STERLING
Sterling Environmental Engineering, P.C.

September 6, 2005

Mr. Saiban Mahamooth
Environmental Engineer I
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
2005 Annual Monitoring Results
STERLING File #20010

Dear Mr. Mahamooth,

This letter report provides groundwater, drinking water and air monitoring results for the 2005 annual post-closure monitoring event at the Town of Ramapo Landfill Remediation Project. On October 27, 2003, the New York State Department of Environmental Conservation (NYSDEC) approved a variance request that lowered the monitoring frequency to annual for groundwater, drinking water and air monitoring.

Groundwater and private water supply samples were collected on June 28 and 29, 2005, from post-closure monitoring well locations 1-OS, 2-OS, 3-OS/I, 4-OS, 5-OS, 7-OS, 8-OS, 8-I, 8-R, 9-OS, 9-I, 9-R, and water supply wells PW-1, PW-2, and SVWC-93 through SVWC-96. Static water level readings were obtained for all well locations. Sampling locations are shown on the attached Figure 4-1, "Ramapo Landfill Sample Locations." A representative from United Water New York was present during sampling of the SVWC water supply wells, and representatives from the Rockland County Department of Health (RCDOH) and the NYSDEC were present during sampling of groundwater monitoring well cluster 9 and the water supply wells.

Additionally, the 2005 field activities included the annual air monitoring event.

GROUNDWATER MONITORING

Field parameters measured at the time of sampling are presented on Table 1, "Field Parameters and Water Levels" (see attached). All samples were analyzed for approved post-closure "Baseline" and "Site Related Parameters" by Severn Trent Laboratories located in Newburgh, New York, according to United States Environmental Protection Agency (USEPA) methodologies and protocols.

Analytical results are summarized on Table 2, "Post-Closure Groundwater Quality Monitoring Analytical Results", (see attached) which also includes historical analytical data for the previous three (3) sampling events. Historic analytical data for the four (4) target compounds (Benzene, Chromium, Iron and Manganese) are presented on Tables 3A through 3D. A copy of the laboratory report for the June 2005 sampling event, prepared according to NYSDEC ASP Category A reporting requirements, is attached.

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During the June 2005 sampling event, a blind field duplicate sample was collected from groundwater well 1-OS. Where results differ, the higher of the two results are reported in this report and on Table 2, which has been noted appropriately.

As presented on Tables 2 and 3A through 3D (see attached), the latest monitoring results are generally consistent with past results. A brief discussion of the latest monitoring results with respect to applicable groundwater standards and guidance values (termed "ARARs" in past reports) for each well follows:

Well 1-OS:

Well 1-OS was sampled during the June 2005 monitoring event following repairs made to the well on June 13, 2005. The well had not been sampled since the end of 2002 due to a damaged well casing and well pipe therefore there is no current comparison values for this well.

Well 2-OS:

Consistent with past results, Chromium and Manganese exceed the applicable ARARs. No Volatile Organic Compounds (VOCs) were detected in the sample from Well 2-OS during this monitoring event, or in the recent past.

Well 3-OS/I:

Consistent with historic results, Chromium, Iron, Manganese, Nickel, Sodium and Thallium exceed the applicable ARARs. During the June 2005 event, Thallium also exceeded the applicable ARAR, which has not exceeded the detection limit during any previous sampling event. No VOCs were detected in the sample from Well 3-OS/I during this monitoring event, or in the recent past.

Well 4-OS:

Consistent with historic and recent past results, Iron, Manganese and Sodium exceed applicable ARARs. Additionally, Chromium was detected above the ARARs during this event. No VOCs were detected in the sample from Well 4-OS during this monitoring event, or in the recent past.

Well 5-I (Sampled because 5-OS was dry):

There were no exceedences of applicable ARARs or VOCs during this event. This well was last sampled in October 2003, at which time exceedences of Antimony, Iron and manganese were reported.

Well 7-OS:

Consistent with historic results, Iron exceeded the applicable ARAR. No VOCs were detected in the sample from Well 7-OS during this monitoring event, or in the recent past.

Well 8-OS:

Consistent with historic analytical results, Iron and Manganese exceed applicable ARARs. No VOCs were detected in the sample from Well 8-OS during this monitoring event, or in the recent past.

Well 8-I:

Consistent with recent historic analytical results, Iron, Manganese and Sodium exceed applicable ARARs. Additionally, Thallium exceeded the applicable ARAR, however, the laboratory reported the spiked sample recovery not within controls limits and the value was less than the Contract Required Detection Limit (CRDL) but greater than the instrument detection limit. Chlorobenzene was detected at this location, which is consistent with historic results, but was not in exceedence of the applicable ARAR during this monitoring event.

Well 8-R:

Consistent with historic analytical results, Iron, Magnesium, Manganese and Sodium exceed applicable ARARs. Additionally, Thallium exceeded the applicable ARAR for the same reasons as reported for Well 8-I above. No VOCs were detected at this monitoring location during this monitoring event.

Well 9-OS:

Consistent with past results, Iron exceeds the applicable ARARs. No VOCs were detected at this monitoring location during this monitoring event.

Well 9-I:

Consistent with historic analytical results, Iron exceeds the ARAR. No VOCs were detected at this monitoring location during this monitoring event.

Well 9-R:

Consistent with recent and historic results, Iron and Manganese exceed applicable ARARs. Additionally, Sodium exceeded the applicable ARAR. Sodium has exceeded the applicable ARAR in the past and the levels reported hover just above or below the ARAR. No VOCs were detected at this monitoring location during this monitoring event.

Well PW-1:

There were no exceedances of applicable ARARs during this monitoring event. No VOCs were detected in the sample from Well PW-1 during this monitoring event, or in the recent past.

Well PW-2:

There were no exceedances of applicable ARARs during this monitoring event. No VOCs were detected in the sample from Well PW-2 during this monitoring event, or in the recent past.

Well SVWC-93:

The latest analytical results for all parameters are consistent with recent past results, including a slight exceedance of Sodium. No VOCs were detected in the sample from Well SVWC-93 during this monitoring event, or in the recent past.

Well SVWC-94:

The latest analytical results for all parameters are consistent with recent past results, including Sodium slightly exceeding the applicable ARAR. No VOCs were detected in the sample from Well SVWC-94 during this monitoring event, or in the recent past.

Well SVWC-95:

The latest analytical results for all parameters are consistent with recent past results, including Sodium slightly exceeding the applicable ARAR. No VOCs were detected in the sample from Well SVWC-95 during this monitoring event, or in the recent past.

Well SVWC-96:

There were no exceedances of applicable ARARs during this or recent past monitoring events, with the exception of Sodium, detected during this monitoring event. Sodium was detected during this event and the previous event, at concentrations slightly above the ARAR. Sodium exceedences have been reported in the past, but appear to be sporadic. Overall, the latest monitoring results are comparable to recent past results. No VOCs were detected in the sample from Well SVWC-96 during this monitoring event, or in the recent past.

AIR QUALITY MONITORING

Air monitoring consisted of explosive gas (Lower Explosive Limit, or LEL), Hydrogen Sulfide (H_2S) and photoionization detector (PID) measurements of the headspace of each monitoring well, the baler building, leachate Manhole A-5, lift stations A-10 and W-20, and the landfill perimeter. LEL and H_2S measurements were obtained with a QRAE Multi gas monitor, and PID measurements were obtained with a Photovac 2020 photoionization device.

Results of the 2005 air monitoring event are presented on Table 4 (see attached). No elevated readings were obtained during this event. Based on the June 2005 air monitoring results, the Landfill is in compliance with the requirements of 6 NYCRR 360-2.15(k)(4). On-site and off-site LEL readings are within acceptable limits.

Monitoring location "Manhole A-5" could not be found. As has been past practice, Location "W-1", which is located where "Manhole A-5" is depicted on Figure 4-2 prepared by URS Consultants, Inc., was used as the air monitoring location.

The next sampling event is scheduled to occur in September 2006. Please call me at 518/456-4900 should you have any questions or comments.

Very truly yours,

STERLING ENVIRONMENTAL ENGINEERING, P.C.

Shelby N. LaBare
Environmental Engineer
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SNL/bc
First Class Mail
Attachments (Figure 4-1, Tables 1, 2, 3A through 3D, and 4, 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 **
Frank Digianni, 20 Torne Brook Road **
Ms. Arlene Lapidos, Ramapo Land Co., Inc. *

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

20010/Reports/2005 Annual Results.doc

TABLE 1

TOWN OF RAMAPO LANDFILL
POST-CLOSURE GROUNDWATER QUALITY MONITORING
FIELD PARAMETERS AND WATER LEVELS
June 2005

Well I.D.	Date	Static Water Level [1] (feet)	pH [2] (pH units)	Specific Conductance (mmhos)	Temperature (degrees C)	Eh (mV)
1-I	6/29/2005	16.6	—	—	—	—
1-OS	6/29/2005	17.7	6.71	789.00	18.55	-8.40
1-R	6/29/2005	19.25	—	—	—	—
2-I	6/29/2005	18.10	—	—	—	—
2-OS	6/29/2005	16.45	7.19	501.00	15.97	94.90
2-R	6/29/2005	19.25	—	—	—	—
3-OS/I	6/29/2005	13.49	**6.43**	676.00	23.00	201.40
3-R	6/29/2005	15.70	—	—	—	—
4-OS	6/28/2005	8.11	**6.44**	552.00	15.33	89.70
4-R	6/28/2005	10.50	—	—	—	—
5-OS	6/29/2005	14.38	—	—	—	—
5-I	6/29/2005	27.55	7.93	119.00	19.72	132.30
5-R	6/29/2005	16.50	—	—	—	—
6-I	6/29/2005	19.90	—	—	—	—
6-R	6/29/2005	31.50	—	—	—	—
7-OS	6/28/2005	14.70	**6.40**	375.00	18.47	97.90
7-I	6/28/2005	15.30	—	—	—	—
7-R	6/28/2005	1/15/1900	—	—	—	—
8-OS	6/28/2005	14.50	**6.35**	140	14.0	98.2
8-I	6/28/2005	15.71	6.81	1672	15.7	-70.4
8-R	6/28/2005	14.67	6.83	1266	17.8	13.2
9-OS	6/28/2005	9.00	**5.99**	87	19.8	34.9
9-I	6/28/2005	12.10	**5.92**	111	14.3	89
9-R	6/28/2005	13.23	6.68	441	11.7	-86.1
PW-1	6/28/2005	—	**5.90**	222	14.2	137.1
PW-2	6/28/2005	—	7.04	153	14.1	-37.6
SVWC-93	6/28/2005	—	6.51	445	12.1	-31.1
SVWC-94	6/28/2005	---	6.65	422	13.5	-42.3
SVWC-95	6/28/2005	---	6.73	404	15.0	-83.2
SVWC-96	6/28/2005	---	6.65	469	15.3	-54.1

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

[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] Well protective casing was found to be damaged, which prevented access to the well.

--- Not Measured

TABLE 2

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

Parameter	ARARs [1]	UNITS	WELL 1-OS Jul-03 [4]	Oct-03 [5]	Mar-04 [3]	Jun-05 [3] [DUP]	WELL 2-OS Jul-03 [4]	Oct-03 [4]	Mar-04 [3]	Jun-05 [3]
Leachate Indicator Parameters:										
Alkalinity	—	mg/L	NA	NA	NA	224	NA	252	274	222
Chemical Oxygen Demand	—	mg/L	NA	NA	NA	32.3	NA	28.5	23	14.5
Total Hardness	—	mg/L	NA	NA	NA	230	NA	281	326	259
Total Kjeldhal Nitrogen	—	mg/L	NA	NA	NA	1 UN	NA	1 U	1 U	1 UN
TAL Metals:										
Aluminum	—	ug/L	NA	NA	NA	765	NA	NA	8880	1190
Antimony	3	ug/L	NA	NA	NA	0.12 U	NA	**24.6 B**	7.1 U	0.12 U
Arsenic	25	ug/L	NA	NA	NA	8.1 B	NA	4.2 B	7.4 B	4 B
Barium	1000	ug/L	NA	NA	NA	110 B	NA	NA	91.4 B	51.4 B
Beryllium	3	ug/L	NA	NA	NA	0.4 U	NA	NA	0.5 B	0.4 U
Cadmium	5	ug/L	NA	NA	NA	0.8 U	NA	0.3 U	0.4 U	0.8 U
Calcium	—	ug/L	NA	NA	NA	69400	NA	NA	95900	78200
Chromium	50	ug/L	NA	NA	NA	31.4	NA	**52.9**	**87.1**	**101**
Cobalt	—	ug/L	NA	NA	NA	9.1 B	NA	NA	21.7 B	12.4 B
Copper	200	ug/L	NA	NA	NA	25.9	NA	19.3 B	25.4	15.9 B
Iron	300 [2]	ug/L	NA	NA	NA	**54200 N**	NA	**14700**	**14700**	144 N
Lead	25	ug/L	NA	NA	NA	5.8	NA	**29.2**	18.3 N	7.6
Magnesium	35000 GV	ug/L	NA	NA	NA	14000	NA	NA	21000	15600
Manganese	300 [2]	ug/L	NA	NA	NA	**4720**	NA	**1310**	**2300**	**778**
Mercury	0.7	ug/L	NA	NA	NA	0.16 U	NA	0.2 U	0.2 U	0.16 U
Nickel	100	ug/L	NA	NA	NA	9.2 B	NA	NA	56.8	52.1
Potassium	—	ug/L	NA	NA	NA	2670 B	NA	NA	4390 B	1870 B
Selenium	10	ug/L	NA	NA	NA	1.6 U	NA	NA	2.6 B	6.9 W
Silver	50	ug/L	NA	NA	NA	2.7 BN	NA	NA	1.9 UN	1.9 BN
Sodium	20000	ug/L	NA	NA	NA	**37100 E**	NA	NA	11000	8680 E
Thallium	0.5 GV	ug/L	NA	NA	NA	10.4	NA	NA	2.8 U	5.3 B
Vanadium	—	ug/L	NA	NA	NA	2 U	NA	NA	15.9 B	2.3 B
Zinc	2000 GV	ug/L	NA	NA	NA	26.2	NA	57	50.2	31.8
VOCs by EPA Method 601:										
Chlorobenzene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	7	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	5	ug/L	NA	NA	NA	1 U	NA	1 U	1 U	1 U
1,1,1-Trichloroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	5	ug/L	NA	NA	NA	1 U	NA	1 U	1 U	1 U
VOCs by EPA Method 602:										
Benzene	1	ug/L	NA	NA	NA	1 U	NA	1 U	1 U	1 U
Chlorobenzene	5	ug/L	NA	NA	NA	1 U	NA	1 U	1 U	1 U

NOTES:

[1] NYSDEC Water Quality Standards and Guidance Values, T.O.G.S. 1.1.1 (June 1998).

[2] The groundwater standard for the sum of Iron and Manganese concentrations is 500 mg/L.

[3] Sample analyzed for "Baseline Parameters".

[4] Sample analyzed for "Routine" and "Site-Related Parameters".

[5] Well protective casing is damaged and prevented access to the well.

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

NA Denotes Not Analyzed.

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

* Indicates that the duplicate analysis was not within laboratory control limits.

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

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

TABLE 2 (Continued)

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

	ARARs [1]	UNITS	WELL 3-OS/I				WELL 4-OS			
			Jul-03 [4]	Oct-03 [4]	Mar-04 [3]	Jun-05 [3]	Jul-03 [4]	Oct-03 [4][DUP]	Mar-04 [3][DUP]	Jun-05 [3]
Leachate Indicator Parameters:										
Alkalinity	—	mg/L	NA	275	287	206	NA	82	35.6	101
Chemical Oxygen Demand	—	mg/L	NA	53.5	28.5	17.5	NA	11.9	10 U	10 U
Total Hardness	—	mg/L	NA	277	261	255	NA	94.9	176	201
Total Kjeldhal Nitrogen	—	mg/L	NA	1 U	1 U	1.02 N	NA	1 U	1 U	1 U
TAL Metals:										
Aluminum	—	ug/L	NA	NA	3570	10.4 U	NA	NA	1370	386
Antimony	3	ug/L	NA	**155**	5.8 U	0.12 U	NA	**23.4 B**	7.1 U	0.12 U
Arsenic	25	ug/L	NA	5.9 B	1.9 U	3.1 U	NA	2.4 U	2.7 U	3.1 UN
Barium	1000	ug/L	NA	NA	86 B	122 B	NA	NA	47.8 B	32.7 BN
Beryllium	3	ug/L	NA	NA	0.3 U	0.4 U	NA	NA	0.4 U	0.4 U
Cadmium	5	ug/L	NA	1 B	0.58 B	1.6 B	NA	0.3 U	0.4 U	0.8 U
Calcium	—	ug/L	NA	NA	82700 E	84300	NA	NA	40300	52400
Chromium	50	ug/L	NA	**2810**	**816**	**2020**	NA	5 B	9.4 B	**56.7**
Cobalt	—	ug/L	NA	NA	14.9 B	9.3 B	NA	NA	3.2 U	2 B
Copper	200	ug/L	NA	33.3	13.7 B	51.8	NA	7.5 B	7.4 B	4.2 B
Iron	300 [2]	ug/L	NA	**39000**	**12900**	**60500 N**	NA	**2470**	**3050**	**1230**
Lead	25	ug/L	NA	17.1	2.2 B	3.1	NA	11.3	7.7 N	1.9 U
Magnesium	35000 GV	ug/L	NA	NA	13200	10700	NA	NA	18500	17100
Manganese	300 [2]	ug/L	NA	**14200**	**7200**	**6450**	NA	**690**	**338**	**700**
Mercury	0.7	ug/L	NA	0.2 U	0.2 U	0.16 U	NA	0.2 U	0.2 U	0.16 U
Nickel	100	ug/L	NA	NA	**434**	**1460**	NA	NA	7.3 B	87.8
Potassium	—	ug/L	NA	NA	5000 B	4010 B	NA	NA	2540 B	1390 B
Selenium	10	ug/L	NA	NA	1.3 US	1.6 U	NA	NA	1.9 B	3.9 UN
Silver	50	ug/L	NA	NA	4.3 BN	23.3 N	NA	NA	1.9 UN	3.8 BN
Sodium	20000	ug/L	NA	NA	**22600 E**	**29100 E**	NA	NA	**54600**	**20300**
Thallium	0.5 GV	ug/L	NA	NA	3.3 U	**12.7**	NA	NA	**5.4 B**	2.9 UN
Vanadium	—	ug/L	NA	NA	8.7 B	2 U	NA	NA	3.9 B	2 UN
Zinc	2000 GV	ug/L	NA	45.8	13.8 B	35.7	NA	8.2 B	11.8 B	22.5
VOCs by EPA Method 601:										
Chlorobenzene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	7	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	5	ug/L	NA	1 U	1 U	1 U	NA	1 U	1 U	1 U
1,1,1-Trichloroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	5	ug/L	NA	1 U	1 U	1 U	NA	1 U	1 U	1 U
VOCs by EPA Method 602:										NA
Benzene	1	ug/L	NA	1 U	1 U	1 U	NA	1 U	1 U	1 U
Chlorobenzene	5	ug/L	NA	1 U	1 U	1 U	NA	1 U	1 U	1 U

NOTES:
[1] NYSDEC Water Quality Standards and Guidance Values, T.O.G.S. 1.1.1 (June 1998).
[2] The groundwater standard for the sum of Iron and Manganese concentrations is 500 mg/L.
[3] Sample analyzed for "Baseline Parameters".
[4] Sample analyzed for "Routine" and "Site-Related Parameters".
[5] Well protective casing is damaged and prevented access to the well.
[DUP] Duplicate sample obtained at this location. The highest value given for the sample or the duplicate is reported.

NA Denotes Not Analyzed.
U Denotes that the compound was analyzed for, but not detected at the detection limit listed.
* Indicates that the duplicate analysis was not within laboratory control limits.
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 an estimated value because of the possible presence of interference.
N Spiked sample recovery not within control limits

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

TABLE 2 (Continued)

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

	ARARs [1]	UNITS	WELL 5-OS				WELL 5-I			
			Jul-03 [4]	Oct-03 [4]	Mar-04 [3]	Jun-05 [3]	Jul-03 [4]	Oct-03 [4]	Mar-04 [3]	Jun-05 [3]
Leachate Indicator Parameters:										
Alkalinity	—	mg/L	NA	NA	14.6	NA	NA	38	NA	41.2
Chemical Oxygen Demand	—	mg/L	NA	NA	53.5	NA	NA	67.3	NA	10 U
Total Hardness	—	mg/L	NA	NA	198	NA	NA	67.4	NA	49.3
Total Kjeldhal Nitrogen	—	mg/L	NA	NA	1 U	NA	NA	1.41	NA	1.25 N
TAL Metals:										
Aluminum	—	ug/L	NA	NA	98800	NA	NA	NA	NA	247
Antimony	3	ug/L	NA	NA	7.1 U	NA	NA	**9.4 B**	NA	0.12 U
Arsenic	25	ug/L	NA	NA	**30.4**	NA	NA	4 B	NA	3.1 U
Barium	1000	ug/L	NA	NA	512	NA	NA	NA	NA	8.6 B
Beryllium	3	ug/L	NA	NA	**4.9 B**	NA	NA	NA	NA	0.4 U
Cadmium	5	ug/L	NA	NA	0.4 U	NA	NA	2.2 B	NA	0.8 U
Calcium	—	ug/L	NA	NA	26400	NA	NA	NA	NA	12300
Chromium	50	ug/L	NA	NA	**237**	NA	NA	29.8	NA	5.6 B
Cobalt	—	ug/L	NA	NA	76.7	NA	NA	NA	NA	1.9 U
Copper	200	ug/L	NA	NA	183	NA	NA	26.8	NA	2.9 B
Iron	300 [2]	ug/L	NA	NA	**150000**	NA	NA	**21800**	NA	124 N
Lead	25	ug/L	NA	NA	**34 N**	NA	NA	9.2	NA	1.9 U
Magnesium	35000 GV	ug/L	NA	NA	32100	NA	NA	NA	NA	4510 B
Manganese	300 [2]	ug/L	NA	NA	**2040**	NA	NA	**577**	NA	13.6
Mercury	0.7	ug/L	NA	NA	0.2 U	NA	NA	0.2 U	NA	0.16 U
Nickel	100	ug/L	NA	NA	**132**	NA	NA	NA	NA	2.3 U
Potassium	—	ug/L	NA	NA	19900	NA	NA	NA	NA	799 B
Selenium	10	ug/L	NA	NA	1.7 BW	NA	NA	NA	NA	1.6 UW
Silver	50	ug/L	NA	NA	1.9 UN	NA	NA	NA	NA	1.1 UN
Sodium	20000	ug/L	NA	NA	8870	NA	NA	NA	NA	2880 BE
Thallium	0.5 GV	ug/L	NA	NA	2.8 U	NA	NA	NA	NA	5.1 B
Vanadium	—	ug/L	NA	NA	231	NA	NA	NA	NA	3.9 B
Zinc	2000 GV	ug/L	NA	NA	222	NA	NA	76.9	NA	5.9 B
VOCs by EPA Method 601:										
Chlorobenzene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	7	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	5	ug/L	NA	NA	1 U	NA	NA	1 U	NA	1 U
1,1,1-Trichloroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	5	ug/L	NA	NA	1 U	NA	NA	1 U	NA	1 U
VOCs by EPA Method 602:										
Benzene	1	ug/L	NA	NA	1 U	NA	NA	1 U	NA	1 U
Chlorobenzene	5	ug/L	NA	NA	1 U	NA	NA	1 U	NA	1 U

NOTES:
[1] NYSDEC Water Quality Standards and Guidance Values, T.O.G.S. 1.1.1 (June 1998).
[2] The groundwater standard for the sum of Iron and Manganese concentrations is 500 mg/L.
[3] Sample analyzed for "Baseline Parameters".
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TABLE 2 (Continued)

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

	ARARs [1]	UNITS	WELL 7-OS Jul-03 [4]	Oct-03 [4]	Mar-04 [3]	Jun-05 [3]	WELL 8-OS Jul-03 [4]	Oct-03 [4]	Mar-04 [3]	Jun-05 [3]
Leachate Indicator Parameters:										
Alkalinity	—	mg/L	NA	126	123	123	33	26	71.3	21.4
Chemical Oxygen Demand	—	mg/L	NA	10 U	34.1	10 U	10 U	10 U	10 U	10 U
Total Hardness	—	mg/L	NA	173	112	169	28.9	38.4	120	47.6
Total Kjeldhal Nitrogen	—	mg/L	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TAL Metals:										
Aluminum	—	ug/L	NA	NA	25000	1520	NA	NA	47.7 B	735
Antimony	3	ug/L	NA	**23.6 B**	5.8 U	0.12 U	5.5 U	**10.5 B**	5.8 U	0.13 B
Arsenic	25	ug/L	NA	2.4 U	9.8 B	3.1 UN	2.4 U	2.4 U	1.9 U	3.7 BN
Barium	1000	ug/L	NA	NA	201	102 BN	NA	NA	19.2 B	56.9 BN
Beryllium	3	ug/L	NA	NA	0.3 U	0.4 U	NA	NA	0.3 U	0.51 B
Cadmium	5	ug/L	NA	0.3 U	2.1 B	0.8 UN	0.3 U	0.3 U	0.42 B	0.8 UN
Calcium	—	ug/L	NA	NA	25800 E	48800	NA	NA	33600 E	14200
Chromium	50	ug/L	NA	2.4 B	**133**	5.7 B	20.2	2.2 B	10.3	29.6
Cobalt	—	ug/L	NA	NA	143	25.7 B	NA	NA	2.6 B	15.4 B
Copper	200	ug/L	NA	2.8 U	51.6	5.2 B	10.1 B	2.8 U	1.7 B	32.1
Iron	300 [2]	ug/L	NA	**633**	**38500**	**1310**	**2480**	**705**	**1030**	**3150**
Lead	25	ug/L	NA	2.2 U	12.8	2.5 B	2.2 U	2.2 U	1.1 U	1.9 U
Magnesium	35000 GV	ug/L	NA	NA	11600	11500	NA	NA	8750	2950 B
Manganese	300 [2]	ug/L	NA	76.4	**2140**	222	**760**	235	**1590**	**691**
Mercury	0.7	ug/L	NA	0.2 U	0.2 U	0.16 U	0.2 U	0.2 U	0.2 U	0.16 U
Nickel	100	ug/L	NA	NA	41.8	2.3 U	NA	NA	7.9 B	61.9
Potassium	—	ug/L	NA	NA	7570	4930 B	NA	NA	2330 B	1370 B
Selenium	10	ug/L	NA	NA	1.9 B	3.9 UN	NA	NA	3.2 BW	3.9 UN
Silver	50	ug/L	NA	NA	2.2 UN	2 BN	NA	NA	2.2 UN	3.7 BN
Sodium	20000	ug/L	NA	NA	5000 E	9190	NA	NA	17100 E	8400
Thallium	0.5 GV	ug/L	NA	NA	3.3 U	2.9 UN	NA	NA	3.3 U	2.9 UN
Vanadium	—	ug/L	NA	NA	50.5	2.8 BN	NA	NA	2.3 U	2.4 BN
Zinc	2000 GV	ug/L	NA	3.3 B	77.4	13.4 B	5.9 B	2.8 U	5.7 B	56.7
VOCs by EPA Method 601:										
Chlorobenzene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	7	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	5	ug/L	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	5	ug/L	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U
VOCs by EPA Method 602:										
Benzene	1	ug/L	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	ug/L	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U

NOTES:
[1] NYSDEC Water Quality Standards and Guidance Values, T.O.G.S. 1.1.1 (June 1998).
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TABLE 2 (Continued)

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

	ARARs [1]	UNITS	WELL 8-I				WELL 8-R			
			Jul-03	Oct-03	Mar-04	Jun-05	Jul-03	Oct-03	Mar-04	Jun-05
			[4]	[4]	[3]	[3]	[4]	[4]	[3]	[3]
Leachate Indicator Parameters:										
Alkalinity	—	mg/L	222	180	581	564	458	472	533	505
Chemical Oxygen Demand	—	mg/L	26.9	17.5	97.8	50.1	24.1	20.2	39.6	10 U
Total Hardness	—	mg/L	168	153	382	360	568	528	561	600
Total Kjeldhal Nitrogen	—	mg/L	18.6	18.6	35.8	10.2	3.46	4.91	5.25	1.78
TAL Metals:										
Aluminum	—	ug/L	NA	NA	7040	184 B	NA	NA	18.2 U	10.4 U
Antimony	3	ug/L	**7.5 B**	**20.7 B**	5.8 U	0.12 U	**8 B**	**22.7 B**	5.8 U	0.12 U
Arsenic	25	ug/L	7.8 B	6.6 B	8.9 B	8.6 BN	2.4 U	2.4 U	1.9 U	3.1 UN
Barium	1000	ug/L	NA	NA	159 B	111 BN	NA	NA	34.2 B	20.8 BN
Beryllium	3	ug/L	NA	NA	0.3 U	0.4 U	NA	NA	0.3 U	0.4 U
Cadmium	5	ug/L	0.3 U	0.3 U	0.4 U	0.8 UN	0.3 U	0.3 U	0.4 U	0.8 UN
Calcium	—	ug/L	NA	NA	96800 E	93200	NA	NA	157000 E	169000
Chromium	50	ug/L	8.8 B	1.4 B	19.4	3.3 B	15.2	0.8 U	2 B	2.5 B
Cobalt	—	ug/L	NA	NA	13.2 B	8.6 B	NA	NA	14.7 B	13.8 B
Copper	200	ug/L	9.4 B	2.8 U	14.2 B	1.2 U	30	2.9 B	1.8 B	3 B
Iron	300 [2]	ug/L	**12500**	**8310**	**29700**	**13900**	**2440**	**1090**	**1160**	**751**
Lead	25	ug/L	3.6	2.2 U	3	1.9 U	6.1	2.2 U	1.1 U	3.5
Magnesium	35000 GV	ug/L	NA	NA	34100	31000	NA	NA	**41000**	**43000**
Manganese	300 [2]	ug/L	**2540**	**2590**	**4650**	**3090**	**2190**	**2040**	**2150**	**2190**
Mercury	0.7	ug/L	0.2 U	0.2 U	0.2 U	0.16 U	0.2 U	0.2 U	0.2 U	0.16 U
Nickel	100	ug/L	NA	NA	29.4 B	15.6 B	NA	NA	15 B	11.5 B
Potassium	—	ug/L	NA	NA	60400	52500	NA	NA	10300	7630
Selenium	10	ug/L	NA	NA	1.3 US	3.9 UN	NA	NA	2 B	3.9 UN
Silver	50	ug/L	NA	NA	2.2 UN	2.2 BN	NA	NA	2.2 UN	4.3 BN
Sodium	20000	ug/L	NA	NA	**110000 E**	**124000**	NA	NA	**47300 E**	**42200**
Thallium	0.5 GV	ug/L	NA	NA	3.3 U	**4.6 BN**	NA	NA	3.3 U	**4.6 BN**
Vanadium	—	ug/L	NA	NA	16.1 B	2 UN	NA	NA	2.3 U	2 UN
Zinc	2000 GV	ug/L	73.1	2.8 U	33.1	5.4 B	2.9 U	2.8 U	3.9 U	8.6 B
VOCs by EPA Method 601:										
Chlorobenzene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	7	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	5	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	5	ug/L	1 U	1 U	1 U	1 U	1 U	2	1.7	1 U
VOCs by EPA Method 602:										
Benzene	1	ug/L	1 U	1 U	0.6 J	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	ug/L	0.6 J	0.81 J	2.3	1.6	1 U	1 U	1 U	1 U

NOTES:
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TABLE 2 (Continued)

