Environmental Consultants

4 Executive Boulevard, Suite 303
Suffern, NY 10901

845 357-1510
FAX 845 357-1049
www.scsengineers.com

SCS ENGINEERS

February 28, 2018
File No. 13198021.11

Victoria Schmitt, PE
New York State Department of Environmental Conservation
Division of Materials Management
1150 North Westcott Road
Schenectady, New York 12306
(518) 357-2243

Subject: 2017 Fourth Quarter/Annual Report
Town of Colonie Landfill
Permit ID #4-0126-00033/00001
Cohoes, New York

Dear Ms. Schmitt:

On behalf of Capital Region Landfills, LLC (CRL) and the Town of Colonie (Town), SCS Engineers has enclosed one (1) hardcopy of the subject report with attachments containing supporting data and information for the subject site. An electronic copy is being sent via e-mail to Victoria.schmitt@dec.ny.gov.

Please feel free to call either of the undersigned at (845) 357-1510 or Curt Taylor of CRL at 518-470-3830, if you have any questions or need any additional information for your review.

Sincerely,

L. K. Wilk for

Camilo J. Aponte
Staff Engineer
SCS ENGINEERS

L. K. Wilk

Lisa K. Wilkinson, PE
Senior Project Manager
SCS ENGINEERS

cc: DEC Central Office (electronic copy via email to swmfannualreport@dec.ny.gov)
M. McGarry, PE (electronic and hardcopy)
C. Judd (electronic)
C. Taylor (electronic and hardcopy)
J. Burrier (electronic copy)
L. Brown (electronic copy)

SCS ENGINEERS

Report

2017 Fourth Quarter/Annual Report

Colonie Landfill

Presented to:

Capital Region Landfills, Inc.
1319 Loudon Road
Cohoes, New York 12047
(518) 783-2827

Presented by:

SCS ENGINEERS
4 Executive Boulevard, Suite 303
Suffern, New York 10901
(845) 357-1510

February 2018
File No. 13198021.11

Offices Nationwide
www.scsengineers.com

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ANNUAL/QUARTERLY REPORT FORM

Clear Form

MSW, INDUSTRIAL OR ASH LANDFILL ANNUAL/QUARTERLY REPORT

Submit the Annual Report no later than March 1, 2018.

A. This annual/quarterly report is for the year of operation from January 01, 2017 to December 31, 2017

B. Quarterly Report for: ☐ Quarter 1 ☐ Quarter 2 ☐ Quarter 3 ☒ Quarter 4

SECTION 1 – FACILITY INFORMATION

FACILITY INFORMATION			
FACILITY NAME: Town of Colonie Landfill			
FACILITY LOCATION ADDRESS: 1319 Loudon Rd	**FACILITY CITY:** Cohoes	**STATE:** NY	**ZIP CODE:** 12047
FACILITY TOWN: Colonie	**FACILITY COUNTY:** Albany	**FACILITY PHONE NUMBER:** 518-783-2827	
FACILITY NYS PLANNING UNIT: (A list of NYS Planning Units can be found at the end of this report). Town of Colonie		**NYSDEC REGION #:** 4	

360 PERMIT #:	DATE ISSUED:	DATE EXPIRES:	NYS DEC ACTIVITY CODE OR REGISTRATION NUMBER:
4-0126-00033/00001	01/14/2008	12/31/2017	

FACILITY CONTACT:		CONTACT PHONE NUMBER:	CONTACT FAX NUMBER:
Curt Taylor, Capital Region Landfills	☐ public ☒ private	518-470-3830	518-786-7331
CONTACT EMAIL ADDRESS:			

OWNER INFORMATION			
OWNER NAME: Town of Colonie	**OWNER PHONE NUMBER:** (518) 783-6292	**OWNER FAX NUMBER:** (518) 689-2860	
OWNER ADDRESS: 347 Old Niskayuna Road	**OWNER CITY:** Latham	**STATE:** NY	**ZIP CODE:** 12110
OWNER CONTACT: Matthew J. McGarry	**OWNER CONTACT EMAIL ADDRESS:** mcgarrym@colonie.org		

OPERATOR INFORMATION	
OPERATOR NAME: ☐ *same as owner* Same as facility contact	☐ **public** ☒ **private**

PREFERENCES		
Preferred address to receive correspondence: ☐ *Other (provide):*	☐ *Facility location address*	☒ *Owner address*
Preferred email address: ☐ *Other (provide):* mcgarrym@colonie.org	☐ *Facility Contact*	☒ *Owner Contact*
Preferred individual to receive correspondence: ☐ *Other (provide):*	☒ *Facility Contact*	☐ *Owner Contact*

Did you operate in 2017? ☒ Yes; Complete this form.

☐ No; Complete and submit Sections 1 and 22. If you no longer plan to operate and wish to relinquish your permit/registration associated with this solid waste management activity, also complete the "Inactive Solid Waste Management Facility or Activity Notification Form" located at: http://www.dec.ny.gov/chemical/52706.html .

SECTION 2 - SITE LIFE

1. Landfill Capacity Utilized Last Year (reporting year).

   a. What is the estimated landfill capacity that was utilized during the reporting year?

   385,000 Cubic Yards of Airspace

   Please do not report units as pounds per cubic yard.

   b. What is the estimated in-situ waste density for the reporting year?

   0.8 Tons/Cubic Yard

2. Remaining Constructed Capacity

   a. What is the remaining capacity of the landfill that is already constructed?

   260,000 (see Note on Page 3) Cubic Yards of Airspace

   b. What is the estimated remaining life of the constructed capacity?

   1 Years 0 Months

   at 210,000 Tons/Year.*

   * Please note that this tonnage rate must include all materials placed in the landfill, i.e., waste, soil, cover, alternative daily covers, etc.

   c. The tonnage rate reported under 2.b. is based on (select one):

   _____ The amount of materials placed in the landfill in the reporting year

   X Estimated future disposal

   _____ Permit limit

   Other (explain): If Area 7 Permit is not received by second quarter 2018, tonnage rates will be reduced.

3. Permitted Capacity Still to be Constructed

   a. What is the remaining but not yet constructed landfill capacity that is authorized by a Part 360 permit?

   None Cubic Yards of Airspace

   b. What is the projected life of capacity reported in 3.a?

   N/A Years N/A Months

   at N/A Tons/Year.*

   * Please note that this tonnage rate must include all materials disposed in the landfill, i.e., waste, and soil and alternative daily covers.

   c. The tonnage rate reported under 3.b. is based on (select one):

   N/A The amount of materials placed in the landfill in the reporting year

   N/A Estimated future disposal

   N/A Permit limit

   Other (explain): _____

4. Capacity Proposed in a Part 360 Permit Application

What is the capacity of any expansion proposed in a Part 360 permit application that has been submitted to the Department but not authorized by a permit as of the end of the reporting period?

11,600,000 Cubic Yards of Airspace

5. Estimated Potential Future Capacity Not Permitted or in an Application (optional)

What is the estimated capacity of any potential future expansion at the facility that is not yet authorized by a permit or proposed in a Part 360 permit application that has been submitted to the Department?

N/A Cubic Yards of Airspace

SECTION 3 - PRIMARY LEACHATE

Name of off-site leachate treatment facility(s) utilized: Town of Colonie / Albany

Does the landfill have a constructed liner and a leachate collection system? ☒ Yes ☐ No

Enter the quantity of primary leachate that was collected, removed for on-site and off-site treatment, and recirculated each month, and the corresponding **Acreage, by Cell**:
(Note: For double-lined landfills this should not include the volume of leachate collected from secondary leachate collection and removal systems.)

For **each cell**, please report the **acreage** and the **primary leachate** amount.

Note for Item 2 on Page 2:
Due to permitting delays associated with the Proposed Area 7 Development, tonnage rates may need to be significantly reduced beginning in the second quarter of 2018. The reported remaining construction capacity includes all volume above the operational deck identified in our 2016 Report. It does not include additional slope fills which may be identified during 2018 operations.

Section 3 - Primary Leachate Summary
Colonie Landfill 2017

Month	Primary Leachate Collected (Gallons)	Primary Leachate Treated Offsite (Gallons)
January	484,000	484,000
February	1,268,229	1,268,229
March	1,673,000	1,673,000
April	1,972,000	1,972,000
May	2,119,000	2,119,000
June	1,442,000	1,442,000
July	1,220,000	1,220,000
August	1,234,000	1,234,000
September	1,565,000	1,565,000
October	930,000	930,000
November	871,000	871,000
December	776,000	776,000
Total	**15,554,229**	**15,554,229**

1. All primary leachate collected is treated offsite.
2. No primary leachate is recirculated or treated onsite.
3. Source: 2017 Leachate by Month.xls provided by CRL.

Submit (attached to this form) a copy of the maintenance logs which document compliance with the Operation and Maintenance Manual's schedule for the routine annual flushing and inspection of the primary leachate collection and removal system. List required submissions that have been attached to this form or the reason for not attaching a required piece of information:

See Attachment 1 for maintenance logs of annual flushing and inspection for the primary leachate collection system.

Submit (attached to this form) a tabulated compilation of the semi-annual primary leachate quality data collected throughout the year including a summary comparing this year's data with the previous year's data and a summary discussion of results. This list should identify sample location(s) and method of analysis. List required submissions that have been attached to this form or the reason for not attaching a required piece of information:

See Attachment 7 for report entitled "Area 5 Environmental Monitoring" and "Area 6 Environmental Monitoring Quarterly Report" prepared by Arcadis.

SECTION 4 - SECONDARY LEACHATE

Does landfill have a double liner system with a secondary leachate collection and removal system? ☒ Yes ☐ No

Submit (attached to this form) a tabulated compilation of the semi-annual secondary leachate quality data collected throughout the year including a summary comparing this year's data with all previous years' data and a summary discussion of results. This list should identify sample location(s) and methods of analysis. List required submissions that have been attached to this form or the reason for not attaching a required piece of information:

See Attachment 7 for report entitled "Area 5 Environmental Monitoring" and "Area 6 Environmental Monitoring Quarterly Report" prepared by Arcadis.

Please report total cost for the year, not cost/gal.

Leachate Cost: (including transportation if appropriate) during the calendar year for leachate treatment: $ $50,871.60

Total quantity treated: 15,554,229 gal

Enter the quantity of secondary leachate that was collected, removed for on-site and off-site treatment, and recirculated each month, and the corresponding **Acreage, by Cell**:

For **each cell**, please report the **acreage** and the **secondary leachate** amount.

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Section 4. 2017 Secondary Leachate Summary
Colonie Landfill

Month	Secondary Leachate Collected (Gallons)								
	Area 5						Area 6, Phase I		Area 6 Phase II	
	Cell A	Cell B	Cell C	Cell D	Cell E		Cell A	Cell B	Cell C	Cell D
	1.8 Acres	1.55 Acres	1.33 Acres	4.7 Acres	3.55 Acres		5.52 Acres	5.23 Acres	5.45 Acres	5.69 Acres
January	184	606	106	59	79		0	536.2	1384.4	996.9
February	186	578	71	59	1962		0.1	218	883.9	541
March	184	608	141	39	66		0	684.9	888.5	658.1
April	184	541	70	59	92		23	825.6	822	556
May	183	586	71	78	2281		0	304.5	1406.5	893.8
June	194	635	129	59	8		24.7	1031.6	1093.9	532.4
July	183	566	105	78	14		0	1097.2	1164.3	736.4
August	193	527	141	247	12		0	2301.7	1612.5	1116.5
September	172	515	177	176	59		0	391.5	907.7	1048.4
October	181	536	176	118	12		0	135.6	543.5	251.4
November	158	543	175	177	45		0	542.2	481	262.3
December	183	574	167	198	3		51.9	549.1	494.4	331.9
Total	**2,185.0**	**6,815.0**	**1,529.0**	**1,347.0**	**4,633.0**		**99.7**	**8,618.1**	**11,682.6**	**7,925.1**

1. All secondary leachate collected is treated offsite.
2. No secondary leachate is recirculated or treated onsite.
3. Source: "2017 Monthly Secondary ALR Summary xls" provided by CRL.
4. Waste placement in Area 6, Phase II commenced in April 2012.

SECTION 5 – BENEFICIAL USE DETERMINATION MATERIALS

For each type of waste material that the Department has approved for use as alternative daily cover, intermediate cover, or other landfill material, provide the annual weight in tons, use (i.e., daily cover, intermediate cover, etc.), and source of material. (If material is from a solid waste facility also provide facility name, address, NYS Planning Unit, County/ Province, and State/Country.) **Refer to the list of NYS Planning Units that can be found at the end of this report.**

Type of Solid Waste	Weight (tons/year)	Use	NYS Planning Unit (See Attached List of NYS Planning Units)	County or Province	State or Country	Source (Facility and Address)
Aggregate/Concrete	4,131.28	Road Base				See Attachement 2- Road Base by Origin Table
Contaminated Soil	6,048.60	Cover Materials				See Attachment 2 - PCS by Origin Table
Foundry Sand						
Glass	25,014.65	Road Base				See Attachment 2 - Crushed Glass by Origin Table
Industrial Waste (specify)						
MSW/Wood Ash	50,792.46	Cover Materials				See Attachment 2 - Ash by Origin Table
Paper Mill Sludge						
Processed C&D						
Shredder Fluff	1,464.63	Cover Materials				See Attachment 2 - Ash by Origin Table
Tire Chips						
Wood/Wood Chips						
Other (specify)						
Total ADC	58,305.69					
Total Beneficial Use Determination Materials	87,451.62					

Percent Alternative Daily Cover (ADC) Calculation

ADC Calculations: Total Tons ADC/Total Tons Waste Disposed x 100 = 23.3 %

Please note the calculation **is**: Tons ADC (from table above)/Tons Solid Waste (from table in Section 6) x 100 and **Not**: Tons ADC / (Tons Solid Waste + ADC) x 100

SECTION 6 - SOLID WASTE DISPOSED

Provide the tonnages of solid waste disposed. Exclude Beneficial Use Material amounts reported in Section 5 and Recyclable Material amounts reported in Section 8. Specify the methods used to measure the quantities disposed and the percentages measured by each method:

_____% Scale Weight _____% Estimated

_____% Truck Count _____% Other (Specify: _____)

Type of Solid Waste	January (tons)	February (tons)	March (tons)	April (tons)	May (tons)	June (tons)	July (tons)
Asbestos							
Ash (Coal)							
Ash (MSW Energy Recovery)							
Construction & Demolition Debris (mixed)							
Industrial Waste (Including Industrial Process Sludges)							
Mixed Municipal Solid Waste (Residential, Institutional & Commercial)							
Oil/Gas Drilling Waste							
Petroleum Contaminated Soil							
Sewage Treatment Plant Sludge							
Treated Regulated Medical Waste							
Emergency Authorization Waste (Storm Debris)							
Other (specify)							
Total Tons Disposed							

See Table below entitled "Section 6 - Quantity of Solid Waste Disposed in 2017"

SECTION 6 - SOLID WASTE DISPOSED (continued)

Type of Solid Waste	Tip Fee ($/Ton)	August (tons)	September (tons)	October (tons)	November (tons)	December (tons)	Total Year (tons)	Daily Avg. (tons)
Asbestos								
Ash (Coal)								
Ash (MSW Energy Recovery)								
Construction & Demolition Debris (mixed)								
Industrial Waste (Including Industrial Process Sludges)								
Mixed Municipal Solid Waste (Residential, Institutional & Commercial)								
Oil/Gas Drilling Waste								
Petroleum Contaminated Soil								
Sewage Treatment Plant Sludge								
Treated Regulated Medical Waste								
Emergency Authorization Waste (Storm Debris)								
Other (specify)								
Total Tons Disposed								

See Table below entitled "Section 6 - Quantity of Solid Waste Disposed in 2017"

Section 6. Quantity of Solid Waste Disposed in 2017

A. Quantity Disposed by Month/Year[7]

Colonie Landfill

	Waste Category						ADC Material[8]					Road Base[9]				
Tip (Fee/ton)[6]	$70/80	$72/90	$41.25	$72/90	$41.25		$23	$28	$30	$21		-	$25			
	MSW	**C&D [1]**	**SS GRIT [4]**	**IND [2]**	**ALUM [3]**	**TOTAL WASTE**	**ASH**	**AUTO FLUFF**	**PCS**	**PAPERSLUDGE**	**TOTAL ADC**	**GLASS**	**ROAD BASE**	**TOTAL ROAD**	**TOTAL BUD**	**GRAND TOTAL**
January (tons)	18,773.75	864.11	1,026.54	248.31	0.00	20,912.71	4,290.57	127.54	525.54	0.00	4,943.65	2,627.84	175.83	2,803.67	7,747.32	28,660.03
February (tons)	17,654.24	866.64	969.47	69.18	0.00	19,559.53	3,739.30	119.99	250.79	0.00	4,110.08	1,980.39	177.43	2,157.82	6,267.90	25,827.43
March (tons)	19,647.91	871.79	1,147.22	171.17	0.00	21,838.09	3,971.93	119.17	72.58	0.00	4,163.68	2,223.83	174.14	2,397.97	6,561.65	28,399.74
April (tons)	17,557.04	1,389.52	1,294.38	122.53	0.00	20,363.47	3,955.40	209.51	1,106.80	0.00	5,271.71	1,783.37	217.49	2,000.86	7,272.57	27,636.04
May (tons)	17,621.74	2,043.83	984.25	1,049.97	0.00	21,699.79	3,590.82	90.65	394.56	0.00	4,076.03	2,264.34	328.42	2,592.76	6,668.79	28,368.58
June (tons)	17,805.74	1,855.85	1,060.04	385.09	141.06	21,247.78	4,581.63	124.86	712.81	0.00	5,419.30	2,064.45	379.82	2,444.27	7,863.57	29,111.35
July (tons)	17,079.71	1,707.56	824.73	1,318.82	0.00	20,930.82	4,583.88	144.10	435.29	0.00	5,163.27	2,832.94	358.60	3,191.54	8,354.81	29,285.63
August (tons)	17,184.55	2,161.19	1,020.27	1,139.25	0.00	21,505.26	4,559.75	132.05	400.57	0.00	5,092.37	2,484.88	443.99	2,928.87	8,021.24	29,526.50
September (tons)	16,954.92	2,081.83	827.63	685.48	409.71	20,959.57	4,473.49	115.15	594.76	0.00	5,183.40	1,852.02	582.36	2,434.38	7,617.78	28,577.35
October (tons)	16,298.17	2,969.64	1,292.54	316.03	0.00	20,876.38	4,509.54	106.29	599.62	0.00	5,215.45	1,780.70	379.22	2,159.92	7,375.37	28,251.75
November (tons)	15,795.32	3,010.59	1,130.74	371.80	0.00	20,308.45	4,498.37	85.19	620.01	0.00	5,203.57	1,645.85	534.16	2,180.01	7,383.58	27,692.03
December (tons)	16,478.84	1,138.95	1,370.40	567.96	0.00	19,556.15	4,037.78	90.13	335.27	0.00	4,463.18	1,474.04	379.92	1,853.96	6,317.14	25,873.29
2016 TOTALS	**208,851.93**	**20,961.50**	**12,948.21**	**6,445.59**	**550.77**	**249,758.00**	**50,792.46**	**1,464.63**	**6,048.60**	**0.00**	**58,305.69**	**25,014.65**	**4,131.38**	**29,146.03**	**87,451.72**	**337,209.72**
Daily Average[5]	673.72	67.62	41.77	20.79	1.78		163.85	4.72	19.51	0.00		80.69	13.33			

Annual ADC (tons): 58,305.69

Annual Waste Disposed (tons): 249,758.00

Percent ADC: 23.3%

(1) Cost is $72/ton for in Town and $90/ton for out of Town waste. LEEDS Recycled and MSW OUT has been deducted from landfilled tonnages

(2) Industrial Waste includes paper sludge (not ADC paper sludge)

(3) Alum Sludge considered Industrial waste

(4) SS GRIT is sewage treatment plant sludge

(5) Daily Average calcuation based on a 310 day operating year.

(6) Tip Fee from spreadsheet provided by CRL, "2017 Monthly Waste by Type.xls'

(7) Waste tonnages provided by CRL, "2017 Monthly Waste by Type.xls"

(8) Ash, Auto Shredder fluff, PCS and paper sludge considered beneficial use material as Alternative Daily Cover (ADC)

(9) Crushed Glass, Aggregate and Concrete used as Road Base considered a Beneficial Use Material (but not ADC)

SECTION 7 – SERVICE AREA OF SOLID WASTE RECEIVED

Identify the service area of the waste. The Total Tons Received reported below should equal the Total Tons Disposed in Section 6 (Solid Waste Disposed). DO NOT REPORT IN CUBIC YARDS!

1) Direct hauled from the generator of the waste. In the case where the waste is hauled to your facility from the generator (i.e. hauled from residences, commercial establishments, etc.), "Direct Haul" is the appropriate response in Column 2 under "Service Area." Please report the tonnage by waste type and identify the state, county and planning unit where it was generated; or

2) Sent to your facility from another solid waste management facility. Waste may be sent to your transfer station from another solid waste management facility. In this case, please report the tonnage by waste type from each sending solid waste management facility, as well as the sending facility's name, address, county, and the planning unit where the sending facility is located.

