33	µg/L	1	03/20/09 20:48
Surr: 1,2-Dichloroethane-d4	111		75-134	0.16	%REC	1	03/20/09 20:48
Surr: 4-Bromofluorobenzene	102		75-125	0.10	%REC	1	03/20/09 20:48
Surr: Toluene-d8	109		75-125	0.10	%REC	1	03/20/09 20:48

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 435137 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-003A**
Project:	Ramapo	**Client Sample ID:**	*9-I*
W Order:	0903097	**Collection Date:**	03/16/09 13:00
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	AA3 **Sample Size:** 20 mL	**PrepDate:**	03/18/09 0:00
ColumnID:	**%Moisture:**	**BatchNo:**	9133/R16714
Revision:	03/18/09 14:58 **TestCode:** TKN351.2	**FileID:**	1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
KJELDAHL NITROGEN - TOTAL (AS N)					**EPA 351.2**		**(E351.2)**
Kjeldahl Nitrogen - Total (as N)	0.099	J	0.20	0.056	mg/L	1	03/18/09 13:12

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 434629 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-003A**
Project:	Ramapo	**Client Sample ID:**	*9-I*
W Order:	0903097	**Collection Date:**	03/16/09 13:00
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	GENESYS 20 **Sample Size:** NA	**PrepDate:**	
ColumnID:	**%Moisture:**	**BatchNo:**	R16725
Revision:	03/19/09 11:27 **TestCode:** COD410.4	**FileID:**	1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
COD					**EPA 410.4**		
Chemical Oxygen Demand	37		10	3.6	mg/L	1	03/19/09 11:54

Qualifiers:					
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 434745 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-003B**
Project:	Ramapo	**Client Sample ID:**	*9-I*
W Order:	0903097	**Collection Date:**	03/16/09 13:00
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	pH meter	**Sample Size:** NA	**PrepDate:**
ColumnID:		**%Moisture:**	**BatchNo:** R16700
Revision:	03/18/09 9:43	**TestCode:** ALKT 2320B	**FileID:** 1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ALKALINITY, AS CACO3					**SM 18-20 2320 B**		
Alkalinity, as CaCO3	18		10	10	mg/L	1	03/17/09

Qualifiers:					
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 434357 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-003C**
Project:	Ramapo	**Client Sample ID:**	*9-I*
W Order:	0903097	**Collection Date:**	03/16/09 13:00
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	FIMS 100 **Sample Size:** 50 mL	**PrepDate:**	03/19/09 0:00
ColumnID:	**%Moisture:**	**BatchNo:**	9141/R16742
Revision:	03/20/09 15:31 **TestCode:** HG7470W	**FileID:**	1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY					**SW7470A**		**(SW7470A)**
Mercury	ND		0.00020	0.000050	mg/L	1	03/20/09 11:52

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 435037 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-003C**
Project:	Ramapo	**Client Sample ID:**	*9-I*
W Order:	0903097	**Collection Date:**	03/16/09 13:00
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	ICAP 61E	**Sample Size:** 50 mL	**PrepDate:** 03/18/09 0:00
ColumnID:		**%Moisture:**	**BatchNo:** 9136/R16868
Revision:	04/06/09 11:41	**TestCode:** 6010W05	**FileID:** 1-SAMP-102812
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP					**SW6010B**		**(SW3005A)**
Aluminum	13		0.10	0.060	mg/L	1	04/03/09 11:27
Antimony	ND		0.060	0.0030	mg/L	1	04/03/09 11:27
Arsenic	ND		0.010	0.0040	mg/L	1	04/03/09 11:27
Barium	0.12		0.10	0.0020	mg/L	1	04/03/09 11:27
Beryllium	0.00071	J	0.0030	0.00020	mg/L	1	04/03/09 11:27
Cadmium	ND		0.0050	0.0010	mg/L	1	04/03/09 11:27
Calcium	12		1.0	0.040	mg/L	1	04/03/09 11:27
Chromium	0.038		0.010	0.0028	mg/L	1	04/03/09 11:27
Cobalt	0.011	J	0.050	0.0060	mg/L	1	04/03/09 11:27
Copper	0.027		0.010	0.0028	mg/L	1	04/03/09 11:27
Iron	23		0.050	0.010	mg/L	1	04/03/09 11:27
Lead	ND		0.010	0.0040	mg/L	1	04/03/09 11:27
Magnesium	5.9		1.0	0.040	mg/L	1	04/03/09 11:27
Manganese	0.29		0.050	0.0015	mg/L	1	04/03/09 11:27
Nickel	0.019	J	0.050	0.0020	mg/L	1	04/03/09 11:27
Potassium	3.9	J	5.0	0.20	mg/L	1	04/03/09 11:27
Selenium	ND		0.010	0.0050	mg/L	1	04/03/09 11:27
Silver	ND		0.010	0.0020	mg/L	1	04/03/09 11:27
Sodium	15		1.0	0.040	mg/L	1	04/03/09 11:27
Thallium	ND		0.020	0.010	mg/L	1	04/03/09 11:27
Vanadium	0.024	J	0.050	0.0020	mg/L	1	04/03/09 11:27
Zinc	0.035		0.020	0.0040	mg/L	1	04/03/09 11:27

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

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Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-003C**
Project:	Ramapo	**Client Sample ID:**	*9-1*
W Order:	0903097	**Collection Date:**	03/16/09 13:00
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	Buret Type A	**Sample Size:** NA	**PrepDate:**
ColumnID:		**%Moisture:**	**BatchNo:** R16791
Revision:	04/03/09 14:18	**TestCode:** HARD2340C	**FileID:** 1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
HARDNESS-TOTAL, AS CACO3					**SM 18-20 2340 C**		
Hardness-Total, as CaCO3	44		10	10	mg/L	1	03/26/09

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

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Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-003D**
Project:	Ramapo	**Client Sample ID:**	*9-I*
W Order:	0903097	**Collection Date:**	03/16/09 13:00
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	MS02_12 **Sample Size:** 25 mL	**PrepDate:**	
ColumnID:	Rtx-502.2 **%Moisture:**	**BatchNo:**	R16745
Revision:	03/23/09 13:26 **TestCode:** 8260W	**FileID:**	1-SAMP-M5902.D
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					**SW8260B**		
1,1-Dichloroethane	ND		0.50	0.10	µg/L	1	03/20/09 21:29
Benzene	ND		0.50	0.10	µg/L	1	03/20/09 21:29
Chlorobenzene	ND		0.50	0.10	µg/L	1	03/20/09 21:29
Vinyl chloride	ND		1.00	0.33	µg/L	1	03/20/09 21:29
Surr: 1,2-Dichloroethane-d4	112		75-134	0.16	%REC	1	03/20/09 21:29
Surr: 4-Bromofluorobenzene	102		75-125	0.10	%REC	1	03/20/09 21:29
Surr: Toluene-d8	109		75-125	0.10	%REC	1	03/20/09 21:29

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 435138 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-004A**
Project:	Ramapo	**Client Sample ID:**	*8-I*
W Order:	0903097	**Collection Date:**	03/16/09 17:30
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	AA3 **Sample Size:** 20 mL	**PrepDate:**	03/18/09 0:00
ColumnID:	**%Moisture:**	**BatchNo:**	9133/R16714
Revision:	03/18/09 14:58 **TestCode:** TKN351.2	**FileID:**	1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
KJELDAHL NITROGEN - TOTAL (AS N)					**EPA 351.2**		**(E351.2)**
Kjeldahl Nitrogen - Total (as N)	7.8	E	0.20	0.056	mg/L	1	03/18/09 13:12

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 434630 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-004A**
Project:	Ramapo	**Client Sample ID:**	*8-I*
W Order:	0903097	**Collection Date:**	03/16/09 17:30
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	GENESYS 20 **Sample Size:** NA	**PrepDate:**	
ColumnID:	**%Moisture:**	**BatchNo:**	R16725
Revision:	03/19/09 11:27 **TestCode:** COD410.4	**FileID:**	1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
COD					**EPA 410.4**		
Chemical Oxygen Demand	44		10	3.6	mg/L	1	03/19/09 11:54

Qualifiers:					
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 434746 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-004ADL**
Project:	Ramapo	**Client Sample ID:**	*8-I*
W Order:	0903097	**Collection Date:**	03/16/09 17:30
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	AA3 **Sample Size:** 20 mL	**PrepDate:**	03/18/09 0:00
ColumnID:	**%Moisture:**	**BatchNo:**	9133/R16714
Revision:	03/18/09 14:58 **TestCode:** TKN351.2	**FileID:**	1-DL-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
KJELDAHL NITROGEN - TOTAL (AS N)					**EPA 351.2**		**(E351.2)**
Kjeldahl Nitrogen - Total (as N)	7.8		0.40	0.11	mg/L	2	03/18/09 13:12

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 434644 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-004B**
Project:	Ramapo	**Client Sample ID:**	*S-1*
W Order:	0903097	**Collection Date:**	03/16/09 17:30
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	pH meter	**Sample Size:** NA	**PrepDate:**
ColumnID:		**%Moisture:**	**BatchNo:** R16700
Revision:	03/18/09 9:43	**TestCode:** ALKT 2320B	**FileID:** 1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ALKALINITY, AS CACO3					**SM 18-20 2320 B**		
Alkalinity, as CaCO3	190		10	10	mg/L	1	03/17/09

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 434358 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-004C**
Project:	Ramapo	**Client Sample ID:**	*8-I*
W Order:	0903097	**Collection Date:**	03/16/09 17:30
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	ICAP 61E	**Sample Size:** 50 mL	**PrepDate:** 03/18/09 0:00
ColumnID:		**%Moisture:**	**BatchNo:** 9136/R16868
Revision:	04/06/09 11:41	**TestCode:** 6010W05	**FileID:** 1-SAMP-102813
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP					**SW6010B**		**(SW3005A)**
Aluminum	8.3		0.10	0.060	mg/L	1	04/03/09 11:31
Antimony	ND		0.060	0.0030	mg/L	1	04/03/09 11:31
Arsenic	0.012		0.010	0.0040	mg/L	1	04/03/09 11:31
Barium	0.095	J	0.10	0.0020	mg/L	1	04/03/09 11:31
Beryllium	0.00046	J	0.0030	0.00020	mg/L	1	04/03/09 11:31
Cadmium	ND		0.0050	0.0010	mg/L	1	04/03/09 11:31
Calcium	49		1.0	0.040	mg/L	1	04/03/09 11:31
Chromium	0.027		0.010	0.0028	mg/L	1	04/03/09 11:31
Cobalt	0.0095	J	0.050	0.0060	mg/L	1	04/03/09 11:31
Copper	0.027		0.010	0.0028	mg/L	1	04/03/09 11:31
Iron	33		0.050	0.010	mg/L	1	04/03/09 11:31
Lead	ND		0.010	0.0040	mg/L	1	04/03/09 11:31
Magnesium	16		1.0	0.040	mg/L	1	04/03/09 11:31
Manganese	3.1		0.050	0.0015	mg/L	1	04/03/09 11:31
Nickel	0.018	J	0.050	0.0020	mg/L	1	04/03/09 11:31
Potassium	17		5.0	0.20	mg/L	1	04/03/09 11:31
Selenium	ND		0.010	0.0050	mg/L	1	04/03/09 11:31
Silver	ND		0.010	0.0020	mg/L	1	04/03/09 11:31
Sodium	50		1.0	0.040	mg/L	1	04/03/09 11:31
Thallium	ND		0.020	0.010	mg/L	1	04/03/09 11:31
Vanadium	0.020	J	0.050	0.0020	mg/L	1	04/03/09 11:31
Zinc	0.032		0.020	0.0040	mg/L	1	04/03/09 11:31

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 437065 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-004C**
Project:	Ramapo	**Client Sample ID:**	*8-I*
W Order:	0903097	**Collection Date:**	03/16/09 17:30
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	FIMS 100 **Sample Size:** 50 mL	**PrepDate:**	03/19/09 0:00
ColumnID:	**%Moisture:**	**BatchNo:**	9141/R16742
Revision:	03/20/09 15:31 **TestCode:** HG7470W	**FileID:**	1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY					**SW7470A**		**(SW7470A)**
Mercury	ND		0.00020	0.000050	mg/L	1	03/20/09 11:54

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 435038 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-004C**
Project:	Ramapo	**Client Sample ID:**	*8-I*
W Order:	0903097	**Collection Date:**	03/16/09 17:30
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	Buret Type A	**Sample Size:** NA	**PrepDate:**
ColumnID:		**%Moisture:**	**BatchNo:** R16791
Revision:	04/03/09 14:18	**TestCode:** HARD2340C	**FileID:** 1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
HARDNESS-TOTAL, AS CACO3					**SM 18-20 2340 C**		
Hardness-Total, as CaCO3	170		10	10	mg/L	1	03/26/09

Qualifiers:					
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 435764 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-004D**
Project:	Ramapo	**Client Sample ID:**	*8-I*
W Order:	0903097	**Collection Date:**	03/16/09 17:30
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	MS02_12 **Sample Size:** 25 mL	**PrepDate:**	
ColumnID:	Rtx-502.2 **%Moisture:**	**BatchNo:**	R16745
Revision:	03/23/09 13:26 **TestCode:** 8260W	**FileID:**	1-SAMP-M5903.D
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					**SW8260B**		
1,1-Dichloroethane	ND		0.50	0.10	µg/L	1	03/20/09 22:10
Benzene	ND		0.50	0.10	µg/L	1	03/20/09 22:10
Chlorobenzene	0.29	J	0.50	0.10	µg/L	1	03/20/09 22:10
Vinyl chloride	ND		1.00	0.33	µg/L	1	03/20/09 22:10
Surr: 1,2-Dichloroethane-d4	111		75-134	0.16	%REC	1	03/20/09 22:10
Surr: 4-Bromofluorobenzene	106		75-125	0.10	%REC	1	03/20/09 22:10
Surr: Toluene-d8	108		75-125	0.10	%REC	1	03/20/09 22:10

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 435139 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-005A**
Project:	Ramapo	**Client Sample ID:**	*8-R*
W Order:	0903097	**Collection Date:**	03/16/09 18:10
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	GENESYS 20 **Sample Size:** NA	**PrepDate:**	
ColumnID:	**%Moisture:**	**BatchNo:**	R16725
Revision:	03/19/09 11:27 **TestCode:** COD410.4	**FileID:**	1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
COD					**EPA 410.4**		
Chemical Oxygen Demand	10		10	3.6	mg/L	1	03/19/09 11:55