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

	ARARs [1]	UNITS	WELL 9-OS				WELL 9-I			
			Jul-03 [4]	Oct-03 [4]	Mar-04 [3]	Jun-05 [3]	Jul-03 [4]	Oct-03 [4]	Mar-04 [3]	Jun-05 [3]
Leachate Indicator Parameters:										
Alkalinity	—	mg/L	24.5	11	8.76	15.5	22.4	10	9.85	10.8
Chemical Oxygen Demand	—	mg/L	10 U	10 U	10 U	47.2	10 U	11.9	10 U	10 U
Total Hardness	—	mg/L	19.2	18.5	18.3	25.8	29.9	19.6	19.1	31.3
Total Kjeldhal Nitrogen	—	mg/L	1 U	1 U	1 U	1.05	1 U	1 U	1 U	1 U
TAL Metals:										
Aluminum	—	ug/L	NA	NA	311	291	NA	NA	965	173 B
Antimony	3	ug/L	5.5 U	**7.5 B**	5.8 U	0.15 B	5.5 U	5.5 U	5.8 U	0.12 U
Arsenic	25	ug/L	2.4 U	2.4 U	1.9 U	3.1 UN	2.7 B	2.4 U	1.9 U	3.1 UN
Barium	1000	ug/L	NA	NA	7.7 B	11.7 BN	NA	NA	15.9 B	9.2 BN
Beryllium	3	ug/L	NA	NA	0.3 U	0.4 U	NA	NA	0.3 U	0.4 U
Cadmium	5	ug/L	0.3 U	0.3 U	0.4 U	0.8 UN	0.3 U	0.3 U	0.4 U	0.8 UN
Calcium	—	ug/L	NA	NA	4980 BE	7100	NA	NA	5110 E	8840
Chromium	50	ug/L	2.1 B	5 B	10.4	2.4 B	9.5 B	2 B	2.8 B	1.4 B
Cobalt	—	ug/L	NA	NA	2.5 U	1.9 U	NA	NA	2.5 U	1.9 U
Copper	200	ug/L	3.2 B	1.7 U	1.6 U	1.2 U	10.4 B	1.7 U	2.8 B	1.2 U
Iron	300 [2]	ug/L	288	**656**	**506**	**453**	**7250**	**514**	**1630**	**318**
Lead	25	ug/L	2.2 U	2.5 B	1.1 U	1.9 U	2.8 B	2.2 B	1.1 U	1.9 U
Magnesium	35000 GV	ug/L	NA	NA	1420 B	1950 B	NA	NA	1530 B	2230 B
Manganese	300 [2]	ug/L	7.9 B	15.5	4.4 B	27.7	115	15.1	19	11.6
Mercury	0.7	ug/L	0.2 U	0.2 U	0.2 U	0.16 U	0.2 U	0.2 U	0.2 U	0.16 U
Nickel	100	ug/L	NA	NA	1.7 U	2.3 U	NA	NA	1.7 U	2.3 U
Potassium	—	ug/L	NA	NA	896 B	3320 B	NA	NA	916 B	608 B
Selenium	10	ug/L	NA	NA	2 B	3.9 UN	NA	NA	1.9 B	3.9 UN
Silver	50	ug/L	NA	NA	2.2 UN	1.1 UN	NA	NA	2.2 UN	1.1 UN
Sodium	20000	ug/L	NA	NA	3220 BE	4160 B	NA	NA	3690 BE	5530
Thallium	0.5 GV	ug/L	NA	NA	3.3 U	2.9 UN	NA	NA	3.3 U	2.9 UN
Vanadium	—	ug/L	NA	NA	2.3 U	2 UN	NA	NA	2.3 U	2 UN
Zinc	2000 GV	ug/L	79.3	5.2 B	3.9 U	9.3 B	62.4	4.3 B	7.5 B	5.6 B
VOCs by EPA Method 601:										
Chlorobenzene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	7	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	5	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	5	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
VOCs by EPA Method 602:										
Benzene	1	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

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TABLE 2 (Continued)

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

	ARARs [1]	UNITS	WELL 9-R			
			Jul-03 [4]	Oct-03 [4]	Mar-04 [3]	Jun-05 [3]
Leachate Indicator Parameters:						
Alkalinity	—	mg/L	85.2	86	91.6	5 U
Chemical Oxygen Demand	—	mg/L	10 U	14.7	11.9	10 U
Total Hardness	—	mg/L	85	73	67	102
Total Kjeldhal Nitrogen	—	mg/L	6.27	5.6	4.87	6.78
TAL Metals:						
Aluminum	—	ug/L	NA	NA	286	26.5 B
Antimony	3	ug/L	**9.7 B**	**10.2 B**	5.8 U	0.12 U
Arsenic	25	ug/L	2.4 B	3.3 B	3.4 B	3.1 UN
Barium	1000	ug/L	NA	NA	19.1 B	23.3 BN
Beryllium	3	ug/L	NA	NA	0.3 U	0.4 U
Cadmium	5	ug/L	0.3 U	0.3 U	0.9 B	0.8 UN
Calcium	—	ug/L	NA	NA	17200 E	26700
Chromium	50	ug/L	1.5 B	1.1 B	2.6 B	1.9 B
Cobalt	—	ug/L	NA	NA	2.6 B	2.8 B
Copper	200	ug/L	9.9 B	9.4 B	2.2 B	1.2 U
Iron	300 [2]	ug/L	**5610**	**4660**	**4890**	**6430**
Lead	25	ug/L	3.4	7.1	1.1 U	1.9 U
Magnesium	35000 GV	ug/L	NA	NA	5850	8520
Manganese	300 [2]	ug/L	**2550**	**2090**	**1980**	**2730**
Mercury	0.7	ug/L	0.2 U	0.2 U	0.2 U	0.16 U
Nickel	100	ug/L	NA	NA	1.7 U	2.3 U
Potassium	—	ug/L	NA	NA	9850	10100
Selenium	10	ug/L	NA	NA	2.7 BW	3.9 UN
Silver	50	ug/L	NA	NA	2.2 UN	1.4 BN
Sodium	20000	ug/L	NA	NA	14600 E	**22500**
Thallium	0.5 GV	ug/L	NA	NA	3.3 U	2.9 UN
Vanadium	—	ug/L	NA	NA	2.3 U	2 UN
Zinc	2000 GV	ug/L	2.9 U	2.8 U	4.1 B	3.2 B
VOCs by EPA Method 601:						
Chlorobenzene	5	ug/L	NA	NA	NA	NA
Chloroethane	5	ug/L	NA	NA	NA	NA
Chloroform	7	ug/L	NA	NA	NA	NA
1,4-Dichlorobenzene	3	ug/L	NA	NA	NA	NA
Dichlorodifluoromethane	5	ug/L	NA	NA	NA	NA
1,1-Dichloroethane	5	ug/L	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	ug/L	NA	NA	NA	NA
Vinyl Chloride	5	ug/L	1 U	1 U	1 U	1 U
VOCs by EPA Method 602:						
Benzene	1	ug/L	1 U	1 U	1 U	1 U
Chlorobenzene	5	ug/L	1 U	1 U	1 U	1 U

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TABLE 2 (Continued)

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

	ARARs [1]	UNITS	WELL PW-1				WELL PW-2			
			Jul-03	Oct-03	Mar-04	Jun-05	Jul-03	Oct-03	Mar-04	Jun-05
			[4]	[4]	[3]	[3]	[4] [DUP]	[4]	[3]	[3]
Leachate Indicator Parameters:										
Alkalinity	—	mg/L	20.2	20	13.5	13.5	72.4	64	69.6	37.9
Chemical Oxygen Demand	—	mg/L	10 U	10 U	10 U	10 U	10 U	10 U	11.9	10 U
Total Hardness	—	mg/L	36.7	31.9	32.6	66.7	103	97.2	99.6	56.6
Total Kjeldhal Nitrogen	—	mg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TAL Metals:										
Aluminum	—	ug/L	NA	NA	18.2 U	10.4 U	NA	NA	18.2 U	10.4 U
Antimony	3	ug/L	5.5 U	**9.5 B**	5.8 U	0.12 U	**10.1 B**	**19.4 B**	5.8 U	0.12 U
Arsenic	25	ug/L	2.4 U	2.4 U	5.6 B	3.1 UN	2.4 U	2.4 U	1.9 U	3.1 UN
Barium	1000	ug/L	NA	NA	7.1 B	11.2 BN	NA	NA	3.1 B	7.1 UN
Beryllium	3	ug/L	NA	NA	0.38 B	0.4 U	NA	NA	0.3 U	0.4 U
Cadmium	5	ug/L	0.3 U	0.3 U	0.88 B	0.8 UN	0.3 U	0.3 U	0.4 U	0.8 UN
Calcium	—	ug/L	NA	NA	8650 E	18400	NA	NA	32900 E	18800
Chromium	50	ug/L	1.6 B	0.73 B	1.3 B	0.9 U	2.2 B	1.9 B	1.5 B	0.9 U
Cobalt	—	ug/L	NA	NA	2.5 U	1.9 U	NA	NA	2.5 U	1.9 U
Copper	200	ug/L	106	131	59.5	83.4	13.8 B	23.5 B	17.4 B	197
Iron	300 [2]	ug/L	47 U	47 U	20 B	18.6 B	47 U	47 U	27.5 B	115
Lead	25	ug/L	3.6	**81.9**	4.9	1.9 U	2.6 B	12.5	1.1 U	1.9 U
Magnesium	35000 GV	ug/L	NA	NA	2680 B	5070	NA	NA	4230 B	2320 B
Manganese	300 [2]	ug/L	1.2 B	0.69 B	0.9 U	2.1 U	2.7 B	1.6 B	0.9 U	2.1 U
Mercury	0.7	ug/L	0.2 U	0.2 U	0.2 U	0.16 U	0.2 U	0.2 U	0.2 U	0.16 U
Nickel	100	ug/L	NA	NA	1.7 U	2.3 U	NA	NA	1.7 U	2.3 U
Potassium	—	ug/L	NA	NA	1030 B	1260 B	NA	NA	1310 B	871 B
Selenium	10	ug/L	NA	NA	2.5 B	3.9 UN	NA	NA	2 B	3.9 UN
Silver	50	ug/L	NA	NA	2.2 UN	1.1 UN	NA	NA	2.2 UN	1.7 BN
Sodium	20000	ug/L	NA	NA	5410 E	11500	NA	NA	7730 E	5400
Thallium	0.5 GV	ug/L	NA	NA	3.3 U	2.9 UN	NA	NA	3.3 U	2.9 UN
Vanadium	—	ug/L	NA	NA	2.3 U	2 UN	NA	NA	2.3 U	2 UN
Zinc	2000 GV	ug/L	35	48.7	25.8	13.6 B	3.7 B	13.4 B	32.3	44.1
VOCs by EPA Method 601:										
Chlorobenzene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	7	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	5	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	5	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
VOCs by EPA Method 602:										
Benzene	1	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

NOTES:
[1] NYSDEC Water Quality Standards and Guidance Values, T.O.G.S. 1.1.1 (June 1998).
[2] The groundwater standard for the sum of Iron and Manganese concentrations is 500 mg/L.
[3] Sample analyzed for "Baseline Parameters".
[4] Sample analyzed for "Routine" and "Site-Related Parameters".
[5] Well protective casing is damaged and prevented access to the well.
[DUP] Duplicate sample obtained at this location. The highest value given for the sample or the duplicate is reported.

NA Denotes Not Analyzed.
U Denotes that the compound was analyzed for, but not detected at the detection limit listed.
* Indicates that the duplicate analysis was not within laboratory control limits.
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 an estimated value because of the possible presence of interference.
N Spiked sample recovery not within control limits

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

TABLE 2 (Continued)

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

	ARARs [1]	UNITS	SVWC-93				SVWC-94			
			Jul-03 [4]	Oct-03 [4]	Mar-04 [3]	Jun-05 [3]	Jul-03 [4]	Oct-03 [4]	Mar-04 [3]	Jun-05 [3]
Leachate Indicator Parameters:										
Alkalinity	—	mg/L	38.3	44	33	39.1	40.5	46	44	41.9
Chemical Oxygen Demand	—	mg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total Hardness	—	mg/L	63.8	64.3	78.3	84.1	59.7	69.6	88.7	88.2
Total Kjeldhal Nitrogen	—	mg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TAL Metals:										
Aluminum	—	ug/L	NA	NA	18.2 U	10.4 U	NA	NA	18.2 U	10.4 U
Antimony	3	ug/L	5.5 U	**8.6 B**	5.8 U	0.14 B	5.5 U	**7.1 B**	5.8 U	0.12 U
Arsenic	25	ug/L	2.4 U	2.4 U	1.9 U	4.2 BN	2.4 U	2.4 U	2.9 B	3.1 UN
Barium	1000	ug/L	NA	NA	10.3 B	9.7 BN	NA	NA	17.6 B	13.6 BN
Beryllium	3	ug/L	NA	NA	0.3 U	0.4 U	NA	NA	0.3 U	0.4 U
Cadmium	5	ug/L	0.3 U	0.36 B	0.4 U	0.8 UN	0.3 U	0.3 U	0.52 B	0.8 UN
Calcium	—	ug/L	NA	NA	21600 E	23500	NA	NA	24400 E	24600
Chromium	50	ug/L	1.4 B	1.3 B	1.4 B	0.9 U	1.5 B	0.75 B	1.9 B	0.93 B
Cobalt	—	ug/L	NA	NA	2.5 U	1.9 U	NA	NA	2.5 U	1.9 U
Copper	200	ug/L	5.4 B	6.2 B	10.6 B	3.9 B	9 B	6.6 B	9.8 B	5.4 B
Iron	300 [2]	ug/L	247	47 U	203	14.4 B	47 U	47 U	30.3 B	7.7 U
Lead	25	ug/L	2.2 U	7.1	1.1 U	2 B	2.2 U	5.7	1.1 U	1.9 U
Magnesium	35000 GV	ug/L	NA	NA	5900	6170	NA	NA	6760	6520
Manganese	300 [2]	ug/L	0.94 B	0.65 B	0.9 U	2.1 U	1.7 B	4.3 B	3.3 B	6.5 B
Mercury	0.7	ug/L	0.2 U	0.2 U	0.2 U	0.16 U	0.2 U	0.2 U	0.2 U	0.16 U
Nickel	100	ug/L	NA	NA	42.7	2.3 U	NA	NA	1.7 U	2.3 U
Potassium	—	ug/L	NA	NA	2090 B	2240 B	NA	NA	1990 B	1950 B
Selenium	10	ug/L	NA	NA	3.1 BW	6.8 N	NA	NA	2.3 B	3.9 UN
Silver	50	ug/L	NA	NA	2.2 UN	1.5 BN	NA	NA	2.2 UN	1.1 UN
Sodium	20000	ug/L	NA	NA	**33800 E**	**44100**	NA	NA	**35600 E**	**42300**
Thallium	0.5 GV	ug/L	NA	NA	3.3 U	2.9 UN	NA	NA	3.3 U	2.9 UN
Vanadium	—	ug/L	NA	NA	2.3 U	2 UN	NA	NA	2.3 U	2 UN
Zinc	2000 GV	ug/L	2.9 U	4.9 B	15.5 B	5.1 B	9.9 B	4.5 B	9 B	3.8 B
VOCs by EPA Method 601:										
Chlorobenzene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	7	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	5	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	5	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
VOCs by EPA Method 602:										
Benzene	1	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

NOTES:

[1] NYSDEC Water Quality Standards and Guidance Values, T.O.G.S. 1.1.1 (June 1998).

[2] The groundwater standard for the sum of Iron and Manganese concentrations is 500 mg/L.

[3] Sample analyzed for "Baseline Parameters".

[4] Sample analyzed for "Routine" and "Site-Related Parameters".

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

N Spiked sample recovery not within control limits

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

TABLE 2 (Continued)

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

	ARARs [1]	UNITS	SVWC-95				SVWC-96			
			Jul-03 [4]	Oct-03 [4]	Mar-04 [3]	Jun-05 [3]	Jul-03 [4]	Oct-03 [4]	Mar-04 [3]	Jun-05 [3]
Leachate Indicator Parameters:										
Alkalinity	—	mg/L	51.1	50	40	53.5	46.9	46	36.5	47.6
Chemical Oxygen Demand	—	mg/L	10 U	10 U	10 U	10 U	10 U	11.9	10 U	10 U
Total Hardness	—	mg/L	71.7	62.8	72.5	80.6	80.8	67.7	63.2	83.2
Total Kjeldhal Nitrogen	—	mg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TAL Metals:										
Aluminum	—	ug/L	NA	NA	18.2 U	10.4 U	NA	NA	18.2 U	10.4 U
Antimony	3	ug/L	5.5 U	**13.6 B**	5.8 U	0.12 U	**7.1 B**	**11.1 B**	5.8 U	0.12 U
Arsenic	25	ug/L	2.4 U	2.4 U	1.9 U	3.1 UN	2.4 U	2.4 U	1.9 U	3.1 UN
Barium	1000	ug/L	NA	NA	12.5 B	13.7 BN	NA	NA	9.6 B	10 BN
Beryllium	3	ug/L	NA	NA	0.3 U	0.4 U	NA	NA	0.3 U	0.4 U
Cadmium	5	ug/L	0.3 U	0.3 U	0.4 U	0.8 UN	0.3 U	0.3 U	0.4 U	0.8 UN
Calcium	—	ug/L	NA	NA	19500 E	22300	NA	NA	16900 E	22400
Chromium	50	ug/L	1.5 B	1.3 B	1.5 B	0.9 U	1 B	0.7 U	1.2 B	0.94 B
Cobalt	—	ug/L	NA	NA	2.5 U	1.9 U	NA	NA	2.5 U	1.9 U
Copper	200	ug/L	5.2 B	3.8 B	5.6 B	3 B	7.7 B	5.5 B	5.4 B	3.9 B
Iron	300 [2]	ug/L	47 U	47 U	157	17.2 B	47 U	47 U	16.8 U	7.7 U
Lead	25	ug/L	2.2 U	6.2	1.1 U	1.9 U	2.2 U	6.1	1.1 U	1.9 U
Magnesium	35000 GV	ug/L	NA	NA	5790	6030	NA	NA	5230	6250
Manganese	300 [2]	ug/L	86.5	84.6	88	86	0.6 U	0.6 U	0.9 U	2.1 U
Mercury	0.7	ug/L	0.2 U	0.2 U	0.2 U	0.16 U	0.2 U	0.2 U	0.2 U	0.16 U
Nickel	100	ug/L	NA	NA	1.9 B	2.3 U	NA	NA	1.7 U	2.3 U
Potassium	—	ug/L	NA	NA	1760 B	2320 B	NA	NA	1530 B	2120 B
Selenium	10	ug/L	NA	NA	2.4 B	3.9 UN	NA	NA	2.2 B	3.9 UN
Silver	50	ug/L	NA	NA	2.2 UN	1.1 UN	NA	NA	2.2 UN	1.1 UN
Sodium	20000	ug/L	NA	NA	**27700 E**	**41700**	NA	NA	**30100 E**	**47400**
Thallium	0.5 GV	ug/L	NA	NA	3.3 U	2.9 UN	NA	NA	3.3 U	2.9 UN
Vanadium	—	ug/L	NA	NA	2.3 U	2 UN	NA	NA	2.3 U	2 UN
Zinc	2000 GV	ug/L	12 B	3.8 B	6.5 B	9.3 B	8.8 B	5.8 B	6.9 B	6 B
VOCs by EPA Method 601:										
Chlorobenzene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	7	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	5	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	5	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
VOCs by EPA Method 602:										
Benzene	1	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

NOTES:

[1] NYSDEC Water Quality Standards and Guidance Values, T.O.G.S. 1.1.1 (June 1998).

[2] The groundwater standard for the sum of Iron and Manganese concentrations is 500 mg/L.

[3] Sample analyzed for "Baseline Parameters".

[4] Sample analyzed for "Routine" and "Site-Related Parameters".

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

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

N Spiked sample recovery not within control limits

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

TABLE 3A

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

Sample ID	Sample Date			
	Jul-03	Oct-03	Mar-04	Jun-05
1-OS	NA	NA	NA	ND
2-OS	NA	ND	ND	ND
3-OS/I	NA	ND	ND	ND
4-OS	NA	ND	ND	ND
5-OS	NA	NA	ND	NA
5-I	NA	ND	NA	ND
7-OS	NA	ND	ND	ND
8-OS	ND	ND	ND	ND
8-I	ND	ND	0.6 J	ND
8-R	ND	ND	ND	ND
9-OS	ND	ND	ND	ND
9-I	ND	ND	ND	ND
9-R	ND	ND	ND	ND
PW-1	ND	ND	ND	ND
PW-2	ND	ND	ND	ND
SVWC-93	ND	ND	ND	ND
SVWC-94	ND	ND	ND	ND
SVWC-95	ND	ND	ND	ND
SVWC-96	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, 1.0µg/L.

TABLE 3B

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

Sample ID	Sample Date			
	Jul-03	Oct-03	Mar-04	Jun-05
1-OS	NA	NA	NA	31.4
2-OS	NA	**52.9**	**87.1**	**101**
3-OS/I	NA	**2810**	**816**	**2020**
4-OS	NA	5	9.4 B	**56.7**
5-OS	NA	NA	**237**	NA
5-I	NA	29.8	NA	5.6 B
7-OS	NA	2.4	**133**	5.7 B
8-OS	20.2	2.2	10.3	29.6
8-I	8.8	1.4	19.4	3.3 B
8-R	15.2	ND	2 B	2.5 B
9-OS	2.1	5	10.4	2.4 B
9-I	9.5	2	2.8 B	1.4 B
9-R	1.5	1.1	2.6 B	1.9 B
PW-1	1.6	0.73	1.3 B	ND
PW-2	2.2	1.9	1.5 B	ND
SVWC-93	1.4	1.3	1.4 B	ND
SVWC-94	1.5	0.75	1.9 B	0.93 B
SVWC-95	1.5	ND	1.5 B	ND
SVWC-96	1	ND	1.2 B	0.94 B

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, 50µg/L.

TABLE 3C

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

Sample ID	Sample Date			
	Jul-03	Oct-03	Mar-04	Jun-05
1-OS	NA	NA	NA	**54200** N
2-OS	NA	**14700**	**14700**	144 N
3-OS/I	NA	**39000**	**12900**	**60500** N
4-OS	NA	**2470**	**3050**	**3050**
5-OS	NA	NA	**150000**	NA
5-I	NA	**21800**	NA	124
7-OS	NA	**633**	**38500**	**1310**
8-OS	**2480.0**	**705**	**1030**	**3150**
8-I	**12500.0**	**8310**	**29700**	**13900**
8-R	**2440.0**	**1090**	**1160**	**751**
9-OS	288.0	**656**	**506**	**453**
9-I	**7250.0**	**514**	**1630**	**318**
9-R	**5610.0**	**4660**	**4890**	**6430**
PW-1	47.0	ND	20 B	18.6 B
PW-2	47.0	ND	27.5 B	115
SVWC-93	247.0	ND	203	14.4 B
SVWC-94	47.0	ND	30.3 B	7.7 U
SVWC-95	47.0	ND	157	17.2 B
SVWC-96	47.0	ND	16.8 U	7.7 U

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, 300µg/L.

TABLE 3D

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

Sample ID	Sample Date			
	Jul-03	Oct-03	Mar-04	Jun-05
1-OS	NA	NA	NA	**4720**
2-OS	NA	**1310**	**2300**	**778**
3-OS/I	NA	**14200**	**7200**	**6450**
4-OS	NA	**690**	**338**	**700**
5-OS	NA	NA	**2040**	NA
5-I	NA	**577**	NA	13.6
7-OS	NA	76.4	**2140**	222
8-OS	**760.0**	235	**1590**	**691**
8-I	**2540.0**	**2590**	**4650**	**3090**
8-R	**2190.0**	**2040**	**2150**	**2190**
9-OS	7.9	15.5	4.4 B	27.7
9-I	115.0	15.1	19	11.6
9-R	**2550.0**	**2090**	**1980**	**2730**
PW-1	1.2	0.69	0.9 U	2.1 U
PW-2	2.7	1.6	0.9 U	2.1 U
SVWC-93	0.9	0.65	0.9 U	2.1 U
SVWC-94	1.7	4.3	3.3 B	6.5 B
SVWC-95	86.5	84.6	88	86
SVWC-96	0.6	ND	0.9 U	2.1 U

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, 300µg/L

TABLE 4

TOWN OF RAMAPO LANDFILL
AIR MONITORING RESULTS
JUNE 2005

	LEL (%)	H_2S (ppm)	PID (ppm)
Monitoring Wells:			
1-I	0	0	0
1-OS	0	0	0
1-R	0	0	0
2-OS	0	0	0
2-I	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-I	0	0	0
5-R	0	0	0
6-I	0	0	0
6-R	0	0	0
7-OS	0	0	0.1
7-I	0	0	1.5
7-R	0	0	0.3
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[1]	0	0	0
Lift Station A-10	0	0	0
Lift Station W-20	0	0	0
Landfill Perimeter	0	0	0

NOTES: LEL = Lower Explosive Limit (for Methane)
H_2S = Hydrogen Sulfide
PID = Photoionization Detector, measures VOCs
ppm = Parts Per Million
1= Manhole A-5 was not found; gas reading collected from location W-1

Sterling Environmental Engineering, PC
Latham, NY
Project: TOWN OF RAMAPO 20010
STL Lab # 249468
Matrix: Water
1 of 1

STL Newburgh
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07/29/2005

Sterling Environmental Engineering, PC
24 Wade Road
Latham, NY 12110

Attn: Shelby LaBare

SUBJECT: Case Narrative, TOWN OF RAMAPO 20010,
STL Job Number 249468.

Dear Shelby LaBare:

Enclosed are the analytical results for the TOWN OF RAMAPO 20010 project. The samples were received on 06/28/2005. The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. The reports were completed according to contract specific reporting requirements.

Any exceptions to NELAP requirements are noted in the attached case narrative. The case narrative is an integral part of this report.

I certify that this package is in compliance with the terms and conditions of the contract both technically and for completeness, for other than the conditions detailed above. Release has been authorized by the Laboratory Manager or her designee, as verified by the following signature.

STL NEWBURGH

Renee M. Cusack

Renee M. Cusack
Laboratory Manager

Sample Receipt

The temperature of the samples at the time of receipt was 8.0 degrees C.

Volatile Organics

Calibration

The percent RSD of the target compounds in the initial calibration is outside of the acceptable control limits therefore linear regression was used to calculate.

The percent deviation of vinyl chloride in the continuing calibration analyzed on 07/01/05 is outside of the acceptable control limits.

Inorganics

ICP

Matrix Spike/Duplicate

The percent spike recovery of arsenic, barium, cadmium, selenium, silver, thallium and vanadium in spike sample number 9-RMS (249468-09MS) is outside of the established control limits. The data is qualified accordingly. As per the protocol, a post digestion spike was analyzed for arsenic, barium, cadmium, selenium, thallium and vanadium. A post digestion spike is not required for silver.

Sample Dilutions

The following samples were diluted for potassium at the indicated amount and reanalyzed due to the presence of potassium in the undiluted samples at concentrations above the linear range of the instrument:

9-R (249468-09): 2x
8-I (249468-11): 7x

Wet Chemistry

TKN

Sample Dilution

The following sample was diluted for TKN at the indicated amount due to concentrations over the calibration range of the instrument:

8-I (249468-11): 5x

SAMPLE INFORMATION
Date: 08/03/2005

Job Number.: 249468
Customer...: Sterling Environmental Engineering, PC
Attn.....: Shelby LaBare

Project Number.....: 20001232
Customer Project ID....: TOWN OF RAMAPO 20010
Project Description....: Ramapo LF Annual Sampling

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
249468-1	SVWC-93	Water	06/28/2005	10:15	06/28/2005	16:30
249468-2	SVWC-94	Water	06/28/2005	10:27	06/28/2005	16:30
249468-3	SVWC-95	Water	06/28/2005	10:34	06/28/2005	16:30
249468-4	SVWC-96	Water	06/28/2005	10:43	06/28/2005	16:30
249468-5	PW-1	Water	06/28/2005	11:34	06/28/2005	16:30
249468-6	PW-2	Water	06/28/2005	10:58	06/28/2005	16:30
249468-7	9-OS	Water	06/28/2005	11:57	06/28/2005	16:30
249468-8	9-I	Water	06/28/2005	11:48	06/28/2005	16:30
249468-9	9-R	Water	06/28/2005	12:04	06/28/2005	16:30
249468-10	8-OS	Water	06/28/2005	15:00	06/28/2005	16:30
249468-11	8-I	Water	06/28/2005	14:37	06/28/2005	16:30
249468-12	8-R	Water	06/28/2005	15:05	06/28/2005	16:30
249468-13	7-OS	Water	06/28/2005	14:03	06/28/2005	16:30
249468-14	4-OS	Water	06/28/2005	15:36	06/28/2005	16:30

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LABORATORY CHRONICLE

Job Number: 249468

Date: 08/03/2005

CUSTOMER: Sterling Environmental Engineering, PC PROJECT: TOWN OF RAMAPO 20010 ATTN: Shelby LaBare

Lab ID: 249468-1 Client ID: SVWC-93

Date Recvd: 06/28/2005 Sample Date: 06/28/2005

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
EPA 200.7	Acid Digestion,Total Recoverable(ICAP)	1	93055		06/29/2005 1030	
SM18 2320B	Alkalinity	1	93994		07/14/2005 1128	
HACH 8000	Chemical Oxygen Demand (HACH)	1	93471		06/30/2005 1000	
EPA 602	GC Volatile Organics (Aromatics)	1	94000		07/01/2005 0000	
EPA 200.7	Hardness by calculation	1	94649		07/26/2005 1811	
EPA 245.1	Mercury (CVAA)	1	93578		07/07/2005 2348	
EPA 200.7	Metals Analysis (ICAP)	1	94634	93055	07/26/2005 1811	
EPA 200.7	Metals Analysis (ICAP)	1	94689	93055	07/27/2005 1902	
EPA 200.8	Metals Analysis (ICP-MS)	1	94484	93055	07/25/2005 1357	
LAC 10107062D	Nitrogen, Total Kjeldahl	1	93980		07/15/2005 1302	
QA Services	Quality Assurance Services	1	93431			
QA Services	Quality Assurance Services	1	94821			
EPA 601	Volatile Organics (Halogenated)	1	93432		07/01/2005 0000	

Lab ID: 249468-2 Client ID: SVWC-94

Date Recvd: 06/28/2005 Sample Date: 06/28/2005

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
EPA 200.7	Acid Digestion,Total Recoverable(ICAP)	1	93055		06/29/2005 1030	
SM18 2320B	Alkalinity	1	93994		07/14/2005 1137	
HACH 8000	Chemical Oxygen Demand (HACH)	1	93471		06/30/2005 1000	
EPA 602	GC Volatile Organics (Aromatics)	1	94000		07/02/2005 0000	
EPA 200.7	Hardness by calculation	1	94649		07/26/2005 1816	
EPA 245.1	Mercury (CVAA)	1	93578		07/07/2005 2354	
EPA 200.7	Metals Analysis (ICAP)	1	94634	93055	07/26/2005 1817	
EPA 200.7	Metals Analysis (ICAP)	1	94689	93055	07/27/2005 1907	
EPA 200.8	Metals Analysis (ICP-MS)	1	94484	93055	07/25/2005 1359	
LAC 10107062D	Nitrogen, Total Kjeldahl	1	93980		07/15/2005 1308	
QA Services	Quality Assurance Services	1	93431			
QA Services	Quality Assurance Services	1	94821			
EPA 601	Volatile Organics (Halogenated)	1	93432		07/02/2005 0000	

Lab ID: 249468-3 Client ID: SVWC-95

Date Recvd: 06/28/2005 Sample Date: 06/28/2005

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
EPA 200.7	Acid Digestion,Total Recoverable(ICAP)	1	93055		06/29/2005 1030	
SM18 2320B	Alkalinity	1	93994		07/14/2005 1146	
HACH 8000	Chemical Oxygen Demand (HACH)	1	93471		06/30/2005 1000	
EPA 602	GC Volatile Organics (Aromatics)	1	94000		07/02/2005 0000	
EPA 200.7	Hardness by calculation	1	94649		07/26/2005 1822	
EPA 245.1	Mercury (CVAA)	1	93578		07/07/2005 2356	
EPA 200.7	Metals Analysis (ICAP)	1	94634	93055	07/26/2005 1822	
EPA 200.7	Metals Analysis (ICAP)	1	94689	93055	07/27/2005 1912	
EPA 200.8	Metals Analysis (ICP-MS)	1	94484	93055	07/25/2005 1401	
LAC 10107062D	Nitrogen, Total Kjeldahl	1	93980		07/15/2005 1310	
QA Services	Quality Assurance Services	1	93431			
QA Services	Quality Assurance Services	1	94821			
EPA 601	Volatile Organics (Halogenated)	1	93432		07/02/2005 0000	

Lab ID: 249468-4 Client ID: SVWC-96

Date Recvd: 06/28/2005 Sample Date: 06/28/2005

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
EPA 200.7	Acid Digestion,Total Recoverable(ICAP)	1	93055		06/29/2005 1030	
SM18 2320B	Alkalinity	1	93994		07/14/2005 1156	
HACH 8000	Chemical Oxygen Demand (HACH)	1	93471		06/30/2005 1000	
EPA 602	GC Volatile Organics (Aromatics)	1	94000		07/02/2005 0000	
EPA 200.7	Hardness by calculation	1	94649		07/26/2005 1827	
EPA 245.1	Mercury (CVAA)	1	93578		07/07/2005 2358	
EPA 200.7	Metals Analysis (ICAP)	1	94634	93055	07/26/2005 1828	

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LABORATORY CHRONICLE

Job Number: 249468

Date: 08/03/2005

CUSTOMER: Sterling Environmental Engineering, PC PROJECT: TOWN OF RAMAPO 20010 ATTN: Shelby LaBare