Specify transport method and percentages of total waste transported by each:

_____% Road _____% Rail _____% Water _____% Other (specify:_____)

Explain which waste types and service areas below are included in these transport methods _____

SERVICE AREA OF SOLID WASTE RECEIVED					
TYPE OF SOLID WASTE	**SOLID WASTE MANAGEMENT FACILITY FROM WHICH IT WAS RECEIVED (Name & Address) OR "Direct Haul"**	**SERVICE AREA STATE OR COUNTRY**	**SERVICE AREA COUNTY OR PROVINCE**	**SERVICE AREA NYS PLANNING UNIT (See Attached List of NYS Planning Units)**	**TONS RECEIVED**
Asbestos	N/A				
Ash (Coal)	N/A				
Ash (MSW Energy Recovery)	See Attachment 2 for Ash Origin Report				50,792.46
Construction & Demolition Debris (mixed)	See Attachment 3 for C&D Origin Report				20,961.50

SERVICE AREA OF SOLID WASTE RECEIVED					
TYPE OF SOLID WASTE	SOLID WASTE MANAGEMENT FACILITY FROM WHICH IT WAS RECEIVED (Name & Address) OR "Direct Haul"	SERVICE AREA STATE OR COUNTRY	SERVICE AREA COUNTY OR PROVINCE	SERVICE AREA NYS PLANNING UNIT (See Attached List of NYS Planning Units)	TONS RECEIVED
Industrial Waste (Including Industrial Process Sludges)	See Attachment 3 for Alum Sludge Origin Report				550.77
	See Attachment 3 for Industrial Waste Origin Report				6,445.59
Mixed Municipal Solid Waste (Residential, Institutional & Commercial)	See Attachment 3 for MSW Origin Report				208,851.93
Oil/Gas Drilling Waste	N/A				
Petroleum Contaminated Soil	See Attachment 2 for PCS Origin Report				6,048.60
Sewage Treatment Plant Sludge	See Attachment 3 for POTW Origin Report				12,948.21
Treated Regulated Medical Waste (TRMW)*	N/A				
Emergency Authorization Waste (Storm Debris)	N/A				
Other (specify)	See Attachment 2 for Road Base Origin Report				4,131.28
	See Attachment 2 for Crushed Glass and Auto Shredder				26,479.28
				TOTAL RECEIVED (tons):	337,209.72

* List generators that provide you Certificates of Treatment forms and quantities of TRMW from each N/A

Reprinted (12/17)

SECTION 8 –LANDFILL RECYCLABLE & RECOVERED MATERIALS

Is your facility also a permitted or registered Recyclables Handling & Recovery Facility?

☐ Yes; Complete Section 9 for material recovered from the mixed solid waste stream. Complete a Recyclables Handling & Recovery Facility (RHRF) form for material received as source separated. The RHRF form is located at: http://www.dec.ny.gov/chemical/52706.html .

☐ No; Complete Section 9 for material recovered from the mixed solid waste stream and for material received as source separated.

A. Service Area of Recyclable Material Received

Identify the service area of the material. DO NOT REPORT IN CUBIC YARDS!

1) Direct hauled from the generator of the recyclables. In the case where the recyclables are hauled to your facility from the generator (i.e. hauled from residences, commercial establishments, etc.), "Direct Haul" would be the appropriate response in Column 2 under "Service Area". Please report the tonnage by material type and identify the state, county and planning unit where it was generated; or

2) Sent to your facility from another solid waste management facility. Recyclables may be sent to your facility from another solid waste management facility. In this case, please report the tonnage by material type from each sending solid waste management facility, as well as the sending facility's name, address, county, and the planning unit where the sending facility is located.

Explain which materials and service areas below are included in these transport methods _____

SERVICE AREA OF RECYCLABLE MATERIAL RECEIVED					
MATERIAL	SOLID WASTE MANAGEMENT FACILITY FROM WHICH IT WAS RECEIVED (Name & Address) OR "Direct Haul"	SERVICE AREA STATE OR COUNTRY	SERVICE AREA COUNTY OR PROVINCE	SERVICE AREA NYS PLANNING UNIT (See Attached List of NYS Planning Units)	TONS RECEIVED
Commingled Containers (metal, glass, plastic)	Direct Haul	NY			347.21
Commingled Paper (all grades)					
Single Stream (total)	Direct Haul	NY			525.53
Brush, Branches, Trees, & Stumps					
Food Scraps					
Yard Waste (curbside)					
Other (specify)	Tires - Direct Haul	NY			33.77
	Electronics - Direct Haul	NY			75.68
				TOTAL RECEIVED (tons):	982.19

NOTE: Town Annual Recycling Report submitted under separate cover

SECTION 8 – LANDFILL RECYCLABLE & RECOVERED MATERIALS

B. Material Recovered

Identify the name of the destination facility to which the material was sent from your facility, the corresponding State/Country, the County/Province, the NYS Planning Unit, and the amount of material transported. **Refer to the list of NYS Planning Units that can be found at the end of this report.**
DO NOT REPORT IN CUBIC YARDS!

Specify transport method and percentages of total material transported by each:

_____% Road _____% Rail _____% Water _____% Other (specify: _____)

Explain which materials and destinations below are included in these transport methods _____

PAPER RECOVERED					
RECOVERED MATERIAL	**DESTINATION** (Name & Address)	**DESTINATION STATE OR COUNTRY**	**DESTINATION COUNTY OR PROVINCE**	**DESTINATION NYS PLANNING UNIT** (See Attached List of NYS Planning Units)	**TONS RECOVERED** (out of facility)
Commingled Paper (all grades)					
Corrugated Cardboard					
Junk Mail					
Magazines					
Newspaper					
Office Paper					
Paperboard / Boxboard					
Other Paper (specify)					
				TOTAL PAPER RECOVERED (tons):	_____

NOTE: Town Annual Recycling Report submitted under separate cover

SECTION 8 – LANDFILL RECYCLABLE & RECOVERED MATERIALS (continued)

B. Material Recovered

GLASS RECOVERED					
RECOVERED MATERIAL	DESTINATION (Name & Address)	DESTINATION STATE OR COUNTRY	DESTINATION COUNTY OR PROVINCE	DESTINATION NYS PLANNING UNIT (See Attached List of NYS Planning Units)	TONS RECOVERED (out of facility)
Container Glass					
Industrial Scrap Glass					
Other Glass (specify)					
				TOTAL GLASS RECOVERED (tons):	

METAL RECOVERED					
RECOVERED MATERIAL	DESTINATION (Name & Address)	DESTINATION STATE OR COUNTRY	DESTINATION COUNTY OR PROVINCE	DESTINATION NYS PLANNING UNIT (See Attached List of NYS Planning Units)	TONS RECOVERED (out of facility)
Aluminum Foil / Trays					
Bulk Metal (from MSW)					
Bulk Metal (from CD debris)					
Enameled Appliances / White Goods					
Industrial Scrap Metal					
Tin & Aluminum Containers					
Other Metal (specify)					
Bulk Metal/Appliances	849 1st St, Watervliet, NY 12189	NY	Albany County	Colonie (Town)	347.21
				TOTAL METAL RECOVERED (tons):	347.21

NOTE: Town Annual Recycling Report submitted under separate cover

SECTION 8 – LANDFILL RECYCLABLE & RECOVERED MATERIALS (continued)

B. Material Recovered

PLASTIC RECOVERED					
RECOVERED MATERIAL	DESTINATION (Name & Address)	DESTINATION STATE OR COUNTRY	DESTINATION COUNTY OR PROVINCE	DESTINATION NYS PLANNING UNIT (See Attached List of NYS Planning Units)	TONS RECOVERED (out of facility)
Mixed Plastic (#1 - #7)					
PET (plastic #1)					
HDPE (plastic #2)					
Other Rigid Plastics (#3 - #7)					
Industrial Scrap Plastic					
Plastic Film & Bags					
Other Plastics (specify)					
				TOTAL PLASTIC RECOVERED (tons):	

NOTE: Town Annual Recycling Report submitted under separate cover

SECTION 8 – LANDFILL RECYCLABLE & RECOVERED MATERIALS (continued)

B. Material Recovered

MIXED MATERIAL RECOVERED					
RECOVERED MATERIAL	DESTINATION (Name & Address)	DESTINATION STATE OR COUNTRY	DESTINATION COUNTY OR PROVINCE	DESTINATION NYS PLANNING UNIT (See Attached List of NYS Planning Units)	TONS RECOVERED (out of facility)
Commingled Containers (metal, glass, plastic)					
Commingled Paper & Containers					
Single Stream (total)	Sierra Processing, 875 South Pearl St., Albany, NY 12202	NY	Albany County	Capital Region Solid Waste	525.53
Other (specify)					
Tires	County Waste, 1927 Route 9, Clifton Park, NY 12065	NY	Saratoga County	Saratoga County	33.77
				TOTAL MIXED MATERIAL RECOVERED (tons):	559.30

NOTE: Town Annual Recycling Report submitted under separate cover

SECTION 8 – LANDFILL RECYCLABLE & RECOVERED MATERIALS (continued)

B. Material Recovered

MISCELLANEOUS MATERIAL RECOVERED					
RECOVERED MATERIAL	DESTINATION (Name & Address)	DESTINATION STATE OR COUNTRY	DESTINATION COUNTY OR PROVINCE	DESTINATION NYS PLANNING UNIT (See Attached List of NYS Planning Units)	TONS RECOVERED (out of facility)
Electronics	eLot, 64 Hannay Lane, Glenmont, NY 12207	NY	Albany County	Capital Region Solid Waste	75.68
Textiles					
Brush, Branches, Trees, & Stumps					
Food Scraps					
Yard Waste (curbside)					
Other (specify)					
TOTAL MISCELLANEOUS MATERIAL RECOVERED (tons):					75.68

VOLUME TO WEIGHT CONVERSION FACTORS

MATERIAL	EQUIVALENT		MATERIAL	EQUIVALENT		MATERIAL	EQUIVALENT	
GLASS – whole bottles	1 cubic yard	0.35 tons	GLASS - crushed mechanically	1 cubic yard	0.88 tons	ALUMINUM – cans – whole	1 cubic yard	0.03 tons
GLASS - semi crushed	1 cubic yard	0.70 tons	GLASS - uncrushed manually	55 gallon drum	0.16 tons	ALUMINUM – cans – flattened	1 cubic yard	0.125 tons
PAPER - high grade loose	1 cubic yard	0.18 tons	PLASTIC – PET – whole	1 cubic yard	0.015 tons			
PAPER - high grade baled	1 cubic yard	0.36 tons	PLASTIC – PET – flattened	1 cubic yard	0.04 tons			
PAPER - mixed loose	1 cubic yard	0.15 tons	PLASTIC – PET – baled	1 cubic yard	0.38 tons	WHITE GOODS - uncompacted	1 cubic yard	0.10 tons
NEWSPRINT - loose	1 cubic yard	0.29 tons	PLASTIC – styrofoam	1 cubic yard	0.02 tons	WHITE GOODS - compacted	1 cubic yard	0.5 tons
NEWSPRINT - compacted	1 cubic yard	0.43 tons	PLASTIC – HDPE – whole	1 cubic yard	0.012 tons			
CORRUGATED – loose	1 cubic yard	0.015 tons	PLASTIC – HDPE – flattened 1	1 cubic yard	0.03 tons			
CORRUGATED - baled	1 cubic yard	0.55 tons	PLASTIC – HDPE – baled	1 cubic yard	0.38 tons	FERROUS METAL - cans whole	1 cubic yard	0.08 tons
			PLASTIC – mixed (grocery bags)	45 gallon bag	0.01 tons	FERROUS METAL - cans	1 cubic yard	0.43 tons

NOTE: Town Annual Recycling Report submitted under separate cover

SECTION 9 – UNAUTHORIZED SOLID WASTE

Has unauthorized solid waste been received at the facility during the reporting period?

☐ Yes ■ No If yes, give information below for each incident (attach additional sheets if necessary):

Date Received	Type Received	Date Disposed	Disposal Method & Location

Radiation Monitoring

Does your facility use a fixed radiation monitor? ☐ Yes ■ No

Identify Manufacturer _____ and Model _____ of fixed unit.

Does your facility use a portable radiation monitor? ■ Yes ☐ No

Identify Manufacturer Ludlum and Model 19 Micro R of portable unit.

If the radiation monitors have been triggered give information below for each incident:

Incident Number	Received		Hauler	Origin	Truck Number	Reading	Disposal Status	Removed	
	Date	Time						Date	Time

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See following Table entitled "Section 10. Waste in Place, Summary of Waste by Type and Year"

SECTION 10 - WASTE IN PLACE

Summary by Waste Type and Year

Include all active and inactive sections of the landfill. Report waste disposed annually by type, if known, in tons per year. Report total waste disposed, if breakdown of types is not available. In the case where more than one landfill section operated in a given year identify each separately, if known. If the annual amount is not available, report the quantities for a range of years. If you include amounts from old, closed landfills then clearly identify them on the table and explain below. In each row, report quantities disposed each year (or group of years if individual years unknown) for each waste type. Report cumulative WIP at bottom (sum of annual quantities disposed). Add additional sheets as necessary.

Year	MSW (tons)	Asbestos Waste (tons)	Ash (tons)	C&D Debris (tons)	Industrial Waste (tons)	Petroleum Contaminated Soil (tons)	Sewage Treatment Plant Sludge (tons)	Other (tons)	Year(s) Total (tons)	Identify Landfill Section(s) Used
WIP Cumulative Total										

Overall in place volume 8,559,215 cubic yards

Method for determining waste composition, if known. For 1984 through 2017, waste composition are recorded at the scale house. Records are kept on site

Explain if closed landfills are included above Yes, Areas 1 through 4 are closed areas that are included.

Section 10. Waste in Place
Summary of Waste Type and Year
Colonie Landfill

Year	MSW tons	C&D tons	Industrial [3] tons	ADC (BUD)[5] tons	POTW Sludge tons	Road Base (BUD) [4] tons	Total tons	Landfill Section Used
1973	75,825						75,825	Area 1
1974	75,825						75,825	Area 1
1975	75,825						75,825	Area 1
1976	75,825						75,825	Area 1
1977	75,825						75,825	Area 1
1978	75,825						75,825	Area 1
1979	75,825						75,825	Area 1
1980	75,825						75,825	Areas 1,2
1981	75,825						75,825	Area 2
1982	138,680						138,680	Area 2
1983	138,680						138,680	Areas 2, 3
1984	126,272						126,272	Areas 2, 3
1985	153,546						153,546	Areas 2, 3
1986	176,628						176,628	Areas 2, 3
1987	75,410						75,410	Areas 2, 3
1988	102,824						102,824	Areas 2, 3
1989	115,813						115,813	Area 4
1990	89,130						89,130	Area 4
1991	93,810						93,810	Area 4
1992	95,189						95,189	Area 4
1993	121,411						121,411	Area 4
1994	184,487						184,487	Area 4
1995	168,304						168,304	Area 4
1996	150,533						150,533	Area 4, 5
1997	107,717						107,717	Area 5
1998	148,125						148,125	Area 5
1999	148,506						148,506	Area 5
2000	155,991						155,991	Area 5
2001	137,542						137,542	Area 5
2002	151,590						151,590	Area 5
2003	158,243						158,243	Area 5
2004	136,349						136,349	Area 5, 6
2005	164,621						164,621	Area 5, 6
2006	164,621						164,621	Area 5, 6
2007	132,909						132,909	Area 5, 6
2008	134,612	21,277	2,436	63,433	5,758	918	228,434	Area 5, 6
2009	113,145	24,918	2,445	75,049	4,975	1,696	222,228	Area 5, 6
2010	110,732	23,193	4,532	60,068	5,094	1,176	204,794	Area 5, 6
2011	125,261	26,865	5,929	29,590	5,467	12,988	206,100	Area 5, 6
2012	129,535	25,853	5,159	23,784	9,744	7,467	201,542	Area 5, 6
2013	181,783	49,076	10,114	186,673	13,801	36,518	477,966	Area 5, 6
2014	195,149	44,278	4,676	214,521	10,136	38,312	507,071	Area 5, 6
2015	227,384	12,123	3,894	140,176	11,011	30,719	425,307	Area 5, 6
2016	219,798	19,143	3,904	61,809	10,467	31,363	346,484	Area 5, 6
2017	208,852	20,962	6,996	58,306	12,948	29,146	337,210	Area 5, 6
Total	**5,865,606**	**267,687**	**50,086**	**913,408**	**89,402**	**190,302**	**7,376,491**	

Notes:
1. 1973 through 2007 from Landgem model included in 2010 emission statement.
2. 2008 through 2017 from Commodity Breakdown Reports provided by the Town
3. Alum Sludge included with Industrial Waste
4. Road base is concrete and aggregate and crushed glass
5.Alternative Daily Cover (ADC) is primarily Petroleum Contaminated Soils (PCS) from 2008-2012. In 2013-2017, ADC includes PCS, MSW ash, auto shredder fluff, and paper mill sludge.

Waste Summary by Landfill Section

Provide waste in place information for all landfill sections.

Number of landfill sections: 6

Area 5 section used (years) from 1996 to current

Section Footprint 22 acres

Capped with approved final cover system Yes ☐ No ■

Percent capped 0

Waste in Place: _____ Tons _____ Cubic Yards, if known

Area 6 section used (years) from 2004 to current

Section Footprint 22 acres

Capped with approved final cover system Yes ☐ No ■

Percent capped 0

Waste in Place: _____ Tons _____ Cubic Yards, if known

* If there are additional landfill sections, phases or cells, please provide the same waste in place information on additional sheets and attach to form.

SECTION 11 - LANDFILL GAS

Does the landfill have a landfill gas collection & control system?
Yes ■ No ☐ If Yes: Active ■ Passive ☐

Number of gas wells: 144

Total landfill footprint acreage 105.3

Total landfill acreage from which gas is collected 105.3

Landfill sections from which gas is collected Areas 1-6

Landfill acreage from which gas is collected for energy recovery 105.3

Measured Methane Generation Rate*, k 0.05

Measured Potential Methane Generation Capacity*, Lo 170 m3/Mg

NMOC Concentration* 311 ppmv as hexane

Does the landfill require a Title V Permit? Yes ■ No ☐

Name of Landfill Gas Recovery (gas to energy or other use) Facility: IES Colonie

* Note: If Concentration NMOC, Lo and k are not known or included, default values will be used to calculate the NMOCs emissions from the Landfill.

Flare

Open and Enclosed Flares located at the Landfill and the Landfill Gas Recovery Facility:

Number of Flares: 1

Type of Flare: Opened Flare X Enclosed Flare _____

Please report units in cubic feet

Quantity of Gas Collected and Flared Annually 5,986,748 cubic feet
Flare Hours of Operation per Year 116 hours/year
Methane Percentage in Landfill Gas before flaring 49.8 %
Methane Destruction efficiency 98 %

Candlestick Flares:

Number of Candlestick Flares None
Estimate of Gas Flared Candlestick Flare _____ cubic feet

Gas To Energy

Please report units in cubic feet

Number of Internal Combustion Engines: 4

Quantity of Gas collected for Internal Combustion Engine Annually 765,095,227 cubic feet
Methane Destruction efficiency 97 %
Methane Percentage in Landfill Gas before combustion 50.00 %
Utility Company Receiving Electricity National Grid

Gas Processed for Use (Other than gas to electricity)

Quantity of Gas Collected for Processing N/A cubic feet
Methane Percentage in Landfill Gas before processing _____ %
On-site or Off-site User of Gas _____

Landfill Gas Recovery Facility/Landfill Data

Facility Contact Dennis Plaster Phone # (585) 948 - 8580

Contact e-mail address Dennis.Plaster@ariaenergy.com Fax # (_____)_____-_____

Operation and maintenance cost for calendar year: $ Not Provided by Aria Energy

Does the LGRF experience shut downs: ■ Yes ☐ No

If yes, indicate reasons for shut downs. List required submissions that have been attached to this form or the reasons for not attaching a required piece of information:

Utility breaker trips, gas collection system repairs, requests by the utility to shut down plant, facility maintenance, high oxygen trips, high vacuum trips, equipment malfunction and parts replacement.

Year landfill opened: 1973 Anticipated landfill closure date: 2022

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Results of Condensate Sampling

Submit (attached to this form) condensate quality monitoring results accomplished in accordance with condensate sampling. List submissions (required by this section) that have been attached to this form or the reasons for not attaching a required piece of information:

Sampling results not provided by IES.

Landfill Gas Utilized For Energy Recovery

Provide the following information for the landfill gas recovered for energy. **DO NOT INCLUDE THE GAS FLARED!**

	Landfill Gas Collected for Energy Recovery (Cubic Feet)	Steam* Generated (Cubic Feet)	Total Electricity* Generated for onsite and offsite use (K.W.H.)	Total Gas Processed for use other than electricity generation (Cubic Feet)	Condensate Generated (Gallons)	Facility Operation (Hours)
January	62,312,843	NA	3,020,502	NA	(see Note 1)	736
February	60,435,718		2,756,132			668
March	64,279,924		2,972,927			741
April	62,117,253		3,093,592			718
May	64,564,316		2,998,906			730
June	59,419,084		2,991,485			719
July	57,972,865		3,047,331			736
August	61,656,848		3,105,747			738
September	63,874,776		3,155,711			720
October	67,185,415		3,155,404			742
November	68,603,801		3,228,796			719
December	72,672,384		3,291,929			743
ANNUAL TOTAL	765,095,227		36,818,462			8,711

* Provide where applicable.