Qualifiers:					
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 434747 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-005A**
Project:	Ramapo	**Client Sample ID:**	*8-R*
W Order:	0903097	**Collection Date:**	03/16/09 18:10
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	AA3 **Sample Size:** 20 mL	**PrepDate:**	03/18/09 0:00
ColumnID:	**%Moisture:**	**BatchNo:**	9133/R16714
Revision:	03/18/09 14:58 **TestCode:** TKN351.2	**FileID:**	1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
KJELDAHL NITROGEN - TOTAL (AS N)					**EPA 351.2**		**(E351.2)**
Kjeldahl Nitrogen - Total (as N)	1.7		0.20	0.056	mg/L	1	03/18/09 13:12

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 434631 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.			**Lab ID:**	**0903097-005B**
Project:	Ramapo			**Client Sample ID:**	*8-R*
W Order:	0903097			**Collection Date:**	03/16/09 18:10
Matrix:	GROUNDWATER			**Date Received:**	03/17/09 10:16
Inst. ID:	pH meter	**Sample Size:**	NA	**PrepDate:**	
ColumnID:		**%Moisture:**		**BatchNo:**	R16700
Revision:	03/18/09 9:43	**TestCode:**	ALKT 2320B	**FileID:**	1-SAMP-
Col Type:					

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ALKALINITY, AS CACO3					**SM 18-20 2320 B**		
Alkalinity, as CaCO3	480		10	10	mg/L	1	03/17/09

Qualifiers:					
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 434359 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-005C**
Project:	Ramapo	**Client Sample ID:**	*8-R*
W Order:	0903097	**Collection Date:**	03/16/09 18:10
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	FIMS 100 **Sample Size:** 50 mL	**PrepDate:**	03/19/09 0:00
ColumnID:	**%Moisture:**	**BatchNo:**	9141/R16742
Revision:	03/20/09 15:31 **TestCode:** HG7470W	**FileID:**	1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY					**SW7470A**		**(SW7470A)**
Mercury	ND		0.00020	0.000050	mg/L	1	03/20/09 11:57

Qualifiers:					
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 435039 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-005C**
Project:	Ramapo	**Client Sample ID:**	*8-R*
W Order:	0903097	**Collection Date:**	03/16/09 18:10
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	Buret Type A	**Sample Size:** NA	**PrepDate:**
ColumnID:		**%Moisture:**	**BatchNo:** R16791
Revision:	04/03/09 14:18	**TestCode:** HARD2340C	**FileID:** 1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
HARDNESS-TOTAL, AS CACO3					**SM 18-20 2340 C**		
Hardness-Total, as CaCO3	560		10	10	mg/L	1	03/26/09

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 435765 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-005C**
Project:	Ramapo	**Client Sample ID:**	*8-R*
W Order:	0903097	**Collection Date:**	03/16/09 18:10
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	ICAP 61E	**Sample Size:** 50 mL	**PrepDate:** 03/18/09 0:00
ColumnID:		**%Moisture:**	**BatchNo:** 9136/R16868
Revision:	04/06/09 11:41	**TestCode:** 6010W05	**FileID:** 1-SAMP-102817
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP					**SW6010B**		**(SW3005A)**
Aluminum	ND		0.10	0.060	mg/L	1	04/03/09 11:47
Antimony	ND		0.060	0.0030	mg/L	1	04/03/09 11:47
Arsenic	ND		0.010	0.0040	mg/L	1	04/03/09 11:47
Barium	0.016	J	0.10	0.0020	mg/L	1	04/03/09 11:47
Beryllium	ND		0.0030	0.00020	mg/L	1	04/03/09 11:47
Cadmium	ND		0.0050	0.0010	mg/L	1	04/03/09 11:47
Calcium	160		1.0	0.040	mg/L	1	04/03/09 11:47
Chromium	0.011		0.010	0.0028	mg/L	1	04/03/09 11:47
Cobalt	0.0067	J	0.050	0.0060	mg/L	1	04/03/09 11:47
Copper	0.0050	J	0.010	0.0028	mg/L	1	04/03/09 11:47
Iron	1.3		0.050	0.010	mg/L	1	04/03/09 11:47
Lead	ND		0.010	0.0040	mg/L	1	04/03/09 11:47
Magnesium	40		1.0	0.040	mg/L	1	04/03/09 11:47
Manganese	1.9		0.050	0.0015	mg/L	1	04/03/09 11:47
Nickel	0.015	J	0.050	0.0020	mg/L	1	04/03/09 11:47
Potassium	4.4	J	5.0	0.20	mg/L	1	04/03/09 11:47
Selenium	ND		0.010	0.0050	mg/L	1	04/03/09 11:47
Silver	ND		0.010	0.0020	mg/L	1	04/03/09 11:47
Sodium	42		1.0	0.040	mg/L	1	04/03/09 11:47
Thallium	ND		0.020	0.010	mg/L	1	04/03/09 11:47
Vanadium	ND		0.050	0.0020	mg/L	1	04/03/09 11:47
Zinc	ND		0.020	0.0040	mg/L	1	04/03/09 11:47

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 437069 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-005D**
Project:	Ramapo	**Client Sample ID:**	*8-R*
W Order:	0903097	**Collection Date:**	03/16/09 18:10
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	MS02_12	**Sample Size:** 25 mL	**PrepDate:**
ColumnID:	Rtx-502.2	**%Moisture:**	**BatchNo:** R16752
Revision:	03/24/09 9:07	**TestCode:** 8260W	**FileID:** 1-SAMP-M5912.D
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					**SW8260B**		
1,1-Dichloroethane	0.11	J	0.50	0.10	µg/L	1	03/23/09 15:35
Benzene	ND		0.50	0.10	µg/L	1	03/23/09 15:35
Chlorobenzene	ND		0.50	0.10	µg/L	1	03/23/09 15:35
Vinyl chloride	ND		1.00	0.33	µg/L	1	03/23/09 15:35
Surr: 1,2-Dichloroethane-d4	110		75-134	0.16	%REC	1	03/23/09 15:35
Surr: 4-Bromofluorobenzene	98		75-125	0.10	%REC	1	03/23/09 15:35
Surr: Toluene-d8	111		75-125	0.10	%REC	1	03/23/09 15:35

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 435194 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-006A**
Project:	Ramapo	**Client Sample ID:**	*8-OS*
W Order:	0903097	**Collection Date:**	03/16/09 17:50
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	GENESYS 20 **Sample Size:** NA	**PrepDate:**	
ColumnID:	**%Moisture:**	**BatchNo:**	R16725
Revision:	03/19/09 11:27 **TestCode:** COD410.4	**FileID:**	1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
COD					**EPA 410.4**		
Chemical Oxygen Demand	55		10	3.6	mg/L	1	03/19/09 11:55

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 434748 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-006A**
Project:	Ramapo	**Client Sample ID:**	*8-OS*
W Order:	0903097	**Collection Date:**	03/16/09 17:50
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	AA3 **Sample Size:** 20 mL	**PrepDate:**	03/18/09 0:00
ColumnID:	**%Moisture:**	**BatchNo:**	9133/R16714
Revision:	03/18/09 14:58 **TestCode:** TKN351.2	**FileID:**	1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
KJELDAHL NITROGEN - TOTAL (AS N)					**EPA 351.2**		**(E351.2)**
Kjeldahl Nitrogen - Total (as N)	0.12	J	0.20	0.056	mg/L	1	03/18/09 13:12

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 434632 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-006B**
Project:	Ramapo	**Client Sample ID:**	*8-OS*
W Order:	0903097	**Collection Date:**	03/16/09 17:50
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	pH meter	**Sample Size:** NA	**PrepDate:**
ColumnID:		**%Moisture:**	**BatchNo:** R16700
Revision:	03/18/09 9:43	**TestCode:** ALKT 2320B	**FileID:** 1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ALKALINITY, AS CACO3					**SM 18-20 2320 B**		
Alkalinity, as CaCO3	66		10	10	mg/L	1	03/17/09

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 434360 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
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East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-006C**
Project:	Ramapo	**Client Sample ID:**	*8-OS*
W Order:	0903097	**Collection Date:**	03/16/09 17:50
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	FIMS 100	**Sample Size:** 50 mL	**PrepDate:** 03/19/09 0:00
ColumnID:		**%Moisture:**	**BatchNo:** 9141/R16742
Revision:	03/20/09 15:31	**TestCode:** HG7470W	**FileID:** 1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY					**SW7470A**		**(SW7470A)**
Mercury	ND		0.00020	0.000050	mg/L	1	03/20/09 11:59

Qualifiers:					
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 435040 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-006C**
Project:	Ramapo	**Client Sample ID:**	*8-OS*
W Order:	0903097	**Collection Date:**	03/16/09 17:50
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	Buret Type A	**Sample Size:** NA	**PrepDate:**
ColumnID:		**%Moisture:**	**BatchNo:** R16791
Revision:	04/03/09 14:18	**TestCode:** HARD2340C	**FileID:** 1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
HARDNESS-TOTAL, AS CACO3					**SM 18-20 2340 C**		
Hardness-Total, as CaCO3	140		10	10	mg/L	1	03/26/09

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 435767 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-006C**
Project:	Ramapo	**Client Sample ID:**	*8-OS*
W Order:	0903097	**Collection Date:**	03/16/09 17:50
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	ICAP 61E	**Sample Size:** 50 mL	**PrepDate:** 03/18/09 0:00
ColumnID:		**%Moisture:**	**BatchNo:** 9136/R16868
Revision:	04/06/09 11:41	**TestCode:** 6010W05	**FileID:** 1-SAMP-102818
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP					**SW6010B**		**(SW3005A)**
Aluminum	ND		0.10	0.060	mg/L	1	04/03/09 11:51
Antimony	ND		0.060	0.0030	mg/L	1	04/03/09 11:51
Arsenic	ND		0.010	0.0040	mg/L	1	04/03/09 11:51
Barium	0.013	J	0.10	0.0020	mg/L	1	04/03/09 11:51
Beryllium	ND		0.0030	0.00020	mg/L	1	04/03/09 11:51
Cadmium	ND		0.0050	0.0010	mg/L	1	04/03/09 11:51
Calcium	41		1.0	0.040	mg/L	1	04/03/09 11:51
Chromium	0.68		0.010	0.0028	mg/L	1	04/03/09 11:51
Cobalt	ND		0.050	0.0060	mg/L	1	04/03/09 11:51
Copper	0.011		0.010	0.0028	mg/L	1	04/03/09 11:51
Iron	3.8		0.050	0.010	mg/L	1	04/03/09 11:51
Lead	ND		0.010	0.0040	mg/L	1	04/03/09 11:51
Magnesium	9.1		1.0	0.040	mg/L	1	04/03/09 11:51
Manganese	0.61		0.050	0.0015	mg/L	1	04/03/09 11:51
Nickel	0.017	J	0.050	0.0020	mg/L	1	04/03/09 11:51
Potassium	1.9	J	5.0	0.20	mg/L	1	04/03/09 11:51
Selenium	ND		0.010	0.0050	mg/L	1	04/03/09 11:51
Silver	ND		0.010	0.0020	mg/L	1	04/03/09 11:51
Sodium	41		1.0	0.040	mg/L	1	04/03/09 11:51
Thallium	ND		0.020	0.010	mg/L	1	04/03/09 11:51
Vanadium	0.0030	J	0.050	0.0020	mg/L	1	04/03/09 11:51
Zinc	0.0054	J	0.020	0.0040	mg/L	1	04/03/09 11:51

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 437070 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.

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East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-006D**
Project:	Ramapo	**Client Sample ID:**	*8-OS*
W Order:	0903097	**Collection Date:**	03/16/09 17:50
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	MS02_12 **Sample Size:** 25 mL	**PrepDate:**	
ColumnID:	Rtx-502.2 **%Moisture:**	**BatchNo:**	R16752
Revision:	03/24/09 9:07 **TestCode:** 8260W	**FileID:**	1-SAMP-M5913.D
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					**SW8260B**		
1,1-Dichloroethane	ND		0.50	0.10	µg/L	1	03/23/09 16:16
Benzene	ND		0.50	0.10	µg/L	1	03/23/09 16:16
Chlorobenzene	ND		0.50	0.10	µg/L	1	03/23/09 16:16
Vinyl chloride	ND		1.00	0.33	µg/L	1	03/23/09 16:16
Surr: 1,2-Dichloroethane-d4	108		75-134	0.16	%REC	1	03/23/09 16:16
Surr: 4-Bromofluorobenzene	100		75-125	0.10	%REC	1	03/23/09 16:16
Surr: Toluene-d8	108		75-125	0.10	%REC	1	03/23/09 16:16

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 435195 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-007A**
Project:	Ramapo	**Client Sample ID:**	*7-OS*
W Order:	0903097	**Collection Date:**	03/16/09 14:15
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	AA3 **Sample Size:** 20 mL	**PrepDate:**	03/18/09 0:00
ColumnID:	**%Moisture:**	**BatchNo:**	9133/R16714
Revision:	03/18/09 14:58 **TestCode:** TKN351.2	**FileID:**	1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
KJELDAHL NITROGEN - TOTAL (AS N)					**EPA 351.2**		**(E351.2)**
Kjeldahl Nitrogen - Total (as N)	0.27		0.20	0.056	mg/L	1	03/18/09 13:12

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 434633 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-007A**
Project:	Ramapo	**Client Sample ID:**	*7-OS*
W Order:	0903097	**Collection Date:**	03/16/09 14:15
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	GENESYS 20 **Sample Size:** NA	**PrepDate:**	
ColumnID:	**%Moisture:**	**BatchNo:**	R16725
Revision:	03/19/09 11:27 **TestCode:** COD410.4	**FileID:**	1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
COD					**EPA 410.4**		
Chemical Oxygen Demand	6.0	J	10	3.6	mg/L	1	03/19/09 11:55

Qualifiers:					
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 434749 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-007B**
Project:	Ramapo	**Client Sample ID:**	*7-OS*
W Order:	0903097	**Collection Date:**	03/16/09 14:15
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	pH meter	**Sample Size:** NA	**PrepDate:**
ColumnID:		**%Moisture:**	**BatchNo:** R16700
Revision:	03/18/09 9:43	**TestCode:** ALKT 2320B	**FileID:** 1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ALKALINITY, AS CACO3					**SM 18-20 2320 B**		
Alkalinity, as CaCO3	98		10	10	mg/L	1	03/17/09