Lab ID: 249468-4 Client ID: SVWC-96

Date Recvd: 06/28/2005 Sample Date: 06/28/2005

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
EPA 200.7	Metals Analysis (ICAP)	1	94689	93055	07/27/2005	1917	
EPA 200.8	Metals Analysis (ICP-MS)	1	94484	93055	07/25/2005	1406	
LAC 10107062D	Nitrogen, Total Kjeldahl	1	93980		07/15/2005	1312	
QA Services	Quality Assurance Services	1	93431				
QA Services	Quality Assurance Services	1	94821				
EPA 601	Volatile Organics (Halogenated)	1	93432		07/02/2005	0000	

Lab ID: 249468-5 Client ID: PW-1

Date Recvd: 06/28/2005 Sample Date: 06/28/2005

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
EPA 200.7	Acid Digestion,Total Recoverable(ICAP)	1	93055		06/29/2005	1030	
SM18 2320B	Alkalinity	1	93994		07/14/2005	1205	
HACH 8000	Chemical Oxygen Demand (HACH)	1	93471		06/30/2005	1000	
EPA 602	GC Volatile Organics (Aromatics)	1	94000		07/02/2005	0000	
EPA 200.7	Hardness by calculation	1	94649		07/26/2005	1833	
EPA 245.1	Mercury (CVAA)	1	93578		07/08/2005	0001	
EPA 200.7	Metals Analysis (ICAP)	1	94634	93055	07/26/2005	1833	
EPA 200.7	Metals Analysis (ICAP)	1	94689	93055	07/27/2005	1923	
EPA 200.8	Metals Analysis (ICP-MS)	1	94484	93055	07/25/2005	1408	
LAC 10107062D	Nitrogen, Total Kjeldahl	1	93980		07/15/2005	1314	
QA Services	Quality Assurance Services	1	93431				
QA Services	Quality Assurance Services	1	94821				
EPA 601	Volatile Organics (Halogenated)	1	93432		07/02/2005	0000	

Lab ID: 249468-6 Client ID: PW-2

Date Recvd: 06/28/2005 Sample Date: 06/28/2005

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
EPA 200.7	Acid Digestion,Total Recoverable(ICAP)	1	93055		06/29/2005	1030	
SM18 2320B	Alkalinity	1	93994		07/14/2005	1214	
HACH 8000	Chemical Oxygen Demand (HACH)	1	93471		06/30/2005	1000	
EPA 602	GC Volatile Organics (Aromatics)	1	94000		07/02/2005	0000	
EPA 200.7	Hardness by calculation	1	94649		07/26/2005	1838	
EPA 245.1	Mercury (CVAA)	1	93578		07/08/2005	0004	
EPA 200.7	Metals Analysis (ICAP)	1	94634	93055	07/26/2005	1838	
EPA 200.7	Metals Analysis (ICAP)	1	94689	93055	07/27/2005	1928	
EPA 200.8	Metals Analysis (ICP-MS)	1	94484	93055	07/25/2005	1410	
LAC 10107062D	Nitrogen, Total Kjeldahl	1	93980		07/15/2005	1316	
QA Services	Quality Assurance Services	1	93431				
QA Services	Quality Assurance Services	1	94821				
EPA 601	Volatile Organics (Halogenated)	1	93432		07/02/2005	0000	

Lab ID: 249468-7 Client ID: 9-OS

Date Recvd: 06/28/2005 Sample Date: 06/28/2005

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
EPA 200.7	Acid Digestion,Total Recoverable(ICAP)	1	93055		06/29/2005	1030	
SM18 2320B	Alkalinity	1	93994		07/14/2005	1224	
HACH 8000	Chemical Oxygen Demand (HACH)	1	93471		06/30/2005	1000	
EPA 602	GC Volatile Organics (Aromatics)	1	94000		07/02/2005	0000	
EPA 200.7	Hardness by calculation	1	94649		07/26/2005	1843	
EPA 245.1	Mercury (CVAA)	1	93578		07/08/2005	0011	
EPA 200.7	Metals Analysis (ICAP)	1	94634	93055	07/26/2005	1844	
EPA 200.7	Metals Analysis (ICAP)	1	94689	93055	07/27/2005	1933	
EPA 200.8	Metals Analysis (ICP-MS)	1	94484	93055	07/25/2005	1412	
LAC 10107062D	Nitrogen, Total Kjeldahl	1	93980		07/15/2005	1325	
QA Services	Quality Assurance Services	1	93431				
QA Services	Quality Assurance Services	1	94821				
EPA 601	Volatile Organics (Halogenated)	1	93432		07/02/2005	0000	

Lab ID: 249468-8 Client ID: 9-I

Date Recvd: 06/28/2005 Sample Date: 06/28/2005

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
EPA 200.7	Acid Digestion,Total Recoverable(ICAP)	1	93055		06/29/2005	1030	

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LABORATORY CHRONICLE

Job Number: 249468

Date: 08/03/2005

CUSTOMER: Sterling Environmental Engineering, PC | PROJECT: TOWN OF RAMAPO 20010 | ATTN: Shelby LaBare

Lab ID: 249468-8 Client ID: 9-I

Date Recvd: 06/28/2005 Sample Date: 06/28/2005

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
SM18 2320B	Alkalinity	1	93994		07/14/2005	1310	
HACH 8000	Chemical Oxygen Demand (HACH)	1	93471		06/30/2005	1000	
EPA 602	GC Volatile Organics (Aromatics)	1	94000		07/02/2005	0000	
EPA 200.7	Hardness by calculation	1	94649		07/26/2005	1848	
EPA 245.1	Mercury (CVAA)	1	93578		07/08/2005	0015	
EPA 200.7	Metals Analysis (ICAP)	1	94634	93055	07/26/2005	1849	
EPA 200.7	Metals Analysis (ICAP)	1	94689	93055	07/27/2005	1938	
EPA 200.8	Metals Analysis (ICP-MS)	1	94484	93055	07/25/2005	1413	
LAC 10107062D	Nitrogen, Total Kjeldahl	1	93980		07/15/2005	1327	
QA Services	Quality Assurance Services	1	93431				
QA Services	Quality Assurance Services	1	94821				
EPA 601	Volatile Organics (Halogenated)	1	93432		07/02/2005	0000	

Lab ID: 249468-9 Client ID: 9-R

Date Recvd: 06/28/2005 Sample Date: 06/28/2005

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
EPA 200.7	Acid Digestion,Total Recoverable(ICAP)	1	93055		06/29/2005	1030	
SM18 2320B	Alkalinity	1	93994		07/14/2005	1319	
HACH 8000	Chemical Oxygen Demand (HACH)	1	93471		06/30/2005	1000	
EPA 602	GC Volatile Organics (Aromatics)	1	94000		07/05/2005	0000	
EPA 200.7	Hardness by calculation	1	94649		07/26/2005	1920	
EPA 245.1	Mercury (CVAA)	1	93578		07/08/2005	0017	
EPA 200.7	Metals Analysis (ICAP)	1	94634	93055	07/26/2005	1920	
EPA 200.7	Metals Analysis (ICAP)	1	94689	93055	07/27/2005	2009	2.000
EPA 200.8	Metals Analysis (ICP-MS)	1	94484	93055	07/25/2005	1415	
LAC 10107062D	Nitrogen, Total Kjeldahl	1	93980		07/15/2005	1328	
QA Services	Quality Assurance Services	1	93431				
QA Services	Quality Assurance Services	1	94821				
EPA 601	Volatile Organics (Halogenated)	1	93432		07/05/2005	0000	

Lab ID: 249468-10 Client ID: 8-OS

Date Recvd: 06/28/2005 Sample Date: 06/28/2005

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
EPA 200.7	Acid Digestion,Total Recoverable(ICAP)	1	93055		06/29/2005	1030	
SM18 2320B	Alkalinity	1	93994		07/14/2005	1329	
HACH 8000	Chemical Oxygen Demand (HACH)	1	93471		06/30/2005	1000	
EPA 602	GC Volatile Organics (Aromatics)	1	94000		07/05/2005	0000	
EPA 200.7	Hardness by calculation	1	94649		07/26/2005	1953	
EPA 245.1	Mercury (CVAA)	1	93578		07/08/2005	0019	
EPA 200.7	Metals Analysis (ICAP)	1	94634	93055	07/26/2005	1953	
EPA 200.7	Metals Analysis (ICAP)	1	94689	93055	07/27/2005	2025	
EPA 200.8	Metals Analysis (ICP-MS)	1	94484	93055	07/25/2005	1423	
LAC 10107062D	Nitrogen, Total Kjeldahl	1	93980		07/15/2005	1330	
QA Services	Quality Assurance Services	1	93431				
QA Services	Quality Assurance Services	1	94821				
EPA 601	Volatile Organics (Halogenated)	1	93432		07/05/2005	0000	

Lab ID: 249468-11 Client ID: 8-I

Date Recvd: 06/28/2005 Sample Date: 06/28/2005

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
EPA 200.7	Acid Digestion,Total Recoverable(ICAP)	1	93055		06/29/2005	1030	
SM18 2320B	Alkalinity	1	93994		07/14/2005	1338	
HACH 8000	Chemical Oxygen Demand (HACH)	1	93471		06/30/2005	1000	
EPA 602	GC Volatile Organics (Aromatics)	1	94000		07/05/2005	0000	
EPA 200.7	Hardness by calculation	1	94649		07/26/2005	1958	
EPA 245.1	Mercury (CVAA)	1	93578		07/08/2005	0021	
EPA 200.7	Metals Analysis (ICAP)	1	94634	93055	07/26/2005	1959	
EPA 200.7	Metals Analysis (ICAP)	1	94689	93055	07/27/2005	2036	7.000

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LABORATORY CHRONICLE

Job Number: 249468 Date: 08/03/2005

CUSTOMER: Sterling Environmental Engineering, PC PROJECT: TOWN OF RAMAPO 20010 ATTN: Shelby LaBare

Lab ID: 249468-11 Client ID: 8-I
Date Recvd: 06/28/2005 Sample Date: 06/28/2005

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
EPA 200.8	Metals Analysis (ICP-MS)	1	94484	93055	07/25/2005 1428	
LAC 10107062D	Nitrogen, Total Kjeldahl	1	93980		07/15/2005 1434	
QA Services	Quality Assurance Services	1	93431			
QA Services	Quality Assurance Services	1	94821			
EPA 601	Volatile Organics (Halogenated)	1	93432		07/05/2005 0000	

Lab ID: 249468-12 Client ID: 8-R
Date Recvd: 06/28/2005 Sample Date: 06/28/2005

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
EPA 200.7	Acid Digestion,Total Recoverable(ICAP)	1	93055		06/29/2005 1030	
SM18 2320B	Alkalinity	1	93994		07/14/2005 1347	
HACH 8000	Chemical Oxygen Demand (HACH)	1	93471		06/30/2005 1000	
EPA 602	GC Volatile Organics (Aromatics)	1	94000		07/05/2005 0000	
EPA 200.7	Hardness by calculation	1	94649		07/26/2005 2004	
EPA 245.1	Mercury (CVAA)	1	93578		07/08/2005 0023	
EPA 200.7	Metals Analysis (ICAP)	1	94634	93055	07/26/2005 2004	
EPA 200.7	Metals Analysis (ICAP)	1	94689	93055	07/27/2005 2041	
EPA 200.8	Metals Analysis (ICP-MS)	1	94484	93055	07/25/2005 1430	
LAC 10107062D	Nitrogen, Total Kjeldahl	1	93980		07/15/2005 1334	
QA Services	Quality Assurance Services	1	93431			
QA Services	Quality Assurance Services	1	94821			
EPA 601	Volatile Organics (Halogenated)	1	93432		07/05/2005 0000	

Lab ID: 249468-13 Client ID: 7-OS
Date Recvd: 06/28/2005 Sample Date: 06/28/2005

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
EPA 200.7	Acid Digestion,Total Recoverable(ICAP)	1	93055		06/29/2005 1030	
SM18 2320B	Alkalinity	1	93994		07/14/2005 1357	
HACH 8000	Chemical Oxygen Demand (HACH)	1	93471		06/30/2005 1000	
EPA 602	GC Volatile Organics (Aromatics)	1	94000		07/05/2005 0000	
EPA 200.7	Hardness by calculation	1	94649		07/26/2005 2009	
EPA 245.1	Mercury (CVAA)	1	93578		07/08/2005 0025	
EPA 200.7	Metals Analysis (ICAP)	1	94634	93055	07/26/2005 2010	
EPA 200.7	Metals Analysis (ICAP)	1	94689	93055	07/27/2005 2046	
EPA 200.8	Metals Analysis (ICP-MS)	1	94484	93055	07/25/2005 1432	
LAC 10107062D	Nitrogen, Total Kjeldahl	1	93980		07/15/2005 1336	
QA Services	Quality Assurance Services	1	93431			
QA Services	Quality Assurance Services	1	94821			
EPA 601	Volatile Organics (Halogenated)	1	93432		07/05/2005 0000	

Lab ID: 249468-14 Client ID: 4-OS
Date Recvd: 06/28/2005 Sample Date: 06/28/2005

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
EPA 200.7	Acid Digestion,Total Recoverable(ICAP)	1	93055		06/29/2005 1030	
SM18 2320B	Alkalinity	1	93994		07/14/2005 1406	
HACH 8000	Chemical Oxygen Demand (HACH)	1	93471		06/30/2005 1000	
EPA 602	GC Volatile Organics (Aromatics)	1	94000		07/05/2005 0000	
EPA 200.7	Hardness by calculation	1	94649		07/26/2005 2041	
EPA 245.1	Mercury (CVAA)	1	93578		07/08/2005 0027	
EPA 200.7	Metals Analysis (ICAP)	1	94634	93055	07/26/2005 2041	
EPA 200.7	Metals Analysis (ICAP)	1	94689	93055	07/27/2005 2052	
EPA 200.8	Metals Analysis (ICP-MS)	1	94484	93055	07/25/2005 1433	
LAC 10107062D	Nitrogen, Total Kjeldahl	1	93980		07/15/2005 1338	
QA Services	Quality Assurance Services	1	93431			
QA Services	Quality Assurance Services	1	94821			
EPA 601	Volatile Organics (Halogenated)	1	93432		07/05/2005 0000	

THE ANALYTICAL METHODS MAY UTILIZE ONE OR MORE OF THE FOLLOWING REFERENCES:

"Methods for Chemical Analysis of Water and Wastewater", EPA-600/4-79-020, March 1983.

"Test Methods for Evaluating Solid Waste", USEPA-SW846, Third Edition, September 1986 with all current revisions.

Federal Register, V.50 No.3, January 4, 1985.

Federal Register, V.49, No. 209, October 26, 1984.

"Methods for the Determination of Organic Compounds in Drinking Water EPA/600/4-88/039, December 1988.

Volatile Organic Compounds in Water by Purge and Trap Capillary Column Gas Chromatography With Photoionization and Electrolytic Conductivity Detectors in Series, EMSL, Cincinnati, Ohio, 45268, Revision 2.0(1989).

EPA Method for the Determination of Gasoline Range Organics, Draft, REV. 5, 2/5/92.

"New York State Department of Environmental Conservation Analytical Services Protocol, Vol. 1 , October 1995.

USEPA CLP SOW for Organics Analysis Low Concentration Water

USEPA CLP SOW for Organics Analysis Multi-Media, Multi-Concentration

THE ANALYTICAL METHODS MAY UTILIZE ONE OR MORE OF THE FOLLOWING REFERENCES:

"Methods for Chemical Analysis of Water and Wastewater", EPA-600/4-79-020, March 1983

"Standard Methods for the Examination of Water and Wastewater", 18th Edition, 1992

Atomic Absorption - Furnace Technique

"Test Methods for Evaluating Solid Waste",USEPA-SW846, Third Edition, September 1986 with all current revisions.

"Standard Methods for the Examination of Water and Wastewater", 17th Edition, 1989.

HACH8000 1979 Handbook

"New York State Department of Environmental Conservation Analytical Services Protocol, Vol.2, October 1995.

"Determination of Cyanide" (Macro Distillation Method in Waters), QUIK CHEM Method 10-204-00-1-A, Karin Wendt, Revised June 6, 1996, Lachat Instruments, Milwaukee, Wi. 53218

"Determination of Nitrate/Nitrite in Surface and Wastewaters by Flow Injection Analysis", QUICK CHEM Method 10-107041A, Karin Wendt, Revised June 24, 1997, Zellweger Analytics, Milwaukee, Wi. 53218

"Determination of Total Recoverable Phenols by Flow Injection Analysis Colorimetry", QUIK CHEM Method 10-210-00-1-A, Ninglan Liao, Revised August 6, 1996, Lachat Instruments, Milwaukee, Wi. 53218.

"Determination of Nitrogen, Total Kjeldahl by Flow Injection Analysis Colorimetry" QUIK CHEM Method 10-107-06-2-D, Kevin Switala, Revised October 7, 1997, Lachat Instruments, Milwaukee, Wi 53218.

Enterolert - (Idexx)

"American Society for Testing and Materials."

SEVERN TRENT SERVICES

STL Newburgh

CHAIN OF CUSTODY

315 Fullerton Avenue
Newburgh, NY 12550
TEL (845) 562-0890
FAX (845) 562-0841

CUSTOMER NAME: Sterling Environmental Eng.
ADDRESS: 24 Wade Road, Latham NY 12110
CITY, STATE, ZIP: Shelby LaBare 518/456-4900
NAME OF CONTACT / PHONE NO.
PROJECT LOCATION: Town of Ramapo
PROJECT NUMBER / PO NO.: 2001O

REPORT TYPE
STANDARD ☐ ISRA ☐
NJ REG ☐
NYASP A ☐ B ☐ CLP ☐
OTHER ____

TURNAROUND
☒ NORMAL ____
☐ QUICK ____
☐ VERBAL ____

REPORT # (Lab Use Only)
249468

SAMPLE TEMP. 8.0 ✓ C
SAMPLE REC'D ON ICE Y ✓ N ____
pH CHECK Y ✓ N ____
REVIEWED BY: ✓

NY PUBLIC WATER SUPPLIES
SOURCE ID ____
ELRP TYPE ____
FEDERAL ID ____

Page 71 of 12

NOTE: SAMPLE TEMPERATURE UPON RECEIPT MUST BE 4° ±2°C.

Matrix
DW = DRINKING WATER S = SOIL O = OIL
WW = WASTE WATER SL = SLUDGE GW = GROUND WATER

STL #	SAMPLING DATE	TIME AM PM	COMP	GRAB	MATRIX	CLIENT I.D.	Total Number of Containers	40ml Glass HCL	Liter Amber Sulfuric Acid	Liter Amber Organic Washed	Liter Plastic Nitric Acid	Liter Plastic Sodium Hydroxide	Liter Plastic	Liter Plastic Sulfuric Acid	250ml Plastic	125ml Plastic Sterile	250ml Amber 2 oz. Qorpak
1	6/28	10:15	X		GW	SVWC-93	6	3			1			1	1		
2		10:27	X			SVWC-94	1										
3		10:34	X			SVWC-95											
4		10:43	X			SVWC-96											
5		11:34	X			PW-1											
6		10:58	X			PW-2											
7		11:57	X			9-OS											
8		11:48	X			9-I											
9		12:04	X			9-R	18	9			3			3	3		
10		15:00	X			8-OS	6	3			1			1	1		
11		14:37	X			8-I											
12	✓	15:05	X		✓	8-R											

ANALYSIS REQUESTED
- TKN
- COD
- Alkalinity
- Hardness as $CaCO_3$
- Site Related Volatiles:
  - → 1,1-Dichloroethane
  - → Vinyl Chloride
  - → Benzene
  - → Chlorobenzene
- TAL Metals
- * Antimony by Method 200.8 detection of 0.3ppb

SAMPLES SUBMITTED FOR ANALYSIS WILL BE SUBJECTED TO THE STL TERMS AND CONDITIONS OF SALE (SHORT FORM) UNLESS ALTERNATE TERMS ARE AGREED IN WRITING.

RELINQUISHED BY: Shelby LaBare	COMPANY: Sterling	DATE: 6/28/05	TIME: 4:30pm	RECEIVED BY	COMPANY	DATE	TIME
SAMPLED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY: STL	DATE: 6/28/05	TIME: 1630

COMMENTS ____

NYSDOH 10148 NJDEP 73015 CTDOHS PH-0554 EPA NY045 MI NY049 PA 68-378

SEVERN TRENT **STL**

CHAIN OF CUSTODY

315 Fullerton Avenue, Newburgh, NY 12550
TEL (845) 562-0890 • FAX (845) 562-0841

CUSTOMER NAME: Sterling Environmental Eng.
ADDRESS: 24 Wade Road, Latham NY 12110
CITY, STATE, ZIP: Shelby LaBare 518-456-4900
NAME OF CONTACT: PHONE NO.
PROJECT LOCATION: Town of Ramapo
PROJECT NUMBER / PO NO.: 20010

REPORT TYPE
STANDARD ☐ ISRA ☐
NJ REG ☐
NYASP A ☐ B ☐ CLP ☐
OTHER ____

TURNAROUND
☒ NORMAL ____
☐ QUICK ____
☐ VERBAL ____

REPORT # (Lab Use Only)
249468

SAMPLE TEMP. 8.0 C
SAMPLE REC'D ON ICE Y ✓ N ____
pH CHECK Y ____ N ____
REVIEWED BY: ____

NOTE: Public Water Systems must complete this section.
NY PUBLIC WATER SUPPLIES
SYSTEM NAME: ____
T/V/C ____
FEDERAL ID ____ ____ ____ ____ ____ ____ ____

3 of 71

NOTE: SAMPLE TEMPERATURE UPON RECEIPT MUST BE 4° ±2° C.

Matrix
DW = DRINKING WATER S = SOIL O = OIL
WW = WASTE WATER SL = SLUDGE GW = GROUND WATER

STL #	SAMPLING DATE	TIME AM PM	COMP	GRAB	MATRIX	CHLORINE RESIDUAL OR RAW	SAMPLE LOCATION	Total Number of Containers	40ml Glass HCL	Liter Amber Sulfuric Acid	Liter Amber Organic Washed	Liter Plastic Nitric Acid	Liter Plastic Sodium Hydroxide	Liter Plastic	Liter Plastic Sulfuric Acid	250ml Plastic	125ml Plastic Sterile	250ml Amber	2 oz. Qorpak	ANALYSIS REQUESTED
13	6/28	14:03	X		GW		7-05	6	3			1			1	1				TKN
14	6/28	15:36	X		GW		4-05	6	3			1			1	1				COD
																				Alkalinity
																				Hardness as $CaCO_3$
																				Site Related Volatiles:
																				→ 1,1-Dichloroethane
																				→ Vinyl Chloride
																				→ Benzene
																				→ Chlorobenzene
																				TAL Metals
																				* Antimony by Method 200.8 detection of 0.3 ppb

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
Shelby LaBare	Sterling	6/28/05	4:30pm				
RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
					STL	6/28/05	1630

COMMENTS ____

DATA REPORTING QUALIFIERS

Data qualifiers are used in the analytical report for organics and inorganics. The qualifiers are equivalent to those used by the USEPA in its Contract Laboratory Program.

ORGANIC QUALIFIERS

U - Indicates that the compound was analyzed for but not detected. The sample detection limit is corrected for dilution and percent moisture. This detection limit is not necessarily the instrument detection limit.

J - Indicates an estimated value. This qualifier is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicates the presence of a compound that meets the identification criteria and the result is less than the specified detection limit but greater than zero.

B - Indicates that the analyte was found in both the sample and its associated laboratory blank. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

C - This qualifier applies to pesticide parameters where the identification has been confirmed by gas chromatography/mass spectrometry.

E - This qualifier indicates compounds whose concentrations exceed the calibration range of the instrument for the specific analysis.

D - Indicates all compounds identified in an analysis at a secondary dilution factor.

DL - This suffix indicates a diluted sample and is appended to the sample number on the result form.

N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the N code is not used.

P - This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentration between the two GC columns (see Form X). The lower of the two values is reported on Form I and flagged with an "P".

A - This flag indicates that a TIC is a suspected aldol-condensation product.

RE - This suffix indicates a re-analyzed sample and is appended to the sample number on the result form.

DATA REPORTING QUALIFIERS

RR - This suffix indicates a re-extracted and re-analyzed sample and is appended to the sample number on the result form.

INORGANICS

Concentration Qualifiers (C)

U - Indicates that the analyte was analyzed for but not detected.

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

Quality Qualifiers (Q)

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

M - Duplicate injection precision not met.

N - Spiked sample recovery not within control limits.

S - The reported value was determined by the Method of Standard Additions (MSA).

W - Post digestion spike for furnace AA analysis is out of control limits (85-115%), while sample absorbance is less than 50% of spike absorbance.

* - Duplicate analysis not within control limits.

+ - Correlation coefficient for the MSA is less than 0.995.

Method Qualifiers (M)

P - for ICP.
A - for Flame AA.
F - for Furnace AA.
PM - for ICP when Microwave Digestion is used.
AM - for Flame AA when Microwave Digestion is used.
FM - for Furnace AA when Microwave Digestion is used.
CV - for Manual Cold Vapor AA.
AV - for Automated Cold Vapor AA.
AS - for Semi-Automated Spectrophotometric
C - for Manual Spectrophotometric
T - for Titrimetric.
NR - if the analyte is not required to be analyzed.

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

Volatile Data
Sample Data

LABORATORY TEST RESULTS

Job Number: 249468 Date: 08/02/2005

CUSTOMER: Sterling Environmental Engineering, PC PROJECT: TOWN OF RAMAPO 20010 ATTN: Shelby LaBare

Customer Sample ID: SVWC-93
Date Sampled.....: 06/28/2005
Time Sampled.....: 10:15
Sample Matrix.....: Water

Laboratory Sample ID: 249468-1
Date Received.....: 06/28/2005
Time Received.....: 16:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
EPA 602	GC Volatile Organics (Aromatics)							
	Benzene	1.0	U		1.0	ug/L	07/01/05	ems
	Chlorobenzene	1.0	U		1.0	ug/L	07/01/05	ems
EPA 601	Volatile Organics (Halogenated)							
	1,1-Dichloroethane	1.0	U		1.0	ug/L	07/01/05	ems
	Vinyl chloride	1.0	U		1.0	ug/L	07/01/05	ems

* In Description = Dry Wgt.

STL Newburgh
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LABORATORY TEST RESULTS

Job Number: 249468 Date: 08/02/2005

CUSTOMER: Sterling Environmental Engineering, PC PROJECT: TOWN OF RAMAPO 20010 ATTN: Shelby LaBare

Customer Sample ID: SVWC-94
Date Sampled.....: 06/28/2005
Time Sampled.....: 10:27
Sample Matrix.....: Water

Laboratory Sample ID: 249468-2
Date Received.....: 06/28/2005
Time Received.....: 16:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
EPA 602	GC Volatile Organics (Aromatics)							
	Benzene	1.0	U		1.0	ug/L	07/02/05	ems
	Chlorobenzene	1.0	U		1.0	ug/L	07/02/05	ems
EPA 601	Volatile Organics (Halogenated)							
	1,1-Dichloroethane	1.0	U		1.0	ug/L	07/02/05	ems
	Vinyl chloride	1.0	U		1.0	ug/L	07/02/05	ems

* In Description = Dry Wgt.

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
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Fax (845) 562-0841

LABORATORY TEST RESULTS

Job Number: 249468 Date: 08/02/2005

CUSTOMER: Sterling Environmental Engineering, PC PROJECT: TOWN OF RAMAPO 2001Q ATTN: Shelby LaBare

Customer Sample ID: SVWC-95
Date Sampled.....: 06/28/2005
Time Sampled.....: 10:34
Sample Matrix.....: Water

Laboratory Sample ID: 249468-3
Date Received.....: 06/28/2005
Time Received.....: 16:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
EPA 602	GC Volatile Organics (Aromatics)							
	Benzene	1.0	U		1.0	ug/L	07/02/05	ems
	Chlorobenzene	1.0	U		1.0	ug/L	07/02/05	ems
EPA 601	Volatile Organics (Halogenated)							
	1,1-Dichloroethane	1.0	U		1.0	ug/L	07/02/05	ems
	Vinyl chloride	1.0	U		1.0	ug/L	07/02/05	ems

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 249468 Date: 08/02/2005

CUSTOMER: Sterling Environmental Engineering, PC PROJECT: TOWN OF RAMAPO 20010 ATTN: Shelby LaBare

Customer Sample ID: SVWC-96
Date Sampled.....: 06/28/2005
Time Sampled.....: 10:43
Sample Matrix.....: Water

Laboratory Sample ID: 249468-4
Date Received.....: 06/28/2005
Time Received.....: 16:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
EPA 602	GC Volatile Organics (Aromatics)							
	Benzene	1.0	U		1.0	ug/L	07/02/05	ems
	Chlorobenzene	1.0	U		1.0	ug/L	07/02/05	ems
EPA 601	Volatile Organics (Halogenated)							
	1,1-Dichloroethane	1.0	U		1.0	ug/L	07/02/05	ems
	Vinyl chloride	1.0	U		1.0	ug/L	07/02/05	ems

* In Description = Dry Wgt.

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Newburgh, NY 12550
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LABORATORY TEST RESULTS

Job Number: 249468 Date: 08/02/2005

CUSTOMER: Sterling Environmental Engineering, PC PROJECT: TOWN OF RAMAPO 20010 ATTN: Shelby LaBare

Customer Sample ID: PW-1
Date Sampled.....: 06/28/2005
Time Sampled.....: 11:34
Sample Matrix.....: Water

Laboratory Sample ID: 249468-5
Date Received.....: 06/28/2005
Time Received.....: 16:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
EPA 602	GC Volatile Organics (Aromatics)							
	Benzene	1.0	U		1.0	ug/L	07/02/05	ems
	Chlorobenzene	1.0	U		1.0	ug/L	07/02/05	ems
EPA 601	Volatile Organics (Halogenated)							
	1,1-Dichloroethane	1.0	U		1.0	ug/L	07/02/05	ems
	Vinyl chloride	1.0	U		1.0	ug/L	07/02/05	ems

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 249468 Date: 08/02/2005

CUSTOMER: Sterling Environmental Engineering, PC PROJECT: TOWN OF RAMAPO 20010 ATTN: Shelby LaBare

Customer Sample ID: PW-2
Date Sampled.....: 06/28/2005
Time Sampled.....: 10:58
Sample Matrix.....: Water

Laboratory Sample ID: 249468-6
Date Received.....: 06/28/2005
Time Received.....: 16:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
EPA 602	GC Volatile Organics (Aromatics)							
	Benzene	1.0	U		1.0	ug/L	07/02/05	ems
	Chlorobenzene	1.0	U		1.0	ug/L	07/02/05	ems
EPA 601	Volatile Organics (Halogenated)							
	1,1-Dichloroethane	1.0	U		1.0	ug/L	07/02/05	ems
	Vinyl chloride	1.0	U		1.0	ug/L	07/02/05	ems

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 249468 Date: 08/02/2005

CUSTOMER: Sterling Environmental Engineering, PC PROJECT: TOWN OF RAMAPO 20010 ATTN: Shelby LaBare

Customer Sample ID: 9-OS
Date Sampled.....: 06/28/2005
Time Sampled.....: 11:57
Sample Matrix.....: Water

Laboratory Sample ID: 249468-7
Date Received.....: 06/28/2005
Time Received.....: 16:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
EPA 602	GC Volatile Organics (Aromatics)							
	Benzene	1.0	U		1.0	ug/L	07/02/05	ems
	Chlorobenzene	1.0	U		1.0	ug/L	07/02/05	ems
EPA 601	Volatile Organics (Halogenated)							
	1,1-Dichloroethane	1.0	U		1.0	ug/L	07/02/05	ems
	Vinyl chloride	1.0	U		1.0	ug/L	07/02/05	ems

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 249468 Date: 08/02/2005

CUSTOMER: Sterling Environmental Engineering, PC PROJECT: TOWN OF RAMAPO 20010 ATTN: Shelby LaBare

Customer Sample ID: 9-I
Date Sampled.....: 06/28/2005
Time Sampled.....: 11:48
Sample Matrix.....: Water

Laboratory Sample ID: 249468-8
Date Received.....: 06/28/2005
Time Received.....: 16:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
EPA 602	GC Volatile Organics (Aromatics)							
	Benzene	1.0	U		1.0	ug/L	07/02/05	ems
	Chlorobenzene	1.0	U		1.0	ug/L	07/02/05	ems
EPA 601	Volatile Organics (Halogenated)							
	1,1-Dichloroethane	1.0	U		1.0	ug/L	07/02/05	ems
	Vinyl chloride	1.0	U		1.0	ug/L	07/02/05	ems

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 249468 Date: 08/02/2005

CUSTOMER: Sterling Environmental Engineering, PC PROJECT: TOWN OF RAMAPO 20010 ATTN: Shelby LaBare

Customer Sample ID: 9-R
Date Sampled.....: 06/28/2005
Time Sampled.....: 12:04
Sample Matrix.....: Water

Laboratory Sample ID: 249468-9
Date Received.....: 06/28/2005
Time Received.....: 16:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
EPA 602	GC Volatile Organics (Aromatics)							
	Benzene	1.0	U		1.0	ug/L	07/05/05	ems
	Chlorobenzene	1.0	U		1.0	ug/L	07/05/05	ems
EPA 601	Volatile Organics (Halogenated)							
	1,1-Dichloroethane	1.0	U		1.0	ug/L	07/05/05	ems
	Vinyl chloride	1.0	U		1.0	ug/L	07/05/05	ems

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 249468 Date: 08/02/2005

CUSTOMER: Sterling Environmental Engineering, PC PROJECT: TOWN OF RAMAPO 20010 ATTN: Shelby LaBare

Customer Sample ID: B-OS
Date Sampled.....: 06/28/2005
Time Sampled.....: 15:00
Sample Matrix.....: Water

Laboratory Sample ID: 249468-10
Date Received.....: 06/28/2005
Time Received.....: 16:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
EPA 602	GC Volatile Organics (Aromatics)							
	Benzene	1.0	U		1.0	ug/L	07/05/05	ems
	Chlorobenzene	1.0	U		1.0	ug/L	07/05/05	ems
EPA 601	Volatile Organics (Halogenated)							
	1,1-Dichloroethane	1.0	U		1.0	ug/L	07/05/05	ems
	Vinyl chloride	1.0	U		1.0	ug/L	07/05/05	ems

* In Description = Dry Wgt.