Normal Weekdays of Operation 7 Normal Hours of Operation 24

Electricity Generated and used/marketed offsite 35,360,462 KWH
Electricity Generated and used onsite 1,458.000 KWH
Gas Processed and used/marketed offsite N/A cubic feet
Gas Processed and used onsite N/A cubic feet

Describe the collection, storage, treatment and disposal techniques used in managing the condensate:
Condensate is drained or pumped from the LFG collection system into the leachate collection system.

Note (1): Condensate from LFG collection and recovery system is returned to primary leachate collection system and is not metered separately

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SECTION 12 - COST ESTIMATES AND FINANCIAL ASSURANCE DOCUMENTS

Are there required cost estimates and financial assurance documents for closure and post-closure care?

☒ Yes ☐ No If yes, attach additional sheets reflecting annual adjustments for inflation and any changes to the Closure Plan? See Attachment 4

SECTION 13 – PROBLEMS

Were any problems encountered during the reporting period (e.g., specific occurrences which have led to changes in facility procedures)?

☒ Yes ☐ No If yes, attach additional sheets identifying each problem and the methods for resolution of the problem.

Note: In July of 2017, NYSDEC provided notice of a number of operational issues related to spring weather conditions at the facility including concerns about odors, cover practices, stormwater management, and leachate control. Responses documenting corrections to these items were provided to NYSDEC in July and August 2017.

SECTION 14 – CHANGES

Were there any changes from approved reports, plans, specifications, and permit conditions?

☐ Yes ☒ No If yes, attach additional sheets identifying changes with a justification for each change.

SECTION 15 - ANALYTICAL RESULTS

Submit (attached to this form) tables showing the sample collection date, the analytical results [including all peaks even if below the Method Detection Limits (MDL)], designation of upgradient wells and location number for each environmental monitoring point sampled, applicable water quality standards, and groundwater protection standards if established, MDL's, and Chemical Abstracts Service (CAS) numbers on all parameters. List submissions (required by this section) that have been attached to this form or the reasons for not attaching a required piece of information:

See Attachment 7 for report entitled "Area 5 Environmental Monitoring" and "Area 6 Environmental Monitoring Quarterly Report" prepared by Arcadis.

SECTION 16 - COMPARING DATA

Submit (attached to this form) tables or graphical representations comparing current water quality with existing water quality and with upgradient water quality. These comparisons may include Piper diagrams, Stiff diagrams, tables, or other analyses. List submissions (required by this section) that have been attached to this form or the reasons for not attaching a required piece of information:

See Attachment 7 for report entitled "Area 6 Environmental Monitoring" and "Area 6 Environmental Monitoring Quarterly Report" prepared by Arcadis.

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SECTION 17 - DISCUSSION OF RESULTS

Submit (attached to this form) a summary of any contraventions of State water quality standards, significant increases in concentrations above existing water quality, any exceedances of groundwater protection standards, and discussion of results, and any proposed modifications to the sampling and analysis schedule necessary to meet the Existing, Operational and Contingency water quality monitoring requirements. List submissions (required by this section) that have been attached to this form or the reasons for not attaching a required piece of information:

See Attachment 7 for report entitled "Area 5 Environmental Monitoring Report" and "Area 6 Environmental Monitoring Quarterly Report" prepared by Arcadis.

SECTION 18 - DATA QUALITY ASSESSMENT

Submit (attached to this form) any required data quality assessment reports. List submissions (required by this section) that have been attached to this form or the reasons for not attaching a required piece of information:

See Attachment 7 for report entitled "Area 5 Environmental Monitoring Report" and "Area 6 Environmental Monitoring Quarterly Report" prepared by Arcadis.

SECTION 19 - SUMMARIES OF MONITORING DATA

Submit (attached to this form) a summary of the water quality information presented in Sections 16 and 17 for the year of operation for which the Annual Report is made, noting any changes in water quality which have occurred throughout the year. List submissions (required by this section) that have been attached to this form or the reasons for not attaching a required piece of information:

See Attachment 7 for report entitled "Area 5 Environmental Monitoring Report" and "Area 6 Environmental Monitoring Quarterly Report" prepared by Arcadis.

SECTION 20 - SURFACE IMPOUNDMENTS

Does this landfill have a surface impoundment?

☒ Yes ☐ No If yes, repeat Sections 15 through 18 above for Quarterly Reports and Section 19 above for Annual report. Attach additional submissions required by this section.

SECTION 21 - PERMIT/CONSENT ORDER REPORTING REQUIREMENTS

Are there any additional permit/consent order reporting requirements not covered by the previous sections of this form?

☒ Yes ☐ No If yes, attach additional sheets identifying the reporting requirements with their respective responses.

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Special Condition 20- Daily Monitoring of Secondary Leachate Collection System- See Attachment 5
Special Condition 23- Written Review of the Contingency Plan- See Attachment 6

SECTION 22 - SIGNATURE AND DATE BY OWNER OR OPERATOR

Owner or Operator must sign, date and submit the completed form by email or mail to the appropriate Regional Office (See attachment for Regional Office email & mailing addresses and Solid Waste Contacts.)

The Owner or Operator must also submit one copy by email, fax or mail to:

New York State Department of Environmental Conservation
Division of Materials Management
Bureau of Permitting and Planning
625 Broadway
Albany, New York 12233-7260
Fax 518-402-9041
Email address: SWMFannualreport@dec.ny.gov

I hereby affirm under penalty of perjury that information provided on this form and attached statements and exhibits was prepared by me or under my supervision and direction and is true to the best of my knowledge and belief, and that I have the authority to sign this report form pursuant to 6 NYCRR Part 360. I am aware that any false statement made herein is punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.

Signature	2/28/18 Date
Corey Judd Name (Print or Type)	District Manager Title (Print or Type)
coreyj@wasteconnections.com Email (Print or Type)	
1319 Loudon Road Address	Cohoes City
New York 12047 State and Zip	(518) 783 - 2827 Phone Number

ATTACHMENTS: ☒ YES ☐ NO
(Please check appropriate line)

Reprinted (12/17)

Attachment 1
Maintenance Logs of Annual Flushing of the Primary LCS

Corbett Industrial Cleaning Services Inc. 2017 leachate Line Cleaning

Project No: _____ Site Location: The Colonie Landfill Date: 6/21/17 - 6/29/17

Customer: Waste Connections PIM Techs: Craig Corbett MA, CA, RC Weather: Overcaste most of the week

Location Cell / Street	Line Segment MH No. to MH No.		Pipe Diameter	Pipe Type	Total Length Linear Footage	Total Linear Footage Cleaned	No. of Passes	Water Used Total Gallons	Total Gallons Leachate Vac.
Cell 5	CO A	MH A	8"	HDPE	1000	900	2	1000	600-700
Cell 5	CO B	MH B	8"	HDPE	1000	900	2	1000	600-700
Cell 5	CO C	MH C	8"	HDPE	1000	900	2	1000	600-700
Cell 5	CO D	MH D	8"	HDPE	1000	900	2	1000	1500-1700
Cell 5	CO E	MH E	8"	HDPE	1000	900	2	1000	1500-1700
Cell 6	A	West Sideriser	8"	HDPE	1000	900	2	1000	0
Cell 6	B	West Sideriser	8"	HDPE	1000	900	2	1000	0
Cell 6	C	West Sideriser	8"	HDPE	1000	900	2	1000	0
Cell 6	D	West Sideriser	8"	HDPE	1000	900	6	2400-3000	Removed cable ball from approx-500lf from Cleanout
Pigging	lagoon PS	Fonda Ave	4"	HDPE	5800lf	5800		4000 to 6000 gallons of leachate	

Page _____of _____

Attachment 2
Origin Tables for Beneficial Use Materials

2017 ROAD BASE BY ORIGIN

ORIGIN	COUNTY	MATERIAL	WEIGHT (Tons)
ALBANY	Albany	ROAD BASE	1307.45
BETHLEHEM	Albany	ROAD BASE	12.19
COHOES	Albany	ROAD BASE	107.69
COLONIE TOWN	Albany	ROAD BASE	1097.85
COLONIE VILLAGE	Albany	ROAD BASE	2.79
DELMAR	Albany	ROAD BASE	20.86
GREEN ISLAND	Albany	ROAD BASE	0.15
LATHAM	Albany	ROAD BASE	47.18
MENANDS	Albany	ROAD BASE	32.08
SELKIRK	Albany	ROAD BASE	0.61
SLINGERLANDS	Albany	ROAD BASE	12.49
WATERVLIET	Albany	ROAD BASE	73.77
ALBANY COUNTY SUB TOTAL			**2,715.11**
SARANAC LAKE	Essex	ROAD BASE	12.70
ESSEX COUNTY SUB TOTAL			**12.70**
EAST GREENBUSH	Rensselaer	ROAD BASE	140.44
POESTENKILL	Rensselaer	ROAD BASE	0.87
RENSSELAER	Rensselaer	ROAD BASE	165.22
SCHAGHTICOKE	Rensselaer	ROAD BASE	7.52
TROY	Rensselaer	ROAD BASE	44.13
RENSSELAER COUNTY SUB TOTAL			**358.18**
BALSTON	Saratoga	ROAD BASE	1.14
BALSTON SPA	Saratoga	ROAD BASE	7.60
CLIFTON PARK	Saratoga	ROAD BASE	307.34
MALTA	Saratoga	ROAD BASE	0.63
MECHANICVILLE	Saratoga	ROAD BASE	164.07
SARATOGA	Saratoga	ROAD BASE	137.87
SARATOGA SPRINGS	Saratoga	ROAD BASE	12.99
WATERFORD	Saratoga	ROAD BASE	5.88
SARATOGA COUNTY SUB TOTAL			**637.52**
GLENVILLE	Schenectady	ROAD BASE	10.97
NISKAYUNA	Schenectady	ROAD BASE	17.80
ROTTERDAM	Schenectady	ROAD BASE	1.95
SCHENECTADY	Schenectady	ROAD BASE	377.15
SCHENECTADY COUNTY SUB TOTAL			**407.87**
ROAD BASE TOTAL			**4,131.38**

2017 CRUSHED GLASS BY ORIGIN

ORIGIN	COUNTY	MATERIAL	WEIGHT (Tons)
ALBANY	Albany	IC_GLASS	25005.81
ALBANY COUNTY SUB TOTAL			**25,005.81**
SCHENECTADY	Schenectady	IC_GLASS	8.84

2017 PCS BY ORIGIN

ORIGIN	COUNTY	MATERIAL	WEIGHT (Tons)
ALBANY	Albany	PCS	1,026.54
COHOES	Albany	PCS	322.49
FEURA BUSH	Albany	PCS	181.63
ALBANY COUNTY SUB TOTAL			**1,530.66**
CHATHAM	Columbia	PCS	33.32
ELIZAVILLE	Columbia	PCS	246.13
HILLSDALE	Columbia	PCS	284.83
HUDSON	Columbia	PCS	89.89
COLUMBIA COUNTY SUB TOTAL			**654.17**
RHINEBECK	Dutchess	PCS	95.34
DUTCHESS COUNTY SUB TOTAL			**95.34**
TUPPER LAKE	Franklin	PCS	28.97
FRANKLIN COUNTY SUB TOTAL			**28.97**
ASHLAND	Greene	PCS	77.59
CAIRO	Greene	PCS	10.20
HUNTER	Greene	PCS	45.62
NEW BALTIMORE	Greene	PCS	51.74
TANNERSVILLE	Greene	PCS	15.42
WINDHAM	Greene	PCS	463.08
GREENE COUNTY SUB TOTAL			**663.65**
GOSHEN	Orange	PCS	3.67
MIDDLETOWN	Orange	PCS	89.78
MONTGOMERY	Orange	PCS	525.54
ORANGE COUNTY SUB TOTAL			**618.99**
NASSAU	Rensselaer	PCS	8.65
RENSSELAER	Rensselaer	PCS	14.03
VALLEY FALLS	Rensselaer	PCS	4.33
RENSSELAER COUNTY SUB TOTAL			**27.01**
BALSTON SPA	Saratoga	PCS	4.59
CLIFTON PARK	Saratoga	PCS	13.64
SARATOGA	Saratoga	PCS	67.75
WATERFORD	Saratoga	PCS	3.32
WEST MILTON	Saratoga	PCS	123.87
SARATOGA COUNTY SUB TOTAL			**213.17**
SCOTIA	Schenectady	PCS	2.95
SCHENECTADY COUNTY SUB TOTAL			**2.95**
MONTICELLO	Sullivan	PCS	4.56
SULLIVAN COUNTY SUB TOTAL			**4.56**
NEW PALTZ	Ulster	PCS	170.71
SAUGERTIES	Ulster	PCS	444.77
WEST HURLEY	Ulster	PCS	98.36
WOODSTOCK	Ulster	PCS	21.75
ULSTER COUNTY SUB TOTAL			**735.59**
WHITEHALL	Washington	PCS	102.52
WASHINGTON COUNTY SUB TOTAL			**102.52**
MAMARONECK	Westchester	PCS	610.41
OSSINING	Westchester	PCS	349.76
WHITE PLAINS	Westchester	PCS	410.85
WESTCHESTER COUNTY SUB TOTAL			**1,371.02**
PCS TOTAL			**6,048.60**

2017 ASH AND ASR BY ORIGIN

ORIGIN	COUNTY	MATERIAL	WEIGHT (Tons)
POUGHKEEPSIE	Dutchess	INCIN ASH	50792.46
DUTCHESS COUNTY SUB TOTAL			**50,792.46**
ASH TOTAL			**50,792.46**

ORIGIN	COUNTY	MATERIAL	WEIGHT (Tons)
GREENFIELD, MA	Franklin, MA	AUTO_FLUFF	1464.63
FRANKLIN, MA COUNTY SUB TOTAL			**1,464.63**
ASR TOTAL			**1,464.63**

Attachment 3
Origin Tables for Solid Waste Disposed

2017 DEMOLITION BY ORIGIN

ORIGIN	COUNTY	MATERIAL	WEIGHT (Tons)
ALBANY	Albany	DEMO	1,128.08
ALTAMONT	Albany	DEMO	0.74
BETHLEHEM	Albany	DEMO	26.11
COEYMANS	Albany	DEMO	3.74
COHOES	Albany	DEMO	1,281.78
COLONIE TOWN	Albany	DEMO	5,353.15
COLONIE VILLAGE	Albany	DEMO	89.88
DELMAR	Albany	DEMO	5.51
EAST BERNE	Albany	DEMO	1.40
GLENMONT	Albany	DEMO	11.69
GREEN ISLAND	Albany	DEMO	510.93
GUILDERLAND	Albany	DEMO	2,200.72
LATHAM	Albany	DEMO	591.73
MENANDS	Albany	DEMO	13.28
NEW SCOTLAND	Albany	DEMO	7.17
RAVENA	Albany	DEMO	15.47
SELKIRK	Albany	DEMO	6.52
VOORHEESVILLE	Albany	DEMO	6.28
WATERVLIET	Albany	DEMO	731.62
WESTERLO	Albany	DEMO	1.41
ALBANY COUNTY SUB TOTAL			**11,987.21**
CHATHAM	Columbia	DEMO	0.95
HUDSON	Columbia	DEMO	0.62
COLUMBIA COUNTY SUB TOTAL			**1.57**
HOPEWELL JUNCTION	Dutchess	DEMO	1979.73
MILLERTON	Dutchess	DEMO	0.21
PLEASANT VALLEY	Dutchess	DEMO	0.21
DUTCHESS COUNTY SUB TOTAL			**1,980.15**
SARANAC LAKE	Essex	DEMO	16.23
ESSEX COUNTY SUB TOTAL			**16.23**
JOHNSTOWN	Fulton	DEMO	2.60
FULTON COUNTY SUB TOTAL			**2.60**
CATSKILL	Greene	DEMO	2.11
CHARLTON	Greene	DEMO	8.58
COXSACKIE	Greene	DEMO	2.42
GREENVILLE	Greene	DEMO	1.59
PRATTSVILLE	Greene	DEMO	6.01
WINDHAM	Greene	DEMO	2.52
GREENE COUNTY SUB TOTAL			**23.23**
AMSTERDAM	Montgomery	DEMO	0.19
MONTGOMERY COUNTY SUB TOTAL			**0.19**
BERLIN	Rensselaer	DEMO	25.06
BRUNSWICK	Rensselaer	DEMO	28.68
CASTLETON	Rensselaer	DEMO	2.73
EAST GREENBUSH	Rensselaer	DEMO	33.48
HOOSICK FALLS	Rensselaer	DEMO	30.62
MELROSE	Rensselaer	DEMO	11.39
NASSAU	Rensselaer	DEMO	11.95
NORTH GREENBUSH	Rensselaer	DEMO	8.83
PETERSBURG	Rensselaer	DEMO	0.60
POESTENKILL	Rensselaer	DEMO	26.48
RENSSELAER	Rensselaer	DEMO	190.50
SAND LAKE	Rensselaer	DEMO	52.84
SCHAGHTICOKE	Rensselaer	DEMO	37.55

** Note: The weights isted include Resident as well as Commercial loads.*

2017 DEMOLITION BY ORIGIN

ORIGIN	COUNTY	MATERIAL	WEIGHT (Tons)
SCHODACK	Rensselaer	DEMO	11.93
STEPHENTOWN	Rensselaer	DEMO	0.46
TROY	Rensselaer	DEMO	666.37
VALLEY FALLS	Rensselaer	DEMO	1.63
WYNANTSKILL	Rensselaer	DEMO	45.60
RENSSELAER COUNTY SUB TOTAL			**1,186.70**
BALSTON	Saratoga	DEMO	21.06
BALSTON SPA	Saratoga	DEMO	57.27
BURNT HILLS	Saratoga	DEMO	16.12
CLIFTON PARK	Saratoga	DEMO	3183.45
CORINTH	Saratoga	DEMO	0.98
GALWAY	Saratoga	DEMO	4.77
HALFMOON	Saratoga	DEMO	446.58
MALTA	Saratoga	DEMO	64.25
MECHANICVILLE	Saratoga	DEMO	195.43
MILTON	Saratoga	DEMO	5.00
SARATOGA	Saratoga	DEMO	204.39
SARATOGA SPRINGS	Saratoga	DEMO	36.78
SCHUYLERVILLE	Saratoga	DEMO	0.17
STILLWATER	Saratoga	DEMO	20.74
WATERFORD	Saratoga	DEMO	312.27
WEST MILTON	Saratoga	DEMO	171.25
SARATOGA COUNTY SUB TOTAL			**4,740.51**
DUANESBURG	Schenectady	DEMO	0.18
GLENVILLE	Schenectady	DEMO	27.22
NISKAYUNA	Schenectady	DEMO	149.03
ROTTERDAM	Schenectady	DEMO	79.18
SCHENECTADY	Schenectady	DEMO	491.09
SCOTIA	Schenectady	DEMO	230.74
SCHENECTADY COUNTY SUB TOTAL			**977.44**
COBLESKILL	Schoharie	DEMO	1.94
SCHOHARIE COUNTY SUB TOTAL			**1.94**
KINGSTON	Ulster	DEMO	31.19
ULSTER PARK	Ulster	DEMO	1.28
ULSTER COUNTY SUB TOTAL			**32.47**
GLENS FALLS	Warren	DEMO	1.06
QUEENSBURY	Warren	DEMO	1.27
WARREN COUNTY SUB TOTAL			**2.33**
FORT ANN	Washington	DEMO	8.61
FORT EDWARD	Washington	DEMO	0.32
WASHINGTON COUNTY SUB TOTAL			**8.93**
DEMO TOTAL			**20,961.50**

** Note: The weights isted include Resident as well as Commercial loads.*

2017 INDUSTRIAL WASTE AND ALUM SLUDGE BY ORIGIN

ORIGIN	COUNTY	MATERIAL	WEIGHT (Tons)
ALBANY	Albany	IND	4140.54
ALTAMONT	Albany	IND	23.18
COHOES	Albany	IND	152.00
COLONIE TOWN	Albany	IND	1157.25
DELMAR	Albany	IND	12.51
FEURA BUSH	Albany	IND	22.76
GLENMONT	Albany	IND	42.10
SELKIRK	Albany	IND	97.77
WATERVLIET	Albany	IND	18.33
ALBANY COUNTY SUB TOTAL			**5,666.44**
GERMANTOWN	Columbia	IND	10.51
COLUMBIA COUNTY SUB TOTAL			**10.51**
BROADALBIN	Fulton	IND	55.17
JOHNSTOWN	Fulton	IND	29.79
FULTON COUNTY SUB TOTAL			**84.96**
ATHENS	Greene	IND	20.66
GREENE COUNTY SUB TOTAL			**20.66**
MONTGOMERY	Orange	IND	9.14
ORANGE COUNTY SUB TOTAL			**9.14**
HOOSICK FALLS	Rensselaer	IND	79.15
RENSSELAER	Rensselaer	IND	3.09
TROY	Rensselaer	IND	210.08
RENSSELAER COUNTY SUB TOTAL			**292.32**
BALSTON	Saratoga	IND	0.14
BALSTON SPA	Saratoga	IND	0.32
CLIFTON PARK	Saratoga	IND	29.48
MECHANICVILLE	Saratoga	IND	6.75
SARATOGA	Saratoga	IND	10.95
WATERFORD	Saratoga	IND	7.96
SARATOGA COUNTY SUB TOTAL			**55.60**
ROTTERDAM	Schenectady	IND	297.25
SCHENECTADY COUNTY SUB TOTAL			**297.25**
SCHOHARIE	Schoharie	IND	8.71
SCHOHARIE COUNTY SUB TOTAL			**8.71**
INDUSTRIAL WASTE ONLY TOTAL			**6,445.59**
COLONIE TOWN	Albany	ALUM SLUD.	550.77
ALBANY COUNTY ALUM SLUDGE SUB TOTAL			**550.77**
ALUM SLUDGE ONLY TOTAL			**550.77**
ALBANY COUNTY SUB TOTAL INDUSTRIAL & ALUM SLUDGE			**6,217.21**
INDUSTRIAL & ALUM SLUDGE WASTE TOTAL			**6,996.36**