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 434361 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-007C**
Project:	Ramapo	**Client Sample ID:**	*7-OS*
W Order:	0903097	**Collection Date:**	03/16/09 14:15
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	Buret Type A	**Sample Size:** NA	**PrepDate:**
ColumnID:		**%Moisture:**	**BatchNo:** R16791
Revision:	04/03/09 14:18	**TestCode:** HARD2340C	**FileID:** 1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
HARDNESS-TOTAL, AS CACO3					**SM 18-20 2340 C**		
Hardness-Total, as CaCO3	170		10	10	mg/L	1	03/26/09

Qualifiers:					
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 435768 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-007C**
Project:	Ramapo	**Client Sample ID:**	*7-OS*
W Order:	0903097	**Collection Date:**	03/16/09 14:15
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	ICAP 61E	**Sample Size:** 50 mL	**PrepDate:** 03/18/09 0:00
ColumnID:		**%Moisture:**	**BatchNo:** 9136/R16868
Revision:	04/06/09 11:41	**TestCode:** 6010W05	**FileID:** 1-SAMP-102819
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP					**SW6010B**		**(SW3005A)**
Aluminum	4.0		0.10	0.060	mg/L	1	04/03/09 11:55
Antimony	ND		0.060	0.0030	mg/L	1	04/03/09 11:55
Arsenic	ND		0.010	0.0040	mg/L	1	04/03/09 11:55
Barium	0.049	J	0.10	0.0020	mg/L	1	04/03/09 11:55
Beryllium	0.00024	J	0.0030	0.00020	mg/L	1	04/03/09 11:55
Cadmium	ND		0.0050	0.0010	mg/L	1	04/03/09 11:55
Calcium	49		1.0	0.040	mg/L	1	04/03/09 11:55
Chromium	0.061		0.010	0.0028	mg/L	1	04/03/09 11:55
Cobalt	0.0074	J	0.050	0.0060	mg/L	1	04/03/09 11:55
Copper	0.010		0.010	0.0028	mg/L	1	04/03/09 11:55
Iron	5.8		0.050	0.010	mg/L	1	04/03/09 11:55
Lead	ND		0.010	0.0040	mg/L	1	04/03/09 11:55
Magnesium	12		1.0	0.040	mg/L	1	04/03/09 11:55
Manganese	0.45		0.050	0.0015	mg/L	1	04/03/09 11:55
Nickel	0.011	J	0.050	0.0020	mg/L	1	04/03/09 11:55
Potassium	4.6	J	5.0	0.20	mg/L	1	04/03/09 11:55
Selenium	ND		0.010	0.0050	mg/L	1	04/03/09 11:55
Silver	ND		0.010	0.0020	mg/L	1	04/03/09 11:55
Sodium	9.7		1.0	0.040	mg/L	1	04/03/09 11:55
Thallium	ND		0.020	0.010	mg/L	1	04/03/09 11:55
Vanadium	0.0083	J	0.050	0.0020	mg/L	1	04/03/09 11:55
Zinc	0.013	J	0.020	0.0040	mg/L	1	04/03/09 11:55

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 437071 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-007C**
Project:	Ramapo	**Client Sample ID:**	*7-OS*
W Order:	0903097	**Collection Date:**	03/16/09 14:15
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	FIMS 100 **Sample Size:** 50 mL	**PrepDate:**	03/19/09 0:00
ColumnID:	**%Moisture:**	**BatchNo:**	9141/R16742
Revision:	03/20/09 15:31 **TestCode:** HG7470W	**FileID:**	1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY					**SW7470A**		**(SW7470A)**
Mercury	ND		0.00020	0.000050	mg/L	1	03/20/09 12:01

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 435041 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-007D**
Project:	Ramapo	**Client Sample ID:**	*7-OS*
W Order:	0903097	**Collection Date:**	03/16/09 14:15
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	MS02_12 **Sample Size:** 25 mL	**PrepDate:**	
ColumnID:	Rtx-502.2 **%Moisture:**	**BatchNo:**	R16752
Revision:	03/24/09 9:07 **TestCode:** 8260W	**FileID:**	1-SAMP-M5911.D
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					**SW8260B**		
1,1-Dichloroethane	ND		0.50	0.10	µg/L	1	03/23/09 14:54
Benzene	ND		0.50	0.10	µg/L	1	03/23/09 14:54
Chlorobenzene	ND		0.50	0.10	µg/L	1	03/23/09 14:54
Vinyl chloride	ND		1.00	0.33	µg/L	1	03/23/09 14:54
Surr: 1,2-Dichloroethane-d4	111		75-134	0.16	%REC	1	03/23/09 14:54
Surr: 4-Bromofluorobenzene	101		75-125	0.10	%REC	1	03/23/09 14:54
Surr: Toluene-d8	108		75-125	0.10	%REC	1	03/23/09 14:54

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 435193 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-008A**
Project:	Ramapo	**Client Sample ID:**	*DUP-3/09*
W Order:	0903097	**Collection Date:**	03/16/09 14:30
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	AA3 **Sample Size:** 20 mL	**PrepDate:**	03/18/09 0:00
ColumnID:	**%Moisture:**	**BatchNo:**	9133/R16714
Revision:	03/18/09 14:58 **TestCode:** TKN351.2	**FileID:**	1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
KJELDAHL NITROGEN - TOTAL (AS N)					**EPA 351.2**		**(E351.2)**
Kjeldahl Nitrogen - Total (as N)	0.22		0.20	0.056	mg/L	1	03/18/09 13:12

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 434638 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-008A**
Project:	Ramapo	**Client Sample ID:**	*DUP-3/09*
W Order:	0903097	**Collection Date:**	03/16/09 14:30
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	GENESYS 20 **Sample Size:** NA	**PrepDate:**	
ColumnID:	**%Moisture:**	**BatchNo:**	R16725
Revision:	03/19/09 11:27 **TestCode:** COD410.4	**FileID:**	1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
COD					**EPA 410.4**		
Chemical Oxygen Demand	ND		10	3.6	mg/L	1	03/19/09 11:57

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 434754 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-008B**
Project:	Ramapo	**Client Sample ID:**	*DUP-3/09*
W Order:	0903097	**Collection Date:**	03/16/09 14:30
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	pH meter	**Sample Size:** NA	**PrepDate:**
ColumnID:		**%Moisture:**	**BatchNo:** R16700
Revision:	03/18/09 9:43	**TestCode:** ALKT 2320B	**FileID:** 1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ALKALINITY, AS CACO3					**SM 18-20 2320 B**		
Alkalinity, as CaCO3	100		10	10	mg/L	1	03/17/09

Qualifiers:					
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 434363 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-008C**
Project:	Ramapo	**Client Sample ID:**	*DUP-3/09*
W Order:	0903097	**Collection Date:**	03/16/09 14:30
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	FIMS 100	**Sample Size:** 50 mL	**PrepDate:** 03/19/09 0:00
ColumnID:		**%Moisture:**	**BatchNo:** 9141/R16742
Revision:	03/20/09 15:31	**TestCode:** HG7470W	**FileID:** 1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY					**SW7470A**		**(SW7470A)**
Mercury	ND		0.00020	0.000050	mg/L	1	03/20/09 12:12

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 435046 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-008C**
Project:	Ramapo	**Client Sample ID:**	*DUP-3/09*
W Order:	0903097	**Collection Date:**	03/16/09 14:30
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	Buret Type A	**Sample Size:** NA	**PrepDate:**
ColumnID:		**%Moisture:**	**BatchNo:** R16791
Revision:	04/03/09 14:18	**TestCode:** HARD2340C	**FileID:** 1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
HARDNESS-TOTAL, AS CACO3					**SM 18-20 2340 C**		
Hardness-Total, as CaCO3	160		10	10	mg/L	1	03/26/09

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 435769 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-008C**
Project:	Ramapo	**Client Sample ID:**	*DUP-3/09*
W Order:	0903097	**Collection Date:**	03/16/09 14:30
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	ICAP 61E	**Sample Size:** 50 mL	**PrepDate:** 03/18/09 0:00
ColumnID:		**%Moisture:**	**BatchNo:** 9136/R16868
Revision:	04/06/09 11:41	**TestCode:** 6010W05	**FileID:** 1-SAMP-102824
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP					**SW6010B**		**(SW3005A)**
Aluminum	2.6		0.10	0.060	mg/L	1	04/03/09 12:14
Antimony	ND		0.060	0.0030	mg/L	1	04/03/09 12:14
Arsenic	ND		0.010	0.0040	mg/L	1	04/03/09 12:14
Barium	0.039	J	0.10	0.0020	mg/L	1	04/03/09 12:14
Beryllium	0.00020	J	0.0030	0.00020	mg/L	1	04/03/09 12:14
Cadmium	ND		0.0050	0.0010	mg/L	1	04/03/09 12:14
Calcium	48		1.0	0.040	mg/L	1	04/03/09 12:14
Chromium	0.051		0.010	0.0028	mg/L	1	04/03/09 12:14
Cobalt	ND		0.050	0.0060	mg/L	1	04/03/09 12:14
Copper	0.0072	J	0.010	0.0028	mg/L	1	04/03/09 12:14
Iron	3.7		0.050	0.010	mg/L	1	04/03/09 12:14
Lead	ND		0.010	0.0040	mg/L	1	04/03/09 12:14
Magnesium	11		1.0	0.040	mg/L	1	04/03/09 12:14
Manganese	0.33		0.050	0.0015	mg/L	1	04/03/09 12:14
Nickel	0.0076	J	0.050	0.0020	mg/L	1	04/03/09 12:14
Potassium	4.4	J	5.0	0.20	mg/L	1	04/03/09 12:14
Selenium	ND		0.010	0.0050	mg/L	1	04/03/09 12:14
Silver	ND		0.010	0.0020	mg/L	1	04/03/09 12:14
Sodium	9.6		1.0	0.040	mg/L	1	04/03/09 12:14
Thallium	ND		0.020	0.010	mg/L	1	04/03/09 12:14
Vanadium	0.0054	J	0.050	0.0020	mg/L	1	04/03/09 12:14
Zinc	0.0083	J	0.020	0.0040	mg/L	1	04/03/09 12:14

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 437076 **Project Supervisor:** Anthony Crescenzi

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Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-008D**
Project:	Ramapo	**Client Sample ID:**	*DUP-3/09*
W Order:	0903097	**Collection Date:**	03/16/09 14:30
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	MS02_12 **Sample Size:** 25 mL	**PrepDate:**	
ColumnID:	Rtx-502.2 **%Moisture:**	**BatchNo:**	R16752
Revision:	03/24/09 9:07 **TestCode:** 8260W	**FileID:**	1-SAMP-M5914.D
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					**SW8260B**		
1,1-Dichloroethane	ND		0.50	0.10	µg/L	1	03/23/09 16:57
Benzene	ND		0.50	0.10	µg/L	1	03/23/09 16:57
Chlorobenzene	ND		0.50	0.10	µg/L	1	03/23/09 16:57
Vinyl chloride	ND		1.00	0.33	µg/L	1	03/23/09 16:57
Surr: 1,2-Dichloroethane-d4	109		75-134	0.16	%REC	1	03/23/09 16:57
Surr: 4-Bromofluorobenzene	101		75-125	0.10	%REC	1	03/23/09 16:57
Surr: Toluene-d8	108		75-125	0.10	%REC	1	03/23/09 16:57

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

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Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-009A**
Project:	Ramapo	**Client Sample ID:**	*PW-1*
W Order:	0903097	**Collection Date:**	03/16/09 13:15
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	AA3 **Sample Size:** 20 mL	**PrepDate:**	03/18/09 0:00
ColumnID:	**%Moisture:**	**BatchNo:**	9133/R16714
Revision:	03/18/09 14:58 **TestCode:** TKN351.2	**FileID:**	1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
KJELDAHL NITROGEN - TOTAL (AS N)					**EPA 351.2**		**(E351.2)**
Kjeldahl Nitrogen - Total (as N)	ND		0.20	0.056	mg/L	1	03/18/09 13:12

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 434639 **Project Supervisor:** Anthony Crescenzi

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Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-009A**
Project:	Ramapo	**Client Sample ID:**	*PW-1*
W Order:	0903097	**Collection Date:**	03/16/09 13:15
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	GENESYS 20 **Sample Size:** NA	**PrepDate:**	
ColumnID:	**%Moisture:**	**BatchNo:**	R16725
Revision:	03/19/09 11:27 **TestCode:** COD410.4	**FileID:**	1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
COD					**EPA 410.4**		
Chemical Oxygen Demand	ND		10	3.6	mg/L	1	03/19/09 11:58

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 434755 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-009B**
Project:	Ramapo	**Client Sample ID:**	*PW-1*
W Order:	0903097	**Collection Date:**	03/16/09 13:15
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	pH meter	**Sample Size:** NA	**PrepDate:**
ColumnID:		**%Moisture:**	**BatchNo:** R16700
Revision:	03/18/09 9:43	**TestCode:** ALKT 2320B	**FileID:** 1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ALKALINITY, AS CACO3					**SM 18-20 2320 B**		
Alkalinity, as CaCO3	18		10	10	mg/L	1	03/17/09

Qualifiers:					
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 434364 **Project Supervisor:** Anthony Crescenzi

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Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-009C**
Project:	Ramapo	**Client Sample ID:**	*PW-1*
W Order:	0903097	**Collection Date:**	03/16/09 13:15
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	FIMS 100 **Sample Size:** 50 mL	**PrepDate:**	03/19/09 0:00
ColumnID:	**%Moisture:**	**BatchNo:**	9141/R16742
Revision:	03/20/09 15:31 **TestCode:** HG7470W	**FileID:**	1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY					**SW7470A**		**(SW7470A)**
Mercury	ND		0.00020	0.000050	mg/L	1	03/20/09 12:14

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 435047 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.			**Lab ID:**	**0903097-009C**
Project:	Ramapo			**Client Sample ID:**	*PW-1*
W Order:	0903097			**Collection Date:**	03/16/09 13:15
Matrix:	GROUNDWATER			**Date Received:**	03/17/09 10:16
Inst. ID:	Buret Type A	**Sample Size:**	NA	**PrepDate:**	
ColumnID:		**%Moisture:**		**BatchNo:**	R16791
Revision:	04/03/09 14:18	**TestCode:**	HARD2340C	**FileID:**	1-SAMP-
Col Type:					

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
HARDNESS-TOTAL, AS CACO3					**SM 18-20 2340 C**		
Hardness-Total, as CaCO3	40		10	10	mg/L	1	03/26/09