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0690
Fax (845) 562-0841

LABORATORY TEST RESULTS

Job Number: 249468 Date: 08/02/2005

CUSTOMER: Sterling Environmental Engineering, PC. PROJECT: TOWN OF RAMAPO 20010 ATTN: Shelby LaBare

Customer Sample ID: 8-1
Date Sampled.....: 06/28/2005
Time Sampled.....: 14:37
Sample Matrix.....: Water

Laboratory Sample ID: 249468-11
Date Received.....: 06/28/2005
Time Received.....: 16:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
EPA 602	GC Volatile Organics (Aromatics)							
	Benzene	1.0	U		1.0	ug/L	07/05/05	ems
	Chlorobenzene	1.6			1.0	ug/L	07/05/05	ems
EPA 601	Volatile Organics (Halogenated)							
	1,1-Dichloroethane	1.0	U		1.0	ug/L	07/05/05	ems
	Vinyl chloride	1.0	U		1.0	ug/L	07/05/05	ems

* In Description = Dry Wgt.

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0990
Fax (845) 562-0841

LABORATORY TEST RESULTS

Job Number: 249468 Date: 08/02/2005

CUSTOMER: Sterling Environmental Engineering, PC PROJECT: TOWN OF RAMAPO 20010 ATTN: Shelby LaBare

Customer Sample ID: 8-R
Date Sampled.....: 06/28/2005
Time Sampled.....: 15:05
Sample Matrix.....: Water

Laboratory Sample ID: 249468-12
Date Received.....: 06/28/2005
Time Received.....: 16:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
EPA 602	GC Volatile Organics (Aromatics)							
	Benzene	1.0	U		1.0	ug/L	07/05/05	ems
	Chlorobenzene	1.0	U		1.0	ug/L	07/05/05	ems
EPA 601	Volatile Organics (Halogenated)							
	1,1-Dichloroethane	1.0	U		1.0	ug/L	07/05/05	ems
	Vinyl chloride	1.0	U		1.0	ug/L	07/05/05	ems

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 249468 Date: 08/02/2005

CUSTOMER: Sterling Environmental Engineering, PC PROJECT: TOWN OF RAMAPO 20010 ATTN: Shelby LaBare

Customer Sample ID: 7-OS
Date Sampled.....: 06/28/2005
Time Sampled.....: 14:03
Sample Matrix.....: Water

Laboratory Sample ID: 249468-13
Date Received.....: 06/28/2005
Time Received.....: 16:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
EPA 602	GC Volatile Organics (Aromatics)							
	Benzene	1.0	U		1.0	ug/L	07/05/05	ems
	Chlorobenzene	1.0	U		1.0	ug/L	07/05/05	ems
EPA 601	Volatile Organics (Halogenated)							
	1,1-Dichloroethane	1.0	U		1.0	ug/L	07/05/05	ems
	Vinyl chloride	1.0	U		1.0	ug/L	07/05/05	ems

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 249468 Date: 08/02/2005

CUSTOMER: Sterling Environmental Engineering, PC PROJECT: TOWN OF RAMAPO 20010 ATTN: Shelby LaBare

Customer Sample ID: 4-OS
Date Sampled.....: 06/28/2005
Time Sampled.....: 15:36
Sample Matrix.....: Water

Laboratory Sample ID: 249468-14
Date Received.....: 06/28/2005
Time Received.....: 16:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
EPA 602	GC Volatile Organics (Aromatics)							
	Benzene	1.0	U		1.0	ug/L	07/05/05	ems
	Chlorobenzene	1.0	U		1.0	ug/L	07/05/05	ems
EPA 601	Volatile Organics (Halogenated)							
	1,1-Dichloroethane	1.0	U		1.0	ug/L	07/05/05	ems
	Vinyl chloride	1.0	U		1.0	ug/L	07/05/05	ems

* In Description = Dry Wgt.

Inorganic Data
Sample Data

LABORATORY TEST RESULTS

Job Number: 249468

Date:08/02/2005

CUSTOMER: Sterling Environmental Engineering, PC

PROJECT: TOWN OF RAMAPO 20010

ATTN: Shelby LaBare

Customer Sample ID: SVWC-93
Date Sampled.....: 06/28/2005
Time Sampled.....: 10:15
Sample Matrix.....: Water

Laboratory Sample ID: 249468-1
Date Received.....: 06/28/2005
Time Received.....: 16:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	IDL	RL	DILUTION	UNITS	BATCH	DT	DATE	TECH
EPA 245.1	Mercury (Hg)	0.16	U		0.16	0.20	1	ug/L	93578		07/07/05	lms
EPA 200.7	Hardness by calculation											
	Hardness, Total as CaCO3	84.1				2.50	1	mg/L	94649		07/26/05	mad
EPA 200.7	Metals Analysis (ICAP)											
	Aluminum (Al)	10.4	U		10.4	200	1	ug/L	94634		07/26/05	mad
	Arsenic (As)	4.2	B	N	3.1	10.0	1	ug/L	94634		07/26/05	mad
	Barium (Ba)	9.7	B	N	7.1	200	1	ug/L	94634		07/26/05	mad
	Beryllium (Be)	0.40	U		0.40	5.0	1	ug/L	94634		07/26/05	mad
	Cadmium (Cd)	0.80	U	N	0.80	5.0	1	ug/L	94634		07/26/05	mad
	Calcium (Ca)	23500			58.0	5000	1	ug/L	94634		07/26/05	mad
	Chromium (Cr)	0.90	U		0.90	10.0	1	ug/L	94634		07/26/05	mad
	Cobalt (Co)	1.9	U		1.9	50.0	1	ug/L	94634		07/26/05	mad
	Copper (Cu)	3.9	B		1.2	25.0	1	ug/L	94634		07/26/05	mad
	Iron (Fe)	14.4	B		7.7	100	1	ug/L	94634		07/26/05	mad
	Lead (Pb)	2.0	B		1.9	3.0	1	ug/L	94634		07/26/05	mad
	Magnesium (Mg)	6170			16.6	5000	1	ug/L	94634		07/26/05	mad
	Manganese (Mn)	2.1	U		2.1	10.0	1	ug/L	94634		07/26/05	mad
	Nickel (Ni)	2.3	U		2.3	40.0	1	ug/L	94634		07/26/05	mad
	Potassium (K)	2240	B		142	5000	1	ug/L	94689		07/27/05	mad
	Selenium (Se)	6.8		N	3.9	5.0	1	ug/L	94634		07/26/05	mad
	Sodium (Na)	44100			10.6	5000	1	ug/L	94634		07/26/05	mad
	Silver (Ag)	1.5	B	N	1.1	10.0	1	ug/L	94634		07/26/05	mad
	Thallium (Tl)	2.9	U	N	2.9	10.0	1	ug/L	94634		07/26/05	mad
	Vanadium (V)	2.0	U	N	2.0	50.0	1	ug/L	94634		07/26/05	mad
	Zinc (Zn)	5.1	B		2.5	20.0	1	ug/L	94634		07/26/05	mad

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* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 249468

Date:08/02/2005

CUSTOMER: Sterling Environmental Engineering, PC

PROJECT: TOWN OF RAMAPO 20010

ATTN: Shelby LaBare

Customer Sample ID: SVWC-93
Date Sampled.....: 06/28/2005
Time Sampled.....: 10:15
Sample Matrix.....: Water

Laboratory Sample ID: 249468-1
Date Received.....: 06/28/2005
Time Received.....: 16:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	IDL	RL	DILUTION	UNITS	BATCH	DT	DATE	TECH
EPA 200.8	Metals Analysis (ICP-MS) Antimony (Sb)	0.14	B		0.12	0.40	1	ug/L	94484		07/25/05	mad

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* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 249468

Date:08/02/2005

CUSTOMER: Sterling Environmental Engineering, PC

PROJECT: TOWN OF RAMAPO 20010

ATTN: Shelby LaBare

Customer Sample ID: SVWC-94
Date Sampled.....: 06/28/2005
Time Sampled.....: 10:27
Sample Matrix.....: Water

Laboratory Sample ID: 249468-2
Date Received.....: 06/28/2005
Time Received.....: 16:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	IDL	RL	DILUTION	UNITS	BATCH	DT	DATE	TECH
EPA 245.1	Mercury (Hg)	0.16	U		0.16	0.20	1	ug/L	93578		07/07/05	lms
EPA 200.7	Hardness by calculation											
	Hardness, Total as CaCO3	88.2				2.50	1	mg/L	94649		07/26/05	mad
EPA 200.7	Metals Analysis (ICAP)											
	Aluminum (Al)	10.4	U		10.4	200	1	ug/L	94634		07/26/05	mad
	Arsenic (As)	3.1	U	N	3.1	10.0	1	ug/L	94634		07/26/05	mad
	Barium (Ba)	13.6	B	N	7.1	200	1	ug/L	94634		07/26/05	mad
	Beryllium (Be)	0.40	U		0.40	5.0	1	ug/L	94634		07/26/05	mad
	Cadmium (Cd)	0.80	U	N	0.80	5.0	1	ug/L	94634		07/26/05	mad
	Calcium (Ca)	24600			58.0	5000	1	ug/L	94634		07/26/05	mad
	Chromium (Cr)	0.93	B		0.90	10.0	1	ug/L	94634		07/26/05	mad
	Cobalt (Co)	1.9	U		1.9	50.0	1	ug/L	94634		07/26/05	mad
	Copper (Cu)	5.4	B		1.2	25.0	1	ug/L	94634		07/26/05	mad
	Iron (Fe)	7.7	U		7.7	100	1	ug/L	94634		07/26/05	mad
	Lead (Pb)	1.9	U		1.9	3.0	1	ug/L	94634		07/26/05	mad
	Magnesium (Mg)	6520			16.6	5000	1	ug/L	94634		07/26/05	mad
	Manganese (Mn)	6.5	B		2.1	10.0	1	ug/L	94634		07/26/05	mad
	Nickel (Ni)	2.3	U		2.3	40.0	1	ug/L	94634		07/26/05	mad
	Potassium (K)	1950	B		142	5000	1	ug/L	94689		07/27/05	mad
	Selenium (Se)	3.9	U	N	3.9	5.0	1	ug/L	94634		07/26/05	mad
	Sodium (Na)	42300			10.6	5000	1	ug/L	94634		07/26/05	mad
	Silver (Ag)	1.1	U	N	1.1	10.0	1	ug/L	94634		07/26/05	mad
	Thallium (Tl)	2.9	U	N	2.9	10.0	1	ug/L	94634		07/26/05	mad
	Vanadium (V)	2.0	U	N	2.0	50.0	1	ug/L	94634		07/26/05	mad
	Zinc (Zn)	3.8	B		2.5	20.0	1	ug/L	94634		07/26/05	mad

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 249468

Date:08/02/2005

CUSTOMER: Sterling Environmental Engineering, PC

PROJECT: TOWN OF RAMAPO 20010

ATTN: Shelby LaBare

Customer Sample ID: SVWC-94
Date Sampled.....: 06/28/2005
Time Sampled.....: 10:27
Sample Matrix.....: Water

Laboratory Sample ID: 249468-2
Date Received.....: 06/28/2005
Time Received.....: 16:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	IDL	RL	DILUTION	UNITS	BATCH	DT	DATE	TECH
EPA 200.8	Metals Analysis (ICP-MS) Antimony (Sb)	0.12	U		0.12	0.40	1	ug/L	94484		07/25/05	mad

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* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 249468

Date:08/02/2005

CUSTOMER: Sterling Environmental Engineering, PC

PROJECT: TOWN OF RAMAPO 20010

ATTN: Shelby LaBare

Customer Sample ID: SVWC-95
Date Sampled.....: 06/28/2005
Time Sampled.....: 10:34
Sample Matrix.....: Water

Laboratory Sample ID: 249468-3
Date Received.....: 06/28/2005
Time Received.....: 16:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	IDL	RL	DILUTION	UNITS	BATCH	DT	DATE	TECH
EPA 245.1	Mercury (Hg)	0.16	U		0.16	0.20	1	ug/L	93578		07/07/05	lms
EPA 200.7	Hardness by calculation Hardness, Total as CaCO3	80.6				2.50	1	mg/L	94649		07/26/05	mad
EPA 200.7	Metals Analysis (ICAP)											
	Aluminum (Al)	10.4	U		10.4	200	1	ug/L	94634		07/26/05	mad
	Arsenic (As)	3.1	U	N	3.1	10.0	1	ug/L	94634		07/26/05	mad
	Barium (Ba)	13.7	B	N	7.1	200	1	ug/L	94634		07/26/05	mad
	Beryllium (Be)	0.40	U		0.40	5.0	1	ug/L	94634		07/26/05	mad
	Cadmium (Cd)	0.80	U	N	0.80	5.0	1	ug/L	94634		07/26/05	mad
	Calcium (Ca)	22300			58.0	5000	1	ug/L	94634		07/26/05	mad
	Chromium (Cr)	0.90	U		0.90	10.0	1	ug/L	94634		07/26/05	mad
	Cobalt (Co)	1.9	U		1.9	50.0	1	ug/L	94634		07/26/05	mad
	Copper (Cu)	3.0	B		1.2	25.0	1	ug/L	94634		07/26/05	mad
	Iron (Fe)	17.2	B		7.7	100	1	ug/L	94634		07/26/05	mad
	Lead (Pb)	1.9	U		1.9	3.0	1	ug/L	94634		07/26/05	mad
	Magnesium (Mg)	6030			16.6	5000	1	ug/L	94634		07/26/05	mad
	Manganese (Mn)	86.0			2.1	10.0	1	ug/L	94634		07/26/05	mad
	Nickel (Ni)	2.3	U		2.3	40.0	1	ug/L	94634		07/26/05	mad
	Potassium (K)	2320	B		142	5000	1	ug/L	94689		07/27/05	mad
	Selenium (Se)	3.9	U	N	3.9	5.0	1	ug/L	94634		07/26/05	mad
	Sodium (Na)	41700			10.6	5000	1	ug/L	94634		07/26/05	mad
	Silver (Ag)	1.1	U	N	1.1	10.0	1	ug/L	94634		07/26/05	mad
	Thallium (Tl)	2.9	U	N	2.9	10.0	1	ug/L	94634		07/26/05	mad
	Vanadium (V)	2.0	U	N	2.0	50.0	1	ug/L	94634		07/26/05	mad
	Zinc (Zn)	9.3	B		2.5	20.0	1	ug/L	94634		07/26/05	mad

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* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 249468

Date:08/02/2005

CUSTOMER: Sterling Environmental Engineering, PC

PROJECT: TOWN OF RAMAPO 20010

ATTN: Shelby LaBare

Customer Sample ID: SVWC-95
Date Sampled.....: 06/28/2005
Time Sampled.....: 10:34
Sample Matrix.....: Water

Laboratory Sample ID: 249468-3
Date Received.....: 06/28/2005
Time Received.....: 16:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	IDL	RL	DILUTION	UNITS	BATCH	DT	DATE	TECH
EPA 200.8	Metals Analysis (ICP-MS) Antimony (Sb)	0.12	U		0.12	0.40	1	ug/L	94484		07/25/05	mad

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* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 249468

Date:08/02/2005

CUSTOMER: Sterling Environmental Engineering, PC

PROJECT: TOWN OF RAMAPO 20010

ATTN: Shelby LaBare

Customer Sample ID: SVWC-96
Date Sampled.....: 06/28/2005
Time Sampled.....: 10:43
Sample Matrix.....: Water

Laboratory Sample ID: 249468-4
Date Received.....: 06/28/2005
Time Received.....: 16:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	IDL	RL	DILUTION	UNITS	BATCH	DT	DATE	TECH
EPA 245.1	Mercury (Hg)	0.16	U		0.16	0.20	1	ug/L	93578		07/07/05	lms
EPA 200.7	Hardness by calculation Hardness, Total as CaCO3	83.2				2.50	1	mg/L	94649		07/26/05	mad
EPA 200.7	Metals Analysis (ICAP)											
	Aluminum (Al)	10.4	U		10.4	200	1	ug/L	94634		07/26/05	mad
	Arsenic (As)	3.1	U	N	3.1	10.0	1	ug/L	94634		07/26/05	mad
	Barium (Ba)	10.0	B	N	7.1	200	1	ug/L	94634		07/26/05	mad
	Beryllium (Be)	0.40	U		0.40	5.0	1	ug/L	94634		07/26/05	mad
	Cadmium (Cd)	0.80	U	N	0.80	5.0	1	ug/L	94634		07/26/05	mad
	Calcium (Ca)	22400			58.0	5000	1	ug/L	94634		07/26/05	mad
	Chromium (Cr)	0.94	B		0.90	10.0	1	ug/L	94634		07/26/05	mad
	Cobalt (Co)	1.9	U		1.9	50.0	1	ug/L	94634		07/26/05	mad
	Copper (Cu)	3.9	B		1.2	25.0	1	ug/L	94634		07/26/05	mad
	Iron (Fe)	7.7	U		7.7	100	1	ug/L	94634		07/26/05	mad
	Lead (Pb)	1.9	U		1.9	3.0	1	ug/L	94634		07/26/05	mad
	Magnesium (Mg)	6250			16.6	5000	1	ug/L	94634		07/26/05	mad
	Manganese (Mn)	2.1	U		2.1	10.0	1	ug/L	94634		07/26/05	mad
	Nickel (Ni)	2.3	U		2.3	40.0	1	ug/L	94634		07/26/05	mad
	Potassium (K)	2120	B		142	5000	1	ug/L	94689		07/27/05	mad
	Selenium (Se)	3.9	U	N	3.9	5.0	1	ug/L	94634		07/26/05	mad
	Sodium (Na)	47400			10.6	5000	1	ug/L	94634		07/26/05	mad
	Silver (Ag)	1.1	U	N	1.1	10.0	1	ug/L	94634		07/26/05	mad
	Thallium (Tl)	2.9	U	N	2.9	10.0	1	ug/L	94634		07/26/05	mad
	Vanadium (V)	2.0	U	N	2.0	50.0	1	ug/L	94634		07/26/05	mad
	Zinc (Zn)	6.0	B		2.5	20.0	1	ug/L	94634		07/26/05	mad

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 249468

Date:08/02/2005

CUSTOMER: Sterling Environmental Engineering, PC

PROJECT: TOWN OF RAMAPO 20010

ATTN: Shelby LaBare

Customer Sample ID: SVWC-96
Date Sampled.....: 06/28/2005
Time Sampled.....: 10:43
Sample Matrix.....: Water

Laboratory Sample ID: 249468-4
Date Received.....: 06/28/2005
Time Received.....: 16:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	IDL	RL	DILUTION	UNITS	BATCH	DT	DATE	TECH
EPA 200.8	Metals Analysis (ICP-MS) Antimony (Sb)	0.12	U		0.12	0.40	1	ug/L	94484		07/25/05	mad

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* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 249468

Date:08/02/2005

CUSTOMER: Sterling Environmental Engineering, PC

PROJECT: TOWN OF RAMAPO 20010

ATTN: Shelby LaBare

Customer Sample ID: PW-1
Date Sampled.....: 06/28/2005
Time Sampled.....: 11:34
Sample Matrix.....: Water

Laboratory Sample ID: 249468-5
Date Received.....: 06/28/2005
Time Received.....: 16:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	IDL	RL	DILUTION	UNITS	BATCH	DT	DATE	TECH
EPA 245.1	Mercury (Hg)	0.16	U		0.16	0.20	1	ug/L	93578		07/08/05	lms
EPA 200.7	Hardness by calculation											
	Hardness, Total as CaCO3	66.7				2.50	1	mg/L	94649		07/26/05	mad
EPA 200.7	Metals Analysis (ICAP)											
	Aluminum (Al)	10.4	U		10.4	200	1	ug/L	94634		07/26/05	mad
	Arsenic (As)	3.1	U	N	3.1	10.0	1	ug/L	94634		07/26/05	mad
	Barium (Ba)	11.2	B	N	7.1	200	1	ug/L	94634		07/26/05	mad
	Beryllium (Be)	0.40	U		0.40	5.0	1	ug/L	94634		07/26/05	mad
	Cadmium (Cd)	0.80	U	N	0.80	5.0	1	ug/L	94634		07/26/05	mad
	Calcium (Ca)	18400			58.0	5000	1	ug/L	94634		07/26/05	mad
	Chromium (Cr)	0.90	U		0.90	10.0	1	ug/L	94634		07/26/05	mad
	Cobalt (Co)	1.9	U		1.9	50.0	1	ug/L	94634		07/26/05	mad
	Copper (Cu)	83.4			1.2	25.0	1	ug/L	94634		07/26/05	mad
	Iron (Fe)	18.6	B		7.7	100	1	ug/L	94634		07/26/05	mad
	Lead (Pb)	1.9	U		1.9	3.0	1	ug/L	94634		07/26/05	mad
	Magnesium (Mg)	5070			16.6	5000	1	ug/L	94634		07/26/05	mad
	Manganese (Mn)	2.1	U		2.1	10.0	1	ug/L	94634		07/26/05	mad
	Nickel (Ni)	2.3	U		2.3	40.0	1	ug/L	94634		07/26/05	mad
	Potassium (K)	1260	B		142	5000	1	ug/L	94689		07/27/05	mad
	Selenium (Se)	3.9	U	N	3.9	5.0	1	ug/L	94634		07/26/05	mad
	Sodium (Na)	11500			10.6	5000	1	ug/L	94634		07/26/05	mad
	Silver (Ag)	1.1	U	N	1.1	10.0	1	ug/L	94634		07/26/05	mad
	Thallium (Tl)	2.9	U	N	2.9	10.0	1	ug/L	94634		07/26/05	mad
	Vanadium (V)	2.0	U	N	2.0	50.0	1	ug/L	94634		07/26/05	mad
	Zinc (Zn)	13.6	B		2.5	20.0	1	ug/L	94634		07/26/05	mad

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* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 249468

Date:08/02/2005

CUSTOMER: Sterling Environmental Engineering, PC

PROJECT: TOWN OF RAMAPO 20010

ATTN: Shelby LaBare

Customer Sample ID: PW-1
Date Sampled.....: 06/28/2005
Time Sampled.....: 11:34
Sample Matrix.....: Water

Laboratory Sample ID: 249468-5
Date Received.....: 06/28/2005
Time Received.....: 16:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	IDL	RL	DILUTION	UNITS	BATCH	DT	DATE	TECH
EPA 200.8	Metals Analysis (ICP-MS) Antimony (Sb)	0.12	U		0.12	0.40	1	ug/L	94484		07/25/05	mad

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 249468

Date:08/02/2005

CUSTOMER: Sterling Environmental Engineering, PC

PROJECT: TOWN OF RAMAPO 20010

ATTN: Shelby LaBare

Customer Sample ID: PW-2
Date Sampled.....: 06/28/2005
Time Sampled.....: 10:58
Sample Matrix.....: Water

Laboratory Sample ID: 249468-6
Date Received.....: 06/28/2005
Time Received.....: 16:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	IDL	RL	DILUTION	UNITS	BATCH	DT	DATE	TECH
EPA 245.1	Mercury (Hg)	0.16	U		0.16	0.20	1	ug/L	93578		07/08/05	lms
EPA 200.7	Hardness by calculation Hardness, Total as CaCO3	56.6				2.50	1	mg/L	94649		07/26/05	mad
EPA 200.7	Metals Analysis (ICAP)											
	Aluminum (Al)	10.4	U		10.4	200	1	ug/L	94634		07/26/05	mad
	Arsenic (As)	3.1	U	N	3.1	10.0	1	ug/L	94634		07/26/05	mad
	Barium (Ba)	7.1	U	N	7.1	200	1	ug/L	94634		07/26/05	mad
	Beryllium (Be)	0.40	U		0.40	5.0	1	ug/L	94634		07/26/05	mad
	Cadmium (Cd)	0.80	U	N	0.80	5.0	1	ug/L	94634		07/26/05	mad
	Calcium (Ca)	18800			58.0	5000	1	ug/L	94634		07/26/05	mad
	Chromium (Cr)	0.90	U		0.90	10.0	1	ug/L	94634		07/26/05	mad
	Cobalt (Co)	1.9	U		1.9	50.0	1	ug/L	94634		07/26/05	mad
	Copper (Cu)	197			1.2	25.0	1	ug/L	94634		07/26/05	mad
	Iron (Fe)	115			7.7	100	1	ug/L	94634		07/26/05	mad
	Lead (Pb)	1.9	U		1.9	3.0	1	ug/L	94634		07/26/05	mad
	Magnesium (Mg)	2320	B		16.6	5000	1	ug/L	94634		07/26/05	mad
	Manganese (Mn)	2.1	U		2.1	10.0	1	ug/L	94634		07/26/05	mad
	Nickel (Ni)	2.3	U		2.3	40.0	1	ug/L	94634		07/26/05	mad
	Potassium (K)	871	B		142	5000	1	ug/L	94689		07/27/05	mad
	Selenium (Se)	3.9	U	N	3.9	5.0	1	ug/L	94634		07/26/05	mad
	Sodium (Na)	5400			10.6	5000	1	ug/L	94634		07/26/05	mad
	Silver (Ag)	1.7	B	N	1.1	10.0	1	ug/L	94634		07/26/05	mad
	Thallium (Tl)	2.9	U	N	2.9	10.0	1	ug/L	94634		07/26/05	mad
	Vanadium (V)	2.0	U	N	2.0	50.0	1	ug/L	94634		07/26/05	mad
	Zinc (Zn)	44.1			2.5	20.0	1	ug/L	94634		07/26/05	mad

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* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 249468

Date:08/02/2005

CUSTOMER: Sterling Environmental Engineering, PC

PROJECT: TOWN OF RAMAPO 20010

ATTN: Shelby LaBare

Customer Sample ID: PW-2
Date Sampled.....: 06/28/2005
Time Sampled.....: 10:58
Sample Matrix.....: Water

Laboratory Sample ID: 249468-6
Date Received.....: 06/28/2005
Time Received.....: 16:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	IDL	RL	DILUTION	UNITS	BATCH	DT	DATE	TECH
EPA 200.8	Metals Analysis (ICP-MS) Antimony (Sb)	0.12	U		0.12	0.40	1	ug/L	94484		07/25/05	mad

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* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 249468

Date:08/02/2005

CUSTOMER: Sterling Environmental Engineering, PC | PROJECT: TOWN OF RAMAPO 20010 | ATTN: Shelby LaBare

Customer Sample ID: 9-05
Date Sampled.....: 06/28/2005
Time Sampled.....: 11:57
Sample Matrix.....: Water

Laboratory Sample ID: 249468-7
Date Received.....: 06/28/2005
Time Received.....: 16:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	IDL	RL	DILUTION	UNITS	BATCH	DT	DATE	TECH
EPA 245.1	Mercury (Hg)	0.16	U		0.16	0.20	1	ug/L	93578		07/08/05	lms
EPA 200.7	Hardness by calculation											
	Hardness, Total as CaCO3	25.8				2.50	1	mg/L	94649		07/26/05	mad
EPA 200.7	Metals Analysis (ICAP)											
	Aluminum (Al)	291			10.4	200	1	ug/L	94634		07/26/05	mad
	Arsenic (As)	3.1	U	N	3.1	10.0	1	ug/L	94634		07/26/05	mad
	Barium (Ba)	11.7	B	N	7.1	200	1	ug/L	94634		07/26/05	mad
	Beryllium (Be)	0.40	U		0.40	5.0	1	ug/L	94634		07/26/05	mad
	Cadmium (Cd)	0.80	U	N	0.80	5.0	1	ug/L	94634		07/26/05	mad
	Calcium (Ca)	7100			58.0	5000	1	ug/L	94634		07/26/05	mad
	Chromium (Cr)	2.4	B		0.90	10.0	1	ug/L	94634		07/26/05	mad
	Cobalt (Co)	1.9	U		1.9	50.0	1	ug/L	94634		07/26/05	mad
	Copper (Cu)	1.2	U		1.2	25.0	1	ug/L	94634		07/26/05	mad
	Iron (Fe)	453			7.7	100	1	ug/L	94634		07/26/05	mad
	Lead (Pb)	1.9	U		1.9	3.0	1	ug/L	94634		07/26/05	mad
	Magnesium (Mg)	1950	B		16.6	5000	1	ug/L	94634		07/26/05	mad
	Manganese (Mn)	27.7			2.1	10.0	1	ug/L	94634		07/26/05	mad
	Nickel (Ni)	2.3	U		2.3	40.0	1	ug/L	94634		07/26/05	mad
	Potassium (K)	3320	B		142	5000	1	ug/L	94689		07/27/05	mad
	Selenium (Se)	3.9	U	N	3.9	5.0	1	ug/L	94634		07/26/05	mad
	Sodium (Na)	4160	B		10.6	5000	1	ug/L	94634		07/26/05	mad
	Silver (Ag)	1.1	U	N	1.1	10.0	1	ug/L	94634		07/26/05	mad
	Thallium (Tl)	2.9	U	N	2.9	10.0	1	ug/L	94634		07/26/05	mad
	Vanadium (V)	2.0	U	N	2.0	50.0	1	ug/L	94634		07/26/05	mad
	Zinc (Zn)	9.3	B		2.5	20.0	1	ug/L	94634		07/26/05	mad

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 249468

Date:08/02/2005

CUSTOMER: Sterling Environmental Engineering, PC

PROJECT: TOWN OF RAMAPO 20010

ATTN: Shelby LaBare

Customer Sample ID: 9-OS
Date Sampled.....: 06/28/2005
Time Sampled.....: 11:57
Sample Matrix.....: Water

Laboratory Sample ID: 249468-7
Date Received.....: 06/28/2005
Time Received.....: 16:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	IDL	RL	DILUTION	UNITS	BATCH	DT	DATE	TECH
EPA 200.8	Metals Analysis (ICP-MS) Antimony (Sb)	0.15	B		0.12	0.40	1	ug/L	94484		07/25/05	mad

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* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 249468

Date:08/02/2005

CUSTOMER: Sterling Environmental Engineering, PC

PROJECT: TOWN OF RAMAPO 20010

ATTN: Shelby LaBare

Customer Sample ID: 9-I
Date Sampled.....: 06/28/2005
Time Sampled.....: 11:48
Sample Matrix.....: Water