2017 MSW BY ORIGIN

ORIGIN	COUNTY	MATERIAL	WEIGHT (Tons)
ALBANY	Albany	GARBAGE	24,962.08
ALTAMONT	Albany	GARBAGE	41.68
BETHLEHEM	Albany	GARBAGE	194.92
COEYMANS	Albany	GARBAGE	50.93
COHOES	Albany	GARBAGE	6,165.78
COLONIE TOWN	Albany	GARBAGE	14,089.58
COLONIE VILLAGE	Albany	GARBAGE	2,886.42
DELMAR	Albany	GARBAGE	18.31
GLENMONT	Albany	GARBAGE	25.25
GUILDERLAND	Albany	GARBAGE	677.64
LATHAM	Albany	GARBAGE	918.26
MENANDS	Albany	GARBAGE	873.79
NEW SCOTLAND	Albany	GARBAGE	2.48
RAVENA	Albany	GARBAGE	27.07
SELKIRK	Albany	GARBAGE	330.35
SLINGERLANDS	Albany	GARBAGE	10.89
WATERVLIET	Albany	GARBAGE	294.79
ALBANY COUNTY SUB TOTAL			**51,570.22**
HUDSON	Columbia	GARBAGE	39.78
COLUMBIA COUNTY SUB TOTAL			**39.78**
POUGHKEEPSIE	Dutchess	GARBAGE	557.30
DUTCHESS COUNTY SUB TOTAL			**557.30**
SARANAC LAKE	Essex	GARBAGE	36.11
ESSEX COUNTY SUB TOTAL			**36.11**
CAIRO	Greene	GARBAGE	14.40
CATSKILL	Greene	GARBAGE	3.42
COXSACKIE	Greene	GARBAGE	60.80
GREENVILLE	Greene	GARBAGE	10.01
GREENE COUNTY SUB TOTAL			**88.63**
WEST HAVEN, CT	New Haven, CT	GARBAGE	9.65
NEW HAVEN, CT COUNTY SUB TOTAL			**9.65**
UTICA	Oneida	GARBAGE	15.50
ONEIDA COUNTY SUB TOTAL			**15.50**
WORCESTER	Otsego	GARBAGE	18.12
OTSEGO COUNTY SUB TOTAL			**18.12**
BERLIN	Rensselaer	GARBAGE	51.07
BRUNSWICK	Rensselaer	GARBAGE	1,334.27
EAST GREENBUSH	Rensselaer	GARBAGE	341.72
HOOSICK FALLS	Rensselaer	GARBAGE	529.72
PETERSBURG	Rensselaer	GARBAGE	72.42
POESTENKILL	Rensselaer	GARBAGE	4.54
RENSSELAER	Rensselaer	GARBAGE	268.77
SAND LAKE	Rensselaer	GARBAGE	39.78
SCHAGHTICOKE	Rensselaer	GARBAGE	19.88
SCHODACK	Rensselaer	GARBAGE	729.80
TROY	Rensselaer	GARBAGE	69,842.47
WYNANTSKILL	Rensselaer	GARBAGE	0.17
RENSSELAER COUNTY SUB TOTAL			**73,234.61**

** Note: The weights listed include Resident as well as Commercial Loads*

2017 MSW BY ORIGIN

ORIGIN	COUNTY	MATERIAL	WEIGHT (Tons)
BALSTON	Saratoga	GARBAGE	0.23
BALSTON SPA	Saratoga	GARBAGE	24.55
CLIFTON PARK	Saratoga	GARBAGE	76,958.51
HALFMOON	Saratoga	GARBAGE	298.79
MALTA	Saratoga	GARBAGE	14.72
MECHANICVILLE	Saratoga	GARBAGE	85.08
SARATOGA	Saratoga	GARBAGE	421.52
STILLWATER	Saratoga	GARBAGE	50.58
WATERFORD	Saratoga	GARBAGE	112.43
SARATOGA COUNTY SUB TOTAL			**77,966.41**
GLENVILLE	Schenectady	GARBAGE	26.67
NISKAYUNA	Schenectady	GARBAGE	108.27
ROTTERDAM	Schenectady	GARBAGE	137.62
SCHENECTADY	Schenectady	GARBAGE	783.61
SCOTIA	Schenectady	GARBAGE	159.94
SCHENECTADY COUNTY SUB TOTAL			**1,216.11**
NAPANOCH	Ulster	GARBAGE	12.33
SAUGERTIES	Ulster	GARBAGE	2.74
ULSTER COUNTY SUB TOTAL			**15.07**
FORT ANN	Washington	GARBAGE	4,063.68
WASHINGTON COUNTY SUB TOTAL			**4,063.68**
WORCESTER, MA	Worcester, MA	GARBAGE	20.74
WORCESTER, MA COUNTY SUB TOTAL			**20.74**
MSW TOTAL			**208,851.93**

** Note: The weights listed include Resident as well as Commercial Loads*

2017 POTW SLUDGE BY ORIGIN

ORIGIN	COUNTY	MATERIAL	WEIGHT (Tons)
ALBANY	Albany	SS GRIT	30.08
COLONIE TOWN	Albany	SS GRIT	5808.96
GUILDERLAND	Albany	SS GRIT	53.37
LATHAM	Albany	SS GRIT	84.49
ALBANY COUNTY SUB TOTAL			**5,976.90**
AMENIA	Dutchess	SS GRIT	7.74
DUTCHESS COUNTY SUB TOTAL			**7.74**
ATHENS	Greene	SS GRIT	123.42
GREENE COUNTY SUB TOTAL			**123.42**
AMSTERDAM	Montgomery	SS GRIT	111.97
FONDA	Montgomery	SS GRIT	1838.65
MONTGOMERY COUNTY SUB TOTAL			**1,950.62**
EAST GREENBUSH	Rensselaer	SS GRIT	149.97
RENSSELAER	Rensselaer	SS GRIT	2841.73
TROY	Rensselaer	SS GRIT	896.83
RENSSELAER COUNTY SUB TOTAL			**3,888.53**
CLIFTON PARK	Saratoga	SS GRIT	289.29
CORINTH	Saratoga	SS GRIT	6.77
MECHANICVILLE	Saratoga	SS GRIT	203.35
WATERFORD	Saratoga	SS GRIT	26.18
SARATOGA COUNTY SUB TOTAL			**525.59**
GLENS FALLS	Warren	SS GRIT	169.99
WARREN COUNTY SUB TOTAL			**169.99**
COMSTOCK	Washington	SS GRIT	305.42
WASHINGTON COUNTY SUB TOTAL			**305.42**
POTW SLUDGE TOTAL			**12,948.21**

2017
COUNTY ORIGIN SUMMARY

COMMODITY		Percent by County	% of Total by County
DEMO			
ALBANY COUNTY SUB TOTAL	**11,987.21**	**57.187%**	**3.555%**
COLUMBIA COUNTY SUB TOTAL	**1.57**	**0.007%**	**0.000%**
DUTCHESS COUNTY SUB TOTAL	**1,980.15**	**9.447%**	**0.587%**
ESSEX COUNTY SUB TOTAL	**16.23**	**0.077%**	**0.005%**
FULTON COUNTY SUB TOTAL	**2.60**	**0.012%**	**0.001%**
GREENE COUNTY SUB TOTAL	**23.05**	**0.110%**	**0.007%**
MONTGOMERY COUNTY SUB TOTAL	**0.19**	**0.001%**	**0.000%**
RENSSELAER COUNTY SUB TOTAL	**1,186.70**	**5.661%**	**0.352%**
SARATOGA COUNTY SUB TOTAL	**4,740.69**	**22.616%**	**1.406%**
SCHENECTADY COUNTY SUB TOTAL	**977.44**	**4.663%**	**0.290%**
SCHOHARIE COUNTY SUB TOTAL	**1.94**	**0.009%**	**0.001%**
ULSTER COUNTY SUB TOTAL	**32.47**	**0.155%**	**0.010%**
WARREN COUNTY SUB TOTAL	**2.33**	**0.011%**	**0.001%**
WASHINGTON COUNTY SUB TOTAL	**8.93**	**0.043%**	**0.003%**
DEMO TOTAL	**20,961.50**	**100.000%**	**6.216%**

PCS			
ALBANY COUNTY SUB TOTAL	**1,530.66**	**25.306%**	**0.454%**
COLUMBIA COUNTY SUB TOTAL	**654.17**	**10.815%**	**0.194%**
DUTCHESS COUNTY SUB TOTAL	**95.34**	**1.576%**	**0.028%**
FRANKLIN COUNTY SUB TOTAL	**28.97**	**0.479%**	**0.009%**
GREENE COUNTY SUB TOTAL	**663.65**	**10.972%**	**0.197%**
ORANGE COUNTY SUB TOTAL	**618.99**	**10.234%**	**0.184%**
RENSSELAER COUNTY SUB TOTAL	**27.01**	**0.447%**	**0.008%**
SARATOGA COUNTY SUB TOTAL	**213.17**	**3.524%**	**0.063%**
SCHENECTADY COUNTY SUB TOTAL	**2.95**	**0.049%**	**0.001%**
SULLIVAN COUNTY SUB TOTAL	**4.56**	**0.075%**	**0.001%**
ULSTER COUNTY SUB TOTAL	**735.59**	**12.161%**	**0.218%**
WASHINGTON COUNTY SUB TOTAL	**102.52**	**1.695%**	**0.030%**
WESTCHESTER COUNTY SUB TOTAL	**1,371.02**	**22.667%**	**0.407%**
PCS TOTAL	**6,048.60**	**100.000%**	**1.794%**

2017
COUNTY ORIGIN SUMMARY

COMMODITY		Percent by County	% of Total by County
MSW			
ALBANY COUNTY SUB TOTAL	51,570.22	24.692%	15.293%
COLUMBIA COUNTY SUB TOTAL	39.78	0.019%	0.012%
DUTCHESS COUNTY SUB TOTAL	557.30	0.267%	0.165%
ESSEX COUNTY SUB TOTAL	36.11	0.017%	0.011%
GREENE COUNTY SUB TOTAL	88.63	0.042%	0.026%
NEW HAVEN, CT COUNTY SUB TOTAL	9.65	0.005%	0.003%
ONEIDA COUNTY SUB TOTAL	15.50	0.007%	0.005%
OTSEGO COUNTY SUB TOTAL	18.12	0.009%	0.005%
RENSSELAER COUNTY SUB TOTAL	73,234.61	35.065%	21.718%
SARATOGA COUNTY SUB TOTAL	77,966.41	37.331%	23.121%
SCHENECTADY COUNTY SUB TOTAL	1,216.11	0.582%	0.361%
ULSTER COUNTY SUB TOTAL	15.07	0.007%	0.004%
WASHINGTON COUNTY SUB TOTAL	4,063.68	1.946%	1.205%
WORCESTER, MA COUNTY SUB TOTAL	20.74	0.010%	0.006%
MSW TOTAL	**208,851.93**	100.000%	61.935%

INDUSTRIAL & ALUM SLUDGE			
ALBANY COUNTY SUB TOTAL INDUSTRIAL & ALUM SLUDGE	6,217.21	88.863%	1.844%
COLUMBIA COUNTY SUB TOTAL INDUSTRIAL	10.51	0.150%	0.003%
FULTON COUNTY SUB TOTAL INDUSTRIAL	84.96	1.214%	0.025%
GREENE COUNTY SUB TOTAL INDUSTRIAL	20.66	0.295%	0.006%
ORANGE COUNTY SUB TOTAL INDUSTRIAL	9.14	0.131%	0.003%
RENSSELAER COUNTY SUB TOTAL INDUSTRIAL	292.32	4.178%	0.087%
SARATOGA COUNTY SUB TOTAL INDUSTRIAL	55.60	0.795%	0.016%
SCHENECTADY COUNTY SUB TOTAL INDUSTRIAL	297.25	4.249%	0.088%
SCHOHARIE COUNTY SUB TOTAL INDUSTRIAL	8.71	0.124%	0.003%
INDUSTRIAL & ALUM SLUDGE TOTAL	**6,996.36**	100.000%	2.075%

POTW SLUDGE			
ALBANY COUNTY SUB TOTAL	5,976.90	46.160%	1.772%
DUTCHESS COUNTY SUB TOTAL	7.74	0.060%	0.002%
GREENE COUNTY SUB TOTAL	123.42	0.953%	0.037%
MONTGOMERY COUNTY SUB TOTAL	1,950.62	15.065%	0.578%
RENSSELAER COUNTY SUB TOTAL	3,888.53	30.031%	1.153%
SARATOGA COUNTY SUB TOTAL	525.59	4.059%	0.156%
WARREN COUNTY SUB TOTAL	169.99	1.313%	0.050%
WASHINGTON COUNTY SUB TOTAL	305.42	2.359%	0.091%
POTW SLUDGE TOTAL	**12,948.21**	100.000%	3.840%

2017
COUNTY ORIGIN SUMMARY

COMMODITY		Percent by County	% of Total by County
ROAD BASE			
ALBANY COUNTY SUB TOTAL	**2,715.11**	**65.719%**	**0.805%**
ESSEX COUNTY SUB TOTAL	**12.70**	**0.307%**	**0.004%**
RENSSELAER COUNTY SUB TOTAL	**358.18**	**8.670%**	**0.106%**
SARATOGA COUNTY SUB TOTAL	**637.52**	**15.431%**	**0.189%**
SCHENECTADY COUNTY SUB TOTAL	**407.87**	**9.872%**	**0.121%**
ROAD BASE TOTAL	**4,131.38**	**100.000%**	**1.225%**

ASH			
DUTCHESS COUNTY SUB TOTAL	**50,792.46**	**100.000%**	**15.063%**
ASH TOTAL	**50,792.46**	**100.000%**	**15.063%**

ASR			
FRANKLIN, MA COUNTY SUB TOTAL	**1,464.63**	**100.000%**	**0.434%**
ASR TOTAL	**1,464.63**	**100.000%**	**0.434%**

CRUSHED GLASS			
ALBANY COUNTY SUB TOTAL	**25,005.81**	**99.965%**	**7.416%**
SCHENECTADY COUNTY SUB TOTAL	**8.84**	**0.035%**	**0.003%**
CRUSHED GLASS TOTAL	**25,014.65**	**100.000%**	**7.418%**

GRAND TOTAL ALL COMMODITIES	**337,209.72**

2017
COUNTY ORIGIN SUMMARY

TOTAL WASTE PERCENTAGE BY COUNTY	COUNTY TOTAL TONNAGE	COUNTY % OF TOTAL TONNAGE
ALBANY COUNTY TOTAL ALL COMMODITIES	105,003.12	31.139%
COLUMBIA COUNTY TOTAL ALL COMMODITIES	706.03	0.209%
DUTCHESS COUNTY TOTAL ALL COMMODITIES	53,432.99	15.846%
ESSEX COUNTY TOTAL ALL COMMODITIES	65.04	0.019%
FRANKLIN COUNTY TOTAL ALL COMMODITIES	28.97	0.009%
FRANKLIN, MA COUNTY TOTAL ALL COMMODITIES	1,464.63	0.434%
FULTON COUNTY TOTAL ALL COMMODITIES	87.56	0.026%
GREENE COUNTY TOTAL ALL COMMODITIES	919.41	0.273%
MONTGOMERY COUNTY ALL COMMODITIES	1,950.81	0.579%
NEW HAVEN, CT COUNTY TOTAL ALL COMMODITIES	9.65	0.003%
ONEIDA COUNTY TOTAL ALL COMMODITIES	15.50	0.005%
ORANGE COUNTY TOTAL ALL COMMODITIES	628.13	0.186%
OTSEGO COUNTY TOTAL ALL COMMODITIES	18.12	0.005%
RENSSELAER COUNTY TOTAL ALL COMMODITIES	78,987.35	23.424%
SARATOGA COUNTY TOTAL ALL COMMODITIES	84,138.98	24.952%
SCHENECTADY COUNTY TOTAL ALL COMMODITIES	2,910.46	0.863%
SCHOHARIE COUNTY TOTAL ALL COMMODITIES	10.65	0.003%
SULLIVAN COUNTY TOTAL ALL COMMODITIES	4.56	0.001%
ULSTER COUNTY TOTAL ALL COMMODITIES	783.13	0.232%
WARREN COUNTY TOTAL ALL COMMODITIES	172.32	0.051%
WASHINGTON COUNTY TOTAL ALL COMMODITIES	4,480.55	1.329%
WESTCHESTER COUNTY TOTAL ALL COMMODITIES	1,371.02	0.407%
WORCESTER, MA COUNTY TOTAL ALL COMMODITIES	20.74	0.006%
TOTAL	337,209.72	100.000%

Attachment 4
Closure and Post-Closure Cost Estimate Documentation

cornerstone
environmental

1200 Scottsville Road, Building C, Suite 320, Rochester, NY 14624
T 877.294.9010 | F 585.563.6582 | W www.cornerstoneeg.com

February 8, 2018

Mr. Matt McGarry, P.E.
Town of Colonie Public Operations Center
Department of Public Works
347 Old Niskayuna Rd.
Latham, NY 12110-2289

Re: 2018 Closure and Post-Closure Cost Estimates
Town of Colonie Landfill
Colonie, New York

Dear Matt:

As requested, Cornerstone Engineering and Land Surveying, PLLC (Cornerstone) has reviewed and updated the closure and post-closure cost estimates for the various areas (Areas 2 through 6) of the Colonie Landfill in the Town of Colonie, New York.

The purpose of this update is present and post-closure cost estimates for the various areas of the Colonie Landfill in 2018 dollars. This has been accomplished by applying a cost index for inflation to the 2013 estimates to determine a January 2018 estimate closure construction and post-closure maintenance. The cost indexes applied to establish the January 2018 estimate, which are from the Average Annual Consumer Price Index (CPI) for Northeast Urban, are 1.4%, 1.4%, -0.1%,1.1%, and 1.8% for 2013, 2014, 2015, 2016, and 2017 respectively (i.e., 1.4% CPI applied to the 2013 cost to obtain 2014 cost estimate, 1.4% CPI applied to 2014 cost estimate to obtain 2015 cost estimate, -0.1% CPI applied to the 2015 to obtain 2016 cost estimate, 1.1% CPI applied to the 2016 cost estimate to obtain the 2017 cost estimate, and a 1.8% CPI applied to the 2017 cost estimate to obtain the 2018 cost estimate). It should be noted that the overall costing assumptions (e.g., assumed cap system and post-closure leachate generation rates) continue to be generally consistent with the approach used in the estimates provided in our June 30, 2012 letter (2012 Closure and Post-Closure Estimates).

CLOSURE COST ESTIMATES

A current cost estimate has been developed for the closure of Areas 5 and 6 of the Town of Colonie Landfill. It is assumed the cap system used in the future will be generally consistent with the cap systems presented in the most current approved plan set for the respective Area. For Area 5 we assumed the cap system presented in the plan set titled "Area 5 Partial Landfill Closure Construction Contract Drawings", by Malcolm Pirnie and dated February, 2008, would be installed. For Area 6 we assumed the cap system presented in the plan set titled "NYCRR Part 360 Permit Application – Area 6 Lateral Landfill Expansion" by Malcolm Pirnie and dated October 2001, would be installed. For Area 5 it was assumed that the intermediate

cover, which has been installed over much of the site, will only require surface preparation during cap construction.

We have estimated the closure cost estimate with the following items for Area 5:

- 12" Intermediate Cover Layer Preparation
- Separation Fabric (16 oz. non-woven)
- Geocomposite Gas Venting Layer (12" clean sand)
- Geosynthetic Clay Liner - GCL (plateau areas only)
- 60 Mil Textured LLDPE Geomembrane
- Geocomposite Drainage Layer
- 12" Barrier Protection Layer General Soil Fill
- 6" Topsoil Layer
- Seed and Mulch (includes installation)
- Drainage Controls (includes installation)

We have estimated the closure cost estimate with the following items for Area 6:

- Separation Fabric (16 oz. non-woven)
- 12" Intermediate Cover Layer General Soil Fill
- Geosynthetic Clay Liner - GCL (plateau areas only)
- 60 Mil Textured LLDPE Geomembrane
- Geocomposite Drainage Layer
- 12" Barrier Protection Layer General Soil Fill
- 6" Topsoil Layer
- Seed and Mulch (includes installation)
- Drainage Controls (includes installation)

Unit rates for the estimates were based on a combination of recent bid experience for similar projects, published cost data, and current material costs obtained from geosynthetics and piping vendors and from local sources of earth materials.