Qualifiers:					
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 435770 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-009C**
Project:	Ramapo	**Client Sample ID:**	*PW-1*
W Order:	0903097	**Collection Date:**	03/16/09 13:15
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	ICAP 61E	**Sample Size:** 50 mL	**PrepDate:** 03/18/09 0:00
ColumnID:		**%Moisture:**	**BatchNo:** 9136/R16868
Revision:	04/06/09 11:41	**TestCode:** 6010W05	**FileID:** 1-SAMP-102825
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP					**SW6010B**		**(SW3005A)**
Aluminum	ND		0.10	0.060	mg/L	1	04/03/09 12:18
Antimony	ND		0.060	0.0030	mg/L	1	04/03/09 12:18
Arsenic	ND		0.010	0.0040	mg/L	1	04/03/09 12:18
Barium	0.0059	J	0.10	0.0020	mg/L	1	04/03/09 12:18
Beryllium	ND		0.0030	0.00020	mg/L	1	04/03/09 12:18
Cadmium	ND		0.0050	0.0010	mg/L	1	04/03/09 12:18
Calcium	10		1.0	0.040	mg/L	1	04/03/09 12:18
Chromium	ND		0.010	0.0028	mg/L	1	04/03/09 12:18
Cobalt	ND		0.050	0.0060	mg/L	1	04/03/09 12:18
Copper	0.10		0.010	0.0028	mg/L	1	04/03/09 12:18
Iron	0.012	J	0.050	0.010	mg/L	1	04/03/09 12:18
Lead	ND		0.010	0.0040	mg/L	1	04/03/09 12:18
Magnesium	2.8		1.0	0.040	mg/L	1	04/03/09 12:18
Manganese	ND		0.050	0.0015	mg/L	1	04/03/09 12:18
Nickel	ND		0.050	0.0020	mg/L	1	04/03/09 12:18
Potassium	0.88	J	5.0	0.20	mg/L	1	04/03/09 12:18
Selenium	ND		0.010	0.0050	mg/L	1	04/03/09 12:18
Silver	ND		0.010	0.0020	mg/L	1	04/03/09 12:18
Sodium	12		1.0	0.040	mg/L	1	04/03/09 12:18
Thallium	ND		0.020	0.010	mg/L	1	04/03/09 12:18
Vanadium	ND		0.050	0.0020	mg/L	1	04/03/09 12:18
Zinc	0.022		0.020	0.0040	mg/L	1	04/03/09 12:18

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 437077 **Project Supervisor:** Anthony Crescenzi

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5000 Brittonfield Parkway, Suite 200
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Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-009D**
Project:	Ramapo	**Client Sample ID:**	*PW-1*
W Order:	0903097	**Collection Date:**	03/16/09 13:15
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	MS02_12 **Sample Size:** 25 mL	**PrepDate:**	
ColumnID:	Rtx-502.2 **%Moisture:**	**BatchNo:**	R16752
Revision:	03/24/09 9:07 **TestCode:** 8260W	**FileID:**	1-SAMP-M5915.D
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					**SW8260B**		
1,1-Dichloroethane	ND		0.50	0.10	µg/L	1	03/23/09 17:38
Benzene	ND		0.50	0.10	µg/L	1	03/23/09 17:38
Chlorobenzene	ND		0.50	0.10	µg/L	1	03/23/09 17:38
Vinyl chloride	ND		1.00	0.33	µg/L	1	03/23/09 17:38
Surr: 1,2-Dichloroethane-d4	110		75-134	0.16	%REC	1	03/23/09 17:38
Surr: 4-Bromofluorobenzene	102		75-125	0.10	%REC	1	03/23/09 17:38
Surr: Toluene-d8	107		75-125	0.10	%REC	1	03/23/09 17:38

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 435197 **Project Supervisor:** Anthony Crescenzi

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5000 Brittonfield Parkway, Suite 200
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Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-010A**
Project:	Ramapo	**Client Sample ID:**	*PW-2*
W Order:	0903097	**Collection Date:**	03/16/09 13:30
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	AA3	**Sample Size:** 20 mL	**PrepDate:** 03/18/09 0:00
ColumnID:		**%Moisture:**	**BatchNo:** 9133/R16714
Revision:	03/18/09 14:58	**TestCode:** TKN351.2	**FileID:** 1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
KJELDAHL NITROGEN - TOTAL (AS N)					**EPA 351.2**		**(E351.2)**
Kjeldahl Nitrogen - Total (as N)	ND		0.20	0.056	mg/L	1	03/18/09 13:12

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 434640 **Project Supervisor:** Anthony Crescenzi

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Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-010A**
Project:	Ramapo	**Client Sample ID:**	*PW-2*
W Order:	0903097	**Collection Date:**	03/16/09 13:30
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	GENESYS 20	**Sample Size:** NA	**PrepDate:**
ColumnID:		**%Moisture:**	**BatchNo:** R16725
Revision:	03/19/09 11:27	**TestCode:** COD410.4	**FileID:** 1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
COD					**EPA 410.4**		
Chemical Oxygen Demand	ND		10	3.6	mg/L	1	03/19/09 11:58

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 434756 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-010B**
Project:	Ramapo	**Client Sample ID:**	*PW-2*
W Order:	0903097	**Collection Date:**	03/16/09 13:30
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	pH meter	**Sample Size:** NA	**PrepDate:**
ColumnID:		**%Moisture:**	**BatchNo:** R16700
Revision:	03/18/09 9:43	**TestCode:** ALKT 2320B	**FileID:** 1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ALKALINITY, AS CACO3					**SM 18-20 2320 B**		
Alkalinity, as CaCO3	46		10	10	mg/L	1	03/17/09

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 434365 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
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Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-010C**
Project:	Ramapo	**Client Sample ID:**	*PW-2*
W Order:	0903097	**Collection Date:**	03/16/09 13:30
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	FIMS 100 **Sample Size:** 50 mL	**PrepDate:**	03/19/09 0:00
ColumnID:	**%Moisture:**	**BatchNo:**	9141/R16742
Revision:	03/20/09 15:31 **TestCode:** HG7470W	**FileID:**	1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY					**SW7470A**		**(SW7470A)**
Mercury	ND		0.00020	0.000050	mg/L	1	03/20/09 12:16

Qualifiers:					
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 435048 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-010C**
Project:	Ramapo	**Client Sample ID:**	*PW-2*
W Order:	0903097	**Collection Date:**	03/16/09 13:30
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	Buret Type A	**Sample Size:** NA	**PrepDate:**
ColumnID:		**%Moisture:**	**BatchNo:** R16791
Revision:	04/03/09 14:18	**TestCode:** HARD2340C	**FileID:** 1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
HARDNESS-TOTAL, AS CACO3					**SM 18-20 2340 C**		
Hardness-Total, as CaCO3	60		10	10	mg/L	1	03/26/09

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 435771 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-010C**
Project:	Ramapo	**Client Sample ID:**	*PW-2*
W Order:	0903097	**Collection Date:**	03/16/09 13:30
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	ICAP 61E	**Sample Size:** 50 mL	**PrepDate:** 03/18/09 0:00
ColumnID:		**%Moisture:**	**BatchNo:** 9136/R16868
Revision:	04/06/09 11:41	**TestCode:** 6010W05	**FileID:** 1-SAMP-102826
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP					**SW6010B**		**(SW3005A)**
Aluminum	ND		0.10	0.060	mg/L	1	04/03/09 12:22
Antimony	ND		0.060	0.0030	mg/L	1	04/03/09 12:22
Arsenic	ND		0.010	0.0040	mg/L	1	04/03/09 12:22
Barium	0.0026	J	0.10	0.0020	mg/L	1	04/03/09 12:22
Beryllium	ND		0.0030	0.00020	mg/L	1	04/03/09 12:22
Cadmium	ND		0.0050	0.0010	mg/L	1	04/03/09 12:22
Calcium	25		1.0	0.040	mg/L	1	04/03/09 12:22
Chromium	ND		0.010	0.0028	mg/L	1	04/03/09 12:22
Cobalt	ND		0.050	0.0060	mg/L	1	04/03/09 12:22
Copper	0.061		0.010	0.0028	mg/L	1	04/03/09 12:22
Iron	0.14		0.050	0.010	mg/L	1	04/03/09 12:22
Lead	ND		0.010	0.0040	mg/L	1	04/03/09 12:22
Magnesium	2.9		1.0	0.040	mg/L	1	04/03/09 12:22
Manganese	0.0018	J	0.050	0.0015	mg/L	1	04/03/09 12:22
Nickel	ND		0.050	0.0020	mg/L	1	04/03/09 12:22
Potassium	0.96	J	5.0	0.20	mg/L	1	04/03/09 12:22
Selenium	ND		0.010	0.0050	mg/L	1	04/03/09 12:22
Silver	ND		0.010	0.0020	mg/L	1	04/03/09 12:22
Sodium	7.4		1.0	0.040	mg/L	1	04/03/09 12:22
Thallium	ND		0.020	0.010	mg/L	1	04/03/09 12:22
Vanadium	ND		0.050	0.0020	mg/L	1	04/03/09 12:22
Zinc	0.047		0.020	0.0040	mg/L	1	04/03/09 12:22

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 437078 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
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Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-010D**
Project:	Ramapo	**Client Sample ID:**	*PW-2*
W Order:	0903097	**Collection Date:**	03/16/09 13:30
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	MS02_12 **Sample Size:** 25 mL	**PrepDate:**	
ColumnID:	Rtx-502.2 **%Moisture:**	**BatchNo:**	R16752
Revision:	03/24/09 9:07 **TestCode:** 8260W	**FileID:**	1-SAMP-M5916.D
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					**SW8260B**		
1,1-Dichloroethane	ND		0.50	0.10	µg/L	1	03/23/09 18:19
Benzene	ND		0.50	0.10	µg/L	1	03/23/09 18:19
Chlorobenzene	ND		0.50	0.10	µg/L	1	03/23/09 18:19
Vinyl chloride	ND		1.00	0.33	µg/L	1	03/23/09 18:19
Surr: 1,2-Dichloroethane-d4	111		75-134	0.16	%REC	1	03/23/09 18:19
Surr: 4-Bromofluorobenzene	104		75-125	0.10	%REC	1	03/23/09 18:19
Surr: Toluene-d8	106		75-125	0.10	%REC	1	03/23/09 18:19

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 435198 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-011A**
Project:	Ramapo	**Client Sample ID:**	*5-OS*
W Order:	0903097	**Collection Date:**	03/16/09 15:50
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	AA3 **Sample Size:** 20 mL	**PrepDate:**	03/18/09 0:00
ColumnID:	**%Moisture:**	**BatchNo:**	9133/R16714
Revision:	03/18/09 14:58 **TestCode:** TKN351.2	**FileID:**	1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
KJELDAHL NITROGEN - TOTAL (AS N)					**EPA 351.2**		**(E351.2)**
Kjeldahl Nitrogen - Total (as N)	0.34		0.20	0.056	mg/L	1	03/18/09 13:12

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 434641 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-011A**
Project:	Ramapo	**Client Sample ID:**	*5-OS*
W Order:	0903097	**Collection Date:**	03/16/09 15:50
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	GENESYS 20 **Sample Size:** NA	**PrepDate:**	
ColumnID:	**%Moisture:**	**BatchNo:**	R16725
Revision:	03/19/09 11:27 **TestCode:** COD410.4	**FileID:**	1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
COD					**EPA 410.4**		
Chemical Oxygen Demand	71		10	3.6	mg/L	1	03/19/09 11:59

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 434757 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-011B**
Project:	Ramapo	**Client Sample ID:**	*5-OS*
W Order:	0903097	**Collection Date:**	03/16/09 15:50
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	pH meter	**Sample Size:** NA	**PrepDate:**
ColumnID:		**%Moisture:**	**BatchNo:** R16700
Revision:	03/18/09 9:43	**TestCode:** ALKT 2320B	**FileID:** 1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ALKALINITY, AS CACO3					**SM 18-20 2320 B**		
Alkalinity, as CaCO3	22		10	10	mg/L	1	03/17/09

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 434366 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-011C**
Project:	Ramapo	**Client Sample ID:**	*5-OS*
W Order:	0903097	**Collection Date:**	03/16/09 15:50
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	FIMS 100 **Sample Size:** 50 mL	**PrepDate:**	03/19/09 0:00
ColumnID:	**%Moisture:**	**BatchNo:**	9141/R16742
Revision:	03/20/09 15:31 **TestCode:** HG7470W	**FileID:**	1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY					**SW7470A**		**(SW7470A)**
Mercury	ND		0.00020	0.000050	mg/L	1	03/20/09 12:18

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 435049 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-011C**
Project:	Ramapo	**Client Sample ID:**	*5-OS*
W Order:	0903097	**Collection Date:**	03/16/09 15:50
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	Buret Type A	**Sample Size:** NA	**PrepDate:**
ColumnID:		**%Moisture:**	**BatchNo:** R16791
Revision:	04/03/09 14:18	**TestCode:** HARD2340C	**FileID:** 1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
HARDNESS-TOTAL, AS CACO3					**SM 18-20 2340 C**		
Hardness-Total, as CaCO3	48		10	10	mg/L	1	03/26/09

Qualifiers:					
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 435772 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-011C**
Project:	Ramapo	**Client Sample ID:**	*5-OS*
W Order:	0903097	**Collection Date:**	03/16/09 15:50
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	ICAP 61E	**Sample Size:** 50 mL	**PrepDate:** 03/18/09 0:00
ColumnID:		**%Moisture:**	**BatchNo:** 9136/R16868
Revision:	04/06/09 11:41	**TestCode:** 6010W05	**FileID:** 1-SAMP-102830
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP					**SW6010B**		**(SW3005A)**
Aluminum	65		0.10	0.060	mg/L	1	04/03/09 12:38
Antimony	ND		0.060	0.0030	mg/L	1	04/03/09 12:38
Arsenic	0.0098	J	0.010	0.0040	mg/L	1	04/03/09 12:38
Barium	0.29		0.10	0.0020	mg/L	1	04/03/09 12:38
Beryllium	0.0032		0.0030	0.00020	mg/L	1	04/03/09 12:38
Cadmium	ND		0.0050	0.0010	mg/L	1	04/03/09 12:38
Calcium	21		1.0	0.040	mg/L	1	04/03/09 12:38
Chromium	0.17		0.010	0.0028	mg/L	1	04/03/09 12:38
Cobalt	0.046	J	0.050	0.0060	mg/L	1	04/03/09 12:38
Copper	0.11		0.010	0.0028	mg/L	1	04/03/09 12:38
Iron	110		0.050	0.010	mg/L	1	04/03/09 12:38
Lead	0.012		0.010	0.0040	mg/L	1	04/03/09 12:38
Magnesium	21		1.0	0.040	mg/L	1	04/03/09 12:38
Manganese	1.1		0.050	0.0015	mg/L	1	04/03/09 12:38
Nickel	0.089		0.050	0.0020	mg/L	1	04/03/09 12:38
Potassium	11		5.0	0.20	mg/L	1	04/03/09 12:38
Selenium	ND		0.010	0.0050	mg/L	1	04/03/09 12:38
Silver	ND		0.010	0.0020	mg/L	1	04/03/09 12:38
Sodium	8.1		1.0	0.040	mg/L	1	04/03/09 12:38
Thallium	ND		0.020	0.010	mg/L	1	04/03/09 12:38
Vanadium	0.17		0.050	0.0020	mg/L	1	04/03/09 12:38
Zinc	0.13		0.020	0.0040	mg/L	1	04/03/09 12:38