Laboratory Sample ID: 249468-8
Date Received.....: 06/28/2005
Time Received.....: 16:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	IDL	RL	DILUTION	UNITS	BATCH	DT	DATE	TECH
EPA 245.1	Mercury (Hg)	0.16	U		0.16	0.20	1	ug/L	93578		07/08/05	lms
EPA 200.7	Hardness by calculation											
	Hardness, Total as CaCO3	31.3				2.50	1	mg/L	94649		07/26/05	mad
EPA 200.7	Metals Analysis (ICAP)											
	Aluminum (Al)	173	B		10.4	200	1	ug/L	94634		07/26/05	mad
	Arsenic (As)	3.1	U	N	3.1	10.0	1	ug/L	94634		07/26/05	mad
	Barium (Ba)	9.2	B	N	7.1	200	1	ug/L	94634		07/26/05	mad
	Beryllium (Be)	0.40	U		0.40	5.0	1	ug/L	94634		07/26/05	mad
	Cadmium (Cd)	0.80	U	N	0.80	5.0	1	ug/L	94634		07/26/05	mad
	Calcium (Ca)	8840			58.0	5000	1	ug/L	94634		07/26/05	mad
	Chromium (Cr)	1.4	B		0.90	10.0	1	ug/L	94634		07/26/05	mad
	Cobalt (Co)	1.9	U		1.9	50.0	1	ug/L	94634		07/26/05	mad
	Copper (Cu)	1.2	U		1.2	25.0	1	ug/L	94634		07/26/05	mad
	Iron (Fe)	318			7.7	100	1	ug/L	94634		07/26/05	mad
	Lead (Pb)	1.9	U		1.9	3.0	1	ug/L	94634		07/26/05	mad
	Magnesium (Mg)	2230	B		16.6	5000	1	ug/L	94634		07/26/05	mad
	Manganese (Mn)	11.6			2.1	10.0	1	ug/L	94634		07/26/05	mad
	Nickel (Ni)	2.3	U		2.3	40.0	1	ug/L	94634		07/26/05	mad
	Potassium (K)	608	B		142	5000	1	ug/L	94689		07/27/05	mad
	Selenium (Se)	3.9	U	N	3.9	5.0	1	ug/L	94634		07/26/05	mad
	Sodium (Na)	5530			10.6	5000	1	ug/L	94634		07/26/05	mad
	Silver (Ag)	1.1	U	N	1.1	10.0	1	ug/L	94634		07/26/05	mad
	Thallium (Tl)	2.9	U	N	2.9	10.0	1	ug/L	94634		07/26/05	mad
	Vanadium (V)	2.0	U	N	2.0	50.0	1	ug/L	94634		07/26/05	mad
	Zinc (Zn)	5.6	B		2.5	20.0	1	ug/L	94634		07/26/05	mad

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 249468

Date:08/02/2005

CUSTOMER: Sterling Environmental Engineering, PC

PROJECT: TOWN OF RAMAPO 20010

ATTN: Shelby LaBare

Customer Sample ID: 9-I
Date Sampled.....: 06/28/2005
Time Sampled.....: 11:48
Sample Matrix.....: Water

Laboratory Sample ID: 249468-8
Date Received.....: 06/28/2005
Time Received.....: 16:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	IDL	RL	DILUTION	UNITS	BATCH	DT	DATE	TECH
EPA 200.8	Metals Analysis (ICP-MS) Antimony (Sb)	0.12	U		0.12	0.40	1	ug/L	94484		07/25/05	mad

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* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 249468

Date:08/02/2005

CUSTOMER: Sterling Environmental Engineering, PC

PROJECT: TOWN OF RAMAPO 20010

ATTN: Shelby LaBare

Customer Sample ID: 9-R
Date Sampled.....: 06/28/2005
Time Sampled.....: 12:04
Sample Matrix.....: Water

Laboratory Sample ID: 249468-9
Date Received.....: 06/28/2005
Time Received.....: 16:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	IDL	RL	DILUTION	UNITS	BATCH	DT	DATE	TECH
EPA 245.1	Mercury (Hg)	0.16	U		0.16	0.20	1	ug/L	93578		07/08/05	lms
EPA 200.7	Hardness by calculation											
	Hardness, Total as CaCO3	102				2.50	1	mg/L	94649		07/26/05	mad
EPA 200.7	Metals Analysis (ICAP)											
	Aluminum (Al)	26.5	B		10.4	200	1	ug/L	94634		07/26/05	mad
	Arsenic (As)	3.1	U	N	3.1	10.0	1	ug/L	94634		07/26/05	mad
	Barium (Ba)	23.3	B	N	7.1	200	1	ug/L	94634		07/26/05	mad
	Beryllium (Be)	0.40	U		0.40	5.0	1	ug/L	94634		07/26/05	mad
	Cadmium (Cd)	0.80	U	N	0.80	5.0	1	ug/L	94634		07/26/05	mad
	Calcium (Ca)	26700			58.0	5000	1	ug/L	94634		07/26/05	mad
	Chromium (Cr)	1.9	B		0.90	10.0	1	ug/L	94634		07/26/05	mad
	Cobalt (Co)	2.8	B		1.9	50.0	1	ug/L	94634		07/26/05	mad
	Copper (Cu)	1.2	U		1.2	25.0	1	ug/L	94634		07/26/05	mad
	Iron (Fe)	6430			7.7	100	1	ug/L	94634		07/26/05	mad
	Lead (Pb)	1.9	U		1.9	3.0	1	ug/L	94634		07/26/05	mad
	Magnesium (Mg)	8520			16.6	5000	1	ug/L	94634		07/26/05	mad
	Manganese (Mn)	2730			2.1	10.0	1	ug/L	94634		07/26/05	mad
	Nickel (Ni)	2.3	U		2.3	40.0	1	ug/L	94634		07/26/05	mad
	Potassium (K)	10100			284	10000	2.000	ug/L	94689		07/27/05	mad
	Selenium (Se)	3.9	U	N	3.9	5.0	1	ug/L	94634		07/26/05	mad
	Sodium (Na)	22500			10.6	5000	1	ug/L	94634		07/26/05	mad
	Silver (Ag)	1.4	B	N	1.1	10.0	1	ug/L	94634		07/26/05	mad
	Thallium (Tl)	2.9	U	N	2.9	10.0	1	ug/L	94634		07/26/05	mad
	Vanadium (V)	2.0	U	N	2.0	50.0	1	ug/L	94634		07/26/05	mad
	Zinc (Zn)	3.2	B		2.5	20.0	1	ug/L	94634		07/26/05	mad

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 249468

Date:08/02/2005

CUSTOMER: Sterling Environmental Engineering, PC

PROJECT: TOWN OF RAMAPO 20010

ATTN: Shelby LaBare

Customer Sample ID: 9-R
Date Sampled.....: 06/28/2005
Time Sampled.....: 12:04
Sample Matrix.....: Water

Laboratory Sample ID: 249468-9
Date Received.....: 06/28/2005
Time Received.....: 16:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	IDL	RL	DILUTION	UNITS	BATCH	DT	DATE	TECH
EPA 200.8	Metals Analysis (ICP-MS) Antimony (Sb)	0.12	U		0.12	0.40	1	ug/L	94484		07/25/05	mad

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* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 249468

Date:08/02/2005

CUSTOMER: Sterling Environmental Engineering, PC

PROJECT: TOWN OF RAMAPO 20010

ATTN: Shelby LaBare

Customer Sample ID: 8-OS
Date Sampled.....: 06/28/2005
Time Sampled.....: 15:00
Sample Matrix.....: Water

Laboratory Sample ID: 249468-10
Date Received.....: 06/28/2005
Time Received.....: 16:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	IDL	RL	DILUTION	UNITS	BATCH	DT	DATE	TECH
EPA 245.1	Mercury (Hg)	0.16	U		0.16	0.20	1	ug/L	93578		07/08/05	lms
EPA 200.7	Hardness by calculation											
	Hardness, Total as CaCO3	47.6				2.50	1	mg/L	94649		07/26/05	mad
EPA 200.7	Metals Analysis (ICAP)											
	Aluminum (Al)	735			10.4	200	1	ug/L	94634		07/26/05	mad
	Arsenic (As)	3.7	B	N	3.1	10.0	1	ug/L	94634		07/26/05	mad
	Barium (Ba)	56.9	B	N	7.1	200	1	ug/L	94634		07/26/05	mad
	Beryllium (Be)	0.51	B		0.40	5.0	1	ug/L	94634		07/26/05	mad
	Cadmium (Cd)	0.80	U	N	0.80	5.0	1	ug/L	94634		07/26/05	mad
	Calcium (Ca)	14200			58.0	5000	1	ug/L	94634		07/26/05	mad
	Chromium (Cr)	29.6			0.90	10.0	1	ug/L	94634		07/26/05	mad
	Cobalt (Co)	15.4	B		1.9	50.0	1	ug/L	94634		07/26/05	mad
	Copper (Cu)	32.1			1.2	25.0	1	ug/L	94634		07/26/05	mad
	Iron (Fe)	3150			7.7	100	1	ug/L	94634		07/26/05	mad
	Lead (Pb)	1.9	U		1.9	3.0	1	ug/L	94634		07/26/05	mad
	Magnesium (Mg)	2950	B		16.6	5000	1	ug/L	94634		07/26/05	mad
	Manganese (Mn)	691			2.1	10.0	1	ug/L	94634		07/26/05	mad
	Nickel (Ni)	61.9			2.3	40.0	1	ug/L	94634		07/26/05	mad
	Potassium (K)	1370	B		142	5000	1	ug/L	94689		07/27/05	mad
	Selenium (Se)	3.9	U	N	3.9	5.0	1	ug/L	94634		07/26/05	mad
	Sodium (Na)	8400			10.6	5000	1	ug/L	94634		07/26/05	mad
	Silver (Ag)	3.7	B	N	1.1	10.0	1	ug/L	94634		07/26/05	mad
	Thallium (Tl)	2.9	U	N	2.9	10.0	1	ug/L	94634		07/26/05	mad
	Vanadium (V)	2.4	B	N	2.0	50.0	1	ug/L	94634		07/26/05	mad
	Zinc (Zn)	56.7			2.5	20.0	1	ug/L	94634		07/26/05	mad

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* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 249468

Date:08/02/2005

CUSTOMER: Sterling Environmental Engineering, PC

PROJECT: TOWN OF RAMAPO 20010

ATTN: Shelby LaBare

Customer Sample ID: 8-OS
Date Sampled.....: 06/28/2005
Time Sampled.....: 15:00
Sample Matrix.....: Water

Laboratory Sample ID: 249468-10
Date Received.....: 06/28/2005
Time Received.....: 16:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	IDL	RL	DILUTION	UNITS	BATCH	OT	DATE	TECH
EPA 200.8	Metals Analysis (ICP-MS) Antimony (Sb)	0.13	B		0.12	0.40	1	ug/L	94484		07/25/05	mad

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* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 249468 Date:08/02/2005

CUSTOMER: Sterling Environmental Engineering, PC PROJECT: TOWN OF RAMAPO 20010 ATTN: Shelby LaBare

Customer Sample ID: 8-I
Date Sampled.....: 06/28/2005
Time Sampled.....: 14:37
Sample Matrix.....: Water

Laboratory Sample ID: 249468-11
Date Received.....: 06/28/2005
Time Received.....: 16:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	IDL	RL	DILUTION	UNITS	BATCH	DT	DATE	TECH
EPA 245.1	Mercury (Hg)	0.16	U		0.16	0.20	1	ug/L	93578		07/08/05	lms
EPA 200.7	Hardness by calculation											
	Hardness, Total as CaCO3	360				2.50	1	mg/L	94649		07/26/05	mad
EPA 200.7	Metals Analysis (ICAP)											
	Aluminum (Al)	184	B		10.4	200	1	ug/L	94634		07/26/05	mad
	Arsenic (As)	8.6	B	N	3.1	10.0	1	ug/L	94634		07/26/05	mad
	Barium (Ba)	111	B	N	7.1	200	1	ug/L	94634		07/26/05	mad
	Beryllium (Be)	0.40	U		0.40	5.0	1	ug/L	94634		07/26/05	mad
	Cadmium (Cd)	0.80	U	N	0.80	5.0	1	ug/L	94634		07/26/05	mad
	Calcium (Ca)	93200			58.0	5000	1	ug/L	94634		07/26/05	mad
	Chromium (Cr)	3.3	B		0.90	10.0	1	ug/L	94634		07/26/05	mad
	Cobalt (Co)	8.6	B		1.9	50.0	1	ug/L	94634		07/26/05	mad
	Copper (Cu)	1.2	U		1.2	25.0	1	ug/L	94634		07/26/05	mad
	Iron (Fe)	13900			7.7	100	1	ug/L	94634		07/26/05	mad
	Lead (Pb)	1.9	U		1.9	3.0	1	ug/L	94634		07/26/05	mad
	Magnesium (Mg)	31000			16.6	5000	1	ug/L	94634		07/26/05	mad
	Manganese (Mn)	3090			2.1	10.0	1	ug/L	94634		07/26/05	mad
	Nickel (Ni)	15.6	B		2.3	40.0	1	ug/L	94634		07/26/05	mad
	Potassium (K)	52500			994	35000	7.000	ug/L	94689		07/27/05	mad
	Selenium (Se)	3.9	U	N	3.9	5.0	1	ug/L	94634		07/26/05	mad
	Sodium (Na)	124000			10.6	5000	1	ug/L	94634		07/26/05	mad
	Silver (Ag)	2.2	B	N	1.1	10.0	1	ug/L	94634		07/26/05	mad
	Thallium (Tl)	4.6	B	N	2.9	10.0	1	ug/L	94634		07/26/05	mad
	Vanadium (V)	2.0	U	N	2.0	50.0	1	ug/L	94634		07/26/05	mad
	Zinc (Zn)	5.4	B		2.5	20.0	1	ug/L	94634		07/26/05	mad

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* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 249468

Date:08/02/2005

CUSTOMER: Sterling Environmental Engineering, PC

PROJECT: TOWN OF RAMAPO 20010

ATTN: Shelby LaBare

Customer Sample ID: 8-I
Date Sampled.....: 06/28/2005
Time Sampled.....: 14:37
Sample Matrix.....: Water

Laboratory Sample ID: 249468-11
Date Received.....: 06/28/2005
Time Received.....: 16:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	IDL	RL	DILUTION	UNITS	BATCH	DT	DATE	TECH
EPA 200.8	Metals Analysis (ICP-MS) Antimony (Sb)	0.12	U		0.12	0.40	1	ug/L	94484		07/25/05	mad

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* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 249468

Date:08/02/2005

CUSTOMER: Sterling Environmental Engineering, PC

PROJECT: TOWN OF RAMAPO 20010

ATTN: Shelby LaBare

Customer Sample ID: 8-R
Date Sampled.....: 06/28/2005
Time Sampled.....: 15:05
Sample Matrix.....: Water

Laboratory Sample ID: 249468-12
Date Received.....: 06/28/2005
Time Received.....: 16:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	IDL	RL	DILUTION	UNITS	BATCH	DT	DATE	TECH
EPA 245.1	Mercury (Hg)	0.16	U		0.16	0.20	1	ug/L	93578		07/08/05	lms
EPA 200.7	Hardness by calculation											
	Hardness, Total as CaCO3	600				2.50	1	mg/L	94649		07/26/05	mad
EPA 200.7	Metals Analysis (ICAP)											
	Aluminum (Al)	10.4	U		10.4	200	1	ug/L	94634		07/26/05	mad
	Arsenic (As)	3.1	U	N	3.1	10.0	1	ug/L	94634		07/26/05	mad
	Barium (Ba)	20.8	B	N	7.1	200	1	ug/L	94634		07/26/05	mad
	Beryllium (Be)	0.40	U		0.40	5.0	1	ug/L	94634		07/26/05	mad
	Cadmium (Cd)	0.80	U	N	0.80	5.0	1	ug/L	94634		07/26/05	mad
	Calcium (Ca)	169000			58.0	5000	1	ug/L	94634		07/26/05	mad
	Chromium (Cr)	2.5	B		0.90	10.0	1	ug/L	94634		07/26/05	mad
	Cobalt (Co)	13.8	B		1.9	50.0	1	ug/L	94634		07/26/05	mad
	Copper (Cu)	3.0	B		1.2	25.0	1	ug/L	94634		07/26/05	mad
	Iron (Fe)	751			7.7	100	1	ug/L	94634		07/26/05	mad
	Lead (Pb)	3.5			1.9	3.0	1	ug/L	94634		07/26/05	mad
	Magnesium (Mg)	43000			16.6	5000	1	ug/L	94634		07/26/05	mad
	Manganese (Mn)	2190			2.1	10.0	1	ug/L	94634		07/26/05	mad
	Nickel (Ni)	11.5	B		2.3	40.0	1	ug/L	94634		07/26/05	mad
	Potassium (K)	7630			142	5000	1	ug/L	94689		07/27/05	mad
	Selenium (Se)	3.9	U	N	3.9	5.0	1	ug/L	94634		07/26/05	mad
	Sodium (Na)	42200			10.6	5000	1	ug/L	94634		07/26/05	mad
	Silver (Ag)	4.3	B	N	1.1	10.0	1	ug/L	94634		07/26/05	mad
	Thallium (Tl)	4.6	B	N	2.9	10.0	1	ug/L	94634		07/26/05	mad
	Vanadium (V)	2.0	U	N	2.0	50.0	1	ug/L	94634		07/26/05	mad
	Zinc (Zn)	8.6	B		2.5	20.0	1	ug/L	94634		07/26/05	mad

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* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 249468

Date:08/02/2005

CUSTOMER: Sterling Environmental Engineering, PC

PROJECT: TOWN OF RAMAPO 20010

ATTN: Shelby LaBare

Customer Sample ID: 8-R
Date Sampled.....: 06/28/2005
Time Sampled.....: 15:05
Sample Matrix.....: Water

Laboratory Sample ID: 249468-12
Date Received.....: 06/28/2005
Time Received.....: 16:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	IDL	RL	DILUTION	UNITS	BATCH	DT	DATE	TECH
EPA 200.8	Metals Analysis (ICP-MS) Antimony (Sb)	0.12	U		0.12	0.40	1	ug/L	94484		07/25/05	mad

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* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 249468

Date:08/02/2005

CUSTOMER: Sterling Environmental Engineering, PC

PROJECT: TOWN OF RAMAPO 20010

ATTN: Shelby LaBare

Customer Sample ID: 7-OS
Date Sampled.....: 06/28/2005
Time Sampled.....: 14:03
Sample Matrix.....: Water

Laboratory Sample ID: 249468-13
Date Received.....: 06/28/2005
Time Received.....: 16:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	IDL	RL	DILUTION	UNITS	BATCH	DT	DATE	TECH
EPA 245.1	Mercury (Hg)	0.16	U		0.16	0.20	1	ug/L	93578		07/08/05	lms
EPA 200.7	Hardness by calculation											
	Hardness, Total as CaCO3	169				2.50	1	mg/L	94649		07/26/05	mad
EPA 200.7	Metals Analysis (ICAP)											
	Aluminum (Al)	1520			10.4	200	1	ug/L	94634		07/26/05	mad
	Arsenic (As)	3.1	U	N	3.1	10.0	1	ug/L	94634		07/26/05	mad
	Barium (Ba)	102	B	N	7.1	200	1	ug/L	94634		07/26/05	mad
	Beryllium (Be)	0.40	U		0.40	5.0	1	ug/L	94634		07/26/05	mad
	Cadmium (Cd)	0.80	U	N	0.80	5.0	1	ug/L	94634		07/26/05	mad
	Calcium (Ca)	48800			58.0	5000	1	ug/L	94634		07/26/05	mad
	Chromium (Cr)	5.7	B		0.90	10.0	1	ug/L	94634		07/26/05	mad
	Cobalt (Co)	25.7	B		1.9	50.0	1	ug/L	94634		07/26/05	mad
	Copper (Cu)	5.2	B		1.2	25.0	1	ug/L	94634		07/26/05	mad
	Iron (Fe)	1310			7.7	100	1	ug/L	94634		07/26/05	mad
	Lead (Pb)	2.5	B		1.9	3.0	1	ug/L	94634		07/26/05	mad
	Magnesium (Mg)	11500			16.6	5000	1	ug/L	94634		07/26/05	mad
	Manganese (Mn)	222			2.1	10.0	1	ug/L	94634		07/26/05	mad
	Nickel (Ni)	2.3	U		2.3	40.0	1	ug/L	94634		07/26/05	mad
	Potassium (K)	4930	B		142	5000	1	ug/L	94689		07/27/05	mad
	Selenium (Se)	3.9	U	N	3.9	5.0	1	ug/L	94634		07/26/05	mad
	Sodium (Na)	9190			10.6	5000	1	ug/L	94634		07/26/05	mad
	Silver (Ag)	2.0	B	N	1.1	10.0	1	ug/L	94634		07/26/05	mad
	Thallium (Tl)	2.9	U	N	2.9	10.0	1	ug/L	94634		07/26/05	mad
	Vanadium (V)	2.8	B	N	2.0	50.0	1	ug/L	94634		07/26/05	mad
	Zinc (Zn)	13.4	B		2.5	20.0	1	ug/L	94634		07/26/05	mad

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 249468

Date:08/02/2005

CUSTOMER: Sterling Environmental Engineering, PC

PROJECT: TOWN OF RAMAPO 20010

ATTN: Shelby LaBare

Customer Sample ID: 7-OS
Date Sampled.....: 06/28/2005
Time Sampled.....: 14:03
Sample Matrix.....: Water

Laboratory Sample ID: 249468-13
Date Received.....: 06/28/2005
Time Received.....: 16:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	IDL	RL	DILUTION	UNITS	BATCH	DT	DATE	TECH
EPA 200.8	Metals Analysis (ICP-MS) Antimony (Sb)	0.12	U		0.12	0.40	1	ug/L	94484		07/25/05	mad

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* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 249468

Date:08/02/2005

CUSTOMER: Sterling Environmental Engineering, PC

PROJECT: TOWN OF RAMAPO 20010

ATTN: Shelby LaBare

Customer Sample ID: 4-OS
Date Sampled.....: 06/28/2005
Time Sampled.....: 15:36
Sample Matrix.....: Water

Laboratory Sample ID: 249468-14
Date Received.....: 06/28/2005
Time Received.....: 16:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	IDL	RL	DILUTION	UNITS	BATCH	DT	DATE	TECH
EPA 245.1	Mercury (Hg)	0.16	U		0.16	0.20	1	ug/L	93578		07/08/05	lms
EPA 200.7	Hardness by calculation											
	Hardness, Total as CaCO3	201				2.50	1	mg/L	94649		07/26/05	mad
EPA 200.7	Metals Analysis (ICAP)											
	Aluminum (Al)	386			10.4	200	1	ug/L	94634		07/26/05	mad
	Arsenic (As)	3.1	U	N	3.1	10.0	1	ug/L	94634		07/26/05	mad
	Barium (Ba)	32.7	B	N	7.1	200	1	ug/L	94634		07/26/05	mad
	Beryllium (Be)	0.40	U		0.40	5.0	1	ug/L	94634		07/26/05	mad
	Cadmium (Cd)	0.80	U	N	0.80	5.0	1	ug/L	94634		07/26/05	mad
	Calcium (Ca)	52400			58.0	5000	1	ug/L	94634		07/26/05	mad
	Chromium (Cr)	56.7			0.90	10.0	1	ug/L	94634		07/26/05	mad
	Cobalt (Co)	2.0	B		1.9	50.0	1	ug/L	94634		07/26/05	mad
	Copper (Cu)	4.2	B		1.2	25.0	1	ug/L	94634		07/26/05	mad
	Iron (Fe)	1230			7.7	100	1	ug/L	94634		07/26/05	mad
	Lead (Pb)	1.9	U		1.9	3.0	1	ug/L	94634		07/26/05	mad
	Magnesium (Mg)	17100			16.6	5000	1	ug/L	94634		07/26/05	mad
	Manganese (Mn)	700			2.1	10.0	1	ug/L	94634		07/26/05	mad
	Nickel (Ni)	87.8			2.3	40.0	1	ug/L	94634		07/26/05	mad
	Potassium (K)	1390	B		142	5000	1	ug/L	94689		07/27/05	mad
	Selenium (Se)	3.9	U	N	3.9	5.0	1	ug/L	94634		07/26/05	mad
	Sodium (Na)	20300			10.6	5000	1	ug/L	94634		07/26/05	mad
	Silver (Ag)	3.8	B	N	1.1	10.0	1	ug/L	94634		07/26/05	mad
	Thallium (Tl)	2.9	U	N	2.9	10.0	1	ug/L	94634		07/26/05	mad
	Vanadium (V)	2.0	U	N	2.0	50.0	1	ug/L	94634		07/26/05	mad
	Zinc (Zn)	22.5			2.5	20.0	1	ug/L	94634		07/26/05	mad

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* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 249468 Date:08/02/2005

CUSTOMER: Sterling Environmental Engineering, PC PROJECT: TOWN OF RAMAPO 20010 ATTN: Shelby LaBare

Customer Sample ID: 4-OS
Date Sampled.....: 06/28/2005
Time Sampled.....: 15:36
Sample Matrix.....: Water

Laboratory Sample ID: 249468-14
Date Received.....: 06/28/2005
Time Received.....: 16:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	IDL	RL	DILUTION	UNITS	BATCH	DT	DATE	TECH
EPA 200.8	Metals Analysis (ICP-MS) Antimony (Sb)	0.12	U		0.12	0.40	1	ug/L	94484		07/25/05	mad

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* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 249468

Date: 08/02/2005

CUSTOMER: Sterling Environmental Engineering, PC PROJECT: TOWN OF RAMAPO 20010 ATTN: Shelby LaBare

Customer Sample ID: SVWC-93
Date Sampled.....: 06/28/2005
Time Sampled.....: 10:15
Sample Matrix.....: Water

Laboratory Sample ID: 249468-1
Date Received.....: 06/28/2005
Time Received.....: 16:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
SM18 2320B	Alkalinity, Total as CaCO3	39.1			5.00	mg/L	07/14/05	vvm
HACH 8000	Chemical Oxygen Demand (COD)	10.0	U		10.0	mg/L	06/30/05	bg
LAC 10107062D	Nitrogen, Total Kjeldahl as N (TKN)	1.00	U		1.00	mg/L	07/15/05	vvm

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 249468

Date: 08/02/2005

CUSTOMER: Sterling Environmental Engineering, PC PROJECT: TOWN OF RAMAPO 20010 ATTN: Shelby LaBare

Customer Sample ID: SVWC-94
Date Sampled.....: 06/28/2005
Time Sampled.....: 10:27
Sample Matrix.....: Water

Laboratory Sample ID: 249468-2
Date Received.....: 06/28/2005
Time Received.....: 16:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
SM18 2320B	Alkalinity, Total as CaCO3	41.9			5.00	mg/L	07/14/05	vvm
HACH 8000	Chemical Oxygen Demand (COD)	10.0	U		10.0	mg/L	06/30/05	bg
LAC 10107062D	Nitrogen, Total Kjeldahl as N (TKN)	1.00	U		1.00	mg/L	07/15/05	vvm

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 249468 Date: 08/02/2005

CUSTOMER: Sterling Environmental Engineering, PC PROJECT: TOWN OF RAMAPO 20010 ATTN: Shelby LaBare

Customer Sample ID: SVWC-95
Date Sampled.....: 06/28/2005
Time Sampled.....: 10:34
Sample Matrix.....: Water

Laboratory Sample ID: 249468-3
Date Received.....: 06/28/2005
Time Received.....: 16:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
SM18 2320B	Alkalinity, Total as CaCO3	53.5			5.00	mg/L	07/14/05	vvm
HACH 8000	Chemical Oxygen Demand (COD)	10.0	U		10.0	mg/L	06/30/05	bg
LAC 10107062D	Nitrogen, Total Kjeldahl as N (TKN)	1.00	U		1.00	mg/L	07/15/05	vvm

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 249468

Date: 08/02/2005

CUSTOMER: Sterling Environmental Engineering, PC PROJECT: TOWN OF RAMAPO 20010 ATTN: Shelby LaBare

Customer Sample ID: SVWC-96
Date Sampled.....: 06/28/2005
Time Sampled.....: 10:43
Sample Matrix.....: Water

Laboratory Sample ID: 249468-4
Date Received.....: 06/28/2005
Time Received.....: 16:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
SM18 2320B	Alkalinity, Total as CaCO3	47.6			5.00	mg/L	07/14/05	vvm
HACH 8000	Chemical Oxygen Demand (COD)	10.0	U		10.0	mg/L	06/30/05	bg
LAC 10107062D	Nitrogen, Total Kjeldahl as N (TKN)	1.00	U		1.00	mg/L	07/15/05	vvm

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 249468 Date: 08/02/2005

CUSTOMER: Sterling Environmental Engineering, PC PROJECT: TOWN OF RAMAPO 20010 ATTN: Shelby LaBare

Customer Sample ID: PW-1
Date Sampled.....: 06/28/2005
Time Sampled.....: 11:34
Sample Matrix.....: Water

Laboratory Sample ID: 249468-5
Date Received.....: 06/28/2005
Time Received.....: 16:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
SM18 2320B	Alkalinity, Total as CaCO3	13.5			5.00	mg/L	07/14/05	vvm
HACH 8000	Chemical Oxygen Demand (COD)	10.0	U		10.0	mg/L	06/30/05	bg
LAC 10107062D	Nitrogen, Total Kjeldahl as N (TKN)	1.00	U		1.00	mg/L	07/15/05	vvm

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 249468

Date: 08/02/2005

CUSTOMER: Sterling Environmental Engineering, PC PROJECT: TOWN OF RAMAPO 20010 ATTN: Shelby LaBare

Customer Sample ID: PW-2
Date Sampled.....: 06/28/2005
Time Sampled.....: 10:58
Sample Matrix.....: Water

Laboratory Sample ID: 249468-6
Date Received.....: 06/28/2005
Time Received.....: 16:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
SM18 2320B	Alkalinity, Total as CaCO3	37.9			5.00	mg/L	07/14/05	vvm
HACH 8000	Chemical Oxygen Demand (COD)	10.0	U		10.0	mg/L	06/30/05	bg
LAC 10107062D	Nitrogen, Total Kjeldahl as N (TKN)	1.00	U		1.00	mg/L	07/15/05	vvm

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 249468 Date: 08/02/2005

CUSTOMER: Sterling Environmental Engineering, PC PROJECT: TOWN OF RAMAPO 20010 ATTN: Shelby LaBare

Customer Sample ID: 9-OS
Date Sampled.....: 06/28/2005
Time Sampled.....: 11:57
Sample Matrix.....: Water

Laboratory Sample ID: 249468-7
Date Received.....: 06/28/2005
Time Received.....: 16:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
SM18 2320B	Alkalinity, Total as CaCO3	15.5			5.00	mg/L	07/14/05	vvm
HACH 8000	Chemical Oxygen Demand (COD)	47.2			10.0	mg/L	06/30/05	bg
LAC 10107062D	Nitrogen, Total Kjeldahl as N (TKN)	1.05			1.00	mg/L	07/15/05	vvm

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 249468

Date: 08/02/2005

CUSTOMER: Sterling Environmental Engineering, PC PROJECT: TOWN OF RAMAPO 20010 ATTN: Shelby LaBare

Customer Sample ID: 9-I
Date Sampled.....: 06/28/2005
Time Sampled.....: 11:48
Sample Matrix.....: Water

Laboratory Sample ID: 249468-8
Date Received.....: 06/28/2005
Time Received.....: 16:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
SM18 2320B	Alkalinity, Total as CaCO3	10.8			5.00	mg/L	07/14/05	vvm
HACH 8000	Chemical Oxygen Demand (COD)	10.0	U		10.0	mg/L	06/30/05	bg
LAC 10107062D	Nitrogen, Total Kjeldahl as N (TKN)	1.00	U		1.00	mg/L	07/15/05	vvm

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 249468 Date: 08/02/2005

CUSTOMER: Sterling Environmental Engineering, PC PROJECT: TOWN OF RAMAPO 20010 ATTN: Shelby LaBare

Customer Sample ID: 9-R
Date Sampled.....: 06/28/2005
Time Sampled.....: 12:04
Sample Matrix.....: Water

Laboratory Sample ID: 249468-9
Date Received.....: 06/28/2005
Time Received.....: 16:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
SM18 2320B	Alkalinity, Total as CaCO3	5.00	U		5.00	mg/L	07/14/05	vvm
HACH 8000	Chemical Oxygen Demand (COD)	10.0	U		10.0	mg/L	06/30/05	bg
LAC 10107062D	Nitrogen, Total Kjeldahl as N (TKN)	6.78			1.00	mg/L	07/15/05	vvm

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 249468

Date: 08/02/2005

CUSTOMER: Sterling Environmental Engineering, PC PROJECT: TOWN OF RAMAPO 20010 ATTN: Shelby LaBare

Customer Sample ID: 8-OS
Date Sampled.....: 06/28/2005
Time Sampled.....: 15:00
Sample Matrix.....: Water

Laboratory Sample ID: 249468-10
Date Received.....: 06/28/2005
Time Received.....: 16:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
SM18 2320B	Alkalinity, Total as CaCO3	21.4			5.00	mg/L	07/14/05	vvm
HACH 8000	Chemical Oxygen Demand (COD)	10.0	U		10.0	mg/L	06/30/05	bg
LAC 10107062D	Nitrogen, Total Kjeldahl as N (TKN)	1.00	U		1.00	mg/L	07/15/05	vvm

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 249468 Date: 08/02/2005

CUSTOMER: Sterling Environmental Engineering, PC PROJECT: TOWN OF RAMAPO 20010 ATTN: Shelby LaBare

Customer Sample ID: 8-I
Date Sampled.....: 06/28/2005
Time Sampled.....: 14:37
Sample Matrix.....: Water

Laboratory Sample ID: 249468-11
Date Received.....: 06/28/2005
Time Received.....: 16:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
SM18 2320B	Alkalinity, Total as CaCO3	564			5.00	mg/L	07/14/05	vvm
HACH 8000	Chemical Oxygen Demand (COD)	50.1			10.0	mg/L	06/30/05	bg
LAC 10107062D	Nitrogen, Total Kjeldahl as N (TKN)	10.2			5.00	mg/L	07/15/05	vvm

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 249468 Date: 08/02/2005

CUSTOMER: Sterling Environmental Engineering, PC PROJECT: TOWN OF RAMAPO 20010 ATTN: Shelby LaBare

Customer Sample ID: 8-R
Date Sampled.....: 06/28/2005
Time Sampled.....: 15:05
Sample Matrix.....: Water

Laboratory Sample ID: 249468-12
Date Received.....: 06/28/2005
Time Received.....: 16:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
SM18 2320B	Alkalinity, Total as CaCO3	505			5.00	mg/L	07/14/05	vvm
HACH 8000	Chemical Oxygen Demand (COD)	10.0	U		10.0	mg/L	06/30/05	bg
LAC 10107062D	Nitrogen, Total Kjeldahl as N (TKN)	1.78			1.00	mg/L	07/15/05	vvm

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 249468 Date: 08/02/2005

CUSTOMER: Sterling Environmental Engineering, PC PROJECT: TOWN OF RAMAPO 20010 ATTN: Shelby LaBare

Customer Sample ID: 7-OS
Date Sampled.....: 06/28/2005
Time Sampled.....: 14:03
Sample Matrix.....: Water

Laboratory Sample ID: 249468-13
Date Received.....: 06/28/2005
Time Received.....: 16:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
SM18 2320B	Alkalinity, Total as CaCO3	123			5.00	mg/L	07/14/05	vvm
HACH 8000	Chemical Oxygen Demand (COD)	10.0	U		10.0	mg/L	06/30/05	bg
LAC 10107062D	Nitrogen, Total Kjeldahl as N (TKN)	1.00	U		1.00	mg/L	07/15/05	vvm

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 249468

Date: 08/02/2005

CUSTOMER: Sterling Environmental Engineering, PC PROJECT: TOWN OF RAMAPO 20010 ATTN: Shelby LaBare

Customer Sample ID: 4-OS
Date Sampled.....: 06/28/2005
Time Sampled.....: 15:36
Sample Matrix.....: Water

Laboratory Sample ID: 249468-14
Date Received.....: 06/28/2005
Time Received.....: 16:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
SM18 2320B	Alkalinity, Total as CaCO3	101			5.00	mg/L	07/14/05	vvm
HACH 8000	Chemical Oxygen Demand (COD)	10.0	U		10.0	mg/L	06/30/05	bg
LAC 10107062D	Nitrogen, Total Kjeldahl as N (TKN)	1.00	U		1.00	mg/L	07/15/05	vvm

* In Description = Dry Wgt.