As seen in the grades depicted on the cap grading plan (Figure 1) for Areas 5 and 6, the plan-view cap areas (2-dimensional) are 16.2 and 29.5 acres, respectively. For purposes of estimating the quantity of materials required for closure of Areas 5 and 6, 3-dimensional areas were calculated at 16.5 and 30.6 acres, respectively. The plateau (slopes less than 25%) of Areas 5 and 6, where an additional GCL is required, is estimated at 0.46 and 1.69 acres, respectively. Using the cap system and areas described above the cost estimates for the two areas can be summarized as follows:

Area 5

Subtotal Construction:	$2,693,871
CQA/CQC (3%)	$80,816
Contingency (5%):	$134,694
Overhead & Profit (6%)	$161,632
Construction Admin/Engineering (10%)	$269,387
Total Cost	**$3,340,400**

Area 6

Subtotal Construction:	$3,984,446
CQA/CQC (3%)	$119,533
Contingency (5%):	$199,222
Overhead & Profit (6%)	$239,067
Construction Admin/Engineering (10%)	$398,445
Total Cost	**$4,940,713**

A detailed breakdown of each of the estimates can be seen in Tables 1 and 2.

POST CLOSURE COST ESTIMATES

The presentation of the estimated costs for the post-closure costs was generally based on the format provided in the January 7, 2011 financial assurance estimated prepared by Malcolm-Pirnie for the Town of Colonie and subsequently updated and revised in our June 30, 2012 letter. Updated and revised assumptions to more accurately reflect the anticipated post closure costs in the 2012 Closure and Post-Closure Estimates and carried over to the estimate provided herein to reflect 2017 dollars, include:

- Leachate disposal costs based on the estimated leachate quantities for the post-closure periods using separate assumptions for infiltration within areas closed with low-permeability soils (Areas 2 and 3) and areas closed with geomembrane covers (Areas 4 through 6). For areas closed with clay caps, we have assumed a leachate generation rate of 82 gallons per acre per day (gpad) which is based on similar analyses we have performed for landfills in the northeast. For areas closed with a geomembrane cap, it was assumed that the leachate generation rate would be 39 gpad. This is based on calculations described in the Area 6 Part 360 Permit Application documentation. It should be noted that the estimates do not take into account the potential for a higher level of leachate generation immediately after capping has been installed (Areas 5 and 6 only).

- Leachate unit rate disposal costs were based on current disposal costs ($0.01 per gallon) for Waste Connections.

- Environmental and monitoring costs (e.g., groundwater, landfill gas, etc.) and maintenance costs (e.g., leachate lines, mowing, seeding) were developed based on actual costs for these services incurred in 2012.

- Costs (to Waste Connections) that are associated with multiple areas of the landfill (e.g., annual reporting), were allocated to each Area based the relative cap area of each section of the landfill.

The 2018 post-closure care cost estimates are summarized in the table below and can be seen in more detail in Tables 3 through 7, made part of this letter.

Landfill Area	2018 Annual Post-Closure Estimated Cost	Years Remaining for 30 Years After Closure	Total Post-Closure Costs for Remaining 30 Year Period After Closure
Area 2	$6,349	1	$6,349
Area 3	$6,349	1	$6,349
Area 4	$37,261	9	$335,349
Area 5	$74,210	30	$2,226,300
Area 6	$143,146	30	$4,294,380

Since Area 1 has been closed for more than 30 years, we have not carried a post-closure cost for maintenance of that Area. For Areas 5 and 6, the total post closure costs have been estimated by including only the annual costs for the years anticipated for the post-closure period (2020 through 2049).

If you have any questions or need additional information, please contact us by phone or email.

Sincerely,

Cornerstone Engineering and Land Surveying, PLLC

Robert A. Holmes

Robert A. Holmes, P.E.
Client Manager

cc: Mr. Curt Taylor/Capitol Region Landfills, Inc.

VEHICLE MAINTENANCE BLDG.
ADMIN. BUILDING
NYS RT 9
SCALE HOUSE
TRANSFER STATION
PROPERTY LINE
STORM WATER POND
LOUDON RD
MATERIAL RECOVERY/ RECYCLING BUILDING
ARROWHEAD LN
UNNAMED AREA
AREA 5 CAP 20.5 ACRES
AREA 6 CAP 16.2 ACRES
AREA 4 CAP 10.5 ACRES
COMPOST AREA 1
APPROXIMATE OVERLAP AREA
AREA 2/3 7.8 ACRES
MOHAWK RIVER
CRESCENT RD
COHOES
LANDFILL GAS TO ENERGY FACILITY
LEACHATE STORAGE LAGOONS
MOHAWK RIVER
N
LEGEND
– PROPERTY LINE
– CAP LIMITS
0 300 600
SCALE IN FEET

NOTE:

1. EXISTING TOPOGRAPHY AS PREPARED BY MID–ALANTIC PHOTOGRAMMETRIC SERVICES, INC. FROM PHOTOGRAPHY DATED 10–08–11.
2. LIMITS OF UNNAMED AREA BASED ON GUIDANCE FROM TOWN OF COLONIE.
3. AREA 4 CAP LIMITS OBTAINED FROM "AREA 4 LANDFILL CLOSURE CONSTRUCTION CONTRACT DRAWINGS", SEPTEMBER 1997"
4. AREA 2,3 CAP LIMITS OBTAINED FROM AREA 5 LANDFILL EXPANSION PERMIT DRAWINGS SHEET 2.

cornerstone environmental

PREPARED BY:
CORNERSTONE ENGINEERING AND LAND SURVEYING, PLLC

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WASTE CONNECTIONS
TOWN OF COLONIE LANDFILL

CLOSURE / POST-CLOSURE ESTIMATE

FIGURE NO.
1
PROJECT NO.
120076

Table 1

TOWN OF COLONIE - AREA 5 LATERAL LANDFILL EXPANSION

Closure Cost Estimate Summary

Colonie, New York

Item Description	Quantity	Unit	Material Unit Cost (2013 Values)	Installation Unit Cost (2013 Values)	Total Cost (2013 Values)	Total Cost (2018 Values)[8]
Intermediate Cover Surface Prep (existing 12" layer)	26,600	CY	$0.00	$1.50	$39,900	$42,181
Separation Fabric (16 oz. non-woven)	79,900	SY	$1.62	$0.63	$179,775	$190,051
Gas Venting Layer (12" clean sand)	26,600	CY	$22.45	$3.25	$683,620	$722,695
Geosynthetic Clay Liner (plateau only)	20,101	SF	$0.56	$0.15	$14,272	$15,087
60 Mil Textured LLDPE Geomembrane	718,750	SF	$0.37	$0.15	$373,750	$395,113
Geocomposite Drainage Layer	718,750	SF	$0.33	$0.09	$301,875	$319,130
12" Barrier Protection Layer General Soil Fill	26,600	CY	$8.15	$3.25	$303,240	$320,573
6" Topsoil Layer	13,300	CY	$25.50	$3.75	$389,025	$411,261
Seed and Mulch (includes installation)	16.5	Acre	$3,440		$56,760	$60,004
Drainage Controls (includes installation)	1	LS	$206,000		$206,000	$217,775
					Subtotal	$2,693,871
					QA/QC Materials Testing (3%)	$80,816
					Construction Contingency (5%)	$134,694
					Construction O&P (6%)	$161,632
					Construction Admin/Engineering (10%)	$269,387
					Total Estimated Cost for Construction (2018 Estimate)	$3,340,400

Notes:

1) Total 3-dimensional surface area = approx 16.5 acres (Plan View area = 16.2 acres)
2) Seeding costs include rye grass mix @ $80 per 1000 sf installed with mulch and fertilizer
3) Barrier protection layer installation costs assume $0.75/ cy for compaction and $2.50/cy for spreading
4) Topsoil costs include spreading/dressing only (no compaction)
5) Original 'Drainage Controls' estimate obtained from 2011 estimate provided by the Town of Colonie
6) Cap System based on plan set titled "Area 5 Partial Landfill Closure Construction Contract Drawings", February 2008
7) Plateau for Area 5 (not addressed in construction plans) assumed to have a GCL - which is consistent with Area 6 design
8) 2017 values were found by adjusting the 2013 values by 1.4% (2013 Annual Average CPI), 1.4% (2014 Annual Average CPI), -0.1% (2015 Annual Average CPI), 1.1% (2016 Annual Average CPI), and 1.8% (2017 Annual Average CPI)

Table 2

TOWN OF COLONIE - AREA 6 LATERAL LANDFILL EXPANSION

Closure Cost Estimate Summary

Colonie, New York

Item Description	Quantity	Unit	Material Unit Cost (2013 Values)	Installation Unit Cost (2013 Values)	Total Cost (2013 Values)	Total Cost (2018 Values)[7]
Separation Fabric (16 oz. non-woven)	148,100	SY	$1.62	$0.63	$333,225	$352,272
12" Intermediate Cover Layer General Soil Fill	49,400	CY	$8.15	$3.25	$563,160	$595,350
Geosynthetic Clay Liner (plateau only)	73,600	SF	$0.56	$0.15	$52,256	$55,243
60 Mil Textured LLDPE Geomembrane	1,332,950	SF	$0.37	$0.15	$693,134	$732,753
Geocomposite Drainage Layer	1,332,950	SF	$0.33	$0.09	$559,839	$591,839
12" Barrier Protection Layer General Soil Fill	49,400	CY	$8.15	$3.25	$563,160	$595,350
6" Topsoil Layer	24,700	CY	$25.50	$3.75	$722,475	$763,771
Seed and Mulch (includes installation)	30.6	Acre	$3,440		$105,264	$111,281
Drainage Controls (includes installation)	1	LS	$176,500		$176,500	$186,589
					Subtotal	$3,984,446
					QA/QC Materials Testing (3%)	$119,533
					Construction Contingency (5%)	$199,222
					Construction O&P (6%)	$239,067
					Construction Admin/ Engineering (10%)	$398,445
					Total Estimated Cost for Construction (2018 Estimate)	$4,940,713

Notes:

1) Total 3-dimensional surface area = approx 30.6 acres (Plan View area = 29.5 acres)
2) Seeding costs include rye grass mix @ $80 per 1000 sf installed with mulch and fertilizer
3) Intermediate cover and barrier protection layer installation costs assume $0.75/ cy for compaction and $2.50/cy for spreading
4) Topsoil costs include spreading/dressing only (no compaction)
5) Original 'Drainage Controls' estimate obtained from 2011 estimate provided by the Town of Colonie
6) Cap System based on plan set titled "Area 6 Lateral Landfill Expansion", October 2001
7) 2017 values were found by adjusting the 2013 values by 1.4% (2013 Annual Average CPI), 1.4% (2014 Annual Average CPI), -0.1% (2015 Annual Average CPI), 1.1% (2016 Annual Average CPI), and 1.8% (2017 Annual Average CPI)

Table 3

AREA 2 LANDFILL POST-CLOSURE COST ESTIMATE

Town of Colonie Landfill

Colonie, New York

Item Description	Quantity	Unit	Unit Cost	Total Cost
Leachate Disposal - Annual Costs				
Leachate Gravity Sewer - O&M [(3)(7)]	1	LS	$200.00	$200
Leachate Forcemain - O&M [(3)(7)]	1	LS	$575.00	$575
Leachate Disposal (3.9 acres, 82 gpad)	116,727	LS	$0.01	$1,167
			Subtotal	**$1,942**
Environmental Monitoring				
Quarterly Sampling and Analysis - No EMP in this area	4	Qtr	$0.00	$0
			Subtotal	**$0**
Quarterly Landfill Closure Inspections [(7)]				
Engineer	4	Hrs	$110.00	$440
Technician	4	Hrs	$85.00	$340
Misc. Expenses	1	LS	$450.00	$450
			Subtotal	**$1,230**
General Site Maintenance				
Mowing of Landfill Cap - once per year [(3)(7)]	1	LS	$975.00	$975
Misc. Erosion Repair and Reseeding	1	LS	$1,075.00	$1,075
			Subtotal	**$2,050**
Semi-Annual Report				
Report Preparation	0	Hrs	$96.90	$0
Misc. Reporting Requirements	0	Hrs	$96.90	$0
			Subtotal	**$0**
			Total Estimated Yearly Costs	$5,222
			Post-Closure Contingency (15%)	$783
			Total Yearly Costs (2013 Estimate)	$6,005
			Total Yearly Costs (2018 Estimate)[(8)]	$6,349
			Remaining Years for Post Closure (2018)	1
			Total =	$6,349

Notes:

1) Total plan view area = 3.9 acres (half of Area 2/3 shown on Figure 1)

2) Not used

3) Estimate based actual costs incurred in 2012

4) Leachate generation rates estimated at 82 gallons per acre per day, and assume no influence from GW

5) No cost has been included for operation and maintenance of the landfill gas management system

6) Not used

7) Assumes cost of this item to be portioned between landfill areas based on relative cap area

8) 2017 values were found by adjusting the 2013 values by 1.4% (2013 Annual Average CPI), 1.4% (2014 Annual Average CPI), -0.1% (2015 Annual Average CPI), 1.1% (2016 Annual Average CPI), and 1.8% (2017 Annual Average CPI)

Table 4

AREA 3 LANDFILL POST-CLOSURE COST ESTIMATE

Town of Colonie Landfill

Colonie, New York

Item Description	Quantity	Unit	Unit Cost	Total Cost
Leachate Disposal - Annual Costs				
Leachate Gravity Sewer - O&M [3][7]	1	LS	$200.00	$200
Leachate Forcemain - O&M [3][7]	1	LS	$575.00	$575
Leachate Disposal (3.9 acres, 82 gpad)	116,727	LS	$0.01	$1,167
			Subtotal	**$1,942**
Environmental Monitoring				
Quarterly Sampling and Analysis - No EMP in this area	4	Qtr	$0.00	$0
			Subtotal	**$0**
Quarterly Landfill Closure Inspections [7]				
Engineer	4	Hrs	$110.00	$440
Technician	4	Hrs	$85.00	$340
Misc. Expenses	1	LS	$450.00	$450
			Subtotal	**$1,230**
General Site Maintenance				
Mowing of Landfill Cap - once per year [3][7]	1	LS	$975.00	$975
Misc. Erosion Repair and Reseeding	1	LS	$1,075.00	$1,075
			Subtotal	**$2,050**
Semi-Annual Report				
Report Preparation	0	Hrs	$96.90	$0
Misc. Reporting Requirements	0	Hrs	$96.90	$0
			Subtotal	**$0**
			Total Estimated Yearly Costs	$5,222
			Post-Closure Contingency (15%)	$783
			Total Yearly Costs (2013 Estimate)	$6,005
			Total Yearly Costs (2018 Estimate)[8]	$6,349
			Remaining Years for Post Closure (2018)	1
			Total =	$6,349

Notes:

1) Total plan view area = 3.9 acres (half of Area 2/3 shown on Figure 1)

2) Not used

3) Estimate based actual costs incurred in 2012

4) Leachate generation rates estimated at 82 gallons per acre per day, and assume no influence from GW

5) Not used

6) Not used

7) Assumes cost of this item to be portioned between landfill areas based on relative cap area

8) 2017 values were found by adjusting the 2013 values by 1.4% (2013 Annual Average CPI), 1.4% (2014 Annual Average CPI), -0.1% (2015 Annual Average CPI), 1.1% (2016 Annual Average CPI), and 1.8% (2017 Annual Average CPI)

Table 5

AREA 4 LANDFILL POST-CLOSURE COST ESTIMATE

Town of Colonie Landfill

Colonie, New York

Item Description	Quantity	Unit	Unit Cost	Total Cost
Leachate Disposal - Annual Costs				
Leachate Gravity Sewer - O&M [(3)(7)]	1	LS	$850.00	$850
Leachate Forcemain - O&M [(3)(7)]	1	LS	$1,250.00	$1,250
Leachate Disposal (10.6 acres, 39 gpad)	150,891	LS	$0.01	$1,509
			Subtotal	**$3,609**
Gas System O&M [(3)(8)]	1	LS	$14,650.00	$14,650
			Subtotal	**$14,650**
Environmental Monitoring [(8)]				
Quarterly Sampling and Analysis - Well at Lagoons [(3)]	1	LS	$3,500.00	$3,500
			Subtotal	**$3,500**
Quarterly Landfill Closure Inspections [(7)]				
Engineer	15	Hrs	$110.00	$1,650
Technician	15	Hrs	$85.00	$1,275
Misc. Expenses	1	LS	$400.00	$400
			Subtotal	**$3,325**
General Site Maintenance				
Mowing of Landfill Cap - once per year [(3)(8)]	1	LS	$2,650.00	$2,650
Misc. Erosion Repair and Reseeding	1	LS	$2,915.00	$2,915
			Subtotal	**$5,565**
Semi-Annual Report				
Report Preparation	0	Hrs	$96.90	$0
Misc. Reporting Requirements	0	Hrs	$96.90	$0
			Subtotal	**$0**
			Total Estimated Yearly Costs	$30,649
			Post-Closure Contingency (15%)	$4,597
			Total Yearly Costs (2013 Estimate)	$35,246
			Total Yearly Costs (2018 Estimate)[(9)]	$37,261
			Remaining Years for Post Closure (2018-2026)	9
			Total =	$335,349

Notes:

1) Total plan view area = 10.6 acres

2) Not used

3) Estimate based actual costs incurred in 2012

4) Leachate generation rates estimated at 39 gallons per acre per day for a geomembrane cap, and assume no influence from GW

5) Not used

6) Not used

7) Assumes cost of this item to be portioned between landfill areas based on relative cap area

8) Assumes cost of this item to be portioned between landfill areas based on relative cap area (Areas with GW monitoring and gas collection only - 4,5,6)

9) 2017 values were found by adjusting the 2013 values by 1.4% (2013 Annual Average CPI), 1.4% (2014 Annual Average CPI), -0.1% (2015 Annual Average CPI), 1.1% (2016 Annual Average CPI), and 1.8% (2017 Annual Average CPI)

Table 6

AREA 5 LANDFILL POST-CLOSURE COST ESTIMATE

Town of Colonie Landfill

Colonie, New York

Item Description	Quantity	Unit	Unit Cost	Total Cost
Leachate Disposal - Annual Costs				
Leachate Collection Structure - O&M (3)(6)	1	LS	$2,590.00	$2,590
Secondary Leak Detection System - O&M (3)(7)	1	LS	$500.00	$500
Primary Leachate Collection Piping - O&M (3)(7)	1	LS	$1,100.00	$1,100
Leachate Gravity Sewer - O&M (3)(7)	1	LS	$500.00	$500
Leachate Forcemain - O&M (3)(7)	1	LS	$500.00	$500
Leachate Disposal (16.2 acres, 39 gpad)	230,607	Gallons	$0.01	$2,306
			Subtotal	**$7,496**
Gas System O&M (3)(8)	1	LS	$17,990.00	$17,990
			Subtotal	**$17,990**
Environmental Monitoring (3)(8)				
Quarterly GW Sampling and Analysis	1	LS	$16,100.00	$16,100
			Subtotal	**$16,100**
Quarterly Landfill Closure Inspections (7)				
Engineer	18	Hrs	$110.00	$1,980
Technician	20	Hrs	$85.00	$1,700
Misc. Expenses	1	LS	$400.00	$400
			Subtotal	**$4,080**
General Site Maintenance				
Mowing of Landfill Cap - once per year (3)(8)	1	LS	$3,250.00	$3,250
Misc. Erosion Repair and Reseeding	1	LS	$3,575.00	$3,575
			Subtotal	**$6,825**
Semi-Annual Report				
Report Preparation	60	Hrs	$95.00	$5,700
Misc. Reporting Requirements	30	Hrs	$95.00	$2,850
			Subtotal	**$8,550**
			Total Estimated Yearly Costs	$61,041
			Post-Closure Contingency (15%)	$9,156
			Total Yearly Costs (2013 Estimate)	$70,197
			Total Yearly Costs (2018 Estimate)(9)	$74,210
			Remaining Years for Post Closure (2020-2049)(2)	30
			Total =	$2,226,300

Notes:

1) Total surface area = 13.0 acres

2) Closure period estimated to start in 2020 assuming no additional airspace is permitted. Receipt of Area 7 Permit will postpone closure until final grades are reached.