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 437083 **Project Supervisor:** Anthony Crescenzi

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5000 Brittonfield Parkway, Suite 200
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Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-011D**
Project:	Ramapo	**Client Sample ID:**	*5-OS*
W Order:	0903097	**Collection Date:**	03/16/09 15:50
Matrix:	GROUNDWATER	**Date Received:**	03/17/09 10:16
Inst. ID:	MS02_12 **Sample Size:** 25 mL	**PrepDate:**	
ColumnID:	Rtx-502.2 **%Moisture:**	**BatchNo:**	R16752
Revision:	03/24/09 9:07 **TestCode:** 8260W	**FileID:**	1-SAMP-M5917.D
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					**SW8260B**		
1,1-Dichloroethane	ND		0.50	0.10	µg/L	1	03/23/09 19:00
Benzene	ND		0.50	0.10	µg/L	1	03/23/09 19:00
Chlorobenzene	ND		0.50	0.10	µg/L	1	03/23/09 19:00
Vinyl chloride	ND		1.00	0.33	µg/L	1	03/23/09 19:00
Surr: 1,2-Dichloroethane-d4	111		75-134	0.16	%REC	1	03/23/09 19:00
Surr: 4-Bromofluorobenzene	102		75-125	0.10	%REC	1	03/23/09 19:00
Surr: Toluene-d8	109		75-125	0.10	%REC	1	03/23/09 19:00

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 435199 **Project Supervisor:** Anthony Crescenzi

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5000 Brittonfield Parkway, Suite 200
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Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903097-012D**
Project:	Ramapo	**Client Sample ID:**	*Trip Blank*
W Order:	0903097	**Collection Date:**	03/16/09 12:40
Matrix:	WATER Q	**Date Received:**	03/17/09 10:16
Inst. ID:	MS02_12 **Sample Size:** 25 mL	**PrepDate:**	
ColumnID:	Rtx-502.2 **%Moisture:**	**BatchNo:**	R16752
Revision:	03/24/09 9:07 **TestCode:** 8260W	**FileID:**	1-SAMP-M5918.D
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					**SW8260B**		
1,1-Dichloroethane	ND		0.50	0.10	µg/L	1	03/23/09 19:41
Benzene	ND		0.50	0.10	µg/L	1	03/23/09 19:41
Chlorobenzene	ND		0.50	0.10	µg/L	1	03/23/09 19:41
Vinyl chloride	ND		1.00	0.33	µg/L	1	03/23/09 19:41
Surr: 1,2-Dichloroethane-d4	112		75-134	0.16	%REC	1	03/23/09 19:41
Surr: Toluene-d8	108		75-125	0.10	%REC	1	03/23/09 19:41
Surr: 4-Bromofluorobenzene	103		75-125	0.10	%REC	1	03/23/09 19:41

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim /Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:27 435200 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903109-001A**
Project:	Ramapo	**Client Sample ID:**	*4-OS*
W Order:	0903109	**Collection Date:**	03/17/09 9:10
Matrix:	GROUNDWATER	**Date Received:**	03/18/09 10:20
Inst. ID:	AA3	**Sample Size:** 20 mL	**PrepDate:** 03/30/09 0:00
ColumnID:		**%Moisture:**	**BatchNo:** 9187/R16820
Revision:	03/31/09 5:59	**TestCode:** TKN351.2	**FileID:** 1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
KJELDAHL NITROGEN - TOTAL (AS N)					**EPA 351.2**		**(E351.2)**
Kjeldahl Nitrogen - Total (as N)	ND		0.20	0.10	mg/L	1	03/30/09 16:00

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:28 436408 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903109-001A**
Project:	Ramapo	**Client Sample ID:**	*4-OS*
W Order:	0903109	**Collection Date:**	03/17/09 9:10
Matrix:	GROUNDWATER	**Date Received:**	03/18/09 10:20
Inst. ID:	GENESYS 20	**Sample Size:** NA	**PrepDate:**
ColumnID:		**%Moisture:**	**BatchNo:** R16725
Revision:	03/19/09 11:27	**TestCode:** COD410.4	**FileID:** 1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
COD					**EPA 410.4**		
Chemical Oxygen Demand	15		10	3.6	mg/L	1	03/19/09 12:00

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:28 434758 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903109-001B**
Project:	Ramapo	**Client Sample ID:**	*4-OS*
W Order:	0903109	**Collection Date:**	03/17/09 9:10
Matrix:	GROUNDWATER	**Date Received:**	03/18/09 10:20
Inst. ID:	pH meter	**Sample Size:** NA	**PrepDate:**
ColumnID:		**%Moisture:**	**BatchNo:** R16741
Revision:	03/20/09 14:11	**TestCode:** ALKT 2320B	**FileID:** 1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ALKALINITY, AS CACO3					**SM 18-20 2320 B**		
Alkalinity, as CaCO3	60		10	10	mg/L	1	03/20/09

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:28 435008 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903109-001C**
Project:	Ramapo	**Client Sample ID:**	*4-OS*
W Order:	0903109	**Collection Date:**	03/17/09 9:10
Matrix:	GROUNDWATER	**Date Received:**	03/18/09 10:20
Inst. ID:	FIMS 100	**Sample Size:** 50 mL	**PrepDate:** 03/19/09 0:00
ColumnID:		**%Moisture:**	**BatchNo:** 9141/R16742
Revision:	03/20/09 15:31	**TestCode:** HG7470W	**FileID:** 1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY					**SW7470A**		**(SW7470A)**
Mercury	ND		0.00020	0.000050	mg/L	1	03/20/09 12:20

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:28 435050 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903109-001C**
Project:	Ramapo	**Client Sample ID:**	*4-OS*
W Order:	0903109	**Collection Date:**	03/17/09 9:10
Matrix:	GROUNDWATER	**Date Received:**	03/18/09 10:20
Inst. ID:	Buret Type A	**Sample Size:** NA	**PrepDate:**
ColumnID:		**%Moisture:**	**BatchNo:** R16791
Revision:	04/03/09 14:18	**TestCode:** HARD2340C	**FileID:** 1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
HARDNESS-TOTAL, AS CACO3					**SM 18-20 2340 C**		
Hardness-Total, as CaCO3	110		10	10	mg/L	1	03/26/09

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:28 435773 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903109-001C**
Project:	Ramapo	**Client Sample ID:**	*4-OS*
W Order:	0903109	**Collection Date:**	03/17/09 9:10
Matrix:	GROUNDWATER	**Date Received:**	03/18/09 10:20
Inst. ID:	ICAP 61E	**Sample Size:** 50 mL	**PrepDate:** 03/18/09 0:00
ColumnID:		**%Moisture:**	**BatchNo:** 9136/R16868
Revision:	04/06/09 11:41	**TestCode:** 6010W05	**FileID:** 1-SAMP-102831
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP					**SW6010B**		**(SW3005A)**
Aluminum	3.8		0.10	0.060	mg/L	1	04/03/09 12:41
Antimony	ND		0.060	0.0030	mg/L	1	04/03/09 12:41
Arsenic	ND		0.010	0.0040	mg/L	1	04/03/09 12:41
Barium	0.044	J	0.10	0.0020	mg/L	1	04/03/09 12:41
Beryllium	ND		0.0030	0.00020	mg/L	1	04/03/09 12:41
Cadmium	ND		0.0050	0.0010	mg/L	1	04/03/09 12:41
Calcium	23		1.0	0.040	mg/L	1	04/03/09 12:41
Chromium	0.23		0.010	0.0028	mg/L	1	04/03/09 12:41
Cobalt	ND		0.050	0.0060	mg/L	1	04/03/09 12:41
Copper	0.011		0.010	0.0028	mg/L	1	04/03/09 12:41
Iron	10		0.050	0.010	mg/L	1	04/03/09 12:41
Lead	ND		0.010	0.0040	mg/L	1	04/03/09 12:41
Magnesium	11		1.0	0.040	mg/L	1	04/03/09 12:41
Manganese	0.40		0.050	0.0015	mg/L	1	04/03/09 12:41
Nickel	0.044	J	0.050	0.0020	mg/L	1	04/03/09 12:41
Potassium	1.8	J	5.0	0.20	mg/L	1	04/03/09 12:41
Selenium	ND		0.010	0.0050	mg/L	1	04/03/09 12:41
Silver	ND		0.010	0.0020	mg/L	1	04/03/09 12:41
Sodium	48		1.0	0.040	mg/L	1	04/03/09 12:41
Thallium	ND		0.020	0.010	mg/L	1	04/03/09 12:41
Vanadium	0.011	J	0.050	0.0020	mg/L	1	04/03/09 12:41
Zinc	0.017	J	0.020	0.0040	mg/L	1	04/03/09 12:41

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:28 437084 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903109-001D**
Project:	Ramapo	**Client Sample ID:**	*4-OS*
W Order:	0903109	**Collection Date:**	03/17/09 9:10
Matrix:	GROUNDWATER	**Date Received:**	03/18/09 10:20
Inst. ID:	MS02_12 **Sample Size:** 25 mL	**PrepDate:**	
ColumnID:	Rtx-502.2 **%Moisture:**	**BatchNo:**	R16752
Revision:	03/24/09 9:07 **TestCode:** 8260W	**FileID:**	1-SAMP-M5919.D
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					**SW8260B**		
1,1-Dichloroethane	ND		0.50	0.10	µg/L	1	03/23/09 20:22
Benzene	ND		0.50	0.10	µg/L	1	03/23/09 20:22
Chlorobenzene	ND		0.50	0.10	µg/L	1	03/23/09 20:22
Vinyl chloride	ND		1.00	0.33	µg/L	1	03/23/09 20:22
Surr: 1,2-Dichloroethane-d4	110		75-134	0.16	%REC	1	03/23/09 20:22
Surr: 4-Bromofluorobenzene	100		75-125	0.10	%REC	1	03/23/09 20:22
Surr: Toluene-d8	106		75-125	0.10	%REC	1	03/23/09 20:22

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:28 435201 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903109-002A**
Project:	Ramapo	**Client Sample ID:**	*SVWL No. 93*
W Order:	0903109	**Collection Date:**	03/17/09 9:35
Matrix:	GROUNDWATER	**Date Received:**	03/18/09 10:20
Inst. ID:	GENESYS 20	**Sample Size:** NA	**PrepDate:**
ColumnID:		**%Moisture:**	**BatchNo:** R16725
Revision:	03/19/09 11:27	**TestCode:** COD410.4	**FileID:** 1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
COD					**EPA 410.4**		
Chemical Oxygen Demand	ND		10	3.6	mg/L	1	03/19/09 12:00

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:28 434759 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903109-002A**
Project:	Ramapo	**Client Sample ID:**	*SVWL No. 93*
W Order:	0903109	**Collection Date:**	03/17/09 9:35
Matrix:	GROUNDWATER	**Date Received:**	03/18/09 10:20
Inst. ID:	AA3 **Sample Size:** 20 mL	**PrepDate:**	03/30/09 0:00
ColumnID:	**%Moisture:**	**BatchNo:**	9187/R16820
Revision:	03/31/09 5:59 **TestCode:** TKN351.2	**FileID:**	1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
KJELDAHL NITROGEN - TOTAL (AS N)					**EPA 351.2**		**(E351.2)**
Kjeldahl Nitrogen - Total (as N)	ND		0.20	0.10	mg/L	1	03/30/09 16:00

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:28 436409 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903109-002B**
Project:	Ramapo	**Client Sample ID:**	*SVWL No. 93*
W Order:	0903109	**Collection Date:**	03/17/09 9:35
Matrix:	GROUNDWATER	**Date Received:**	03/18/09 10:20
Inst. ID:	pH meter	**Sample Size:** NA	**PrepDate:**
ColumnID:		**%Moisture:**	**BatchNo:** R16741
Revision:	03/20/09 14:11	**TestCode:** ALKT 2320B	**FileID:** 1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ALKALINITY, AS CACO3					**SM 18-20 2320 B**		
Alkalinity, as CaCO3	40		10	10	mg/L	1	03/20/09

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:28 435009 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903109-002C**
Project:	Ramapo	**Client Sample ID:**	*SVWL No. 93*
W Order:	0903109	**Collection Date:**	03/17/09 9:35
Matrix:	GROUNDWATER	**Date Received:**	03/18/09 10:20
Inst. ID:	FIMS 100	**Sample Size:** 50 mL	**PrepDate:** 03/19/09 0:00
ColumnID:		**%Moisture:**	**BatchNo:** 9141/R16742
Revision:	03/20/09 15:31	**TestCode:** HG7470W	**FileID:** 1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY					**SW7470A**		**(SW7470A)**
Mercury	ND		0.00020	0.000050	mg/L	1	03/20/09 12:23

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:28 435051 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.			**Lab ID:**	**0903109-002C**
Project:	Ramapo			**Client Sample ID:**	*SWL No. 93*
W Order:	0903109			**Collection Date:**	03/17/09 9:35
Matrix:	GROUNDWATER			**Date Received:**	03/18/09 10:20
Inst. ID:	Buret Type A	**Sample Size:**	NA	**PrepDate:**	
ColumnID:		**%Moisture:**		**BatchNo:**	R16791
Revision:	04/03/09 14:18	**TestCode:**	HARD2340C	**FileID:**	1-SAMP-
Col Type:					

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
HARDNESS-TOTAL, AS CACO3					**SM 18-20 2340 C**		
Hardness-Total, as CaCO3	76		10	10	mg/L	1	03/26/09