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Sterling Environmental Engineering, PC
Latham, NY
Project: TOWN OF RAMAPO 20010
STL Lab # 249503
Matrix: Water
1 of 1

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07/29/2005

Sterling Environmental Engineering, PC
24 Wade Road
Latham, NY 12110

Attn: Shelby LaBare

SUBJECT: Case Narrative, TOWN OF RAMAPO 20010,
STL Job Number 249503.

Dear Shelby LaBare:

Enclosed are the analytical results for the TOWN OF RAMAPO 20010 project. The samples were received on 06/29/2005. The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. The reports were completed according to contract specific reporting requirements.

Any exceptions to NELAP requirements are noted in the attached case narrative. The case narrative is an integral part of this report.

I certify that this package is in compliance with the terms and conditions of the contract both technically and for completeness, for other than the conditions detailed above. Release has been authorized by the Laboratory Manager or her designee, as verified by the following signature.

STL NEWBURGH

Renee M. Cusack

Renee M. Cusack
Laboratory Manager

Sample Receipt

The temperature of the samples at the time of receipt was 17.5 degrees C.

Volatile Organics

Matrix Spike/Matrix Spike Duplicate

The matrix spike/matrix spike duplicate was performed on another laboratory number that was analyzed at the same time as laboratory number 249503.

Inorganics

ICP

Matrix Spike

The percent spike recovery of iron and silver in spike sample number 5-IMS (249503-01MS) is outside of the established control limits. A post digestion spike was analyzed for iron.

Serial Dilution

The percent difference of sodium in serial dilution sample number 5-IL (249503-01L) falls outside the control limit of 10%. As a result a chemical or physical interference may be suspected and the associated data is qualified with an "E".

Mercury

Matrix Spike/Duplicate

The matrix spike/duplicate was not performed on a sample from laboratory number 249503.

Wet Chemistry

COD

Matrix Spike/Duplicate

The matrix spike/duplicate was not performed on a sample from laboratory number 249503.

TKN

Matrix Spike

The percent spike recovery of TKN in spike sample number 5-IMS (249503-01MS) is outside of the established control limits.

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SAMPLE INFORMATION
Date: 08/05/2005

Job Number.: 249503
Customer...: Sterling Environmental Engineering, PC
Attn.....: Shelby LaBare

Project Number.....: 20001232
Customer Project ID....: TOWN OF RAMAPO 20010
Project Description....: Ramapo LF Annual Sampling

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
249503-1	5-I	Water	06/29/2005	09:17	06/29/2005	13:05
249503-2	2-OS	Water	06/29/2005	10:12	06/29/2005	13:05
249503-3	3-OS/I	Water	06/29/2005	11:50	06/29/2005	13:05
249503-4	1-OS	Water	06/29/2005	12:04	06/29/2005	13:05
249503-5	10	Water	06/29/2005	12:04	06/29/2005	13:05
249503-6	Trip Blank	Trip Blank	06/29/2005	00:00	06/29/2005	13:05

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LABORATORY CHRONICLE

Job Number: 249503 Date: 08/05/2005

CUSTOMER: Sterling Environmental Engineering, PC PROJECT: TOWN OF RAMAPO 20010 ATTN: Shelby LaBare

Lab ID: 249503-1 Client ID: 5-I Date Recvd: 06/29/2005 Sample Date: 06/29/2005

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
EPA 200.7	Acid Digestion,Total Recoverable(ICAP)	1	93104		06/30/2005	1000	
SM18 2320B	Alkalinity	1	93998		07/15/2005	1140	
HACH 8000	Chemical Oxygen Demand (HACH)	1	93471		06/30/2005	1000	
EPA 602	GC Volatile Organics (Aromatics)	1	93430		07/05/2005	0000	
EPA 200.7	Hardness by calculation	1	93974		07/15/2005	1330	
EPA 245.1	Mercury (CVAA)	1	93578		07/08/2005	0029	
EPA 200.7	Metals Analysis (ICAP)	1	93972	93104	07/15/2005	1331	
EPA 200.7	Metals Analysis (ICAP)	1	94080	93104	07/18/2005	1242	
EPA 200.7	Metals Analysis (ICAP)	1	94509	93104	07/25/2005	1952	
EPA 200.8	Metals Analysis (ICP-MS)	1	94485	93104	07/25/2005	1439	
LAC 10107062D	Nitrogen, Total Kjeldahl	1	94617		07/26/2005	0000	
QA Services	Quality Assurance Services	1	93426				
QA Services	Quality Assurance Services	1	94824				
EPA 270.2	Selenium (GFAA)	1	94196		07/15/2005	1355	
EPA 601	Volatile Organics (Halogenated)	1	93429		07/05/2005	0000	

Lab ID: 249503-2 Client ID: 2-OS Date Recvd: 06/29/2005 Sample Date: 06/29/2005

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
EPA 200.7	Acid Digestion,Total Recoverable(ICAP)	1	93104		06/30/2005	1000	
SM18 2320B	Alkalinity	1	93998		07/15/2005	1147	
HACH 8000	Chemical Oxygen Demand (HACH)	1	93471		06/30/2005	1000	
EPA 602	GC Volatile Organics (Aromatics)	1	93430		07/05/2005	0000	
EPA 200.7	Hardness by calculation	1	93974		07/15/2005	1428	
EPA 245.1	Mercury (CVAA)	1	93578		07/08/2005	0039	
EPA 200.7	Metals Analysis (ICAP)	1	93972	93104	07/15/2005	1428	
EPA 200.7	Metals Analysis (ICAP)	1	94080	93104	07/18/2005	1308	
EPA 200.7	Metals Analysis (ICAP)	1	94509	93104	07/25/2005	2013	
EPA 200.8	Metals Analysis (ICP-MS)	1	94485	93104	07/25/2005	1450	
LAC 10107062D	Nitrogen, Total Kjeldahl	1	94617		07/26/2005	0000	
QA Services	Quality Assurance Services	1	93426				
QA Services	Quality Assurance Services	1	94824				
EPA 270.2	Selenium (GFAA)	1	94500		07/25/2005	1847	
EPA 601	Volatile Organics (Halogenated)	1	93429		07/05/2005	0000	

Lab ID: 249503-3 Client ID: 3-OS/I Date Recvd: 06/29/2005 Sample Date: 06/29/2005

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
EPA 200.7	Acid Digestion,Total Recoverable(ICAP)	1	93104		06/30/2005	1000	
SM18 2320B	Alkalinity	1	93998		07/15/2005	1154	
HACH 8000	Chemical Oxygen Demand (HACH)	1	93471		06/30/2005	1000	
EPA 602	GC Volatile Organics (Aromatics)	1	93430		07/05/2005	0000	
EPA 200.7	Hardness by calculation	1	93974		07/15/2005	1433	
EPA 245.1	Mercury (CVAA)	1	93578		07/08/2005	0041	
EPA 200.7	Metals Analysis (ICAP)	1	93972	93104	07/15/2005	1434	
EPA 200.7	Metals Analysis (ICAP)	1	94080	93104	07/18/2005	1313	
EPA 200.7	Metals Analysis (ICAP)	1	94509	93104	07/25/2005	2018	
EPA 200.8	Metals Analysis (ICP-MS)	1	94485	93104	07/25/2005	1452	
LAC 10107062D	Nitrogen, Total Kjeldahl	1	94617		07/26/2005	0000	
QA Services	Quality Assurance Services	1	93426				
QA Services	Quality Assurance Services	1	94824				
EPA 270.2	Selenium (GFAA)	1	94500		07/25/2005	1907	
EPA 601	Volatile Organics (Halogenated)	1	93429		07/05/2005	0000	

Lab ID: 249503-4 Client ID: 1-OS Date Recvd: 06/29/2005 Sample Date: 06/29/2005

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
EPA 200.7	Acid Digestion,Total Recoverable(ICAP)	1	93104		06/30/2005	1000	

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LABORATORY CHRONICLE

Job Number: 249503 Date: 08/05/2005

CUSTOMER: Sterling Environmental Engineering, PC PROJECT: TOWN OF RAMAPO 20010 ATTN: Shelby LaBare

Lab ID: 249503-4 Client ID: 1-OS Date Recvd: 06/29/2005 Sample Date: 06/29/2005

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
SM18 2320B	Alkalinity	1	93998		07/15/2005	1202	
HACH 8000	Chemical Oxygen Demand (HACH)	1	93471		06/30/2005	1000	
EPA 602	GC Volatile Organics (Aromatics)	1	93430		07/05/2005	0000	
EPA 200.7	Hardness by calculation	1	93974		07/15/2005	1439	
EPA 245.1	Mercury (CVAA)	1	93578		07/08/2005	0043	
EPA 200.7	Metals Analysis (ICAP)	1	93972	93104	07/15/2005	1440	
EPA 200.7	Metals Analysis (ICAP)	1	94080	93104	07/18/2005	1334	
EPA 200.7	Metals Analysis (ICAP)	1	94509	93104	07/25/2005	2023	
EPA 200.8	Metals Analysis (ICP-MS)	1	94485	93104	07/25/2005	1453	
LAC 10107062D	Nitrogen, Total Kjeldahl	1	94617		07/26/2005	0000	
QA Services	Quality Assurance Services	1	93426				
QA Services	Quality Assurance Services	1	94824				
EPA 270.2	Selenium (GFAA)	1	94500		07/25/2005	1917	
EPA 601	Volatile Organics (Halogenated)	1	93429		07/05/2005	0000	

Lab ID: 249503-5 Client ID: 10 Date Recvd: 06/29/2005 Sample Date: 06/29/2005

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
EPA 200.7	Acid Digestion,Total Recoverable(ICAP)	1	93104		06/30/2005	1000	
SM18 2320B	Alkalinity	1	93998		07/15/2005	1209	
HACH 8000	Chemical Oxygen Demand (HACH)	1	93471		06/30/2005	1000	
EPA 602	GC Volatile Organics (Aromatics)	1	93430		07/05/2005	0000	
EPA 200.7	Hardness by calculation	1	93974		07/15/2005	1445	
EPA 245.1	Mercury (CVAA)	1	93578		07/08/2005	0046	
EPA 200.7	Metals Analysis (ICAP)	1	93972	93104	07/15/2005	1446	
EPA 200.7	Metals Analysis (ICAP)	1	94080	93104	07/18/2005	1339	
EPA 200.7	Metals Analysis (ICAP)	1	94509	93104	07/25/2005	2029	
EPA 200.8	Metals Analysis (ICP-MS)	1	94485	93104	07/25/2005	1455	
LAC 10107062D	Nitrogen, Total Kjeldahl	1	94617		07/26/2005	0000	
QA Services	Quality Assurance Services	1	93426				
QA Services	Quality Assurance Services	1	94824				
EPA 270.2	Selenium (GFAA)	1	94500		07/25/2005	1927	
EPA 601	Volatile Organics (Halogenated)	1	93429		07/05/2005	0000	

Lab ID: 249503-6 Client ID: Trip Blank Date Recvd: 06/29/2005 Sample Date: 06/29/2005

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
EPA 602	GC Volatile Organics (Aromatics)	1	93430		07/06/2005	0000	
QA Services	Quality Assurance Services	1	93426				
EPA 601	Volatile Organics (Halogenated)	1	93429		07/06/2005	0000	

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THE ANALYTICAL METHODS MAY UTILIZE ONE OR MORE OF THE FOLLOWING REFERENCES:

"Methods for Chemical Analysis of Water and Wastewater", EPA-600/4-79-020, March 1983.

"Test Methods for Evaluating Solid Waste", USEPA-SW846, Third Edition, September 1986 with all current revisions.

Federal Register, V.50 No.3, January 4, 1985.

Federal Register, V.49, No. 209, October 26, 1984.

"Methods for the Determination of Organic Compounds in Drinking Water EPA/600/4-88/039, December 1988.

Volatile Organic Compounds in Water by Purge and Trap Capillary Column Gas Chromatography With Photoionization and Electrolytic Conductivity Detectors in Series, EMSL, Cincinnati, Ohio, 45268, Revision 2.0(1989).

EPA Method for the Determination of Gasoline Range Organics, Draft, REV. 5, 2/5/92.

"New York State Department of Environmental Conservation Analytical Services Protocol, Vol. I , October 1995.

USEPA CLP SOW for Organics Analysis Low Concentration Water

USEPA CLP SOW for Organics Analysis Multi-Media, Multi-Concentration

THE ANALYTICAL METHODS MAY UTILIZE ONE OR MORE OF THE FOLLOWING REFERENCES:

"Methods for Chemical Analysis of Water and Wastewater", EPA-600/4-79-020, March 1983

"Standard Methods for the Examination of Water and Wastewater", 18th Edition, 1992

Atomic Absorption - Furnace Technique

"Test Methods for Evaluating Solid Waste",USEPA-SW846, Third Edition, September 1986 with all current revisions.

"Standard Methods for the Examination of Water and Wastewater", 17th Edition, 1989.

HACH8000 1979 Handbook

"New York State Department of Environmental Conservation Analytical Services Protocol, Vol.2, October 1995.

"Determination of Cyanide" (Macro Distillation Method in Waters), QUIK CHEM Method 10-204-00-1-A, Karin Wendt, Revised June 6, 1996, Lachat Instruments, Milwaukee, Wi. 53218

"Determination of Nitrate/Nitrite in Surface and Wastewaters by Flow Injection Analysis", QUICK CHEM Method 10-107041A, Karin Wendt, Revised June 24, 1997, Zellweger Analytics, Milwaukee, Wi. 53218

"Determination of Total Recoverable Phenols by Flow Injection Analysis Colorimetry", QUIK CHEM Method 10-210-00-1-A, Ninglan Liao, Revised August 6, 1996, Lachat Instruments, Milwaukee, Wi. 53218.

"Determination of Nitrogen, Total Kjeldahl by Flow Injection Analysis Colorimetry" QUIK CHEM Method 10-107-06-2-D, Kevin Switala, Revised October 7, 1997, Lachat Instruments, Milwaukee, Wi 53218.

Enterolert - (Idexx)

"American Society for Testing and Materials."

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CHAIN OF CUSTODY

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STL Newburgh

CUSTOMER NAME: Sterling Environmental Eng.
ADDRESS: 24 Wade Road
CITY, STATE, ZIP: Latham NY 12110
NAME OF CONTACT: Shelby LaBare PHONE NO.: 518-456-4900
PROJECT LOCATION: Town of Ramapo
PROJECT NUMBER / PO NO.: 20010

REPORT TYPE
STANDARD ☐ ISRA ☐
NJ REG ☐
NYASP A ☐ B ☐ CLP ☐
OTHER ____

TURNAROUND
☒ NORMAL ____
☐ QUICK ____
☐ VERBAL ____

REPORT # (Lab Use Only)
249503

SAMPLE TEMP. 17.5 C
SAMPLE REC'D ON ICE Y ✓ N ____
pH CHECK Y ✓ N ____
CHLORINE (RESIDUAL) Y ____ N ____
REVIEWED BY: ____

NY PUBLIC WATER SUPPLIES
SOURCE ID ____
ELRP TYPE ____
FEDERAL ID ____

Matrix
DW = DRINKING WATER S = SOIL O = OIL
WW = WASTE WATER SL = SLUDGE GW = GROUND WATER

NOTE: SAMPLE TEMPERATURE UPON RECEIPT MUST BE 4° ± 2°C.

STL #	SAMPLING DATE	SAMPLING TIME AM PM	COMP	GRAB	MATRIX	CLIENT I.D.	Total Number of Containers	40ml Glass HCL	Liter Amber HCL	250ml Amber Sulfuric	Liter Amber Organic Washed	250ml Plastic Nitric Acid	250ml Plastic Sodium Hydroxide	Liter Plastic	Liter Plastic Sulfuric Acid	250ml Plastic	125ml Plastic Sterile	8 oz. Soil	2 oz. Qorpak	250ml Plastic NaOH / ZN ACC
1	6/29	9:17		X	GW	5-I	6	3				1			1	1				
2	↓	10:12		X	↓	2-OS	↓	↓				↓			↓	↓				
3		11:50		X		3-OS/I														
4		12:01		X		1-OS														
5	↓	12:04		X	↓	10	↓	↓				↓			↓	↓				

ANALYSIS REQUESTED

TKN
COD
Alkalinity
Hardness as $CaCO_3$
Site Related Volatiles:
→ 1,1-Dichloroethane
→ Vinyl Chloride
→ Benzene
→ Chlorobenzene
TAL Metals
* Antimony by method 200.8 detection of 0.3ppb

SAMPLES SUBMITTED FOR ANALYSIS WILL BE SUBJECTED TO THE STL TERMS AND CONDITIONS OF SALE (SHORT FORM) UNLESS ALTERNATE TERMS ARE AGREED IN WRITING.

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
SAMPLED BY Shelby LaBare	COMPANY Sterling	DATE 6/29/05	TIME 1:05	RECEIVED BY	COMPANY	DATE	TIME
RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY STL	DATE 6/29/05	TIME 1305

COMMENTS ____

DATA REPORTING QUALIFIERS

Data qualifiers are used in the analytical report for organics and inorganics. The qualifiers are equivalent to those used by the USEPA in its Contract Laboratory Program.

ORGANIC QUALIFIERS

U - Indicates that the compound was analyzed for but not detected. The sample detection limit is corrected for dilution and percent moisture. This detection limit is not necessarily the instrument detection limit.

J - Indicates an estimated value. This qualifier is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicates the presence of a compound that meets the identification criteria and the result is less than the specified detection limit but greater than zero.

B - Indicates that the analyte was found in both the sample and its associated laboratory blank. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

C - This qualifier applies to pesticide parameters where the identification has been confirmed by gas chromatography/mass spectrometry.

E - This qualifier indicates compounds whose concentrations exceed the calibration range of the instrument for the specific analysis.

D - Indicates all compounds identified in an analysis at a secondary dilution factor.

DL - This suffix indicates a diluted sample and is appended to the sample number on the result form.

N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the N code is not used.

P - This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentration between the two GC columns (see Form X). The lower of the two values is reported on Form I and flagged with an "P".

A - This flag indicates that a TIC is a suspected aldol-condensation product.

RE - This suffix indicates a re-analyzed sample and is appended to the sample number on the result form.

DATA REPORTING QUALIFIERS

RR - This suffix indicates a re-extracted and re-analyzed sample and is appended to the sample number on the result form.

INORGANICS

Concentration Qualifiers (C)

U - Indicates that the analyte was analyzed for but not detected.

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

Quality Qualifiers (Q)

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

M - Duplicate injection precision not met.

N - Spiked sample recovery not within control limits.

S - The reported value was determined by the Method of Standard Additions (MSA).

W - Post digestion spike for furnace AA analysis is out of control limits (85-115%), while sample absorbance is less than 50% of spike absorbance.

* - Duplicate analysis not within control limits.

+ - Correlation coefficient for the MSA is less than 0.995.

Method Qualifiers (M)

P - for ICP.
A - for Flame AA.
F - for Furnace AA.
PM - for ICP when Microwave Digestion is used.
AM - for Flame AA when Microwave Digestion is used.
FM - for Furnace AA when Microwave Digestion is used.
CV - for Manual Cold Vapor AA.
AV - for Automated Cold Vapor AA.
AS - for Semi-Automated Spectrophotometric
C - for Manual Spectrophotometric
T - for Titrimetric.
NR - if the analyte is not required to be analyzed.

Volatile Data
Sample Data

LABORATORY TEST RESULTS

Job Number: 249503

Date: 08/03/2005

CUSTOMER: Sterling Environmental Engineering, PC PROJECT: TOWN OF RAMAPO 20010 ATTN: Shelby LaBare

Customer Sample ID: 5-I
Date Sampled.....: 06/29/2005
Time Sampled.....: 09:17
Sample Matrix.....: Water

Laboratory Sample ID: 249503-1
Date Received.....: 06/29/2005
Time Received.....: 13:05

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
EPA 602	GC Volatile Organics (Aromatics)							
	Benzene	1.0	U		1.0	ug/L	07/05/05	ems
	Chlorobenzene	1.0	U		1.0	ug/L	07/05/05	ems
EPA 601	Volatile Organics (Halogenated)							
	1,1-Dichloroethane	1.0	U		1.0	ug/L	07/05/05	ems
	Vinyl chloride	1.0	U		1.0	ug/L	07/05/05	ems

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 249503 Date: 08/03/2005

CUSTOMER: Sterling Environmental Engineering, PC PROJECT: TOWN OF RAMAPO 20010 ATTN: Shelby LaBarre

Customer Sample ID: 2-OS
Date Sampled.....: 06/29/2005
Time Sampled.....: 10:12
Sample Matrix.....: Water

Laboratory Sample ID: 249503-2
Date Received.....: 06/29/2005
Time Received.....: 13:05

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
EPA 602	GC Volatile Organics (Aromatics)							
	Benzene	1.0	U		1.0	ug/L	07/05/05	ems
	Chlorobenzene	1.0	U		1.0	ug/L	07/05/05	ems
EPA 601	Volatile Organics (Halogenated)							
	1,1-Dichloroethane	1.0	U		1.0	ug/L	07/05/05	ems
	Vinyl chloride	1.0	U		1.0	ug/L	07/05/05	ems

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 249503

Date: 08/03/2005

CUSTOMER: Sterling Environmental Engineering, PC PROJECT: TOWN OF RAMAPO 20010 ATTN: Shelby LaBare

Customer Sample ID: 3-OS/I
Date Sampled.....: 06/29/2005
Time Sampled.....: 11:50
Sample Matrix.....: Water

Laboratory Sample ID: 249503-3
Date Received.....: 06/29/2005
Time Received.....: 13:05

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
EPA 602	GC Volatile Organics (Aromatics)							
	Benzene	1.0	U		1.0	ug/L	07/05/05	ems
	Chlorobenzene	1.0	U		1.0	ug/L	07/05/05	ems
EPA 601	Volatile Organics (Halogenated)							
	1,1-Dichloroethane	1.0	U		1.0	ug/L	07/05/05	ems
	Vinyl chloride	1.0	U		1.0	ug/L	07/05/05	ems

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 249503 Date: 08/03/2005

CUSTOMER: Sterling Environmental Engineering, PC PROJECT: TOWN OF RAMAPO 20010 ATTN: Shelby LaBare

Customer Sample ID: 1-OS
Date Sampled.....: 06/29/2005
Time Sampled.....: 12:04
Sample Matrix.....: Water

Laboratory Sample ID: 249503-4
Date Received.....: 06/29/2005
Time Received.....: 13:05

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
EPA 602	GC Volatile Organics (Aromatics)							
	Benzene	1.0	U		1.0	ug/L	07/05/05	ems
	Chlorobenzene	1.0	U		1.0	ug/L	07/05/05	ems
EPA 601	Volatile Organics (Halogenated)							
	1,1-Dichloroethane	1.0	U		1.0	ug/L	07/05/05	ems
	Vinyl chloride	1.0	U		1.0	ug/L	07/05/05	ems

* In Description = Dry Wgt.

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

LABORATORY TEST RESULTS

Job Number: 249503 Date: 08/03/2005

CUSTOMER: Sterling Environmental Engineering, PC PROJECT: TOWN OF RAMAPO 20010 ATTN: Shelby LaBare

Customer Sample ID: 10
Date Sampled.....: 06/29/2005
Time Sampled.....: 12:04
Sample Matrix.....: Water

Laboratory Sample ID: 249503-5
Date Received.....: 06/29/2005
Time Received.....: 13:05

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
EPA 602	GC Volatile Organics (Aromatics)							
	Benzene	1.0	U		1.0	ug/L	07/05/05	ems
	Chlorobenzene	1.0	U		1.0	ug/L	07/05/05	ems
EPA 601	Volatile Organics (Halogenated)							
	1,1-Dichloroethane	1.0	U		1.0	ug/L	07/05/05	ems
	Vinyl chloride	1.0	U		1.0	ug/L	07/05/05	ems

* In Description = Dry Wgt.

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

LABORATORY TEST RESULTS

Job Number: 249503 Date: 08/03/2005

CUSTOMER: Sterling Environmental Engineering, PC PROJECT: TOWN OF RAMAPO 20010 ATTN: Shelby LaBare

Customer Sample ID: Trip Blank
Date Sampled.....: 06/29/2005
Time Sampled.....: 00:00
Sample Matrix.....: Trip Blank

Laboratory Sample ID: 249503-6
Date Received.....: 06/29/2005
Time Received.....: 13:05

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
EPA 602	GC Volatile Organics (Aromatics)							
	Benzene	1.0	U		1.0	ug/L	07/06/05	ems
	Chlorobenzene	1.0	U		1.0	ug/L	07/06/05	ems
EPA 601	Volatile Organics (Halogenated)							
	1,1-Dichloroethane	1.0	U		1.0	ug/L	07/06/05	ems
	Vinyl chloride	1.0	U		1.0	ug/L	07/06/05	ems

* In Description = Dry Wgt.

STL Newburgh is a part of Severn Trent Laboratories, Inc

SEVERN TRENT STL

NYSDOH 10142 NJDEP 73015 CTDOHS PH-0554 EPA NY049 PA 68-378 M-NY049

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

Inorganic Data
Sample Data

LABORATORY TEST RESULTS

Job Number: 249503

Date:08/05/2005

CUSTOMER: Sterling Environmental Engineering, PC

PROJECT: TOWN OF RAMAPO 20010

ATTN: Shelby LaBare

Customer Sample ID: 5-1
Date Sampled.....: 06/29/2005
Time Sampled.....: 09:17
Sample Matrix.....: Water

Laboratory Sample ID: 249503-1
Date Received.....: 06/29/2005
Time Received.....: 13:05

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	IDL	RL	DILUTION	UNITS	BATCH	DT	DATE	TECH
EPA 270.2	Selenium (Se)	1.6	U	W	1.6	5.0	1	ug/L	94196		07/15/05	mwr
EPA 245.1	Mercury (Hg)	0.16	U		0.16	0.20	1	ug/L	93578		07/08/05	lms
EPA 200.7	Hardness by calculation Hardness, Total as CaCO3	49.3				2.50	1	mg/L	93974		07/15/05	mad
EPA 200.7	Metals Analysis (ICAP)											
	Aluminum (Al)	247			10.4	200	1	ug/L	93972		07/15/05	mad
	Arsenic (As)	3.1	U		3.1	10.0	1	ug/L	93972		07/15/05	mad
	Barium (Ba)	8.6	B		7.1	200	1	ug/L	93972		07/15/05	mad
	Beryllium (Be)	0.40	U		0.40	5.0	1	ug/L	93972		07/15/05	mad
	Cadmium (Cd)	0.80	U		0.80	5.0	1	ug/L	93972		07/15/05	mad
	Calcium (Ca)	12300			58.0	5000	1	ug/L	93972		07/15/05	mad
	Chromium (Cr)	5.6	B		0.90	10.0	1	ug/L	93972		07/15/05	mad
	Cobalt (Co)	1.9	U		1.9	50.0	1	ug/L	93972		07/15/05	mad
	Copper (Cu)	2.9	B		1.2	25.0	1	ug/L	93972		07/15/05	mad
	Iron (Fe)	124		N	17.6	100	1	ug/L	94509		07/25/05	mad
	Lead (Pb)	1.9	U		1.9	3.0	1	ug/L	93972		07/15/05	mad
	Magnesium (Mg)	4510			16.6	5000	1	ug/L	93972		07/15/05	mad
	Manganese (Mn)	13.6			2.1	10.0	1	ug/L	93972		07/15/05	mad
	Nickel (Ni)	2.3	U		2.3	40.0	1	ug/L	93972		07/15/05	mad
	Potassium (K)	799	B		38.6	5000	1	ug/L	93972		07/15/05	mad
	Sodium (Na)	2880	B	E	10.6	5000	1	ug/L	93972		07/15/05	mad
	Silver (Ag)	1.1	U	N	1.1	10.0	1	ug/L	94080		07/18/05	mad
	Thallium (Tl)	5.1	B		2.9	10.0	1	ug/L	93972		07/15/05	mad
	Vanadium (V)	3.9	B		2.0	50.0	1	ug/L	93972		07/15/05	mad
	Zinc (Zn)	5.9	B		2.5	20.0	1	ug/L	93972		07/15/05	mad

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 249503

Date:08/05/2005

CUSTOMER: Sterling Environmental Engineering, PC

PROJECT: TOWN OF RAMAPO 20010

ATTN: Shelby LaBare

Customer Sample ID: 5-I
Date Sampled.....: 06/29/2005
Time Sampled.....: 09:17
Sample Matrix.....: Water

Laboratory Sample ID: 249503-1
Date Received.....: 06/29/2005
Time Received.....: 13:05

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	IDL	RL	DILUTION	UNITS	BATCH	DT	DATE	TECH
EPA 200.8	Metals Analysis (ICP-MS) Antimony (Sb)	0.12	U		0.12	0.30	1	ug/L	94485		07/25/05	mad

20 of 33

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 249503

Date:08/05/2005

CUSTOMER: Sterling Environmental Engineering, PC

PROJECT: TOWN OF RAMAPO 20010

ATTN: Shelby LaBare

Customer Sample ID: 2-OS
Date Sampled.....: 06/29/2005
Time Sampled.....: 10:12
Sample Matrix.....: Water

Laboratory Sample ID: 249503-2
Date Received.....: 06/29/2005
Time Received.....: 13:05