3) Estimate based actual costs incurred in 2012

4) Leachate generation rates estimated at 39 gallons per acre per day for a geomembrane cap, and assume no influence from GW

5) Leachate generation estimates assume static condition and do not include higher volumes typically experienced immediately after closure

6) Assumes cost of this item to be portioned between landfill areas based on relative cap area (Areas with leachate sump - Areas 5,6)

7) Assumes cost of this item to be portioned between landfill areas based on relative cap area

8) Assumes cost of this item to be portioned between landfill areas based on relative cap area (Areas with GW monitoring and gas collection only - 4,5,6)

Table 7

AREA 6 LATERAL LANDFILL EXPANSION

Town of Colonie Landfill

Colonie, New York

Item Description	Quantity	Unit	Unit Cost	Total Cost
Leachate Disposal - Annual Costs				
Primary Leachate Lift Station - O&M (3)(6)	1	LS	$6,430.00	$6,430
Secondary Leak Detection System - O&M (3)(7)	1	LS	$1,250.00	$1,250
Primary Leachate Collection Piping - O&M (3)(7)	1	LS	$2,680.00	$2,680
Leachate Gravity Sewer - O&M (3) (7)	1	LS	$1,250.00	$1,250
Leachate Forcemain - O&M (3)(7)	1	LS	$1,250.00	$1,250
Leachate Disposal (29.5 acres, 39 gpad)	419,933	gallons	$0.01	$4,199
			Subtotal	**$17,059**
Gas System O&M (3)(8)	1	LS	$25,050.00	$25,050
			Subtotal	**$25,050**
Environmental Monitoring (3)(8)				
Quarterly GW Sampling and Analysis	1	LS	$40,000.00	$40,000
			Subtotal	**$40,000**
Quarterly Landfill Closure Inspections (7)				
Engineer	42	Hrs	$110.00	$4,620
Technician	60	Hrs	$85.00	$5,100
Misc. Expenses	1	LS	$400.00	$400
			Subtotal	**$10,120**
General Site Maintenance				
Mowing of Landfill Cap - once per year (3)(8)	1	LS	$8,075.00	$8,075
Misc. Erosion Repair and Reseeding	1	LS	$8,890.00	$8,890
			Subtotal	**$16,965**
Semi-Annual Report				
Report Preparation	60	Hrs	$95.00	$5,700
Misc. Reporting Requirements	30	Hrs	$95.00	$2,850
			Subtotal	**$8,550**
			Total Estimated Yearly Costs	$117,744
			Post-Closure Contingency (15%)	$17,662
			Total Yearly Costs (2013 Estimate)	$135,406
			Total Yearly Costs (2018 Estimate)(9)	$143,146
			Remaining Years for Post Closure (2020-2049)(2)	30
			Total =	$4,294,380

Notes:

1) Total surface area = 32.3 acres

2) Closure period estimated to start in 2020 assuming no additional airspace is permitted. Receipt of Area 7 Permit will postpone closure until final grades are reached.

3) Estimate based actual costs incurred in 2012

4) Leachate generation rates estimated at 39 gallons per acre per day for a geomembrane cap, and assume no influence from GW

5) Leachate generation estiamtes assume static condition and do not include higher volumes typically experienced immediately after closure

6) Assumes cost of this item to be portioned between landfill areas based on relative cap area (Areas with leachate sump - Areas 5,6)

7) Assumes cost of this item to be portioned between landfill areas based on relative cap area

8) Assumes cost of this item to be portioned between landfill areas based on relative cap area (Areas with GW monitoring and gas collection only - 4,5,6)

Attachment 5
Daily Monitoring Reports Summary of the Secondary Leachate Collection System

Monthly ALR Summary

Area 5

2017	ALR (Gal/Ac/Day)	ALR (Gal/Ac/Day)	ALR (Gal/Ac/Day)	ALR (Gal/Ac/Day)	ALR (Gal/Ac/Day)
Month	Cell A	Cell B	Cell C	Cell D	Cell E
January	3.30	12.61	2.58	0.40	0.72
February	3.68	13.31	1.90	0.45	19.74
March	3.30	12.65	3.42	0.27	0.60
April	3.52	12.04	1.82	0.43	0.89
May	3.18	11.82	1.66	0.52	20.08
June	3.58	13.65	3.23	0.41	0.08
July	3.27	11.79	2.56	0.54	0.13
August	3.45	10.97	3.42	1.69	0.10
September	3.18	11.08	4.43	1.25	0.55
October	3.25	11.15	4.26	0.81	0.11
November	2.92	11.68	4.38	1.26	0.42
December	3.38	12.35	4.18	1.40	0.02

Area 6

2017	ALR (Gal/Ac/Day)	ALR (Gal/Ac/Day)	ALR (Gal/Ac/Day)	ALR (Gal/Ac/Day)	ALR (Gal/Ac/Day)	ALR (Gal/Ac/Day)
Month	Area 6 Cell A	Area 6 Cell B	Area 6 1 Combined	Area 6 Cell C	Area 6 Cell D	Area 6 II Combined
January	0.00	3.31	1.61	8.19	5.65	6.90
February	0.00	1.49	0.72	5.79	3.40	4.57
March	0.00	4.22	2.06	5.26	3.73	4.48
April	0.14	5.44	2.72	5.20	3.37	4.27
May	0.00	1.82	0.89	8.06	4.91	6.45
June	0.15	6.57	3.28	6.69	3.12	4.87
July	0.00	6.77	3.29	6.89	4.17	5.50
August	0.00	14.20	6.91	9.54	6.33	7.90
September	0.00	2.50	1.21	5.55	6.14	5.85
October	0.00	0.84	0.41	3.22	1.43	2.30
November	0.00	3.46	1.68	2.94	1.54	2.22
December	0.31	3.50	1.86	3.02	1.94	2.47

Area 5 Secondary Leachate Collection System Monitoring
Colonie Landfill

	Cell A			Cell B			Cell C		
	Date	Leakage (Gal)	Leakage Rate (Gal/Ac/Day)	Date	Leakage (Gal)	Leakage Rate (Gal/Ac/Day)	Date	Leakage (Gal)	Leakage Rate (Gal/Ac/Day)
1st Quarter	12/31/16	93932.1		12/31/16	91670.1		12/31/16	65256.4	
	01/02/17	93958.4	7.31	01/02/17	91730.4	19.45	01/02/17	65256.4	0.00
	01/03/17	93958.4	0.00	01/03/17	91730.4	0.00	01/03/17	65256.4	0.00
	01/04/17	93958.4	0.00	01/04/17	91760.7	9.77	01/04/17	65256.4	0.00
	01/05/17	93958.4	0.00	01/05/17	91760.7	0.00	01/05/17	65256.4	0.00
	01/06/17	93958.4	0.00	01/06/17	91821.2	19.52	01/06/17	65256.4	0.00
	01/07/17	93958.4	0.00	01/07/17	91821.2	0.00	01/07/17	65256.4	0.00
	01/09/17	93984.8	2.10	01/09/17	91851.4	6.49	01/09/17	65256.4	0.00
	01/10/17	93984.8	0.00	01/10/17	91851.4	0.00	01/10/17	65256.4	0.00
	01/11/17	94011.1	7.31	01/11/17	91911.9	19.52	01/11/17	65291.7	2.41
	01/12/17	94011.1	0.00	01/12/17	91911.9	0.00	01/12/17	65291.7	0.00
	01/13/17	94011.1	0.00	01/13/17	91942.3	9.81	01/13/17	65291.7	0.00
	01/14/17	94037.6	4.91	01/14/17	91942.3	0.00	01/14/17	65291.7	0.00
	01/16/17	94037.6	0.00	01/16/17	92002.8	13.01	01/16/17	65291.7	0.00
	01/17/17	94037.6	0.00	01/17/17	92033.1	19.55	01/17/17	65291.7	0.00
	01/18/17	94063.8	3.64	01/18/17	92033.1	0.00	01/18/17	65291.7	0.00
	01/19/17	94063.8	0.00	01/19/17	92033.1	0.00	01/19/17	65291.7	0.00
	01/20/17	94063.8	0.00	01/20/17	92063.3	6.49	01/20/17	65327.0	2.95
	01/21/17	94063.8	0.00	01/21/17	92063.3	0.00	01/21/17	65327.0	0.00
	01/23/17	94090.2	2.93	01/23/17	92124.0	13.05	01/23/17	65327.0	0.00
	01/24/17	94090.2	0.00	01/24/17	92124.0	0.00	01/24/17	65327.0	0.00
	01/25/17	94090.2	0.00	01/25/17	92124.0	0.00	01/25/17	65327.0	0.00
	01/26/17	94090.2	0.00	01/26/17	92184.8	13.08	01/26/17	65327.0	0.00
	01/27/17	94090.2	0.00	01/27/17	92184.8	0.00	01/27/17	65327.0	0.00
	01/28/17	94116.4	2.91	01/28/17	92245.7	19.65	01/28/17	65362.6	3.35
	01/30/17	94116.4	0.00	01/30/17	92276.2	9.84	01/30/17	65362.6	0.00
	01/31/17	94116.4	0.00	01/31/17	92276.2	0.00	01/31/17	65362.6	0.00
	Total Days = 31	Total Gal. = 184	Average = 3.30	Total Days = 31	Total Gal. = 606	Average = 12.61	Total Days = 31	Total Gal.= 106	Average = 2.58
	02/01/17	94142.7	3.65	02/01/17	92336.9	19.58	02/01/17	65362.6	0.00
	02/02/17	94142.7	0.00	02/02/17	92336.9	0.00	02/02/17	65362.6	0.00
	02/03/17	94142.7	0.00	02/03/17	92367.5	9.87	02/03/17	65362.6	0.00
	02/04/17	94142.7	0.00	02/04/17	92367.5	0.00	02/04/17	65362.6	0.00
	02/06/17	94169.0	2.92	02/06/17	92427.9	12.99	02/06/17	65362.6	0.00
	02/07/17	94169.0	0.00	02/07/17	92427.9	0.00	02/07/17	65362.6	0.00
	02/08/17	94176.4	2.06	02/08/17	92464.3	11.74	02/08/17	65362.6	0.00
	02/09/17	94176.4	0.00	02/09/17	92464.3	0.00	02/09/17	65362.6	0.00
	02/10/17	94195.3	5.25	02/10/17	92488.8	7.90	02/10/17	65398.1	2.05
	02/11/17	94195.3	0.00	02/11/17	92519.2	19.61	02/11/17	65398.1	0.00
	02/13/17	94221.6	4.87	02/13/17	92580.1	19.65	02/13/17	65398.1	0.00
	02/14/17	94221.6	0.00	02/14/17	92580.1	0.00	02/14/17	65398.1	0.00
	02/15/17	94221.6	0.00	02/15/17	92610.5	9.81	02/15/17	65433.2	5.28
	02/16/17	94221.6	0.00	02/16/17	92610.5	0.00	02/16/17	65433.2	0.00
	02/17/17	94248.0	3.67	02/17/17	92640.8	9.77	02/17/17	65433.2	0.00
	02/18/17	94248.0	0.00	02/18/17	92640.8	0.00	02/18/17	65433.2	0.00
	02/20/17	94248.0	0.00	02/20/17	92701.6	13.08	02/20/17	65433.2	0.00
	02/21/17	94248.0	0.00	02/21/17	92701.6	0.00	02/21/17	65433.2	0.00
	02/22/17	94274.3	2.92	02/22/17	92732.2	9.87	02/22/17	65433.2	0.00
	02/23/17	94274.3	0.00	02/23/17	92732.2	0.00	02/23/17	65433.2	0.00
	02/24/17	94274.3	0.00	02/24/17	92732.2	0.00	02/24/17	65433.2	0.00
	02/25/17	94274.3	0.00	02/25/17	92793.0	13.08	02/25/17	65433.2	0.00
	02/27/17	94301.9	3.07	02/27/17	92823.5	9.84	02/27/17	65433.2	0.00
	02/28/17	94301.9	0.00	02/28/17	92854.0	19.68	02/28/17	65433.2	0.00
	Total Days = 28	Total Gal. = 186	Average = 3.68	Total Days = 28	Total Gal. = 578	Average = 13.31	Total Days = 28	Total Gal. = 71	Average = 1.90
	03/01/17	94301.9	0.00	03/01/17	92854.0	0.00	03/01/17	65433.2	0.00
	03/02/17	94328.2	4.87	03/02/17	92914.6	19.55	03/02/17	65468.5	1.77
	03/03/17	94328.2	0.00	03/03/17	92914.6	0.00	03/03/17	65468.5	0.00
	03/04/17	94328.2	0.00	03/04/17	92914.6	0.00	03/04/17	65468.5	0.00
	03/06/17	94328.2	0.00	03/06/17	92945.2	4.94	03/06/17	65468.5	0.00
	03/07/17	94355.0	2.98	03/07/17	92975.5	19.55	03/07/17	65468.5	0.00
	03/08/17	94355.0	0.00	03/08/17	92975.5	0.00	03/08/17	65468.5	0.00
	03/09/17	94355.0	0.00	03/09/17	93005.7	9.74	03/09/17	65468.5	0.00
	03/10/17	94355.0	0.00	03/10/17	93036.1	19.61	03/10/17	65503.8	3.32
	03/11/17	94355.0	0.00	03/11/17	93036.1	0.00	03/11/17	65503.8	0.00
	03/13/17	94381.2	2.43	03/13/17	93127.4	19.63	03/13/17	65503.8	0.00
	03/14/17	94381.2	0.00	03/14/17	93127.4	0.00	03/14/17	65503.8	0.00
	03/15/17	94381.2	0.00	03/15/17	93127.4	0.00	03/15/17	65503.8	0.00
	03/16/17	94405.6	4.52	03/16/17	93127.4	0.00	03/16/17	65503.8	0.00
	03/17/17	94405.6	0.00	03/17/17	93127.4	0.00	03/17/17	65503.8	0.00
	03/18/17	94407.5	0.53	03/18/17	93188.0	7.82	03/18/17	65503.8	0.00
	03/20/17	94433.8	7.31	03/20/17	93218.3	9.77	03/20/17	65503.8	0.00
	03/21/17	94433.8	0.00	03/21/17	93248.8	19.68	03/21/17	65539.1	2.41
	03/22/17	94433.8	0.00	03/22/17	93248.8	0.00	03/22/17	65539.1	0.00
	03/23/17	94433.8	0.00	03/23/17	93248.8	0.00	03/23/17	65539.1	0.00
	03/24/17	94433.8	0.00	03/24/17	93309.2	12.99	03/24/17	65539.1	0.00
	03/28/17	94459.9	1.81	03/28/17	93370.0	9.81	03/28/17	65539.1	0.00
	03/29/17	94459.9	0.00	03/29/17	93370.0	0.00	03/29/17	65539.1	0.00
	03/30/17	94486.3	7.33	03/30/17	93461.6	29.55	03/30/17	65574.3	2.94
	03/31/17	94486.3	0.00	03/31/17	93461.6	0.00	03/31/17	65574.3	0.00
	Total Days = 31	Total Gal. = 184	Average = 3.30	Total Days = 31	Total Gal. = 608	Average = 12.65	Total Days = 31	Total Gal. = 141	Average = 3.42

Area 5 Secondary Leachate Collection System Monitoring
Colonie Landfill

	Cell A			Cell B			Cell C		
	Date	Leakage (Gal)	Leakage Rate (Gal/Ac/Day)	Date	Leakage (Gal)	Leakage Rate (Gal/Ac/Day)	Date	Leakage (Gal)	Leakage Rate (Gal/Ac/Day)
2nd Quarter	04/01/17	94486.3	0.00	04/01/17	93461.6	0.00	04/01/17	65574.3	0.00
	04/03/17	94512.7	4.89	04/03/17	93492.0	6.54	04/03/17	65574.3	0.00
	04/04/17	94512.7	0.00	04/04/17	93522.5	19.68	04/04/17	65574.3	0.00
	04/05/17	94512.7	0.00	04/05/17	93522.5	0.00	04/05/17	65574.3	0.00
	04/06/17	94512.7	0.00	04/06/17	93583.3	19.61	04/06/17	65574.3	0.00
	04/07/17	94538.7	3.61	04/07/17	93583.3	0.00	04/07/17	65574.3	0.00
	04/08/17	94538.7	0.00	04/08/17	93583.3	0.00	04/08/17	65574.3	0.00
	04/10/17	94538.7	0.00	04/10/17	93583.3	0.00	04/10/17	65574.3	0.00
	04/11/17	94564.9	3.64	04/11/17	93674.5	11.77	04/11/17	65574.3	0.00
	04/12/17	94564.9	0.00	04/12/17	93674.5	0.00	04/12/17	65574.3	0.00
	04/13/17	94564.9	0.00	04/13/17	93704.9	9.81	04/13/17	65574.3	0.00
	04/14/17	94564.9	0.00	04/14/17	93704.9	0.00	04/14/17	65609.2	1.87
	04/15/17	94591.3	3.67	04/15/17	93735.4	9.84	04/15/17	65609.2	0.00
	04/17/17	94591.3	0.00	04/17/17	93765.6	9.74	04/17/17	65609.2	0.00
	04/18/17	94591.3	0.00	04/18/17	93795.9	19.55	04/18/17	65609.2	0.00
	04/19/17	94591.3	0.00	04/19/17	93795.9	0.00	04/19/17	65609.2	0.00
	04/20/17	94621.4	3.34	04/20/17	93807.5	3.74	04/20/17	65644.6	4.44
	04/21/17	94621.4	0.00	04/21/17	93807.5	0.00	04/21/17	65644.6	0.00
	04/22/17	94643.6	6.17	04/22/17	93872.4	20.94	04/22/17	65644.6	0.00
	04/24/17	94643.6	0.00	04/24/17	93872.4	0.00	04/24/17	65644.6	0.00
	04/25/17	94643.6	0.00	04/25/17	93872.4	0.00	04/25/17	65644.6	0.00
	04/26/17	94643.6	0.00	04/26/17	93891.7	3.11	04/26/17	65644.6	0.00
	04/29/17	94669.9	2.09	04/29/17	94002.9	23.91	04/29/17	65644.6	0.00
	Total Days = 29	Total Gal. = 184	Average = 3.52	Total Days = 29	Total Gal. = 541	Average = 12.04	Total Days = 29	Total Gal. = 70	Average = 1.82
	05/01/17	94669.9	0.00	05/01/17	94033.3	9.81	05/01/17	65644.6	0.00
	05/02/17	94696.1	4.85	05/02/17	94063.5	19.48	05/02/17	65644.6	0.00
	05/03/17	94696.1	0.00	05/03/17	94063.5	0.00	05/03/17	65644.6	0.00
	05/04/17	94696.1	0.00	05/04/17	94092.0	9.19	05/04/17	65644.6	0.00
	05/05/17	94696.1	0.00	05/05/17	94122.1	19.42	05/05/17	65644.6	0.00
	05/06/17	94696.1	0.00	05/06/17	94122.1	0.00	05/06/17	65679.9	3.79
	05/08/17	94722.4	2.44	05/08/17	94182.6	13.01	05/08/17	65679.9	0.00
	05/09/17	94748.7	14.61	05/09/17	94239.5	36.71	05/09/17	65679.9	0.00
	05/10/17	94748.7	0.00	05/10/17	94239.5	0.00	05/10/17	65679.9	0.00
	05/11/17	94748.7	0.00	05/11/17	94239.5	0.00	05/11/17	65679.9	0.00
	05/12/17	94748.7	0.00	05/12/17	94266.9	5.89	05/12/17	65679.9	0.00
	05/13/17	94748.7	0.00	05/13/17	94266.9	0.00	05/13/17	65679.9	0.00
	05/15/17	94775.0	2.44	05/15/17	94296.8	6.43	05/15/17	65679.9	0.00
	05/16/17	94775.0	0.00	05/16/17	94296.8	0.00	05/16/17	65679.9	0.00
	05/17/17	94775.0	0.00	05/17/17	94357.3	19.52	05/17/17	65679.9	0.00
	05/18/17	94775.0	0.00	05/18/17	94357.3	0.00	05/18/17	65679.9	0.00
	05/19/17	94801.1	3.63	05/19/17	94383.1	8.32	05/19/17	65715.2	2.04
	05/20/17	94801.1	0.00	05/20/17	94383.1	0.00	05/20/17	65715.2	0.00
	05/22/17	94801.1	0.00	05/22/17	94471.9	19.10	05/22/17	65715.2	0.00
	05/23/17	94801.1	0.00	05/23/17	94471.9	0.00	05/23/17	65715.2	0.00
	05/24/17	94827.1	2.89	05/24/17	94471.9	0.00	05/24/17	65715.2	0.00
	05/25/17	94827.1	0.00	05/25/17	94500.2	6.09	05/25/17	65715.2	0.00
	05/26/17	94827.1	0.00	05/26/17	94500.2	0.00	05/26/17	65715.2	0.00
	05/27/17	94853.2	4.83	05/27/17	94532.7	10.48	05/27/17	65715.2	0.00
	05/29/17	94853.2	0.00	05/29/17	94532.7	0.00	05/29/17	65715.2	0.00
	05/30/17	94853.2	0.00	05/30/17	94589.0	12.11	05/30/17	65715.2	0.00
	05/31/17	94853.2	0.00	05/31/17	94589.0	0.00	05/31/17	65715.2	0.00
	Total Days = 32	Total Gal. = 183	Average = 3.18	Total Days = 32	Total Gal. = 586	Average = 11.82	Total Days = 32	Total Gal. = 71	Average = 1.66
	06/01/17	94853.2	0.00	06/01/17	94619.1	9.71	06/01/17	65750.4	2.04
	06/02/17	94853.2	0.00	06/02/17	94619.1	0.00	06/02/17	65750.4	0.00
	06/03/17	94879.3	2.07	06/03/17	94647.3	9.10	06/03/17	65750.4	0.00
	06/05/17	94879.3	0.00	06/05/17	94706.3	19.03	06/05/17	65750.4	0.00
	06/06/17	94879.3	0.00	06/06/17	94706.3	0.00	06/06/17	65750.4	0.00
	06/07/17	94905.1	3.58	06/07/17	94734.0	8.94	06/07/17	65750.4	0.00
	06/08/17	94905.1	0.00	06/08/17	94764.3	19.55	06/08/17	65750.4	0.00
	06/09/17	94905.1	0.00	06/09/17	94794.4	19.42	06/09/17	65750.4	0.00
	06/10/17	94931.0	4.80	06/10/17	94794.4	0.00	06/10/17	65750.4	0.00
	06/12/17	94931.0	0.00	06/12/17	94824.4	6.45	06/12/17	65785.5	2.40
	06/13/17	94931.0	0.00	06/13/17	94853.7	18.90	06/13/17	65785.5	0.00
	06/14/17	94957.1	3.63	06/14/17	94883.7	19.35	06/14/17	65785.5	0.00
	06/15/17	94957.1	0.00	06/15/17	94883.7	0.00	06/15/17	65785.5	0.00
	06/16/17	94957.1	0.00	06/16/17	94883.7	0.00	06/16/17	65785.5	0.00
	06/17/17	94957.1	0.00	06/17/17	94944.1	12.99	06/17/17	65785.5	0.00
	06/20/17	94994.8	3.49	06/20/17	95004.3	12.95	06/20/17	65808.8	2.19
	06/21/17	94994.8	0.00	06/21/17	95004.3	0.00	06/21/17	65808.8	0.00
	06/22/17	94994.8	0.00	06/22/17	95035.1	9.94	06/22/17	65808.8	0.00
	06/23/17	94994.8	0.00	06/23/17	95035.1	0.00	06/23/17	65808.8	0.00
	06/24/17	94994.8	0.00	06/24/17	95063.1	9.03	06/24/17	65808.8	0.00
	06/26/17	94994.8	0.00	06/26/17	95063.1	0.00	06/26/17	65808.8	0.00
	06/27/17	94994.8	0.00	06/27/17	95094.6	6.77	06/27/17	65808.8	0.00
	06/28/17	95046.7	3.60	06/28/17	95132.5	24.45	06/28/17	65844.2	3.33
	06/29/17	95046.7	0.00	06/29/17	95176.6	28.45	06/29/17	65844.2	0.00
	06/30/17	95046.7	0.00	06/30/17	95223.7	30.39	06/30/17	65844.2	0.00
	Total Days = 30	Total Gal. = 194	Average = 3.58	Total Days = 30	Total Gal. = 635	Average = 13.65	Total Days = 30	Total Gal. = 129	Average = 3.23