Qualifiers:					
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:28 435774 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903109-002C**
Project:	Ramapo	**Client Sample ID:**	*SVWL No. 93*
W Order:	0903109	**Collection Date:**	03/17/09 9:35
Matrix:	GROUNDWATER	**Date Received:**	03/18/09 10:20
Inst. ID:	ICAP 61E	**Sample Size:** 50 mL	**PrepDate:** 03/18/09 0:00
ColumnID:		**%Moisture:**	**BatchNo:** 9136/R16868
Revision:	04/06/09 11:41	**TestCode:** 6010W05	**FileID:** 1-SAMP-102832
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP					**SW6010B**		**(SW3005A)**
Aluminum	ND		0.10	0.060	mg/L	1	04/03/09 12:45
Antimony	ND		0.060	0.0030	mg/L	1	04/03/09 12:45
Arsenic	ND		0.010	0.0040	mg/L	1	04/03/09 12:45
Barium	0.0088	J	0.10	0.0020	mg/L	1	04/03/09 12:45
Beryllium	ND		0.0030	0.00020	mg/L	1	04/03/09 12:45
Cadmium	ND		0.0050	0.0010	mg/L	1	04/03/09 12:45
Calcium	23		1.0	0.040	mg/L	1	04/03/09 12:45
Chromium	ND		0.010	0.0028	mg/L	1	04/03/09 12:45
Cobalt	ND		0.050	0.0060	mg/L	1	04/03/09 12:45
Copper	0.0039	J	0.010	0.0028	mg/L	1	04/03/09 12:45
Iron	0.029	J	0.050	0.010	mg/L	1	04/03/09 12:45
Lead	ND		0.010	0.0040	mg/L	1	04/03/09 12:45
Magnesium	5.9		1.0	0.040	mg/L	1	04/03/09 12:45
Manganese	ND		0.050	0.0015	mg/L	1	04/03/09 12:45
Nickel	ND		0.050	0.0020	mg/L	1	04/03/09 12:45
Potassium	1.5	J	5.0	0.20	mg/L	1	04/03/09 12:45
Selenium	ND		0.010	0.0050	mg/L	1	04/03/09 12:45
Silver	ND		0.010	0.0020	mg/L	1	04/03/09 12:45
Sodium	52		1.0	0.040	mg/L	1	04/03/09 12:45
Thallium	ND		0.020	0.010	mg/L	1	04/03/09 12:45
Vanadium	ND		0.050	0.0020	mg/L	1	04/03/09 12:45
Zinc	0.012	J	0.020	0.0040	mg/L	1	04/03/09 12:45

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:28 437085 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903109-002D**
Project:	Ramapo	**Client Sample ID:**	*SVWL No. 93*
W Order:	0903109	**Collection Date:**	03/17/09 9:35
Matrix:	GROUNDWATER	**Date Received:**	03/18/09 10:20
Inst. ID:	MS02_12 **Sample Size:** 25 mL	**PrepDate:**	
ColumnID:	Rtx-502.2 **%Moisture:**	**BatchNo:**	R16752
Revision:	03/24/09 9:07 **TestCode:** 8260W	**FileID:**	1-SAMP-M5920.D
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					**SW8260B**		
1,1-Dichloroethane	ND		0.50	0.10	µg/L	1	03/23/09 21:04
Benzene	ND		0.50	0.10	µg/L	1	03/23/09 21:04
Chlorobenzene	ND		0.50	0.10	µg/L	1	03/23/09 21:04
Vinyl chloride	ND		1.00	0.33	µg/L	1	03/23/09 21:04
Surr: 1,2-Dichloroethane-d4	111		75-134	0.16	%REC	1	03/23/09 21:04
Surr: 4-Bromofluorobenzene	106		75-125	0.10	%REC	1	03/23/09 21:04
Surr: Toluene-d8	108		75-125	0.10	%REC	1	03/23/09 21:04

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:28 435202 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903109-003A**
Project:	Ramapo	**Client Sample ID:**	*SWL No. 95*
W Order:	0903109	**Collection Date:**	03/17/09 9:52
Matrix:	GROUNDWATER	**Date Received:**	03/18/09 10:20
Inst. ID:	GENESYS 20 **Sample Size:** NA	**PrepDate:**	
ColumnID:	**%Moisture:**	**BatchNo:**	R16725
Revision:	03/19/09 11:27 **TestCode:** COD410.4	**FileID:**	1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
COD					**EPA 410.4**		
Chemical Oxygen Demand	ND		10	3.6	mg/L	1	03/19/09 12:00

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:28 434760 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903109-003A**
Project:	Ramapo	**Client Sample ID:**	*SVWL No. 95*
W Order:	0903109	**Collection Date:**	03/17/09 9:52
Matrix:	GROUNDWATER	**Date Received:**	03/18/09 10:20
Inst. ID:	AA3 **Sample Size:** 20 mL	**PrepDate:**	03/30/09 0:00
ColumnID:	**%Moisture:**	**BatchNo:**	9187/R16820
Revision:	03/31/09 5:59 **TestCode:** TKN351.2	**FileID:**	1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
KJELDAHL NITROGEN - TOTAL (AS N)					**EPA 351.2**		**(E351.2)**
Kjeldahl Nitrogen - Total (as N)	ND		0.20	0.10	mg/L	1	03/30/09 16:00

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:28 436410 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903109-003B**
Project:	Ramapo	**Client Sample ID:**	*SVWL No. 95*
W Order:	0903109	**Collection Date:**	03/17/09 9:52
Matrix:	GROUNDWATER	**Date Received:**	03/18/09 10:20
Inst. ID:	pH meter	**Sample Size:** NA	**PrepDate:**
ColumnID:		**%Moisture:**	**BatchNo:** R16741
Revision:	03/20/09 14:11	**TestCode:** ALKT 2320B	**FileID:** 1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ALKALINITY, AS CACO3					**SM 18-20 2320 B**		
Alkalinity, as CaCO3	40		10	10	mg/L	1	03/20/09

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:28 435010 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903109-003C**
Project:	Ramapo	**Client Sample ID:**	*SVWL No. 95*
W Order:	0903109	**Collection Date:**	03/17/09 9:52
Matrix:	GROUNDWATER	**Date Received:**	03/18/09 10:20
Inst. ID:	FIMS 100	**Sample Size:** 50 mL	**PrepDate:** 03/19/09 0:00
ColumnID:		**%Moisture:**	**BatchNo:** 9141/R16742
Revision:	03/20/09 15:31	**TestCode:** HG7470W	**FileID:** 1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY					**SW7470A**		**(SW7470A)**
Mercury	ND		0.00020	0.000050	mg/L	1	03/20/09 12:25

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:28 435052 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903109-003C**
Project:	Ramapo	**Client Sample ID:**	*SVWL No. 95*
W Order:	0903109	**Collection Date:**	03/17/09 9:52
Matrix:	GROUNDWATER	**Date Received:**	03/18/09 10:20
Inst. ID:	Buret Type A	**Sample Size:** NA	**PrepDate:**
ColumnID:		**%Moisture:**	**BatchNo:** R16791
Revision:	04/03/09 14:18	**TestCode:** HARD2340C	**FileID:** 1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
HARDNESS-TOTAL, AS CACO3					**SM 18-20 2340 C**		
Hardness-Total, as CaCO3	88		10	10	mg/L	1	03/26/09

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:28 435775 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903109-003C**
Project:	Ramapo	**Client Sample ID:**	*SWL No. 95*
W Order:	0903109	**Collection Date:**	03/17/09 9:52
Matrix:	GROUNDWATER	**Date Received:**	03/18/09 10:20
Inst. ID:	ICAP 61E	**Sample Size:** 50 mL	**PrepDate:** 03/18/09 0:00
ColumnID:		**%Moisture:**	**BatchNo:** 9136/R16868
Revision:	04/06/09 11:41	**TestCode:** 6010W05	**FileID:** 1-SAMP-102833
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP					**SW6010B**		**(SW3005A)**
Aluminum	ND		0.10	0.060	mg/L	1	04/03/09 12:49
Antimony	ND		0.060	0.0030	mg/L	1	04/03/09 12:49
Arsenic	ND		0.010	0.0040	mg/L	1	04/03/09 12:49
Barium	0.013	J	0.10	0.0020	mg/L	1	04/03/09 12:49
Beryllium	ND		0.0030	0.00020	mg/L	1	04/03/09 12:49
Cadmium	ND		0.0050	0.0010	mg/L	1	04/03/09 12:49
Calcium	24		1.0	0.040	mg/L	1	04/03/09 12:49
Chromium	ND		0.010	0.0028	mg/L	1	04/03/09 12:49
Cobalt	ND		0.050	0.0060	mg/L	1	04/03/09 12:49
Copper	0.0054	J	0.010	0.0028	mg/L	1	04/03/09 12:49
Iron	0.033	J	0.050	0.010	mg/L	1	04/03/09 12:49
Lead	ND		0.010	0.0040	mg/L	1	04/03/09 12:49
Magnesium	6.7		1.0	0.040	mg/L	1	04/03/09 12:49
Manganese	0.14		0.050	0.0015	mg/L	1	04/03/09 12:49
Nickel	ND		0.050	0.0020	mg/L	1	04/03/09 12:49
Potassium	1.6	J	5.0	0.20	mg/L	1	04/03/09 12:49
Selenium	ND		0.010	0.0050	mg/L	1	04/03/09 12:49
Silver	ND		0.010	0.0020	mg/L	1	04/03/09 12:49
Sodium	49		1.0	0.040	mg/L	1	04/03/09 12:49
Thallium	ND		0.020	0.010	mg/L	1	04/03/09 12:49
Vanadium	ND		0.050	0.0020	mg/L	1	04/03/09 12:49
Zinc	0.011	J	0.020	0.0040	mg/L	1	04/03/09 12:49

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:28 437086 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903109-003D**
Project:	Ramapo	**Client Sample ID:**	*SVWL No. 95*
W Order:	0903109	**Collection Date:**	03/17/09 9:52
Matrix:	GROUNDWATER	**Date Received:**	03/18/09 10:20
Inst. ID:	MS02_12	**Sample Size:** 25 mL	**PrepDate:**
ColumnID:	Rtx-502.2	**%Moisture:**	**BatchNo:** R16752
Revision:	03/24/09 9:07	**TestCode:** 8260W	**FileID:** 1-SAMP-M5921.D
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					**SW8260B**		
1,1-Dichloroethane	ND		0.50	0.10	µg/L	1	03/23/09 21:45
Benzene	ND		0.50	0.10	µg/L	1	03/23/09 21:45
Chlorobenzene	ND		0.50	0.10	µg/L	1	03/23/09 21:45
Vinyl chloride	ND		1.00	0.33	µg/L	1	03/23/09 21:45
Surr: 1,2-Dichloroethane-d4	111		75-134	0.16	%REC	1	03/23/09 21:45
Surr: 4-Bromofluorobenzene	107		75-125	0.10	%REC	1	03/23/09 21:45
Surr: Toluene-d8	108		75-125	0.10	%REC	1	03/23/09 21:45

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:28 435203 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903109-004A**
Project:	Ramapo	**Client Sample ID:**	*SVWL No. 96*
W Order:	0903109	**Collection Date:**	03/17/09 10:00
Matrix:	GROUNDWATER	**Date Received:**	03/18/09 10:20
Inst. ID:	AA3	**Sample Size:** 20 mL	**PrepDate:** 03/30/09 0:00
ColumnID:		**%Moisture:**	**BatchNo:** 9187/R16820
Revision:	03/31/09 5:59	**TestCode:** TKN351.2	**FileID:** 1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
KJELDAHL NITROGEN - TOTAL (AS N)					**EPA 351.2**		**(E351.2)**
Kjeldahl Nitrogen - Total (as N)	0.10	J	0.20	0.10	mg/L	1	03/30/09 16:00

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:28 436411 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903109-004A**
Project:	Ramapo	**Client Sample ID:**	*SVWL No. 96*
W Order:	0903109	**Collection Date:**	03/17/09 10:00
Matrix:	GROUNDWATER	**Date Received:**	03/18/09 10:20
Inst. ID:	GENESYS 20 **Sample Size:** NA	**PrepDate:**	
ColumnID:	**%Moisture:**	**BatchNo:**	R16725
Revision:	03/19/09 11:27 **TestCode:** COD410.4	**FileID:**	1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
COD					**EPA 410.4**		
Chemical Oxygen Demand	ND		10	3.6	mg/L	1	03/19/09 12:00

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:28 434761 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903109-004B**
Project:	Ramapo	**Client Sample ID:**	*SVWL No. 96*
W Order:	0903109	**Collection Date:**	03/17/09 10:00
Matrix:	GROUNDWATER	**Date Received:**	03/18/09 10:20
Inst. ID:	pH meter	**Sample Size:** NA	**PrepDate:**
ColumnID:		**%Moisture:**	**BatchNo:** R16741
Revision:	03/20/09 14:11	**TestCode:** ALKT 2320B	**FileID:** 1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ALKALINITY, AS CACO3					**SM 18-20 2320 B**		
Alkalinity, as CaCO3	40		10	10	mg/L	1	03/20/09

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:28 435011 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903109-004C**
Project:	Ramapo	**Client Sample ID:**	*SVWL No. 96*
W Order:	0903109	**Collection Date:**	03/17/09 10:00
Matrix:	GROUNDWATER	**Date Received:**	03/18/09 10:20
Inst. ID:	FIMS 100	**Sample Size:** 50 mL	**PrepDate:** 03/19/09 0:00
ColumnID:		**%Moisture:**	**BatchNo:** 9141/R16742
Revision:	03/20/09 15:31	**TestCode:** HG7470W	**FileID:** 1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY					**SW7470A**		**(SW7470A)**
Mercury	ND		0.00020	0.000050	mg/L	1	03/20/09 12:27

Qualifiers:	* Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:28 435053 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903109-004C**
Project:	Ramapo	**Client Sample ID:**	*SVWL No. 96*
W Order:	0903109	**Collection Date:**	03/17/09 10:00
Matrix:	GROUNDWATER	**Date Received:**	03/18/09 10:20
Inst. ID:	Buret Type A	**Sample Size:** NA	**PrepDate:**
ColumnID:		**%Moisture:**	**BatchNo:** R16791
Revision:	04/03/09 14:18	**TestCode:** HARD2340C	**FileID:** 1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
HARDNESS-TOTAL, AS CACO3					**SM 18-20 2340 C**		
Hardness-Total, as CaCO3	88		10	10	mg/L	1	03/26/09