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	IDL	RL	DILUTION	UNITS	BATCH	DT	DATE	TECH
EPA 270.2	Selenium (Se)	6.9		W	1.6	5.0	1	ug/L	94500		07/25/05	rmc
EPA 245.1	Mercury (Hg)	0.16	U		0.16	0.20	1	ug/L	93578		07/08/05	lms
EPA 200.7	Hardness by calculation Hardness, Total as CaCO3	259				2.50	1	mg/L	93974		07/15/05	mad
EPA 200.7	Metals Analysis (ICAP)											
	Aluminum (Al)	1190			10.4	200	1	ug/L	93972		07/15/05	mad
	Arsenic (As)	4.0	B		3.1	10.0	1	ug/L	93972		07/15/05	mad
	Barium (Ba)	51.4	B		7.1	200	1	ug/L	93972		07/15/05	mad
	Beryllium (Be)	0.40	U		0.40	5.0	1	ug/L	93972		07/15/05	mad
	Cadmium (Cd)	0.80	U		0.80	5.0	1	ug/L	93972		07/15/05	mad
	Calcium (Ca)	78200			58.0	5000	1	ug/L	93972		07/15/05	mad
	Chromium (Cr)	101			0.90	10.0	1	ug/L	93972		07/15/05	mad
	Cobalt (Co)	12.4	B		1.9	50.0	1	ug/L	93972		07/15/05	mad
	Copper (Cu)	15.9	B		1.2	25.0	1	ug/L	93972		07/15/05	mad
	Iron (Fe)	144		N	17.6	100	1	ug/L	94509		07/25/05	mad
	Lead (Pb)	7.6			1.9	3.0	1	ug/L	93972		07/15/05	mad
	Magnesium (Mg)	15600			16.6	5000	1	ug/L	93972		07/15/05	mad
	Manganese (Mn)	778			2.1	10.0	1	ug/L	93972		07/15/05	mad
	Nickel (Ni)	52.1			2.3	40.0	1	ug/L	93972		07/15/05	mad
	Potassium (K)	1870	B		38.6	5000	1	ug/L	93972		07/15/05	mad
	Sodium (Na)	8680		E	10.6	5000	1	ug/L	93972		07/15/05	mad
	Silver (Ag)	1.9	B	N	1.1	10.0	1	ug/L	94080		07/18/05	mad
	Thallium (Tl)	5.3	B		2.9	10.0	1	ug/L	93972		07/15/05	mad
	Vanadium (V)	2.3	B		2.0	50.0	1	ug/L	93972		07/15/05	mad
	Zinc (Zn)	31.8			2.5	20.0	1	ug/L	93972		07/15/05	mad

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 249503

Date:08/05/2005

CUSTOMER: Sterling Environmental Engineering, PC

PROJECT: TOWN OF RAMAPO 20010

ATTN: Shelby LaBare

Customer Sample ID: 2-OS
Date Sampled.....: 06/29/2005
Time Sampled.....: 10:12
Sample Matrix.....: Water

Laboratory Sample ID: 249503-2
Date Received.....: 06/29/2005
Time Received.....: 13:05

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	IDL	RL	DILUTION	UNITS	BATCH	DT	DATE	TECH
EPA 200.8	Metals Analysis (ICP-MS) Antimony (Sb)	0.12	U		0.12	0.30	1	ug/L	94485		07/25/05	mad

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 249503

Date:08/05/2005

CUSTOMER: Sterling Environmental Engineering, PC

PROJECT: TOWN OF RAMAPO 20010

ATTN: Shelby LaBare

Customer Sample ID: 3-OS/I
Date Sampled.....: 06/29/2005
Time Sampled.....: 11:50
Sample Matrix.....: Water

Laboratory Sample ID: 249503-3
Date Received.....: 06/29/2005
Time Received.....: 13:05

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	IDL	RL	DILUTION	UNITS	BATCH	DT	DATE	TECH
EPA 270.2	Selenium (Se)	1.6	U		1.6	5.0	1	ug/L	94500		07/25/05	rmc
EPA 245.1	Mercury (Hg)	0.16	U		0.16	0.20	1	ug/L	93578		07/08/05	lms
EPA 200.7	Hardness by calculation Hardness, Total as CaCO3	255				2.50	1	mg/L	93974		07/15/05	mad
EPA 200.7	Metals Analysis (ICAP)											
	Aluminum (Al)	10.4	U		10.4	200	1	ug/L	93972		07/15/05	mad
	Arsenic (As)	3.1	U		3.1	10.0	1	ug/L	93972		07/15/05	mad
	Barium (Ba)	122	B		7.1	200	1	ug/L	93972		07/15/05	mad
	Beryllium (Be)	0.40	U		0.40	5.0	1	ug/L	93972		07/15/05	mad
	Cadmium (Cd)	1.6	B		0.80	5.0	1	ug/L	93972		07/15/05	mad
	Calcium (Ca)	84300			58.0	5000	1	ug/L	93972		07/15/05	mad
	Chromium (Cr)	2020			0.90	10.0	1	ug/L	93972		07/15/05	mad
	Cobalt (Co)	9.3	B		1.9	50.0	1	ug/L	93972		07/15/05	mad
	Copper (Cu)	51.8			1.2	25.0	1	ug/L	93972		07/15/05	mad
	Iron (Fe)	60500		N	17.6	100	1	ug/L	94509		07/25/05	mad
	Lead (Pb)	3.1			1.9	3.0	1	ug/L	93972		07/15/05	mad
	Magnesium (Mg)	10700			16.6	5000	1	ug/L	93972		07/15/05	mad
	Manganese (Mn)	6450			2.1	10.0	1	ug/L	93972		07/15/05	mad
	Nickel (Ni)	1460			2.3	40.0	1	ug/L	93972		07/15/05	mad
	Potassium (K)	4010	B		38.6	5000	1	ug/L	93972		07/15/05	mad
	Sodium (Na)	29100		E	10.6	5000	1	ug/L	93972		07/15/05	mad
	Silver (Ag)	23.3		N	1.1	10.0	1	ug/L	94080		07/18/05	mad
	Thallium (Tl)	12.7			2.9	10.0	1	ug/L	93972		07/15/05	mad
	Vanadium (V)	2.0	U		2.0	50.0	1	ug/L	93972		07/15/05	mad
	Zinc (Zn)	35.7			2.5	20.0	1	ug/L	93972		07/15/05	mad

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 249503

Date:08/05/2005

CUSTOMER: Sterling Environmental Engineering, PC

PROJECT: TOWN OF RAMAPO 20010

ATTN: Shelby LaBare

Customer Sample ID: 3-OS/I
Date Sampled.....: 06/29/2005
Time Sampled.....: 11:50
Sample Matrix.....: Water

Laboratory Sample ID: 249503-3
Date Received.....: 06/29/2005
Time Received.....: 13:05

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	IDL	RL	DILUTION	UNITS	BATCH	DT	DATE	TECH
EPA 200.8	Metals Analysis (ICP-MS) Antimony (Sb)	0.12	U		0.12	0.30	1	ug/L	94485		07/25/05	mad

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 249503

Date:08/05/2005

CUSTOMER: Sterling Environmental Engineering, PC

PROJECT: TOWN OF RAMAPO 20010

ATTN: Shelby LaBare

Customer Sample ID: 1-OS
Date Sampled.....: 06/29/2005
Time Sampled.....: 12:04
Sample Matrix.....: Water

Laboratory Sample ID: 249503-4
Date Received.....: 06/29/2005
Time Received.....: 13:05

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	IDL	RL	DILUTION	UNITS	BATCH	DT	DATE	TECH
EPA 270.2	Selenium (Se)	1.6	U		1.6	5.0	1	ug/L	94500		07/25/05	rmc
EPA 245.1	Mercury (Hg)	0.16	U		0.16	0.20	1	ug/L	93578		07/08/05	lms
EPA 200.7	Hardness by calculation Hardness, Total as CaCO3	230				2.50	1	mg/L	93974		07/15/05	mad
EPA 200.7	Metals Analysis (ICAP)											
	Aluminum (Al)	557			10.4	200	1	ug/L	93972		07/15/05	mad
	Arsenic (As)	5.9	B		3.1	10.0	1	ug/L	93972		07/15/05	mad
	Barium (Ba)	110	B		7.1	200	1	ug/L	93972		07/15/05	mad
	Beryllium (Be)	0.40	U		0.40	5.0	1	ug/L	93972		07/15/05	mad
	Cadmium (Cd)	0.80	U		0.80	5.0	1	ug/L	93972		07/15/05	mad
	Calcium (Ca)	69400			58.0	5000	1	ug/L	93972		07/15/05	mad
	Chromium (Cr)	31.4			0.90	10.0	1	ug/L	93972		07/15/05	mad
	Cobalt (Co)	7.5	B		1.9	50.0	1	ug/L	93972		07/15/05	mad
	Copper (Cu)	25.9			1.2	25.0	1	ug/L	93972		07/15/05	mad
	Iron (Fe)	486		N	17.6	100	1	ug/L	94509		07/25/05	mad
	Lead (Pb)	5.0			1.9	3.0	1	ug/L	93972		07/15/05	mad
	Magnesium (Mg)	13700			16.6	5000	1	ug/L	93972		07/15/05	mad
	Manganese (Mn)	4440			2.1	10.0	1	ug/L	93972		07/15/05	mad
	Nickel (Ni)	7.9	B		2.3	40.0	1	ug/L	93972		07/15/05	mad
	Potassium (K)	2540	B		38.6	5000	1	ug/L	93972		07/15/05	mad
	Sodium (Na)	35600		E	10.6	5000	1	ug/L	93972		07/15/05	mad
	Silver (Ag)	2.7	B	N	1.1	10.0	1	ug/L	94080		07/18/05	mad
	Thallium (Tl)	10.4			2.9	10.0	1	ug/L	93972		07/15/05	mad
	Vanadium (V)	2.0	U		2.0	50.0	1	ug/L	93972		07/15/05	mad
	Zinc (Zn)	26.2			2.5	20.0	1	ug/L	93972		07/15/05	mad

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 249503

Date:08/05/2005

CUSTOMER: Sterling Environmental Engineering, PC

PROJECT: TOWN OF RAMAPO 20010

ATTN: Shelby LaBare

Customer Sample ID: 1-OS
Date Sampled.....: 06/29/2005
Time Sampled.....: 12:04
Sample Matrix.....: Water

Laboratory Sample ID: 249503-4
Date Received.....: 06/29/2005
Time Received.....: 13:05

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	IDL	RL	DILUTION	UNITS	BATCH	DT	DATE	TECH
EPA 200.8	Metals Analysis (ICP-MS) Antimony (Sb)	0.12	U		0.12	0.30	1	ug/L	94485		07/25/05	mad

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 249503

Date:08/05/2005

CUSTOMER: Sterling Environmental Engineering, PC

PROJECT: TOWN OF RAMAPO 20010

ATTN: Shelby LaBare

Customer Sample ID: 10
Date Sampled.....: 06/29/2005
Time Sampled.....: 12:04
Sample Matrix.....: Water

Laboratory Sample ID: 249503-5
Date Received.....: 06/29/2005
Time Received.....: 13:05

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	IDL	RL	DILUTION	UNITS	BATCH	DT	DATE	TECH
EPA 270.2	Selenium (Se)	1.6	U		1.6	5.0	1	ug/L	94500		07/25/05	rmc
EPA 245.1	Mercury (Hg)	0.16	U		0.16	0.20	1	ug/L	93578		07/08/05	lms
EPA 200.7	Hardness by calculation Hardness, Total as CaCO3	225				2.50	1	mg/L	93974		07/15/05	mad
EPA 200.7	Metals Analysis (ICAP)											
	Aluminum (Al)	765			10.4	200	1	ug/L	93972		07/15/05	mad
	Arsenic (As)	8.1	B		3.1	10.0	1	ug/L	93972		07/15/05	mad
	Barium (Ba)	93.3	B		7.1	200	1	ug/L	93972		07/15/05	mad
	Beryllium (Be)	0.40	U		0.40	5.0	1	ug/L	93972		07/15/05	mad
	Cadmium (Cd)	0.80	U		0.80	5.0	1	ug/L	93972		07/15/05	mad
	Calcium (Ca)	67500			58.0	5000	1	ug/L	93972		07/15/05	mad
	Chromium (Cr)	21.4			0.90	10.0	1	ug/L	93972		07/15/05	mad
	Cobalt (Co)	9.1	B		1.9	50.0	1	ug/L	93972		07/15/05	mad
	Copper (Cu)	24.3	B		1.2	25.0	1	ug/L	93972		07/15/05	mad
	Iron (Fe)	54200		N	17.6	100	1	ug/L	94509		07/25/05	mad
	Lead (Pb)	5.8			1.9	3.0	1	ug/L	93972		07/15/05	mad
	Magnesium (Mg)	14000			16.6	5000	1	ug/L	93972		07/15/05	mad
	Manganese (Mn)	4720			2.1	10.0	1	ug/L	93972		07/15/05	mad
	Nickel (Ni)	9.2	B		2.3	40.0	1	ug/L	93972		07/15/05	mad
	Potassium (K)	2670	B		38.6	5000	1	ug/L	93972		07/15/05	mad
	Sodium (Na)	37100		E	10.6	5000	1	ug/L	93972		07/15/05	mad
	Silver (Ag)	1.9	B	N	1.1	10.0	1	ug/L	94080		07/18/05	mad
	Thallium (Tl)	10.1			2.9	10.0	1	ug/L	93972		07/15/05	mad
	Vanadium (V)	2.0	U		2.0	50.0	1	ug/L	93972		07/15/05	mad
	Zinc (Zn)	10.1	B		2.5	20.0	1	ug/L	93972		07/15/05	mad

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 249503 Date:08/05/2005

CUSTOMER: Sterling Environmental Engineering, PC PROJECT: TOWN OF RAMAPO 20010 ATTN: Shelby LaBare

Customer Sample ID: 10
Date Sampled.....: 06/29/2005
Time Sampled.....: 12:04
Sample Matrix.....: Water

Laboratory Sample ID: 249503-5
Date Received.....: 06/29/2005
Time Received.....: 13:05

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	IDL	RL	DILUTION	UNITS	BATCH	DT	DATE	TECH
EPA 200.8	Metals Analysis (ICP-MS) Antimony (Sb)	0.12	U		0.12	0.30	1	ug/L	94485		07/25/05	mad

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* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 249503

Date: 08/05/2005

CUSTOMER: Sterling Environmental Engineering, PC PROJECT: TOWN OF RAMAPO 20010 ATTN: Shelby LaBare

Customer Sample ID: 5-I
Date Sampled.....: 06/29/2005
Time Sampled.....: 09:17
Sample Matrix.....: Water

Laboratory Sample ID: 249503-1
Date Received.....: 06/29/2005
Time Received.....: 13:05

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
SM18 2320B	Alkalinity, Total as CaCO3	41.2			5.00	mg/L	07/15/05	vvm
HACH 8000	Chemical Oxygen Demand (COD)	10.0	U		10.0	mg/L	06/30/05	bg
LAC 10107062D	Nitrogen, Total Kjeldahl as N (TKN)	1.25		N	1.00	mg/L	07/26/05	rmc

* In Description = Dry Wgt.

STL Newburgh
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LABORATORY TEST RESULTS

Job Number: 249503 Date: 08/05/2005

CUSTOMER: Sterling Environmental Engineering, PC PROJECT: TOWN OF RAMAPO 20010 ATTN: Shelby LaBare

Customer Sample ID: 2-OS
Date Sampled.....: 06/29/2005
Time Sampled.....: 10:12
Sample Matrix.....: Water

Laboratory Sample ID: 249503-2
Date Received.....: 06/29/2005
Time Received.....: 13:05

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
SM18 2320B	Alkalinity, Total as CaCO3	222			5.00	mg/L	07/15/05	vvm
HACH 8000	Chemical Oxygen Demand (COD)	14.5			10.0	mg/L	06/30/05	bg
LAC 10107062D	Nitrogen, Total Kjeldahl as N (TKN)	1.00	U	N	1.00	mg/L	07/26/05	rmc

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 249503

Date: 08/05/2005

CUSTOMER: Sterling Environmental Engineering, PC PROJECT: TOWN OF RAMAPO 20010 ATTN: Shelby LaBare

Customer Sample ID: 3-OS/I
Date Sampled.....: 06/29/2005
Time Sampled.....: 11:50
Sample Matrix.....: Water

Laboratory Sample ID: 249503-3
Date Received.....: 06/29/2005
Time Received.....: 13:05

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
SM18 2320B	Alkalinity, Total as CaCO3	206			5.00	mg/L	07/15/05	vvm
HACH 8000	Chemical Oxygen Demand (COD)	17.5			10.0	mg/L	06/30/05	bg
LAC 10107062D	Nitrogen, Total Kjeldahl as N (TKN)	1.02		N	1.00	mg/L	07/26/05	rmc

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 249503

Date: 08/05/2005

CUSTOMER: Sterling Environmental Engineering, PC PROJECT: TOWN OF RAMAPO 20010 ATTN: Shelby LaBare

Customer Sample ID: 1-OS
Date Sampled.....: 06/29/2005
Time Sampled.....: 12:04
Sample Matrix.....: Water

Laboratory Sample ID: 249503-4
Date Received.....: 06/29/2005
Time Received.....: 13:05

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
SM18 2320B	Alkalinity, Total as CaCO3	224			5.00	mg/L	07/15/05	vvm
HACH 8000	Chemical Oxygen Demand (COD)	32.3			10.0	mg/L	06/30/05	bg
LAC 10107062D	Nitrogen, Total Kjeldahl as N (TKN)	1.00	U	N	1.00	mg/L	07/26/05	rmc

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 249503

Date: 08/05/2005

CUSTOMER: Sterling Environmental Engineering, PC PROJECT: TOWN OF RAMAPO 20010 ATTN: Shelby LaBare

Customer Sample ID: 10
Date Sampled.....: 06/29/2005
Time Sampled.....: 12:04
Sample Matrix.....: Water

Laboratory Sample ID: 249503-5
Date Received.....: 06/29/2005
Time Received.....: 13:05

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
SM18 2320B	Alkalinity, Total as CaCO3	219			5.00	mg/L	07/15/05	vvm
HACH 8000	Chemical Oxygen Demand (COD)	29.4			10.0	mg/L	06/30/05	bg
LAC 10107062D	Nitrogen, Total Kjeldahl as N (TKN)	1.00	U	N	1.00	mg/L	07/26/05	rmc

* In Description = Dry Wgt.

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Sterling Environmental Engineering, PC
Latham, NY
Project: TOWN OF RAMAPO 20010
STL Lab # 249503
Matrix: Water
1 of 1

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Newburgh, NY 12550

Tel: 845 562 0890 Fax: 845 562 0841
www.stl-inc.com

07/29/2005

Sterling Environmental Engineering, PC
24 Wade Road
Latham, NY 12110

Attn: Shelby LaBare

SUBJECT: Case Narrative, TOWN OF RAMAPO 20010,
STL Job Number 249503.

Dear Shelby LaBare:

Enclosed are the analytical results for the TOWN OF RAMAPO 20010 project. The samples were received on 06/29/2005. The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. The reports were completed according to contract specific reporting requirements.

Any exceptions to NELAP requirements are noted in the attached case narrative. The case narrative is an integral part of this report.

I certify that this package is in compliance with the terms and conditions of the contract both technically and for completeness, for other than the conditions detailed above. Release has been authorized by the Laboratory Manager or her designee, as verified by the following signature.

STL NEWBURGH

Renee M. Cusack

Renee M. Cusack
Laboratory Manager

CASE NARRATIVE
Client: Sterling Environmental
Date: 07/29/05
STL Lab No.: 249503
Page 1 of 2

Sample Receipt

The temperature of the samples at the time of receipt was 17.5 degrees C.

Volatile Organics

Matrix Spike/Matrix Spike Duplicate

The matrix spike/matrix spike duplicate was performed on another laboratory number that was analyzed at the same time as laboratory number 249503.

Inorganics

ICP

Matrix Spike

The percent spike recovery of iron and silver in spike sample number 5-IMS (249503-01MS) is outside of the established control limits. A post digestion spike was analyzed for iron.

Serial Dilution

The percent difference of sodium in serial dilution sample number 5-IL (249503-01L) falls outside the control limit of 10%. As a result a chemical or physical interference may be suspected and the associated data is qualified with an "E".

Mercury

Matrix Spike/Duplicate

The matrix spike/duplicate was not performed on a sample from laboratory number 249503.

Wet Chemistry

COD

Matrix Spike/Duplicate

The matrix spike/duplicate was not performed on a sample from laboratory number 249503.

TKN

Matrix Spike

The percent spike recovery of TKN in spike sample number 5-IMS (249503-01MS) is outside of the established control limits.

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SAMPLE INFORMATION
Date: 08/05/2005

Job Number.: 249503
Customer...: Sterling Environmental Engineering, PC
Attn.....: Shelby LaBare

Project Number.....: 20001232
Customer Project ID....: TOWN OF RAMAPO 20010
Project Description....: Ramapo LF Annual Sampling

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
249503-1	5-I	Water	06/29/2005	09:17	06/29/2005	13:05
249503-2	2-OS	Water	06/29/2005	10:12	06/29/2005	13:05
249503-3	3-OS/I	Water	06/29/2005	11:50	06/29/2005	13:05
249503-4	1-OS	Water	06/29/2005	12:04	06/29/2005	13:05
249503-5	10	Water	06/29/2005	12:04	06/29/2005	13:05
249503-6	Trip Blank	Trip Blank	06/29/2005	00:00	06/29/2005	13:05

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LABORATORY CHRONICLE

Job Number: 249503

Date: 08/05/2005

CUSTOMER: Sterling Environmental Engineering, PC PROJECT: TOWN OF RAMAPO 20010 ATTN: Shelby LaBare

Lab ID: 249503-1 Client ID: 5-I

Date Recvd: 06/29/2005 Sample Date: 06/29/2005

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
EPA 200.7	Acid Digestion,Total Recoverable(ICAP)	1	93104		06/30/2005	1000	
SM18 2320B	Alkalinity	1	93998		07/15/2005	1140	
HACH 8000	Chemical Oxygen Demand (HACH)	1	93471		06/30/2005	1000	
EPA 602	GC Volatile Organics (Aromatics)	1	93430		07/05/2005	0000	
EPA 200.7	Hardness by calculation	1	93974		07/15/2005	1330	
EPA 245.1	Mercury (CVAA)	1	93578		07/08/2005	0029	
EPA 200.7	Metals Analysis (ICAP)	1	93972	93104	07/15/2005	1331	
EPA 200.7	Metals Analysis (ICAP)	1	94080	93104	07/18/2005	1242	
EPA 200.7	Metals Analysis (ICAP)	1	94509	93104	07/25/2005	1952	
EPA 200.8	Metals Analysis (ICP-MS)	1	94485	93104	07/25/2005	1439	
LAC 10107062D	Nitrogen, Total Kjeldahl	1	94617		07/26/2005	0000	
QA Services	Quality Assurance Services	1	93426				
QA Services	Quality Assurance Services	1	94824				
EPA 270.2	Selenium (GFAA)	1	94196		07/15/2005	1355	
EPA 601	Volatile Organics (Halogenated)	1	93429		07/05/2005	0000	

Lab ID: 249503-2 Client ID: 2-OS

Date Recvd: 06/29/2005 Sample Date: 06/29/2005

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
EPA 200.7	Acid Digestion,Total Recoverable(ICAP)	1	93104		06/30/2005	1000	
SM18 2320B	Alkalinity	1	93998		07/15/2005	1147	
HACH 8000	Chemical Oxygen Demand (HACH)	1	93471		06/30/2005	1000	
EPA 602	GC Volatile Organics (Aromatics)	1	93430		07/05/2005	0000	
EPA 200.7	Hardness by calculation	1	93974		07/15/2005	1428	
EPA 245.1	Mercury (CVAA)	1	93578		07/08/2005	0039	
EPA 200.7	Metals Analysis (ICAP)	1	93972	93104	07/15/2005	1428	
EPA 200.7	Metals Analysis (ICAP)	1	94080	93104	07/18/2005	1308	
EPA 200.7	Metals Analysis (ICAP)	1	94509	93104	07/25/2005	2013	
EPA 200.8	Metals Analysis (ICP-MS)	1	94485	93104	07/25/2005	1450	
LAC 10107062D	Nitrogen, Total Kjeldahl	1	94617		07/26/2005	0000	
QA Services	Quality Assurance Services	1	93426				
QA Services	Quality Assurance Services	1	94824				
EPA 270.2	Selenium (GFAA)	1	94500		07/25/2005	1847	
EPA 601	Volatile Organics (Halogenated)	1	93429		07/05/2005	0000	

Lab ID: 249503-3 Client ID: 3-OS/I

Date Recvd: 06/29/2005 Sample Date: 06/29/2005

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
EPA 200.7	Acid Digestion,Total Recoverable(ICAP)	1	93104		06/30/2005	1000	
SM18 2320B	Alkalinity	1	93998		07/15/2005	1154	
HACH 8000	Chemical Oxygen Demand (HACH)	1	93471		06/30/2005	1000	
EPA 602	GC Volatile Organics (Aromatics)	1	93430		07/05/2005	0000	
EPA 200.7	Hardness by calculation	1	93974		07/15/2005	1433	
EPA 245.1	Mercury (CVAA)	1	93578		07/08/2005	0041	
EPA 200.7	Metals Analysis (ICAP)	1	93972	93104	07/15/2005	1434	
EPA 200.7	Metals Analysis (ICAP)	1	94080	93104	07/18/2005	1313	
EPA 200.7	Metals Analysis (ICAP)	1	94509	93104	07/25/2005	2018	
EPA 200.8	Metals Analysis (ICP-MS)	1	94485	93104	07/25/2005	1452	
LAC 10107062D	Nitrogen, Total Kjeldahl	1	94617		07/26/2005	0000	
QA Services	Quality Assurance Services	1	93426				
QA Services	Quality Assurance Services	1	94824				
EPA 270.2	Selenium (GFAA)	1	94500		07/25/2005	1907	
EPA 601	Volatile Organics (Halogenated)	1	93429		07/05/2005	0000	

Lab ID: 249503-4 Client ID: 1-OS

Date Recvd: 06/29/2005 Sample Date: 06/29/2005

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
EPA 200.7	Acid Digestion,Total Recoverable(ICAP)	1	93104		06/30/2005	1000	

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LABORATORY CHRONICLE

Job Number: 249503 Date: 08/05/2005

CUSTOMER: Sterling Environmental Engineering, PC PROJECT: TOWN OF RAMAPO 20010 ATTN: Shelby LaBare

Lab ID: 249503-4 Client ID: 1-OS Date Recvd: 06/29/2005 Sample Date: 06/29/2005

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
SM18 2320B	Alkalinity	1	93998		07/15/2005	1202	
HACH 8000	Chemical Oxygen Demand (HACH)	1	93471		06/30/2005	1000	
EPA 602	GC Volatile Organics (Aromatics)	1	93430		07/05/2005	0000	
EPA 200.7	Hardness by calculation	1	93974		07/15/2005	1439	
EPA 245.1	Mercury (CVAA)	1	93578		07/08/2005	0043	
EPA 200.7	Metals Analysis (ICAP)	1	93972	93104	07/15/2005	1440	
EPA 200.7	Metals Analysis (ICAP)	1	94080	93104	07/18/2005	1334	
EPA 200.7	Metals Analysis (ICAP)	1	94509	93104	07/25/2005	2023	
EPA 200.8	Metals Analysis (ICP-MS)	1	94485	93104	07/25/2005	1453	
LAC 10107062D	Nitrogen, Total Kjeldahl	1	94617		07/26/2005	0000	
QA Services	Quality Assurance Services	1	93426				
QA Services	Quality Assurance Services	1	94824				
EPA 270.2	Selenium (GFAA)	1	94500		07/25/2005	1917	
EPA 601	Volatile Organics (Halogenated)	1	93429		07/05/2005	0000	

Lab ID: 249503-5 Client ID: 10 Date Recvd: 06/29/2005 Sample Date: 06/29/2005

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
EPA 200.7	Acid Digestion,Total Recoverable(ICAP)	1	93104		06/30/2005	1000	
SM18 2320B	Alkalinity	1	93998		07/15/2005	1209	
HACH 8000	Chemical Oxygen Demand (HACH)	1	93471		06/30/2005	1000	
EPA 602	GC Volatile Organics (Aromatics)	1	93430		07/05/2005	0000	
EPA 200.7	Hardness by calculation	1	93974		07/15/2005	1445	
EPA 245.1	Mercury (CVAA)	1	93578		07/08/2005	0046	
EPA 200.7	Metals Analysis (ICAP)	1	93972	93104	07/15/2005	1446	
EPA 200.7	Metals Analysis (ICAP)	1	94080	93104	07/18/2005	1339	
EPA 200.7	Metals Analysis (ICAP)	1	94509	93104	07/25/2005	2029	
EPA 200.8	Metals Analysis (ICP-MS)	1	94485	93104	07/25/2005	1455	
LAC 10107062D	Nitrogen, Total Kjeldahl	1	94617		07/26/2005	0000	
QA Services	Quality Assurance Services	1	93426				
QA Services	Quality Assurance Services	1	94824				
EPA 270.2	Selenium (GFAA)	1	94500		07/25/2005	1927	
EPA 601	Volatile Organics (Halogenated)	1	93429		07/05/2005	0000	

Lab ID: 249503-6 Client ID: Trip Blank Date Recvd: 06/29/2005 Sample Date: 06/29/2005

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
EPA 602	GC Volatile Organics (Aromatics)	1	93430		07/06/2005	0000	
QA Services	Quality Assurance Services	1	93426				
EPA 601	Volatile Organics (Halogenated)	1	93429		07/06/2005	0000	

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THE ANALYTICAL METHODS MAY UTILIZE ONE OR MORE OF THE FOLLOWING REFERENCES:

"Methods for Chemical Analysis of Water and Wastewater", EPA-600/4-79-020, March 1983.

"Test Methods for Evaluating Solid Waste", USEPA-SW846, Third Edition, September 1986 with all current revisions.

Federal Register, V.50 No.3, January 4, 1985.

Federal Register, V.49, No. 209, October 26, 1984.

"Methods for the Determination of Organic Compounds in Drinking Water EPA/600/4-88/039, December 1988.

Volatile Organic Compounds in Water by Purge and Trap Capillary Column Gas Chromatography With Photoionization and Electrolytic Conductivity Detectors in Series, EMSL, Cincinnati, Ohio, 45268, Revision 2.0(1989).

EPA Method for the Determination of Gasoline Range Organics, Draft, REV. 5, 2/5/92.

"New York State Department of Environmental Conservation Analytical Services Protocol, Vol. I , October 1995.

USEPA CLP SOW for Organics Analysis Low Concentration Water

USEPA CLP SOW for Organics Analysis Multi-Media, Multi-Concentration

THE ANALYTICAL METHODS MAY UTILIZE ONE OR MORE OF THE FOLLOWING REFERENCES:

"Methods for Chemical Analysis of Water and Wastewater", EPA-600/4-79-020, March 1983

"Standard Methods for the Examination of Water and Wastewater", 18th Edition, 1992

Atomic Absorption - Furnace Technique

"Test Methods for Evaluating Solid Waste",USEPA-SW846, Third Edition, September 1986 with all current revisions.

"Standard Methods for the Examination of Water and Wastewater", 17th Edition, 1989.

HACH8000 1979 Handbook

"New York State Department of Environmental Conservation Analytical Services Protocol, Vol.2, October 1995.

"Determination of Cyanide" (Macro Distillation Method in Waters), QUIK CHEM Method 10-204-00-1-A, Karin Wendt, Revised June 6, 1996, Lachat Instruments, Milwaukee, Wi. 53218

"Determination of Nitrate/Nitrite in Surface and Wastewaters by Flow Injection Analysis", QUICK CHEM Method 10-107041A, Karin Wendt, Revised June 24, 1997, Zellweger Analytics, Milwaukee, Wi. 53218

"Determination of Total Recoverable Phenols by Flow Injection Analysis Colorimetry", QUIK CHEM Method 10-210-00-1-A, Ninglan Liao, Revised August 6, 1996, Lachat Instruments, Milwaukee, Wi. 53218.

"Determination of Nitrogen, Total Kjeldahl by Flow Injection Analysis Colorimetry" QUIK CHEM Method 10-107-06-2-D, Kevin Switala, Revised October 7, 1997, Lachat Instruments, Milwaukee, Wi 53218.

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"American Society for Testing and Materials."

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CHAIN OF CUSTODY

315 Fullerton Avenue
Newburgh, NY 12550
~~TEL (845) 562-0890~~
FAX (845) 562-0841

CUSTOMER NAME: Sterling Environmental Eng.
ADDRESS: 24 Wade Road
CITY, STATE, ZIP: Latham NY 12110
NAME OF CONTACT: Shelby LaBare PHONE NO.: 518-456-4900
PROJECT LOCATION: Town of Ramapo
PROJECT NUMBER / PO NO.: 20010

NOTE: SAMPLE TEMPERATURE UPON RECEIPT MUST BE 4° ± 2°C.