	Cell A			Cell B			Cell C		
	Date	Leakage (Gal)	Leakage Rate (Gal/Ac/Day)	Date	Leakage (Gal)	Leakage Rate (Gal/Ac/Day)	Date	Leakage (Gal)	Leakage Rate (Gal/Ac/Day)
3rd Quarter	07/01/17	95046.7	0.00	07/01/17	95223.7	0.00	07/01/17	65844.2	0.00
	07/03/17	95072.6	2.88	07/03/17	95371.7	31.83	07/03/17	65844.2	0.00
	07/04/17	95072.6	0.00	07/04/17	95371.7	0.00	07/04/17	65844.2	0.00
	07/05/17	95072.6	0.00	07/05/17	95371.7	0.00	07/05/17	65844.2	0.00
	07/06/17	95072.6	0.00	07/06/17	95371.7	0.00	07/06/17	65844.2	0.00
	07/07/17	95099.9	3.79	07/07/17	95371.7	0.00	07/07/17	65844.2	0.00
	07/08/17	95099.9	0.00	07/08/17	95451.0	10.23	07/08/17	65879.3	2.64
	07/10/17	95099.9	0.00	07/10/17	95451.0	0.00	07/10/17	65879.3	0.00
	07/11/17	95099.9	0.00	07/11/17	95451.0	0.00	07/11/17	65879.3	0.00
	07/12/17	95125.6	2.86	07/12/17	95476.6	4.13	07/12/17	65879.3	0.00
	07/13/17	95125.6	0.00	07/13/17	95476.6	0.00	07/13/17	65879.3	0.00
	07/14/17	95125.6	0.00	07/14/17	95500.9	7.84	07/14/17	65879.3	0.00
	07/15/17	95125.6	0.00	07/15/17	95500.9	0.00	07/15/17	65879.3	0.00
	07/17/17	95151.4	2.87	07/17/17	95551.9	10.97	07/17/17	65879.3	0.00
	07/18/17	95151.4	0.00	07/18/17	95551.9	0.00	07/18/17	65879.3	0.00
	07/19/17	95151.4	0.00	07/19/17	95575.5	7.61	07/19/17	65914.2	2.39
	07/20/17	95177.3	4.80	07/20/17	95599.1	15.23	07/20/17	65914.2	0.00
	07/21/17	95177.3	0.00	07/21/17	95599.1	0.00	07/21/17	65914.2	0.00
	07/22/17	95177.3	0.00	07/22/17	95599.1	0.00	07/22/17	65914.2	0.00
	07/24/17	95177.3	0.00	07/24/17	95648.5	7.97	07/24/17	65914.2	0.00
	07/25/17	95203.3	2.89	07/25/17	95675.8	17.61	07/25/17	65914.2	0.00
	07/26/17	95203.3	0.00	07/26/17	95701.5	16.58	07/26/17	65914.2	0.00
	07/27/17	95203.3	0.00	07/27/17	95729.6	18.13	07/27/17	65949.6	3.33
	07/28/17	95203.3	0.00	07/28/17	95729.6	0.00	07/28/17	65949.6	0.00
	07/29/17	95229.2	3.60	07/29/17	95729.6	0.00	07/29/17	65949.6	0.00
	07/31/17	95229.2	0.00	07/31/17	95790.1	9.76	07/31/17	65949.6	0.00
	Total Days = 31	Total Gal. = 183	Average = 3.27	Total Days = 31	Total Gal. = 566	Average = 11.79	Total Days = 31	Total Gal. = 105	Average = 2.56
	08/01/17	95229.2	0.00	08/01/17	95790.1	0.00	08/01/17	65949.6	0.00
	08/02/17	95229.2	0.00	08/02/17	95821.3	10.06	08/02/17	65949.6	0.00
	08/03/17	95254.9	2.86	08/03/17	95821.3	0.00	08/03/17	65984.8	3.78
	08/04/17	95254.9	0.00	08/04/17	95868.5	15.23	08/04/17	65984.8	0.00
	08/05/17	95254.9	0.00	08/05/17	95868.5	0.00	08/05/17	65984.8	0.00
	08/07/17	95280.7	3.58	08/07/17	95893.2	5.31	08/07/17	65984.8	0.00
	08/09/17	95280.7	0.00	08/09/17	95923.2	9.68	08/09/17	65984.8	0.00
	08/11/17	95306.6	3.60	08/11/17	95983.7	19.52	08/11/17	66019.9	3.30
	08/14/17	95306.6	0.00	08/14/17	95983.7	0.00	08/14/17	66019.9	0.00
	08/15/17	95306.6	0.00	08/15/17	96010.2	4.27	08/15/17	66019.9	0.00
	08/16/17	95306.6	0.00	08/16/17	96010.2	0.00	08/16/17	66019.9	0.00
	08/17/17	95306.6	0.00	08/17/17	96069.6	19.16	08/17/17	66019.9	0.00
	08/19/17	95306.6	0.00	08/19/17	96069.6	0.00	08/19/17	66019.9	0.00
	08/21/17	95306.6	0.00	08/21/17	96120.4	8.19	08/21/17	66019.9	0.00
	08/23/17	95384.0	3.58	08/23/17	96185.3	20.94	08/23/17	66055.5	2.23
	08/24/17	95384.0	0.00	08/24/17	96185.3	0.00	08/24/17	66055.5	0.00
	08/25/17	95384.0	0.00	08/25/17	96211.0	8.29	08/25/17	66055.5	0.00
	08/26/17	95384.0	0.00	08/26/17	96211.0	0.00	08/26/17	66055.5	0.00
	08/28/17	95409.6	2.84	08/28/17	96267.6	12.17	08/28/17	66090.6	5.28
	08/29/17	95409.6	0.00	08/29/17	96267.7	0.06	08/29/17	66090.6	0.00
	08/30/17	95421.7	3.36	08/30/17	96267.7	0.00	08/30/17	66090.6	0.00
	08/31/17	95421.7	0.00	08/31/17	96317.4	16.03	08/31/17	66090.6	0.00
	Total Days = 31	Total Gal. = 193	Average = 3.45	Total Days = 31	Total Gal. = 527	Average = 10.97	Total Days = 31	Total Gal. = 141	Average = 3.42
	09/01/17	95435.6	3.86	09/01/17	96341.2	15.35	09/01/17	66090.6	0.00
	09/02/17	95435.6	0.00	09/02/17	96341.2	0.00	09/02/17	66090.6	0.00
	09/03/17	95435.6	0.00	09/03/17	96341.2	0.00	09/03/17	66090.6	0.00
	09/04/17	95435.6	0.00	09/04/17	96376.7	7.63	09/04/17	66125.3	3.73
	09/05/17	95435.6	0.00	09/05/17	96402.7	16.77	09/05/17	66125.3	0.00
	09/06/17	95461.7	2.90	09/06/17	96402.7	0.00	09/06/17	66125.5	0.08
	09/07/17	95461.7	0.00	09/07/17	96429.5	8.65	09/07/17	66160.7	26.47
	09/08/17	95461.7	0.00	09/08/17	96429.5	0.00	09/08/17	66160.7	0.00
	09/09/17	95461.7	0.00	09/09/17	96454.6	8.10	09/09/17	66160.7	0.00
	09/10/17	95461.7	0.00	09/10/17	96454.6	0.00	09/10/17	66160.7	0.00
	09/11/17	95487.7	2.89	09/11/17	96514.9	19.45	09/11/17	66160.7	0.00
	09/12/17	95487.7	0.00	09/12/17	96514.9	0.00	09/12/17	66160.7	0.00
	09/13/17	95487.7	0.00	09/13/17	96544.2	9.45	09/13/17	66160.7	0.00
	09/14/17	95487.7	0.00	09/14/17	96544.2	0.00	09/14/17	66196.4	3.83
	09/15/17	95513.8	3.63	09/15/17	96568.4	7.81	09/15/17	66196.4	0.00
	09/16/17	95513.8	0.00	09/16/17	96596.6	18.19	09/16/17	66196.4	0.00
	09/17/17	95513.8	0.00	09/17/17	96620.4	15.35	09/17/17	66196.4	0.00
	09/18/17	95513.8	0.00	09/18/17	96648.1	17.87	09/18/17	66196.4	0.00
	09/19/17	95513.8	0.00	09/19/17	96648.1	0.00	09/19/17	66196.4	0.00
	09/20/17	95540.0	2.91	09/20/17	96648.1	0.00	09/20/17	66232.1	4.47
	09/21/17	95540.0	0.00	09/21/17	96648.1	0.00	09/21/17	66232.1	0.00
	09/22/17	95540.0	0.00	09/22/17	96676.1	4.52	09/22/17	66232.1	0.00
	09/23/17	95540.0	0.00	09/23/17	96701.1	16.13	09/23/17	66232.1	0.00
	09/24/17	95540.0	0.00	09/24/17	96701.1	0.00	09/24/17	66232.1	0.00
	09/25/17	95567.2	3.02	09/25/17	96724.3	7.48	09/25/17	66232.1	0.00
	09/26/17	95567.2	0.00	09/26/17	96748.8	15.81	09/26/17	66232.1	0.00
	09/27/17	95567.2	0.00	09/27/17	96748.8	0.00	09/27/17	66232.1	0.00
	09/28/17	95567.2	0.00	09/28/17	96748.8	0.00	09/28/17	66232.1	0.00
	09/29/17	95593.4	3.64	09/29/17	96832.4	17.98	09/29/17	66267.4	2.95
	09/30/17	95593.4	0.00	09/30/17	96832.4	0.00	09/30/17	66267.4	0.00
	Total Days = 30	Total Gal. = 172	Average = 3.18	Total Days = 30	Total Gal. = 515	Average = 11.08	Total Days = 30	Total Gal. = 177	Average = 4.43

Area 5 Secondary Leachate Collection System Monitoring
Colonie Landfill

	Cell A			Cell B			Cell C		
	Date	Leakage (Gal)	Leakage Rate (Gal/Ac/Day)	Date	Leakage (Gal)	Leakage Rate (Gal/Ac/Day)	Date	Leakage (Gal)	Leakage Rate (Gal/Ac/Day)
4th Quarter	10/02/17	95593.4	0.00	10/02/17	96852.8	6.58	10/02/17	66267.4	0.00
	10/03/17	95593.4	0.00	10/03/17	96852.8	0.00	10/03/17	66267.4	0.00
	10/04/17	95618.6	3.50	10/04/17	96886.6	10.90	10/04/17	66303.0	5.35
	10/05/17	95618.6	0.00	10/05/17	96886.6	0.00	10/05/17	66303.0	0.00
	10/06/17	95618.6	0.00	10/06/17	96912.3	8.29	10/06/17	66303.0	0.00
	10/07/17	95618.6	0.00	10/07/17	96942.7	19.61	10/07/17	66303.0	0.00
	10/09/17	95645.4	2.98	10/09/17	96969.5	8.65	10/09/17	66338.0	5.26
	10/10/17	95645.4	0.00	10/10/17	96997.4	18.00	10/10/17	66338.0	0.00
	10/11/17	95645.4	0.00	10/11/17	97027.7	19.55	10/11/17	66338.0	0.00
	10/12/17	95645.4	0.00	10/12/17	97027.7	0.00	10/12/17	66338.0	0.00
	10/13/17	95671.2	3.58	10/13/17	97053.7	8.39	10/13/17	66338.0	0.00
	10/14/17	95671.2	0.00	10/14/17	97053.7	0.00	10/14/17	66338.0	0.00
	10/15/17	95671.2	0.00	10/15/17	97113.4	19.26	10/15/17	66373.3	4.42
	10/16/17	95671.2	0.00	10/16/17	97139.5	16.84	10/16/17	66373.3	0.00
	10/17/17	95697.1	3.60	10/17/17	97160.0	13.23	10/17/17	66373.3	0.00
	10/18/17	95697.1	0.00	10/18/17	97160.0	0.00	10/18/17	66373.3	0.00
	10/19/17	95697.1	0.00	10/19/17	97180.8	6.71	10/19/17	66373.3	0.00
	10/20/17	95697.1	0.00	10/20/17	97180.8	0.00	10/20/17	66373.3	0.00
	10/21/17	95697.1	0.00	10/21/17	97197.0	5.23	10/21/17	66408.0	4.35
	10/22/17	95697.1	0.00	10/22/17	97197.0	0.00	10/22/17	66408.0	0.00
	10/23/17	95697.1	0.00	10/23/17	97197.0	0.00	10/23/17	66408.0	0.00
	10/24/17	95722.9	2.05	10/24/17	97197.0	0.00	10/24/17	66408.0	0.00
	10/25/17	95722.9	0.00	10/25/17	97255.1	9.37	10/25/17	66408.0	0.00
	10/26/17	95722.9	0.00	10/26/17	97255.1	0.00	10/26/17	66408.0	0.00
	10/27/17	95748.7	4.78	10/27/17	97282.1	8.71	10/27/17	66443.0	4.39
	10/28/17	95748.7	0.00	10/28/17	97312.4	19.55	10/28/17	66443.0	0.00
	10/29/17	95748.7	0.00	10/29/17	97312.4	0.00	10/29/17	66443.0	0.00
	10/30/17	95748.7	0.00	10/30/17	97312.4	0.00	10/30/17	66443.0	0.00
	10/31/17	95774.5	3.58	10/31/17	97368.2	12.00	10/31/17	66443.0	0.00
	Total Days = 31	Total Gal. = 181	Average = 3.25	Total Days = 31	Total Gal. = 536	Average = 11.15	Total Days = 31	Total Gal. = 176	Average = 4.26
	11/01/17	95774.5	0.00	11/01/17	97397.4	18.84	11/01/17	66443.0	0.00
	11/02/17	95774.5	0.00	11/02/17	97397.4	0.00	11/02/17	66477.7	4.35
	11/03/17	95774.5	0.00	11/03/17	97427.0	9.55	11/03/17	66477.7	0.00
	11/04/17	95800.6	3.63	11/04/17	97457.6	19.74	11/04/17	66477.7	0.00
	11/05/17	95800.6	0.00	11/05/17	97457.6	0.00	11/05/17	66477.7	0.00
	11/06/17	95800.6	0.00	11/06/17	97457.6	0.00	11/06/17	66477.7	0.00
	11/07/17	95826.4	4.78	11/07/17	97485.2	5.94	11/07/17	66513.0	5.31
	11/08/17	95826.4	0.00	11/08/17	97515.6	19.61	11/08/17	66513.0	0.00
	11/09/17	95826.4	0.00	11/09/17	97545.9	19.55	11/09/17	66513.0	0.00
	11/10/17	95826.4	0.00	11/10/17	97545.9	0.00	11/10/17	66513.0	0.00
	11/13/17	95852.6	2.43	11/13/17	97606.5	9.77	11/13/17	66513.0	0.00
	11/15/17	95852.6	0.00	11/15/17	97666.9	19.48	11/15/17	66547.9	3.28
	11/16/17	95852.6	0.00	11/16/17	97666.9	0.00	11/16/17	66547.9	0.00
	11/17/17	95878.9	3.65	11/17/17	97697.5	9.87	11/17/17	66547.9	0.00
	11/18/17	95878.9	0.00	11/18/17	97697.5	0.00	11/18/17	66547.9	0.00
	11/20/17	95878.9	0.00	11/20/17	97725.5	6.02	11/20/17	66547.9	0.00
	11/21/17	95905.0	3.63	11/21/17	97758.2	21.10	11/21/17	66582.7	4.36
	11/22/17	95905.0	0.00	11/22/17	97772.4	9.16	11/22/17	66582.7	0.00
	11/24/17	95905.0	0.00	11/24/17	97849.0	24.71	11/24/17	66582.7	0.00
	11/25/17	95905.0	0.00	11/25/17	97849.0	0.00	11/25/17	66582.7	0.00
	11/27/17	95932.0	2.50	11/27/17	97879.2	6.49	11/27/17	66582.7	0.00
	11/28/17	95932.0	0.00	11/28/17	97879.2	0.00	11/28/17	66617.8	3.77
	11/29/17	95932.0	0.00	11/29/17	97911.5	10.42	11/29/17	66617.8	0.00
	11/30/17	95932.0	0.00	11/30/17	97911.5	0.00	11/30/17	66617.8	0.00
	Total Days = 30	Total Gal. = 158	Average = 2.92	Total Days = 30	Total Gal. = 543	Average = 11.68	Total Days = 30	Total Gal. = 175	Average = 4.38
	12/01/17	95957.7	3.57	12/01/17	97940.0	9.19	12/01/17	66617.8	0.00
	12/02/17	95957.7	0.00	12/02/17	97970.6	19.74	12/02/17	66617.8	0.00
	12/04/17	95957.7	0.00	12/04/17	98001.0	9.81	12/04/17	66652.5	4.35
	12/05/17	95983.8	3.63	12/05/17	98031.5	19.68	12/05/17	66652.5	0.00
	12/06/17	95983.8	0.00	12/06/17	98062.0	19.68	12/06/17	66652.5	0.00
	12/07/17	95983.8	0.00	12/07/17	98062.0	0.00	12/07/17	66652.5	0.00
	12/08/17	95983.8	0.00	12/08/17	98092.4	9.81	12/08/17	66679.5	5.08
	12/09/17	95983.8	0.00	12/09/17	98092.4	0.00	12/09/17	66679.5	0.00
	12/12/17	96009.8	2.06	12/12/17	98153.0	9.77	12/12/17	66679.5	0.00
	12/15/17	96035.9	4.83	12/15/17	98213.6	13.03	12/15/17	66714.9	3.80
	12/16/17	96035.9	0.00	12/16/17	98243.8	19.48	12/16/17	66714.9	0.00
	12/18/17	96062.4	4.91	12/18/17	98304.5	19.58	12/18/17	66714.9	0.00
	12/19/17	96062.4	0.00	12/19/17	98304.5	0.00	12/19/17	66714.9	0.00
	12/20/17	96062.4	0.00	12/20/17	98304.5	0.00	12/20/17	66714.9	0.00
	12/23/17	96062.4	0.00	12/23/17	98304.5	0.00	12/23/17	66714.9	0.00
	12/26/17	96088.4	1.81	12/26/17	98425.6	9.77	12/26/17	66749.8	2.39
	12/27/17	96088.4	0.00	12/27/17	98425.6	0.00	12/27/17	66749.8	0.00
	12/28/17	96114.6	7.28	12/28/17	98455.9	9.77	12/28/17	66749.8	0.00
	12/29/17	96114.6	0.00	12/29/17	98485.8	19.29	12/29/17	66784.7	8.75
	12/30/17	96114.6	0.00	12/30/17	98485.8	0.00	12/30/17	66784.7	0.00
	Total Days = 30	Total Gal. = 183	Average = 3.38	Total Days = 30	Total Gal. = 574	Average = 12.35	Total Days = 30	Total Gal. = 167	Average = 4.18