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:28 435776 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903109-004C**
Project:	Ramapo	**Client Sample ID:**	*SVWL No. 96*
W Order:	0903109	**Collection Date:**	03/17/09 10:00
Matrix:	GROUNDWATER	**Date Received:**	03/18/09 10:20
Inst. ID:	ICAP 61E	**Sample Size:** 50 mL	**PrepDate:** 03/18/09 0:00
ColumnID:		**%Moisture:**	**BatchNo:** 9136/R16868
Revision:	04/06/09 11:41	**TestCode:** 6010W05	**FileID:** 1-SAMP-102834
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP					**SW6010B**		**(SW3005A)**
Aluminum	ND		0.10	0.060	mg/L	1	04/03/09 12:53
Antimony	ND		0.060	0.0030	mg/L	1	04/03/09 12:53
Arsenic	ND		0.010	0.0040	mg/L	1	04/03/09 12:53
Barium	0.0086	J	0.10	0.0020	mg/L	1	04/03/09 12:53
Beryllium	ND		0.0030	0.00020	mg/L	1	04/03/09 12:53
Cadmium	ND		0.0050	0.0010	mg/L	1	04/03/09 12:53
Calcium	23		1.0	0.040	mg/L	1	04/03/09 12:53
Chromium	ND		0.010	0.0028	mg/L	1	04/03/09 12:53
Cobalt	ND		0.050	0.0060	mg/L	1	04/03/09 12:53
Copper	0.0063	J	0.010	0.0028	mg/L	1	04/03/09 12:53
Iron	0.016	J	0.050	0.010	mg/L	1	04/03/09 12:53
Lead	ND		0.010	0.0040	mg/L	1	04/03/09 12:53
Magnesium	6.3		1.0	0.040	mg/L	1	04/03/09 12:53
Manganese	ND		0.050	0.0015	mg/L	1	04/03/09 12:53
Nickel	ND		0.050	0.0020	mg/L	1	04/03/09 12:53
Potassium	1.3	J	5.0	0.20	mg/L	1	04/03/09 12:53
Selenium	ND		0.010	0.0050	mg/L	1	04/03/09 12:53
Silver	ND		0.010	0.0020	mg/L	1	04/03/09 12:53
Sodium	54		1.0	0.040	mg/L	1	04/03/09 12:53
Thallium	ND		0.020	0.010	mg/L	1	04/03/09 12:53
Vanadium	ND		0.050	0.0020	mg/L	1	04/03/09 12:53
Zinc	0.014	J	0.020	0.0040	mg/L	1	04/03/09 12:53

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:28 437087 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
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Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903109-004D**
Project:	Ramapo	**Client Sample ID:**	*SVWL No. 96*
W Order:	0903109	**Collection Date:**	03/17/09 10:00
Matrix:	GROUNDWATER	**Date Received:**	03/18/09 10:20
Inst. ID:	MS02_12	**Sample Size:** 25 mL	**PrepDate:**
ColumnID:	Rtx-502.2	**%Moisture:**	**BatchNo:** R16773
Revision:	03/25/09 15:19	**TestCode:** 8260W	**FileID:** 1-SAMP-M5929.D
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					**SW8260B**		
1,1-Dichloroethane	ND		0.50	0.10	µg/L	1	03/24/09 13:15
Benzene	ND		0.50	0.10	µg/L	1	03/24/09 13:15
Chlorobenzene	ND		0.50	0.10	µg/L	1	03/24/09 13:15
Vinyl chloride	ND		1.00	0.33	µg/L	1	03/24/09 13:15
Surr: 1,2-Dichloroethane-d4	110		75-134	0.16	%REC	1	03/24/09 13:15
Surr: 4-Bromofluorobenzene	102		75-125	0.10	%REC	1	03/24/09 13:15
Surr: Toluene-d8	107		75-125	0.10	%REC	1	03/24/09 13:15

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:28 435562 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903109-005A**
Project:	Ramapo	**Client Sample ID:**	*2-OS*
W Order:	0903109	**Collection Date:**	03/17/09 10:45
Matrix:	GROUNDWATER	**Date Received:**	03/18/09 10:20
Inst. ID:	GENESYS 20 **Sample Size:** NA	**PrepDate:**	
ColumnID:	**%Moisture:**	**BatchNo:**	R16725
Revision:	03/19/09 11:27 **TestCode:** COD410.4	**FileID:**	1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
COD					**EPA 410.4**		
Chemical Oxygen Demand	17		10	3.6	mg/L	1	03/19/09 12:01

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:28 434762 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903109-005A**
Project:	Ramapo	**Client Sample ID:**	*2-OS*
W Order:	0903109	**Collection Date:**	03/17/09 10:45
Matrix:	GROUNDWATER	**Date Received:**	03/18/09 10:20
Inst. ID:	AA3 **Sample Size:** 20 mL	**PrepDate:**	03/30/09 0:00
ColumnID:	**%Moisture:**	**BatchNo:**	9187/R16820
Revision:	03/31/09 5:59 **TestCode:** TKN351.2	**FileID:**	1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
KJELDAHL NITROGEN - TOTAL (AS N)					**EPA 351.2**		**(E351.2)**
Kjeldahl Nitrogen - Total (as N)	0.10	J	0.20	0.10	mg/L	1	03/30/09 16:00

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:28 436412 **Project Supervisor:** Anthony Crescenzi

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East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903109-005B**
Project:	Ramapo	**Client Sample ID:**	*2-OS*
W Order:	0903109	**Collection Date:**	03/17/09 10:45
Matrix:	GROUNDWATER	**Date Received:**	03/18/09 10:20
Inst. ID:	pH meter	**Sample Size:** NA	**PrepDate:**
ColumnID:		**%Moisture:**	**BatchNo:** R16741
Revision:	03/20/09 14:11	**TestCode:** ALKT 2320B	**FileID:** 1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ALKALINITY, AS CACO3					**SM 18-20 2320 B**		
Alkalinity, as CaCO3	280		10	10	mg/L	1	03/20/09

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:28 435012 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
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East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903109-005C**
Project:	Ramapo	**Client Sample ID:**	*2-OS*
W Order:	0903109	**Collection Date:**	03/17/09 10:45
Matrix:	GROUNDWATER	**Date Received:**	03/18/09 10:20
Inst. ID:	FIMS 100 **Sample Size:** 50 mL	**PrepDate:**	03/19/09 0:00
ColumnID:	**%Moisture:**	**BatchNo:**	9141/R16742
Revision:	03/20/09 15:31 **TestCode:** HG7470W	**FileID:**	1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY					**SW7470A**		**(SW7470A)**
Mercury	ND		0.00020	0.000050	mg/L	1	03/20/09 12:33

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:28 435056 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.			**Lab ID:**	**0903109-005C**
Project:	Ramapo			**Client Sample ID:**	*2-OS*
W Order:	0903109			**Collection Date:**	03/17/09 10:45
Matrix:	GROUNDWATER			**Date Received:**	03/18/09 10:20
Inst. ID:	Buret Type A	**Sample Size:**	NA	**PrepDate:**	
ColumnID:		**%Moisture:**		**BatchNo:**	R16791
Revision:	04/03/09 14:18	**TestCode:**	HARD2340C	**FileID:**	1-SAMP-
Col Type:					

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
HARDNESS-TOTAL, AS CACO3					**SM 18-20 2340 C**		
Hardness-Total, as CaCO3	280		10	10	mg/L	1	03/26/09

Qualifiers:	*	Value exceeds Maximum Contaminant Level		B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range		H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL		ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit		S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:28 435777 **Project Supervisor:** Anthony Crescenzi

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East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903109-005C**
Project:	Ramapo	**Client Sample ID:**	*2-OS*
W Order:	0903109	**Collection Date:**	03/17/09 10:45
Matrix:	GROUNDWATER	**Date Received:**	03/18/09 10:20
Inst. ID:	ICAP 61E	**Sample Size:** 50 mL	**PrepDate:** 03/18/09 0:00
ColumnID:		**%Moisture:**	**BatchNo:** 9136/R16868
Revision:	04/06/09 11:41	**TestCode:** 6010W05	**FileID:** 1-SAMP-102835
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP					**SW6010B**		**(SW3005A)**
Aluminum	3.2		0.10	0.060	mg/L	1	04/03/09 12:57
Antimony	ND		0.060	0.0030	mg/L	1	04/03/09 12:57
Arsenic	ND		0.010	0.0040	mg/L	1	04/03/09 12:57
Barium	0.044	J	0.10	0.0020	mg/L	1	04/03/09 12:57
Beryllium	ND		0.0030	0.00020	mg/L	1	04/03/09 12:57
Cadmium	ND		0.0050	0.0010	mg/L	1	04/03/09 12:57
Calcium	99		1.0	0.040	mg/L	1	04/03/09 12:57
Chromium	0.48		0.010	0.0028	mg/L	1	04/03/09 12:57
Cobalt	0.020	J	0.050	0.0060	mg/L	1	04/03/09 12:57
Copper	0.021		0.010	0.0028	mg/L	1	04/03/09 12:57
Iron	12		0.050	0.010	mg/L	1	04/03/09 12:57
Lead	0.0057	J	0.010	0.0040	mg/L	1	04/03/09 12:57
Magnesium	18		1.0	0.040	mg/L	1	04/03/09 12:57
Manganese	2.2		0.050	0.0015	mg/L	1	04/03/09 12:57
Nickel	0.49		0.050	0.0020	mg/L	1	04/03/09 12:57
Potassium	2.1	J	5.0	0.20	mg/L	1	04/03/09 12:57
Selenium	ND		0.010	0.0050	mg/L	1	04/03/09 12:57
Silver	ND		0.010	0.0020	mg/L	1	04/03/09 12:57
Sodium	11		1.0	0.040	mg/L	1	04/03/09 12:57
Thallium	ND		0.020	0.010	mg/L	1	04/03/09 12:57
Vanadium	0.0085	J	0.050	0.0020	mg/L	1	04/03/09 12:57
Zinc	0.016	J	0.020	0.0040	mg/L	1	04/03/09 12:57

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

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Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903109-005D**
Project:	Ramapo	**Client Sample ID:**	*2-OS*
W Order:	0903109	**Collection Date:**	03/17/09 10:45
Matrix:	GROUNDWATER	**Date Received:**	03/18/09 10:20
Inst. ID:	MS02_12 **Sample Size:** 25 mL	**PrepDate:**	
ColumnID:	Rtx-502.2 **%Moisture:**	**BatchNo:**	R16773
Revision:	03/25/09 15:19 **TestCode:** 8260W	**FileID:**	1-SAMP-M5930.D
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					**SW8260B**		
1,1-Dichloroethane	ND		0.50	0.10	µg/L	1	03/24/09 13:56
Benzene	ND		0.50	0.10	µg/L	1	03/24/09 13:56
Chlorobenzene	ND		0.50	0.10	µg/L	1	03/24/09 13:56
Vinyl chloride	ND		1.00	0.33	µg/L	1	03/24/09 13:56
Surr: 1,2-Dichloroethane-d4	112		75-134	0.16	%REC	1	03/24/09 13:56
Surr: 4-Bromofluorobenzene	100		75-125	0.10	%REC	1	03/24/09 13:56
Surr: Toluene-d8	107		75-125	0.10	%REC	1	03/24/09 13:56

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:28 435563 **Project Supervisor:** Anthony Crescenzi

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Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903109-006A**
Project:	Ramapo	**Client Sample ID:**	*1-OS*
W Order:	0903109	**Collection Date:**	03/17/09 11:45
Matrix:	GROUNDWATER	**Date Received:**	03/18/09 10:20
Inst. ID:	GENESYS 20	**Sample Size:** NA	**PrepDate:**
ColumnID:		**%Moisture:**	**BatchNo:** R16725
Revision:	03/19/09 11:27	**TestCode:** COD410.4	**FileID:** 1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
COD					**EPA 410.4**		
Chemical Oxygen Demand	26		10	3.6	mg/L	1	03/19/09 12:19

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:28 434765 **Project Supervisor:** Anthony Crescenzi

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Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903109-006A**
Project:	Ramapo	**Client Sample ID:**	*1-OS*
W Order:	0903109	**Collection Date:**	03/17/09 11:45
Matrix:	GROUNDWATER	**Date Received:**	03/18/09 10:20
Inst. ID:	AA3 **Sample Size:** 20 mL	**PrepDate:**	03/30/09 0:00
ColumnID:	**%Moisture:**	**BatchNo:**	9187/R16820
Revision:	03/31/09 5:59 **TestCode:** TKN351.2	**FileID:**	1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
KJELDAHL NITROGEN - TOTAL (AS N)					**EPA 351.2**		**(E351.2)**
Kjeldahl Nitrogen - Total (as N)	0.31		0.20	0.10	mg/L	1	03/30/09 16:00

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:28 436413 **Project Supervisor:** Anthony Crescenzi

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East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903109-006B**
Project:	Ramapo	**Client Sample ID:**	*1-OS*
W Order:	0903109	**Collection Date:**	03/17/09 11:45
Matrix:	GROUNDWATER	**Date Received:**	03/18/09 10:20
Inst. ID:	pH meter	**Sample Size:** NA	**PrepDate:**
ColumnID:		**%Moisture:**	**BatchNo:** R16741
Revision:	03/20/09 14:11	**TestCode:** ALKT 2320B	**FileID:** 1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
ALKALINITY, AS CACO3					**SM 18-20 2320 B**		
Alkalinity, as CaCO3	140		10	10	mg/L	1	03/20/09

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:28 435013 **Project Supervisor:** Anthony Crescenzi

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5000 Brittonfield Parkway, Suite 200
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Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903109-006C**
Project:	Ramapo	**Client Sample ID:**	*1-OS*
W Order:	0903109	**Collection Date:**	03/17/09 11:45
Matrix:	GROUNDWATER	**Date Received:**	03/18/09 10:20
Inst. ID:	FIMS 100	**Sample Size:** 50 mL	**PrepDate:** 03/19/09 0:00
ColumnID:		**%Moisture:**	**BatchNo:** 9141/R16742
Revision:	03/20/09 15:31	**TestCode:** HG7470W	**FileID:** 1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY					**SW7470A**		**(SW7470A)**
Mercury	ND		0.00020	0.000050	mg/L	1	03/20/09 12:35

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:28 435057 **Project Supervisor:** Anthony Crescenzi