REPORT TYPE
STANDARD ☐ ISRA ☐
NJ REG ☐
NYASP A ☐ B ☐ CLP ☐
OTHER ____

TURNAROUND
☒ NORMAL ____
☐ QUICK ____
☐ VERBAL ____

REPORT # (Lab Use Only)
249503

SAMPLE TEMP. 17.5 C
SAMPLE REC'D ON ICE Y ✓ N ____
pH CHECK Y ✓ N ____
CHLORINE (RESIDUAL) Y ____ N ____
REVIEWED BY: ____

NY PUBLIC WATER SUPPLIES
SOURCE ID ____
ELRP TYPE ____
FEDERAL ID ____

Matrix
DW = DRINKING WATER S = SOIL O = OIL
WW = WASTE WATER SL = SLUDGE GW = GROUND WATER

STL #	SAMPLING DATE	SAMPLING TIME AM PM	COMP	GRAB	MATRIX	CLIENT I.D.	Total Number of Containers	40ml Glass HCL	Liter Amber HCL	250ml Amber Sulfuric	Liter Amber Organic Washed	250ml Plastic Nitric Acid	250ml Plastic Sodium Hydroxide	Liter Plastic	Liter Plastic Sulfuric Acid	250ml Plastic	125ml Plastic Sterile	8 oz. Soil	2 oz. Clorpak	250ml Plastic NaOH / ZN ACC
1	6/29	9:17	X		GW	5-I	6	3				1			1	1				
2		10:12	X			2-OS														
3		11:50	X			3-OS/I														
4		12:01	X			1-OS														
5		12:04	X			10														

ANALYSIS REQUESTED
TKN
COD
Alkalinity
Hardness as $CaCO_3$
Site Related Volatiles:
→ 1,1-Dichloroethane
→ Vinyl Chloride
→ Benzene
→ Chlorobenzene
TAL Metals
→ Antimony by method 200.8 detection of 0.3ppb

SAMPLES SUBMITTED FOR ANALYSIS WILL BE SUBJECTED TO THE STL TERMS AND CONDITIONS OF SALE (SHORT FORM) UNLESS ALTERNATE TERMS ARE AGREED IN WRITING.

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
SAMPLED BY Shelby LaBare	Sterling	6/29/05	1:05				
RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
					STL	6/29/05	1303

COMMENTS ____

DATA REPORTING QUALIFIERS

Data qualifiers are used in the analytical report for organics and inorganics. The qualifiers are equivalent to those used by the USEPA in its Contract Laboratory Program.

ORGANIC QUALIFIERS

U - Indicates that the compound was analyzed for but not detected. The sample detection limit is corrected for dilution and percent moisture. This detection limit is not necessarily the instrument detection limit.

J - Indicates an estimated value. This qualifier is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicates the presence of a compound that meets the identification criteria and the result is less than the specified detection limit but greater than zero.

B - Indicates that the analyte was found in both the sample and its associated laboratory blank. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

C - This qualifier applies to pesticide parameters where the identification has been confirmed by gas chromatography/mass spectrometry.

E - This qualifier indicates compounds whose concentrations exceed the calibration range of the instrument for the specific analysis.

D - Indicates all compounds identified in an analysis at a secondary dilution factor.

DL - This suffix indicates a diluted sample and is appended to the sample number on the result form.

N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the N code is not used.

P - This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentration between the two GC columns (see Form X). The lower of the two values is reported on Form I and flagged with an "P".

A - This flag indicates that a TIC is a suspected aldol-condensation product.

RE - This suffix indicates a re-analyzed sample and is appended to the sample number on the result form.

RR - This suffix indicates a re-extracted and re-analyzed sample and is appended to the sample number on the result form.

INORGANICS

Concentration Qualifiers (C)

U - Indicates that the analyte was analyzed for but not detected.

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

Quality Qualifiers (Q)

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

M - Duplicate injection precision not met.

N - Spiked sample recovery not within control limits.

S - The reported value was determined by the Method of Standard Additions (MSA).

W - Post digestion spike for furnace AA analysis is out of control limits (85-115%), while sample absorbance is less than 50% of spike absorbance.

* - Duplicate analysis not within control limits.

+ - Correlation coefficient for the MSA is less than 0.995.

Method Qualifiers (M)

P - for ICP.
A - for Flame AA.
F - for Furnace AA.
PM - for ICP when Microwave Digestion is used.
AM - for Flame AA when Microwave Digestion is used.
FM - for Furnace AA when Microwave Digestion is used.
CV - for Manual Cold Vapor AA.
AV - for Automated Cold Vapor AA.
AS - for Semi-Automated Spectrophotometric
C - for Manual Spectrophotometric
T - for Titrimetric.
NR - if the analyte is not required to be analyzed.

Volatile Data
Sample Data

LABORATORY TEST RESULTS

Job Number: 249503

Date: 08/03/2005

CUSTOMER: Sterling Environmental Engineering, PC PROJECT: TOWN OF RAMAPO 20010 ATTN: Shelby LaBare

Customer Sample ID: 5-I
Date Sampled.....: 06/29/2005
Time Sampled.....: 09:17
Sample Matrix.....: Water

Laboratory Sample ID: 249503-1
Date Received.....: 06/29/2005
Time Received.....: 13:05

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
EPA 602	GC Volatile Organics (Aromatics)							
	Benzene	1.0	U		1.0	ug/L	07/05/05	ems
	Chlorobenzene	1.0	U		1.0	ug/L	07/05/05	ems
EPA 601	Volatile Organics (Halogenated)							
	1,1-Dichloroethane	1.0	U		1.0	ug/L	07/05/05	ems
	Vinyl chloride	1.0	U		1.0	ug/L	07/05/05	ems

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 249503 Date: 08/03/2005

CUSTOMER: Sterling Environmental Engineering, PC PROJECT: TOWN OF RAMAPO 20010 ATTN: Shelby LeBare

Customer Sample ID: 2-OS
Date Sampled.....: 06/29/2005
Time Sampled.....: 10:12
Sample Matrix.....: Water

Laboratory Sample ID: 249503-2
Date Received.....: 06/29/2005
Time Received.....: 13:05

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
EPA 602	GC Volatile Organics (Aromatics)							
	Benzene	1.0	U		1.0	ug/L	07/05/05	ems
	Chlorobenzene	1.0	U		1.0	ug/L	07/05/05	ems
EPA 601	Volatile Organics (Halogenated)							
	1,1-Dichloroethane	1.0	U		1.0	ug/L	07/05/05	ems
	Vinyl chloride	1.0	U		1.0	ug/L	07/05/05	ems

* In Description = Dry Wgt.

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

LABORATORY TEST RESULTS

Job Number: 249503

Date: 08/03/2005

CUSTOMER: Sterling Environmental Engineering, PC PROJECT: TOWN OF RAMAPO 20010 ATTN: Shelby LaBare

Customer Sample ID: 3-OS/I
Date Sampled.....: 06/29/2005
Time Sampled.....: 11:50
Sample Matrix.....: Water

Laboratory Sample ID: 249503-3
Date Received.....: 06/29/2005
Time Received.....: 13:05

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
EPA 602	GC Volatile Organics (Aromatics)							
	Benzene	1.0	U		1.0	ug/L	07/05/05	ems
	Chlorobenzene	1.0	U		1.0	ug/L	07/05/05	ems
EPA 601	Volatile Organics (Halogenated)							
	1,1-Dichloroethane	1.0	U		1.0	ug/L	07/05/05	ems
	Vinyl chloride	1.0	U		1.0	ug/L	07/05/05	ems

* In Description = Dry Wgt.

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
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Fax (845) 562-0841

LABORATORY TEST RESULTS

Job Number: 249503 Date: 08/03/2005

CUSTOMER: Sterling Environmental Engineering, PC PROJECT: TOWN OF RAMAPO 20010 ATTN: Shelby LaBare

Customer Sample ID: 1-0S
Date Sampled.....: 06/29/2005
Time Sampled.....: 12:04
Sample Matrix.....: Water

Laboratory Sample ID: 249503-4
Date Received.....: 06/29/2005
Time Received.....: 13:05

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
EPA 602	GC Volatile Organics (Aromatics)							
	Benzene	1.0	U		1.0	ug/L	07/05/05	ems
	Chlorobenzene	1.0	U		1.0	ug/L	07/05/05	ems
EPA 601	Volatile Organics (Halogenated)							
	1,1-Dichloroethane	1.0	U		1.0	ug/L	07/05/05	ems
	Vinyl chloride	1.0	U		1.0	ug/L	07/05/05	ems

* In Description = Dry Wgt.

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

LABORATORY TEST RESULTS

Job Number: 249503

Date: 08/03/2005

CUSTOMER: Sterling Environmental Engineering, PC PROJECT: TOWN OF RAMAPO 20010 ATTN: Shelby LaBare

Customer Sample ID: 10
Date Sampled.....: 06/29/2005
Time Sampled.....: 12:04
Sample Matrix.....: Water

Laboratory Sample ID: 249503-5
Date Received.....: 06/29/2005
Time Received.....: 13:05

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
EPA 602	GC Volatile Organics (Aromatics)							
	Benzene	1.0	U		1.0	ug/L	07/05/05	ems
	Chlorobenzene	1.0	U		1.0	ug/L	07/05/05	ems
EPA 601	Volatile Organics (Halogenated)							
	1,1-Dichloroethane	1.0	U		1.0	ug/L	07/05/05	ems
	Vinyl chloride	1.0	U		1.0	ug/L	07/05/05	ems

* In Description = Dry Wgt.

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

LABORATORY TEST RESULTS

Job Number: 249503 Date: 08/03/2005

CUSTOMER: Sterling Environmental Engineering, PC PROJECT: TOWN OF RAMAPO 20010 ATTN: Shelby LaBare

Customer Sample ID: Trip Blank
Date Sampled.....: 06/29/2005
Time Sampled.....: 00:00
Sample Matrix.....: Trip Blank

Laboratory Sample ID: 249503-6
Date Received.....: 06/29/2005
Time Received.....: 13:05

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
EPA 602	GC Volatile Organics (Aromatics)							
	Benzene	1.0	U		1.0	ug/L	07/06/05	ems
	Chlorobenzene	1.0	U		1.0	ug/L	07/06/05	ems
EPA 601	Volatile Organics (Halogenated)							
	1,1-Dichloroethane	1.0	U		1.0	ug/L	07/06/05	ems
	Vinyl chloride	1.0	U		1.0	ug/L	07/06/05	ems

* In Description = Dry Wgt.

STL Newburgh is a part of Severn Trent Laboratories, Inc

SEVERN TRENT STL

NYSDOH 10142 NJDEP 73015 CTDOHS PH-0554 EPA NY049 PA 68-378 M-NY049

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0890
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Inorganic Data
Sample Data

LABORATORY TEST RESULTS

Job Number: 249503

Date:08/05/2005

CUSTOMER: Sterling Environmental Engineering, PC

PROJECT: TOWN OF RAMAPO 20010

ATTN: Shelby LaBare

Customer Sample ID: 5-I
Date Sampled.....: 06/29/2005
Time Sampled.....: 09:17
Sample Matrix.....: Water

Laboratory Sample ID: 249503-1
Date Received.....: 06/29/2005
Time Received.....: 13:05

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	IDL	RL	DILUTION	UNITS	BATCH	DT	DATE	TECH
EPA 270.2	Selenium (Se)	1.6	U	W	1.6	5.0	1	ug/L	94196		07/15/05	mmr
EPA 245.1	Mercury (Hg)	0.16	U		0.16	0.20	1	ug/L	93578		07/08/05	lms
EPA 200.7	Hardness by calculation Hardness, Total as CaCO3	49.3				2.50	1	mg/L	93974		07/15/05	mad
EPA 200.7	Metals Analysis (ICAP)											
	Aluminum (Al)	247			10.4	200	1	ug/L	93972		07/15/05	mad
	Arsenic (As)	3.1	U		3.1	10.0	1	ug/L	93972		07/15/05	mad
	Barium (Ba)	8.6	B		7.1	200	1	ug/L	93972		07/15/05	mad
	Beryllium (Be)	0.40	U		0.40	5.0	1	ug/L	93972		07/15/05	mad
	Cadmium (Cd)	0.80	U		0.80	5.0	1	ug/L	93972		07/15/05	mad
	Calcium (Ca)	12300			58.0	5000	1	ug/L	93972		07/15/05	mad
	Chromium (Cr)	5.6	B		0.90	10.0	1	ug/L	93972		07/15/05	mad
	Cobalt (Co)	1.9	U		1.9	50.0	1	ug/L	93972		07/15/05	mad
	Copper (Cu)	2.9	B		1.2	25.0	1	ug/L	93972		07/15/05	mad
	Iron (Fe)	124		N	17.6	100	1	ug/L	94509		07/25/05	mad
	Lead (Pb)	1.9	U		1.9	3.0	1	ug/L	93972		07/15/05	mad
	Magnesium (Mg)	4510	B		16.6	5000	1	ug/L	93972		07/15/05	mad
	Manganese (Mn)	13.6			2.1	10.0	1	ug/L	93972		07/15/05	mad
	Nickel (Ni)	2.3	U		2.3	40.0	1	ug/L	93972		07/15/05	mad
	Potassium (K)	799	B		38.6	5000	1	ug/L	93972		07/15/05	mad
	Sodium (Na)	2880	B	E	10.6	5000	1	ug/L	93972		07/15/05	mad
	Silver (Ag)	1.1	U	N	1.1	10.0	1	ug/L	94080		07/18/05	mad
	Thallium (Tl)	5.1	B		2.9	10.0	1	ug/L	93972		07/15/05	mad
	Vanadium (V)	3.9	B		2.0	50.0	1	ug/L	93972		07/15/05	mad
	Zinc (Zn)	5.9	B		2.5	20.0	1	ug/L	93972		07/15/05	mad

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 249503 Date:08/05/2005

CUSTOMER: Sterling Environmental Engineering, PC PROJECT: TOWN OF RAMAPO 20010 ATTN: Shelby LaBare

Customer Sample ID: 5-I
Date Sampled.....: 06/29/2005
Time Sampled.....: 09:17
Sample Matrix.....: Water

Laboratory Sample ID: 249503-1
Date Received.....: 06/29/2005
Time Received.....: 13:05

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	IDL	RL	DILUTION	UNITS	BATCH	DT	DATE	TECH
EPA 200.8	Metals Analysis (ICP-MS) Antimony (Sb)	0.12	U		0.12	0.30	1	ug/L	94485		07/25/05	mad

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* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 249503

Date:08/05/2005

CUSTOMER: Sterling Environmental Engineering, PC

PROJECT: TOWN OF RAMAPO 20010

ATTN: Shelby LaBare

Customer Sample ID: 2-OS
Date Sampled.....: 06/29/2005
Time Sampled.....: 10:12
Sample Matrix.....: Water

Laboratory Sample ID: 249503-2
Date Received.....: 06/29/2005
Time Received.....: 13:05

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	IDL	RL	DILUTION	UNITS	BATCH	DT	DATE	TECH
EPA 270.2	Selenium (Se)	6.9		W	1.6	5.0	1	ug/L	94500		07/25/05	rmc
EPA 245.1	Mercury (Hg)	0.16	U		0.16	0.20	1	ug/L	93578		07/08/05	lms
EPA 200.7	Hardness by calculation Hardness, Total as CaCO3	259				2.50	1	mg/L	93974		07/15/05	mad
EPA 200.7	Metals Analysis (ICAP)											
	Aluminum (Al)	1190			10.4	200	1	ug/L	93972		07/15/05	mad
	Arsenic (As)	4.0	B		3.1	10.0	1	ug/L	93972		07/15/05	mad
	Barium (Ba)	51.4	B		7.1	200	1	ug/L	93972		07/15/05	mad
	Beryllium (Be)	0.40	U		0.40	5.0	1	ug/L	93972		07/15/05	mad
	Cadmium (Cd)	0.80	U		0.80	5.0	1	ug/L	93972		07/15/05	mad
	Calcium (Ca)	78200			58.0	5000	1	ug/L	93972		07/15/05	mad
	Chromium (Cr)	101			0.90	10.0	1	ug/L	93972		07/15/05	mad
	Cobalt (Co)	12.4	B		1.9	50.0	1	ug/L	93972		07/15/05	mad
	Copper (Cu)	15.9	B		1.2	25.0	1	ug/L	93972		07/15/05	mad
	Iron (Fe)	144		N	17.6	100	1	ug/L	94509		07/25/05	mad
	Lead (Pb)	7.6			1.9	3.0	1	ug/L	93972		07/15/05	mad
	Magnesium (Mg)	15600			16.6	5000	1	ug/L	93972		07/15/05	mad
	Manganese (Mn)	778			2.1	10.0	1	ug/L	93972		07/15/05	mad
	Nickel (Ni)	52.1			2.3	40.0	1	ug/L	93972		07/15/05	mad
	Potassium (K)	1870		B	38.6	5000	1	ug/L	93972		07/15/05	mad
	Sodium (Na)	8680		E	10.6	5000	1	ug/L	93972		07/15/05	mad
	Silver (Ag)	1.9	B	N	1.1	10.0	1	ug/L	94080		07/18/05	mad
	Thallium (Tl)	5.3	B		2.9	10.0	1	ug/L	93972		07/15/05	mad
	Vanadium (V)	2.3	B		2.0	50.0	1	ug/L	93972		07/15/05	mad
	Zinc (Zn)	31.8			2.5	20.0	1	ug/L	93972		07/15/05	mad

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 249503

Date:08/05/2005

CUSTOMER: Sterling Environmental Engineering, PC

PROJECT: TOWN OF RAMAPO 20010

ATTN: Shelby LaBare

Customer Sample ID: 2-OS
Date Sampled.....: 06/29/2005
Time Sampled.....: 10:12
Sample Matrix.....: Water

Laboratory Sample ID: 249503-2
Date Received.....: 06/29/2005
Time Received.....: 13:05

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	IDL	RL	DILUTION	UNITS	BATCH	DT	DATE	TECH
EPA 200.8	Metals Analysis (ICP-MS) Antimony (Sb)	0.12	U		0.12	0.30	1	ug/L	94485		07/25/05	mad

22 of 33

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 249503

Date:08/05/2005

CUSTOMER: Sterling Environmental Engineering, PC

PROJECT: TOWN OF RAMAPO 20010

ATTN: Shelby LaBare

Customer Sample ID: 3-OS/I
Date Sampled.....: 06/29/2005
Time Sampled.....: 11:50
Sample Matrix.....: Water

Laboratory Sample ID: 249503-3
Date Received.....: 06/29/2005
Time Received.....: 13:05

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	IDL	RL	DILUTION	UNITS	BATCH	DT	DATE	TECH
EPA 270.2	Selenium (Se)	1.6	U		1.6	5.0	1	ug/L	94500		07/25/05	rmc
EPA 245.1	Mercury (Hg)	0.16	U		0.16	0.20	1	ug/L	93578		07/08/05	lms
EPA 200.7	Hardness by calculation Hardness, Total as CaCO3	255				2.50	1	mg/L	93974		07/15/05	mad
EPA 200.7	Metals Analysis (ICAP)											
	Aluminum (Al)	10.4	U		10.4	200	1	ug/L	93972		07/15/05	mad
	Arsenic (As)	3.1	U		3.1	10.0	1	ug/L	93972		07/15/05	mad
	Barium (Ba)	122	B		7.1	200	1	ug/L	93972		07/15/05	mad
	Beryllium (Be)	0.40	U		0.40	5.0	1	ug/L	93972		07/15/05	mad
	Cadmium (Cd)	1.6	B		0.80	5.0	1	ug/L	93972		07/15/05	mad
	Calcium (Ca)	84300			58.0	5000	1	ug/L	93972		07/15/05	mad
	Chromium (Cr)	2020			0.90	10.0	1	ug/L	93972		07/15/05	mad
	Cobalt (Co)	9.3	B		1.9	50.0	1	ug/L	93972		07/15/05	mad
	Copper (Cu)	51.8			1.2	25.0	1	ug/L	93972		07/15/05	mad
	Iron (Fe)	60500		N	17.6	100	1	ug/L	94509		07/25/05	mad
	Lead (Pb)	3.1			1.9	3.0	1	ug/L	93972		07/15/05	mad
	Magnesium (Mg)	10700			16.6	5000	1	ug/L	93972		07/15/05	mad
	Manganese (Mn)	6450			2.1	10.0	1	ug/L	93972		07/15/05	mad
	Nickel (Ni)	1460			2.3	40.0	1	ug/L	93972		07/15/05	mad
	Potassium (K)	4010		B	38.6	5000	1	ug/L	93972		07/15/05	mad
	Sodium (Na)	29100		E	10.6	5000	1	ug/L	94080		07/18/05	mad
	Silver (Ag)	23.3		N	1.1	10.0	1	ug/L	93972		07/15/05	mad
	Thallium (Tl)	12.7			2.9	10.0	1	ug/L	93972		07/15/05	mad
	Vanadium (V)	2.0	U		2.0	50.0	1	ug/L	93972		07/15/05	mad
	Zinc (Zn)	35.7			2.5	20.0	1	ug/L	93972		07/15/05	mad

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 249503

Date:08/05/2005

CUSTOMER: Sterling Environmental Engineering, PC

PROJECT: TOWN OF RAMAPO 20010

ATTN: Shelby LaBare

Customer Sample ID: 3-OS/I
Date Sampled.....: 06/29/2005
Time Sampled.....: 11:50
Sample Matrix.....: Water

Laboratory Sample ID: 249503-3
Date Received.....: 06/29/2005
Time Received.....: 13:05

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	IDL	RL	DILUTION	UNITS	BATCH	DT	DATE	TECH
EPA 200.8	Metals Analysis (ICP-MS) Antimony (Sb)	0.12	U		0.12	0.30	1	ug/L	94485		07/25/05	mad

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* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 249503

Date:08/05/2005

CUSTOMER: Sterling Environmental Engineering, PC

PROJECT: TOWN OF RAMAPO 20010

ATTN: Shelby LaBare

Customer Sample ID: 1-OS
Date Sampled.....: 06/29/2005
Time Sampled.....: 12:04
Sample Matrix.....: Water

Laboratory Sample ID: 249503-4
Date Received.....: 06/29/2005
Time Received.....: 13:05

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	IDL	RL	DILUTION	UNITS	BATCH	DT	DATE	TECH
EPA 270.2	Selenium (Se)	1.6	U		1.6	5.0	1	ug/L	94500		07/25/05	rmc
EPA 245.1	Mercury (Hg)	0.16	U		0.16	0.20	1	ug/L	93578		07/08/05	lms
EPA 200.7	Hardness by calculation											
	Hardness, Total as CaCO3	230				2.50	1	mg/L	93974		07/15/05	mad
EPA 200.7	Metals Analysis (ICAP)											
	Aluminum (Al)	557			10.4	200	1	ug/L	93972		07/15/05	mad
	Arsenic (As)	5.9	B		3.1	10.0	1	ug/L	93972		07/15/05	mad
	Barium (Ba)	110	B		7.1	200	1	ug/L	93972		07/15/05	mad
	Beryllium (Be)	0.40	U		0.40	5.0	1	ug/L	93972		07/15/05	mad
	Cadmium (Cd)	0.80	U		0.80	5.0	1	ug/L	93972		07/15/05	mad
	Calcium (Ca)	69400			58.0	5000	1	ug/L	93972		07/15/05	mad
	Chromium (Cr)	31.4			0.90	10.0	1	ug/L	93972		07/15/05	mad
	Cobalt (Co)	7.5	B		1.9	50.0	1	ug/L	93972		07/15/05	mad
	Copper (Cu)	25.9			1.2	25.0	1	ug/L	93972		07/15/05	mad
	Iron (Fe)	486		N	17.6	100	1	ug/L	94509		07/25/05	mad
	Lead (Pb)	5.0			1.9	3.0	1	ug/L	93972		07/15/05	mad
	Magnesium (Mg)	13700			16.6	5000	1	ug/L	93972		07/15/05	mad
	Manganese (Mn)	4440			2.1	10.0	1	ug/L	93972		07/15/05	mad
	Nickel (Ni)	7.9	B		2.3	40.0	1	ug/L	93972		07/15/05	mad
	Potassium (K)	2540	B		38.6	5000	1	ug/L	93972		07/15/05	mad
	Sodium (Na)	35600		E	10.6	5000	1	ug/L	93972		07/15/05	mad
	Silver (Ag)	2.7	B	N	1.1	10.0	1	ug/L	94080		07/18/05	mad
	Thallium (Tl)	10.4			2.9	10.0	1	ug/L	93972		07/15/05	mad
	Vanadium (V)	2.0	U		2.0	50.0	1	ug/L	93972		07/15/05	mad
	Zinc (Zn)	26.2			2.5	20.0	1	ug/L	93972		07/15/05	mad

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 249503

Date:08/05/2005

CUSTOMER: Sterling Environmental Engineering, PC

PROJECT: TOWN OF RAMAPO 20010

ATTN: Shelby LaBare

Customer Sample ID: 1-OS
Date Sampled.....: 06/29/2005
Time Sampled.....: 12:04
Sample Matrix.....: Water

Laboratory Sample ID: 249503-4
Date Received.....: 06/29/2005
Time Received.....: 13:05

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	IDL	RL	DILUTION	UNITS	BATCH	DT	DATE	TECH
EPA 200.8	Metals Analysis (ICP-MS) Antimony (Sb)	0.12	U		0.12	0.30	1	ug/L	94485		07/25/05	mad

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 249503

Date:08/05/2005

CUSTOMER: Sterling Environmental Engineering, PC

PROJECT: TOWN OF RAMAPO 20010

ATTN: Shelby LaBare

Customer Sample ID: 10
Date Sampled.....: 06/29/2005
Time Sampled.....: 12:04
Sample Matrix.....: Water

Laboratory Sample ID: 249503-5
Date Received.....: 06/29/2005
Time Received.....: 13:05

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	IDL	RL	DILUTION	UNITS	BATCH	DT	DATE	TECH
EPA 270.2	Selenium (Se)	1.6	U		1.6	5.0	1	ug/L	94500		07/25/05	rmc
EPA 245.1	Mercury (Hg)	0.16	U		0.16	0.20	1	ug/L	93578		07/08/05	lms
EPA 200.7	Hardness by calculation Hardness, Total as CaCO3	225				2.50	1	mg/L	93974		07/15/05	mad
EPA 200.7	Metals Analysis (ICAP)											
	Aluminum (Al)	765			10.4	200	1	ug/L	93972		07/15/05	mad
	Arsenic (As)	8.1	B		3.1	10.0	1	ug/L	93972		07/15/05	mad
	Barium (Ba)	93.3	B		7.1	200	1	ug/L	93972		07/15/05	mad
	Beryllium (Be)	0.40	U		0.40	5.0	1	ug/L	93972		07/15/05	mad
	Cadmium (Cd)	0.80	U		0.80	5.0	1	ug/L	93972		07/15/05	mad
	Calcium (Ca)	67500			58.0	5000	1	ug/L	93972		07/15/05	mad
	Chromium (Cr)	21.4			0.90	10.0	1	ug/L	93972		07/15/05	mad
	Cobalt (Co)	9.1	B		1.9	50.0	1	ug/L	93972		07/15/05	mad
	Copper (Cu)	24.3	B		1.2	25.0	1	ug/L	93972		07/15/05	mad
	Iron (Fe)	54200		N	17.6	100	1	ug/L	94509		07/25/05	mad
	Lead (Pb)	5.8			1.9	3.0	1	ug/L	93972		07/15/05	mad
	Magnesium (Mg)	14000			16.6	5000	1	ug/L	93972		07/15/05	mad
	Manganese (Mn)	4720			2.1	10.0	1	ug/L	93972		07/15/05	mad
	Nickel (Ni)	9.2	B		2.3	40.0	1	ug/L	93972		07/15/05	mad
	Potassium (K)	2670	B		38.6	5000	1	ug/L	93972		07/15/05	mad
	Sodium (Na)	37100		E	10.6	5000	1	ug/L	93972		07/15/05	mad
	Silver (Ag)	1.9	B	N	1.1	10.0	1	ug/L	94080		07/18/05	mad
	Thallium (Tl)	10.1			2.9	10.0	1	ug/L	93972		07/15/05	mad
	Vanadium (V)	2.0	U		2.0	50.0	1	ug/L	93972		07/15/05	mad
	Zinc (Zn)	10.1	B		2.5	20.0	1	ug/L	93972		07/15/05	mad

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 249503 Date:08/05/2005

CUSTOMER: Sterling Environmental Engineering, PC PROJECT: TOWN OF RAMAPO 20010 ATTN: Shelby LaBare

Customer Sample ID: 10
Date Sampled.....: 06/29/2005
Time Sampled.....: 12:04
Sample Matrix.....: Water

Laboratory Sample ID: 249503-5
Date Received.....: 06/29/2005
Time Received.....: 13:05

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	IDL	RL	DILUTION	UNITS	BATCH	DT	DATE	TECH
EPA 200.8	Metals Analysis (ICP-MS) Antimony (Sb)	0.12	U		0.12	0.30	1	ug/L	94485		07/25/05	mad

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* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 249503

Date: 08/05/2005

CUSTOMER: Sterling Environmental Engineering, PC PROJECT: TOWN OF RAMAPO 20010 ATTN: Shelby LaBare

Customer Sample ID: 5-I
Date Sampled.....: 06/29/2005
Time Sampled.....: 09:17
Sample Matrix.....: Water

Laboratory Sample ID: 249503-1
Date Received.....: 06/29/2005
Time Received.....: 13:05

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
SM18 2320B	Alkalinity, Total as CaCO3	41.2			5.00	mg/L	07/15/05	vvm
HACH 8000	Chemical Oxygen Demand (COD)	10.0	U		10.0	mg/L	06/30/05	bg
LAC 10107062D	Nitrogen, Total Kjeldahl as N (TKN)	1.25		N	1.00	mg/L	07/26/05	rmc

* In Description = Dry Wgt.

STL Newburgh
315 Fullerton Avenue
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LABORATORY TEST RESULTS

Job Number: 249503 Date: 08/05/2005

CUSTOMER: Sterling Environmental Engineering, PC PROJECT: TOWN OF RAMAPO 20010 ATTN: Shelby LaBare

Customer Sample ID: 2-OS
Date Sampled.....: 06/29/2005
Time Sampled.....: 10:12
Sample Matrix.....: Water

Laboratory Sample ID: 249503-2
Date Received.....: 06/29/2005
Time Received.....: 13:05

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
SM18 2320B	Alkalinity, Total as CaCO3	222			5.00	mg/L	07/15/05	vvm
HACH 8000	Chemical Oxygen Demand (COD)	14.5			10.0	mg/L	06/30/05	bg
LAC 10107062D	Nitrogen, Total Kjeldahl as N (TKN)	1.00	U	N	1.00	mg/L	07/26/05	rmc

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LABORATORY TEST RESULTS

Job Number: 249503

Date: 08/05/2005

CUSTOMER: Sterling Environmental Engineering, PC PROJECT: TOWN OF RAMAPO 20010 ATTN: Shelby LaBare

Customer Sample ID: 3-OS/I
Date Sampled.....: 06/29/2005
Time Sampled.....: 11:50
Sample Matrix.....: Water

Laboratory Sample ID: 249503-3
Date Received.....: 06/29/2005
Time Received.....: 13:05

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
SM18 2320B	Alkalinity, Total as CaCO3	206			5.00	mg/L	07/15/05	vvm
HACH 8000	Chemical Oxygen Demand (COD)	17.5			10.0	mg/L	06/30/05	bg
LAC 10107062D	Nitrogen, Total Kjeldahl as N (TKN)	1.02		N	1.00	mg/L	07/26/05	rmc

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LABORATORY TEST RESULTS

Job Number: 249503

Date: 08/05/2005

CUSTOMER: Sterling Environmental Engineering, PC PROJECT: TOWN OF RAMAPO 20010 ATTN: Shelby LaBare

Customer Sample ID: 1-OS
Date Sampled.....: 06/29/2005
Time Sampled.....: 12:04
Sample Matrix.....: Water

Laboratory Sample ID: 249503-4
Date Received.....: 06/29/2005
Time Received.....: 13:05

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
SM18 2320B	Alkalinity, Total as CaCO3	224			5.00	mg/L	07/15/05	vvm
HACH 8000	Chemical Oxygen Demand (COD)	32.3			10.0	mg/L	06/30/05	bg
LAC 10107062D	Nitrogen, Total Kjeldahl as N (TKN)	1.00	U	N	1.00	mg/L	07/26/05	rmc

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 249503

Date: 08/05/2005

CUSTOMER: Sterling Environmental Engineering, PC PROJECT: TOWN OF RAMAPO 20010 ATTN: Shelby LaBare

Customer Sample ID: 10
Date Sampled.....: 06/29/2005
Time Sampled.....: 12:04
Sample Matrix.....: Water

Laboratory Sample ID: 249503-5
Date Received.....: 06/29/2005
Time Received.....: 13:05

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
SM18 2320B	Alkalinity, Total as CaCO3	219			5.00	mg/L	07/15/05	vvm
HACH 8000	Chemical Oxygen Demand (COD)	29.4			10.0	mg/L	06/30/05	bg
LAC 10107062D	Nitrogen, Total Kjeldahl as N (TKN)	1.00	U	N	1.00	mg/L	07/26/05	rmc

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