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Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.			**Lab ID:**	**0903109-006C**
Project:	Ramapo			**Client Sample ID:**	*1-OS*
W Order:	0903109			**Collection Date:**	03/17/09 11:45
Matrix:	GROUNDWATER			**Date Received:**	03/18/09 10:20
Inst. ID:	Buret Type A	**Sample Size:**	NA	**PrepDate:**	
ColumnID:		**%Moisture:**		**BatchNo:**	R16791
Revision:	04/03/09 14:18	**TestCode:**	HARD2340C	**FileID:**	1-SAMP-
Col Type:					

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
HARDNESS-TOTAL, AS CACO3					**SM 18-20 2340 C**		
Hardness-Total, as CaCO3	280		10	10	mg/L	1	03/26/09

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:28 435778 **Project Supervisor:** Anthony Crescenzi

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Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903109-006C**
Project:	Ramapo	**Client Sample ID:**	*1-OS*
W Order:	0903109	**Collection Date:**	03/17/09 11:45
Matrix:	GROUNDWATER	**Date Received:**	03/18/09 10:20
Inst. ID:	ICAP 61E	**Sample Size:** 50 mL	**PrepDate:** 03/18/09 0:00
ColumnID:		**%Moisture:**	**BatchNo:** 9136/R16868
Revision:	04/06/09 11:41	**TestCode:** 6010W05	**FileID:** 1-SAMP-102836
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP					**SW6010B**		**(SW3005A)**
Aluminum	12		0.10	0.060	mg/L	1	04/03/09 13:01
Antimony	ND		0.060	0.0030	mg/L	1	04/03/09 13:01
Arsenic	0.0071	J	0.010	0.0040	mg/L	1	04/03/09 13:01
Barium	0.15		0.10	0.0020	mg/L	1	04/03/09 13:01
Beryllium	0.00061	J	0.0030	0.00020	mg/L	1	04/03/09 13:01
Cadmium	ND		0.0050	0.0010	mg/L	1	04/03/09 13:01
Calcium	82		1.0	0.040	mg/L	1	04/03/09 13:01
Chromium	0.14		0.010	0.0028	mg/L	1	04/03/09 13:01
Cobalt	0.028	J	0.050	0.0060	mg/L	1	04/03/09 13:01
Copper	0.033		0.010	0.0028	mg/L	1	04/03/09 13:01
Iron	38		0.050	0.010	mg/L	1	04/03/09 13:01
Lead	0.0063	J	0.010	0.0040	mg/L	1	04/03/09 13:01
Magnesium	20		1.0	0.040	mg/L	1	04/03/09 13:01
Manganese	9.0		0.050	0.0015	mg/L	1	04/03/09 13:01
Nickel	0.64		0.050	0.0020	mg/L	1	04/03/09 13:01
Potassium	5.8		5.0	0.20	mg/L	1	04/03/09 13:01
Selenium	ND		0.010	0.0050	mg/L	1	04/03/09 13:01
Silver	ND		0.010	0.0020	mg/L	1	04/03/09 13:01
Sodium	97		1.0	0.040	mg/L	1	04/03/09 13:01
Thallium	ND		0.020	0.010	mg/L	1	04/03/09 13:01
Vanadium	0.034	J	0.050	0.0020	mg/L	1	04/03/09 13:01
Zinc	0.046		0.020	0.0040	mg/L	1	04/03/09 13:01

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

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Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903109-006D**
Project:	Ramapo	**Client Sample ID:**	*1-OS*
W Order:	0903109	**Collection Date:**	03/17/09 11:45
Matrix:	GROUNDWATER	**Date Received:**	03/18/09 10:20
Inst. ID:	MS02_12 **Sample Size:** 25 mL	**PrepDate:**	
ColumnID:	Rtx-502.2 **%Moisture:**	**BatchNo:**	R16773
Revision:	03/25/09 15:19 **TestCode:** 8260W	**FileID:**	1-SAMP-M5931.D
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					**SW8260B**		
1,1-Dichloroethane	ND		0.50	0.10	µg/L	1	03/24/09 14:37
Benzene	ND		0.50	0.10	µg/L	1	03/24/09 14:37
Chlorobenzene	ND		0.50	0.10	µg/L	1	03/24/09 14:37
Vinyl chloride	ND		1.00	0.33	µg/L	1	03/24/09 14:37
Surr: 1,2-Dichloroethane-d4	114		75-134	0.16	%REC	1	03/24/09 14:37
Surr: 4-Bromofluorobenzene	102		75-125	0.10	%REC	1	03/24/09 14:37
Surr: Toluene-d8	107		75-125	0.10	%REC	1	03/24/09 14:37

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:28 435564 **Project Supervisor:** Anthony Crescenzi

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Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903109-007C**
Project:	Ramapo	**Client Sample ID:**	*3-OS*
W Order:	0903109	**Collection Date:**	03/17/09 12:25
Matrix:	GROUNDWATER	**Date Received:**	03/18/09 10:20
Inst. ID:	FIMS 100 **Sample Size:** 50 mL	**PrepDate:**	03/19/09 0:00
ColumnID:	**%Moisture:**	**BatchNo:**	9141/R16742
Revision:	03/20/09 15:31 **TestCode:** HG7470W	**FileID:**	1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY					**SW7470A**		**(SW7470A)**
Mercury	ND		0.00020	0.000050	mg/L	1	03/20/09 12:38

Qualifiers:					
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:28 435058 **Project Supervisor:** Anthony Crescenzi

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Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903109-007C**
Project:	Ramapo	**Client Sample ID:**	*3-OS*
W Order:	0903109	**Collection Date:**	03/17/09 12:25
Matrix:	GROUNDWATER	**Date Received:**	03/18/09 10:20
Inst. ID:	Buret Type A	**Sample Size:** NA	**PrepDate:**
ColumnID:		**%Moisture:**	**BatchNo:** R16791
Revision:	04/03/09 14:18	**TestCode:** HARD2340C	**FileID:** 1-SAMP-
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
HARDNESS-TOTAL, AS CACO3					**SM 18-20 2340 C**		
Hardness-Total, as CaCO3	280		10	10	mg/L	1	03/26/09

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:28 435779 **Project Supervisor:** Anthony Crescenzi

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5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903109-007C**
Project:	Ramapo	**Client Sample ID:**	*3-OS*
W Order:	0903109	**Collection Date:**	03/17/09 12:25
Matrix:	GROUNDWATER	**Date Received:**	03/18/09 10:20
Inst. ID:	ICAP 61E	**Sample Size:** 50 mL	**PrepDate:** 03/18/09 0:00
ColumnID:		**%Moisture:**	**BatchNo:** 9136/R16868
Revision:	04/06/09 11:41	**TestCode:** 6010W05	**FileID:** 1-SAMP-102837
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP					**SW6010B**		**(SW3005A)**
Aluminum	0.87		0.10	0.060	mg/L	1	04/03/09 13:05
Antimony	ND		0.060	0.0030	mg/L	1	04/03/09 13:05
Arsenic	ND		0.010	0.0040	mg/L	1	04/03/09 13:05
Barium	0.13		0.10	0.0020	mg/L	1	04/03/09 13:05
Beryllium	ND		0.0030	0.00020	mg/L	1	04/03/09 13:05
Cadmium	ND		0.0050	0.0010	mg/L	1	04/03/09 13:05
Calcium	100		1.0	0.040	mg/L	1	04/03/09 13:05
Chromium	3.9		0.010	0.0028	mg/L	1	04/03/09 13:05
Cobalt	0.020	J	0.050	0.0060	mg/L	1	04/03/09 13:05
Copper	0.044		0.010	0.0028	mg/L	1	04/03/09 13:05
Iron	30		0.050	0.010	mg/L	1	04/03/09 13:05
Lead	ND		0.010	0.0040	mg/L	1	04/03/09 13:05
Magnesium	12		1.0	0.040	mg/L	1	04/03/09 13:05
Nickel	0.81		0.050	0.0020	mg/L	1	04/03/09 13:05
Potassium	3.1	J	5.0	0.20	mg/L	1	04/03/09 13:05
Silver	ND		0.010	0.0020	mg/L	1	04/03/09 13:05
Sodium	36		1.0	0.040	mg/L	1	04/03/09 13:05
Vanadium	0.017	J	0.050	0.0020	mg/L	1	04/03/09 13:05
Zinc	0.0066	J	0.020	0.0040	mg/L	1	04/03/09 13:05

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:28 437090 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903109-007CDL**
Project:	Ramapo	**Client Sample ID:**	*3-OS*
W Order:	0903109	**Collection Date:**	03/17/09 12:25
Matrix:	GROUNDWATER	**Date Received:**	03/18/09 10:20
Inst. ID:	ICAP 61E	**Sample Size:** 50 mL	**PrepDate:** 03/18/09 0:00
ColumnID:		**%Moisture:**	**BatchNo:** 9136/R16868
Revision:	04/06/09 11:41	**TestCode:** 6010W05	**FileID:** 1-DL-102838
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP					**SW6010B**		**(SW3005A)**
Manganese	14		0.10	0.0030	mg/L	2	04/03/09 13:09
Selenium	ND		0.020	0.010	mg/L	2	04/03/09 13:09
Thallium	ND		0.040	0.020	mg/L	2	04/03/09 13:09

Qualifiers:					
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:28 437091 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.

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Analytical Results

StateCertNo: 10155

CLIENT:	Sterling Environmental Engineering, P.C.	**Lab ID:**	**0903109-007D**
Project:	Ramapo	**Client Sample ID:**	*3-OS*
W Order:	0903109	**Collection Date:**	03/17/09 12:25
Matrix:	GROUNDWATER	**Date Received:**	03/18/09 10:20
Inst. ID:	MS02_12 **Sample Size:** 25 mL	**PrepDate:**	
ColumnID:	Rtx-502.2 **%Moisture:**	**BatchNo:**	R16773
Revision:	03/25/09 15:19 **TestCode:** 8260W	**FileID:**	1-SAMP-M5932.D
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					**SW8260B**		
1,1-Dichloroethane	ND		0.50	0.10	µg/L	1	03/24/09 15:18
Benzene	ND		0.50	0.10	µg/L	1	03/24/09 15:18
Chlorobenzene	ND		0.50	0.10	µg/L	1	03/24/09 15:18
Vinyl chloride	ND		1.00	0.33	µg/L	1	03/24/09 15:18
Surr: 1,2-Dichloroethane-d4	111		75-134	0.16	%REC	1	03/24/09 15:18
Surr: 4-Bromofluorobenzene	102		75-125	0.10	%REC	1	03/24/09 15:18
Surr: Toluene-d8	107		75-125	0.10	%REC	1	03/24/09 15:18

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 04/10/09 13:28 435565 **Project Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
Brittonfield Lab

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(315) 437-0200

Chain of Custody

Client: Sterling Environmental Engineering, P.C.

Project: Town of Ramapo Landfill

Sampled by: Jessica Sgambati + Jeremy Coote

Client Contact: Jessica Sgambati Phone # 518-456-4900

Sample Description

Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers	Analysis/Method: TKN, COD, Alkalinity, Hardness as CaCO3	Analysis/Method: 1,1-Dichloroethane, Vinyl Chloride, Benzene	Analysis/Method: Chlorobenzene, Total TAL Metals	Comments
9-R	3/16/09	12:40	GW	Grab	7				Antimony Method 200.8 for 0.3 ppb reporting limit.
9-DS		12:50							
9-I		13:00							
8-I		17:30							
8-R		18:10							
8-DS		17:50							

Relinquished by:	Date: 3/16/09	Time: 7:00	Received by: Date: Time:
Relinquished by:	Date:	Time:	Received by: Date: Time:
Relinquished by:	Date:	Time:	Received by Lab: Date: 3/17/09 Time: 10:16
Shipment Method:			Airbill Number:

Turnaround Time Required:
Routine ✓
Rush (Specify)

Comments: Custody Seals Intact

Temperature: 2.2°C on ice

221

Original - Laboratory
Copy - Client

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Brittonfield Lab

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

Chain of Custody

Client: Sterling Environmental Engineering

Project: Town of Remsen Landfill

Sampled by: Jessica Sgambati + Jeremy Crate

Client Contact: Jessica Sgambati Phone # ~~518~~ 518-456-4900

Sample Description

Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers	Analysis/Method: TKN, COD, Alkalinity, Hardness as CaCO3, 1,1-Dichloroethane, Vinyl Chloride, Benzene, Chlorobenzene, and TAL metals	Comments
7-05/MS	3/16/09	14:20	GW	Grab	7		Antimony method 200.8 for 0.3 ppb reporting limit.
7-05		14:15					
DUP-3/09		14:30					
7-05/MSD		14:25					
PW-1		13:15					
PW-2		13:30					
5-05		15:50					

Relinquished by:	Date: 3/16/09 Time: 7:00	Received by:	Date: Time:
Relinquished by:	Date: Time:	Received by:	Date: Time:
Relinquished by:	Date: Time:	Received by Lab:	Date: 3/17/09 Time: 1016
Shipment Method:		Airbill Number:	

Turnaround Time Required:
Routine ✓
Rush (Specify)

Comments: Custody Seals INTACT

Temperature: 2.4° C on ice

222

Original - Laboratory
Copy - Client

Life Science Laboratories, Inc.
Brittonfield Lab

5000 Brittonfield Parkway, Suite 200
East Syracuse, New York 13057
(315) 437-0200

Chain of Custody

Client: Sterling Environmental Engineering, P.C.

Project: Town of ~~Ramapo~~ Ramapo Landfill

Sampled by: Jessica Sgambati + Jeremy Coote

Client Contact: ~~518-456-4900~~ Jessica Sgambati Phone # 518-456-4900

Sample Description

Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers	Analysis/Method: TKN, COD, Alkalinity, Hardness as CaCO3, PP 1,1-Dichloroethene, Vinyl Chloride, Benzene, Chlorobenzene, and TAL Metals	Comments
4-05	3/17/09	9:10	GW	Grab	7		Antimony Method 200.8 for 0.3 ppb reporting limit.
SVWC No. 93		9:35					
SVWC No. 95		9:52					
SVWC No. 96		10:00					Also 3-05 produced insufficient water, so please analyze what what you can with what we provided for 3-05. Thanks!
2-05		10:45					
1-05		11:45					
3-05		12:25					

Relinquished by:	Date: 3/17/09	Time: 1:30	Received by: Date: Time:
Relinquished by:	Date:	Time:	Received by: Date: Time:
Relinquished by:	Date:	Time:	Received by Lab: Date: 3/18/09 Time: 1020
Shipment Method:			Airbill Number:

Turnaround Time Required:
Routine ✓
Rush (Specify) _____

Temperature: 4.8°C on ice

Comments:

228

Original - Laboratory
Copy - Client