Area 5 Secondary Leachate Collection System Monitoring
Colonie Landfill

	Cell D			Cell E		
	Date	Leakage (Gal)	Leakage Rate (Gal/Ac/Day)	Date	Leakage (Gal)	Leakage Rate (Gal/Ac/Day)
1st Quarter	12/31/16	133.1		12/31/16	24.9	
	01/02/17	133.1	0.00	01/02/17	24.9	0.00
	01/03/17	133.1	0.00	01/03/17	24.9	0.00
	01/04/17	133.1	0.00	01/04/17	24.9	0.00
	01/05/17	133.1	0.00	01/05/17	24.9	0.00
	01/06/17	152.4	0.68	01/06/17	24.9	0.00
	01/07/17	152.4	0.00	01/07/17	24.9	0.00
	01/09/17	152.4	0.00	01/09/17	24.9	0.00
	01/10/17	152.4	0.00	01/10/17	24.9	0.00
	01/11/17	152.4	0.00	01/11/17	50.9	0.67
	01/12/17	152.4	0.00	01/12/17	50.9	0.00
	01/13/17	152.4	0.00	01/13/17	50.9	0.00
	01/14/17	152.4	0.00	01/14/17	50.9	0.00
	01/16/17	172.0	0.42	01/16/17	50.9	0.00
	01/17/17	172.0	0.00	01/17/17	50.9	0.00
	01/18/17	172.0	0.00	01/18/17	50.9	0.00
	01/19/17	172.0	0.00	01/19/17	50.9	0.00
	01/20/17	172.0	0.00	01/20/17	50.9	0.00
	01/21/17	172.0	0.00	01/21/17	50.9	0.00
	01/23/17	172.0	0.00	01/23/17	50.9	0.00
	01/24/17	172.0	0.00	01/24/17	50.9	0.00
	01/25/17	172.0	0.00	01/25/17	50.9	0.00
	01/26/17	191.6	0.42	01/26/17	60.0	0.17
	01/27/17	191.6	0.00	01/27/17	60.0	0.00
	01/28/17	191.6	0.00	01/28/17	103.6	6.14
	01/30/17	191.6	0.00	01/30/17	103.6	0.00
	01/31/17	191.6	0.00	01/31/17	103.6	0.00
	Total Days = 31	Total Gal. = 59	Average = .40	Total Days = 31	Total Gal. = 79	Average = .72
	02/01/17	191.6	0.00	02/01/17	182.5	5.56
	02/02/17	191.6	0.00	02/02/17	182.5	0.00
	02/03/17	211.1	0.52	02/03/17	182.5	0.00
	02/04/17	211.1	0.00	02/04/17	1995.9	170.27
	02/06/17	211.1	0.00	02/06/17	1995.9	0.00
	02/07/17	211.1	0.00	02/07/17	1995.9	0.00
	02/08/17	211.1	0.00	02/08/17	2065.7	4.92
	02/09/17	211.1	0.00	02/09/17	2065.7	0.00
	02/10/17	211.1	0.00	02/10/17	2065.7	0.00
	02/11/17	211.1	0.00	02/11/17	2065.7	0.00
	02/13/17	211.1	0.00	02/13/17	2065.7	0.00
	02/14/17	211.1	0.00	02/14/17	2065.7	0.00
	02/15/17	230.7	0.35	02/15/17	2065.7	0.00
	02/16/17	230.7	0.00	02/16/17	2065.7	0.00
	02/17/17	230.7	0.00	02/17/17	2065.7	0.00
	02/18/17	230.7	0.00	02/18/17	2065.7	0.00
	02/20/17	230.7	0.00	02/20/17	2065.7	0.00
	02/21/17	230.7	0.00	02/21/17	2065.7	0.00
	02/22/17	230.7	0.00	02/22/17	2065.7	0.00
	02/23/17	230.7	0.00	02/23/17	2065.7	0.00
	02/24/17	230.7	0.00	02/24/17	2065.7	0.00
	02/25/17	230.7	0.00	02/25/17	2065.7	0.00
	02/27/17	250.4	0.35	02/27/17	2065.7	0.00
	02/28/17	250.4	0.00	02/28/17	2065.7	0.00
	Total Days = 28	Total Gal. = 59	Average = .45	Total Days = 28	Total Gal. = 1962	Average = 19.74
	03/01/17	250.4	0.00	03/01/17	2065.7	0.00
	03/02/17	250.4	0.00	03/02/17	2075.3	0.12
	03/03/17	250.4	0.00	03/03/17	2075.3	0.00
	03/04/17	250.4	0.00	03/04/17	2075.3	0.00
	03/06/17	250.4	0.00	03/06/17	2075.3	0.00
	03/07/17	250.4	0.00	03/07/17	2095.0	1.11
	03/08/17	250.4	0.00	03/08/17	2095.0	0.00
	03/09/17	270.0	0.42	03/09/17	2095.0	0.00
	03/10/17	270.0	0.00	03/10/17	2095.0	0.00
	03/11/17	270.0	0.00	03/11/17	2095.0	0.00
	03/13/17	270.0	0.00	03/13/17	2095.0	0.00
	03/14/17	270.0	0.00	03/14/17	2095.0	0.00
	03/15/17	270.0	0.00	03/15/17	2095.0	0.00
	03/16/17	270.0	0.00	03/16/17	2095.0	0.00
	03/17/17	270.0	0.00	03/17/17	2095.0	0.00
	03/18/17	270.0	0.00	03/18/17	2095.0	0.00
	03/20/17	270.0	0.00	03/20/17	2131.7	0.80
	03/21/17	270.0	0.00	03/21/17	2131.7	0.00
	03/22/17	289.8	0.32	03/22/17	2131.7	0.00
	03/23/17	289.8	0.00	03/23/17	2131.7	0.00
	03/24/17	289.8	0.00	03/24/17	2131.7	0.00
	03/28/17	289.8	0.00	03/28/17	2131.7	0.00
	03/29/17	289.8	0.00	03/29/17	2131.7	0.00
	03/30/17	289.8	0.00	03/30/17	2131.7	0.00
	03/31/17	289.8	0.00	03/31/17	2131.7	0.00
	Total Days = 31	Total Gal. = 39	Average = .27	Total Days = 31	Total Gal. =66	Average = .60

	Cell D			Cell E		
	Date	Leakage (Gal)	Leakage Rate (Gal/Ac/Day)	Date	Leakage (Gal)	Leakage Rate (Gal/Ac/Day)
2nd Quarter	04/01/17	289.8	0.00	04/01/17	2131.7	0.00
	04/03/17	309.5	0.35	04/03/17	2142.3	0.21
	04/04/17	309.5	0.00	04/04/17	2142.3	0.00
	04/05/17	309.5	0.00	04/05/17	2142.3	0.00
	04/06/17	309.5	0.00	04/06/17	2142.3	0.00
	04/07/17	309.5	0.00	04/07/17	2142.3	0.00
	04/08/17	309.5	0.00	04/08/17	2142.3	0.00
	04/10/17	309.5	0.00	04/10/17	2142.3	0.00
	04/11/17	309.5	0.00	04/11/17	2223.2	2.85
	04/12/17	309.5	0.00	04/12/17	2223.2	0.00
	04/13/17	309.5	0.00	04/13/17	2223.2	0.00
	04/14/17	309.5	0.00	04/14/17	2223.2	0.00
	04/15/17	309.5	0.00	04/15/17	2223.2	0.00
	04/17/17	329.1	0.30	04/17/17	2223.2	0.00
	04/18/17	329.1	0.00	04/18/17	2223.2	0.00
	04/19/17	329.1	0.00	04/19/17	2223.2	0.00
	04/20/17	329.1	0.00	04/20/17	2223.2	0.00
	04/21/17	329.1	0.00	04/21/17	2223.2	0.00
	04/22/17	329.1	0.00	04/22/17	2223.2	0.00
	04/24/17	329.1	0.00	04/24/17	2223.2	0.00
	04/25/17	329.1	0.00	04/25/17	2223.2	0.00
	04/26/17	329.1	0.00	04/26/17	2223.2	0.00
	04/29/17	348.8	0.35	04/29/17	2223.2	0.00
	Total Days = 29	Total Gal. = 59	Average = .43	Total Days = 29	Total Gal. = 92	Average = 0.89
	05/01/17	348.8	0.00	05/01/17	2223.2	0.00
	05/02/17	348.8	0.00	05/02/17	2223.2	0.00
	05/03/17	348.8	0.00	05/03/17	2223.2	0.00
	05/04/17	348.8	0.00	05/04/17	2223.2	0.00
	05/05/17	368.2	0.69	05/05/17	2223.2	0.00
	05/06/17	368.2	0.00	05/06/17	2223.2	0.00
	05/08/17	368.2	0.00	05/08/17	2223.2	0.00
	05/09/17	368.2	0.00	05/09/17	2364.7	1.42
	05/10/17	368.2	0.00	05/10/17	2364.7	0.00
	05/11/17	368.2	0.00	05/11/17	2364.7	0.00
	05/12/17	387.8	0.60	05/12/17	2364.7	0.00
	05/13/17	387.8	0.00	05/13/17	2364.7	0.00
	05/15/17	387.8	0.00	05/15/17	2364.7	0.00
	05/16/17	387.8	0.00	05/16/17	2364.7	0.00
	05/17/17	387.8	0.00	05/17/17	4449.1	73.39
	05/18/17	387.8	0.00	05/18/17	4449.1	0.00
	05/19/17	387.8	0.00	05/19/17	4461.0	1.68
	05/20/17	387.8	0.00	05/20/17	4464.5	0.99
	05/22/17	407.3	0.41	05/22/17	4482.8	2.58
	05/23/17	407.3	0.00	05/23/17	4482.8	0.00
	05/24/17	407.3	0.00	05/24/17	4487.1	0.61
	05/25/17	407.3	0.00	05/25/17	4492.1	1.41
	05/26/17	426.9	1.04	05/26/17	4492.1	0.00
	05/27/17	426.9	0.00	05/27/17	4504.2	1.70
	05/29/17	426.9	0.00	05/29/17	4504.2	0.00
	05/30/17	426.9	0.00	05/30/17	4504.2	0.00
	05/31/17	426.9	0.00	05/31/17	4504.2	0.00
	Total Days = 32	Total Gal. = 78	Average = .52	Total Days = 32	Total Gal. = 2281	Average = 20.08
	06/01/17	426.9	0.00	06/01/17	4508.2	0.23
	06/02/17	426.9	0.00	06/02/17	4508.2	0.00
	06/03/17	426.9	0.00	06/03/17	4508.2	0.00
	06/05/17	426.9	0.00	06/05/17	4512.3	0.29
	06/06/17	426.9	0.00	06/06/17	4512.3	0.00
	06/07/17	446.4	0.35	06/07/17	4512.3	0.00
	06/08/17	446.4	0.00	06/08/17	4512.3	0.00
	06/09/17	446.4	0.00	06/09/17	4512.3	0.00
	06/10/17	446.4	0.00	06/10/17	4512.3	0.00
	06/12/17	446.4	0.00	06/12/17	4512.3	0.00
	06/13/17	446.4	0.00	06/13/17	4512.3	0.00
	06/14/17	446.4	0.00	06/14/17	4512.3	0.00
	06/15/17	446.4	0.00	06/15/17	4512.3	0.00
	06/16/17	446.4	0.00	06/16/17	4512.3	0.00
	06/17/17	465.8	0.41	06/17/17	4512.3	0.00
	06/20/17	465.8	0.00	06/20/17	4512.3	0.00
	06/21/17	465.8	0.00	06/21/17	4512.3	0.00
	06/22/17	465.8	0.00	06/22/17	4512.3	0.00
	06/23/17	465.8	0.00	06/23/17	4512.3	0.00
	06/24/17	465.8	0.00	06/24/17	4512.3	0.00
	06/26/17	465.8	0.00	06/26/17	4512.3	0.00
	06/27/17	465.8	0.00	06/27/17	4512.3	0.00
	06/28/17	485.4	0.38	06/28/17	4512.3	0.00
	06/29/17	485.4	0.00	06/29/17	4512.3	0.00
	06/30/17	485.4	0.00	06/30/17	4512.3	0.00
	Total Days = 30	Total Gal. = 59	Average = .41	Total Days = 30	Total Gal. = 8	Average = .08

3rd Quarter
*Not leachate

Cell D			Cell E		
Date	**Leakage (Gal)**	**Leakage Rate (Gal/Ac/Day)**	**Date**	**Leakage (Gal)**	**Leakage Rate (Gal/Ac/Day)**
07/01/17	485.4	0.00	07/01/17	4512.3	0.00
07/03/17	15945.8	0.00	07/03/17	4512.3	0.00
07/04/17	15945.8	0.00	07/04/17	4512.3	0.00
07/05/17	15945.8	0.00	07/05/17	4512.3	0.00
07/06/17	15945.8	0.00	07/06/17	4512.3	0.00
07/07/17	15945.8	0.00	07/07/17	4512.3	0.00
07/08/17	15945.8	0.00	07/08/17	4512.3	0.00
07/10/17	15965.3	0.59	07/10/17	4512.3	0.00
07/11/17	15965.3	0.00	07/11/17	4512.3	0.00
07/12/17	15965.3	0.00	07/12/17	4512.3	0.00
07/13/17	15965.3	0.00	07/13/17	4512.3	0.00
07/14/17	15965.3	0.00	07/14/17	4512.3	0.00
07/15/17	15965.3	0.00	07/15/17	4512.3	0.00
07/17/17	15965.3	0.00	07/17/17	4512.3	0.00
07/18/17	15965.3	0.00	07/18/17	4512.3	0.00
07/19/17	15984.9	0.46	07/19/17	4512.3	0.00
07/20/17	15984.9	0.00	07/20/17	4512.3	0.00
07/21/17	15984.9	0.00	07/21/17	4512.3	0.00
07/22/17	15984.9	0.00	07/22/17	4512.3	0.00
07/24/17	15984.9	0.00	07/24/17	4512.3	0.00
07/25/17	16004.5	0.70	07/25/17	4512.3	0.00
07/26/17	16004.5	0.00	07/26/17	4512.3	0.00
07/27/17	16004.5	0.00	07/27/17	4526.3	0.15
07/28/17	16004.5	0.00	07/28/17	4526.3	0.00
07/29/17	16004.5	0.00	07/29/17	4526.3	0.00
07/31/17	16024.1	0.70	07/31/17	4526.3	0.00
Total Days = 31	Total Gal. = 78	Average = .54	Total Days = 31	Total Gal. = 14	Average = .13
08/01/17	16024.1	0.00	08/01/17	4526.3	0.00
08/02/17	16024.1	0.00	08/02/17	4526.3	0.00
08/03/17	16024.1	0.00	08/03/17	4526.3	0.00
08/04/17	16043.7	1.04	08/04/17	4526.3	0.00
08/05/17	16043.7	0.00	08/05/17	4526.3	0.00
08/07/17	16043.7	0.00	08/07/17	4526.3	0.00
08/09/17	16063.4	0.84	08/09/17	4526.3	0.00
08/11/17	16083.0	2.09	08/11/17	4526.3	0.00
08/14/17	16083.0	0.00	08/14/17	4526.3	0.00
08/15/17	16083.0	0.00	08/15/17	4526.3	0.00
08/16/17	16083.0	0.00	08/16/17	4526.3	0.00
08/17/17	16083.0	0.00	08/17/17	4526.3	0.00
08/19/17	16083.0	0.00	08/19/17	4526.3	0.00
08/21/17	16083.0	0.00	08/21/17	4526.3	0.00
08/23/17	16122.4	0.70	08/23/17	4537.8	0.12
08/24/17	16122.4	0.00	08/24/17	4537.8	0.00
08/25/17	16142.2	2.11	08/25/17	4537.8	0.00
08/26/17	16142.2	0.00	08/26/17	4537.8	0.00
08/28/17	16142.2	0.00	08/28/17	4537.8	0.00
08/29/17	16142.2	0.00	08/29/17	4537.8	0.00
08/30/17	16142.2	0.00	08/30/17	4537.8	0.00
08/31/17	16142.2	0.00	08/31/17	4537.8	0.00
Total Days = 31	Total Gal. = 247	Average = 1.69	Total Days = 31	Total Gal. = 12	Average = .10
09/01/17	16142.2	0.00	09/01/17	4537.8	0.00
09/02/17	16142.2	0.00	09/02/17	4537.8	0.00
09/03/17	16142.2	0.00	09/03/17	4537.8	0.00
09/04/17	16181.6	0.84	09/04/17	4537.8	0.00
09/05/17	16181.6	0.00	09/05/17	4537.8	0.00
09/06/17	16181.6	0.00	09/06/17	4537.8	0.00
09/07/17	16201.4	1.40	09/07/17	4559.6	0.41
09/08/17	16201.4	0.00	09/08/17	4559.6	0.00
09/09/17	16201.4	0.00	09/09/17	4559.6	0.00
09/10/17	16201.4	0.00	09/10/17	4559.6	0.00
09/11/17	16221.2	1.05	09/11/17	4559.6	0.00
09/12/17	16221.2	0.00	09/12/17	4559.6	0.00
09/13/17	16221.2	0.00	09/13/17	4559.6	0.00
09/14/17	16221.2	0.00	09/14/17	4559.6	0.00
09/15/17	16240.9	1.05	09/15/17	4559.6	0.00
09/16/17	16240.9	0.00	09/16/17	4559.6	0.00
09/17/17	16240.9	0.00	09/17/17	4559.6	0.00
09/18/17	16260.7	1.40	09/18/17	4559.6	0.00
09/19/17	16260.7	0.00	09/19/17	4559.6	0.00
09/20/17	16260.7	0.00	09/20/17	4559.6	0.00
09/21/17	16260.7	0.00	09/21/17	4559.6	0.00
09/22/17	16280.5	1.05	09/22/17	4559.6	0.00
09/23/17	16280.5	0.00	09/23/17	4559.6	0.00
09/24/17	16280.5	0.00	09/24/17	4559.6	0.00
09/25/17	16280.5	0.00	09/25/17	4559.6	0.00
09/26/17	16303.3	1.21	09/26/17	4559.6	0.00
09/27/17	16303.3	0.00	09/27/17	4559.6	0.00
09/28/17	16303.3	0.00	09/28/17	4559.6	0.00
09/29/17	16317.8	1.03	09/29/17	4596.6	0.47
09/30/17	16317.8	0.00	09/30/17	4596.6	0.00
Total Days = 30	Total Gal. = 176	Average = 1.25	Total Days = 30	Total Gal. = 59	Average = .55

Area 5 Secondary Leachate Collection System Monitoring
Colonie Landfill

	Cell D			Cell E		
	Date	Leakage (Gal)	Leakage Rate (Gal/Ac/Day)	Date	Leakage (Gal)	Leakage Rate (Gal/Ac/Day)
4th Quarter	10/02/17	16317.8	0.00	10/02/17	4596.6	0.00
	10/03/17	16337.4	1.04	10/03/17	4596.6	0.00
	10/04/17	16337.4	0.00	10/04/17	4596.6	0.00
	10/05/17	16337.4	0.00	10/05/17	4596.6	0.00
	10/06/17	16337.4	0.00	10/06/17	4596.6	0.00
	10/07/17	16337.4	0.00	10/07/17	4596.6	0.00
	10/09/17	16357.4	0.71	10/09/17	4596.6	0.00
	10/10/17	16357.4	0.00	10/10/17	4596.6	0.00
	10/11/17	16357.4	0.00	10/11/17	4596.6	0.00
	10/12/17	16357.4	0.00	10/12/17	4596.6	0.00
	10/13/17	16376.8	1.03	10/13/17	4596.6	0.00
	10/14/17	16376.8	0.00	10/14/17	4596.6	0.00
	10/15/17	16376.8	0.00	10/15/17	4596.6	0.00
	10/16/17	16376.8	0.00	10/16/17	4596.6	0.00
	10/17/17	16376.8	0.00	10/17/17	4596.6	0.00
	10/18/17	16376.8	0.00	10/18/17	4596.6	0.00
	10/19/17	16376.8	0.00	10/19/17	4596.6	0.00
	10/20/17	16376.8	0.00	10/20/17	4596.6	0.00
	10/21/17	16396.5	0.52	10/21/17	4608.3	0.16
	10/22/17	16396.5	0.00	10/22/17	4608.3	0.00
	10/23/17	16396.5	0.00	10/23/17	4608.3	0.00
	10/24/17	16396.5	0.00	10/24/17	4608.3	0.00
	10/25/17	16416.3	1.05	10/25/17	4608.3	0.00
	10/26/17	16416.3	0.00	10/26/17	4608.3	0.00
	10/27/17	16416.3	0.00	10/27/17	4608.3	0.00
	10/28/17	16416.3	0.00	10/28/17	4608.3	0.00
	10/29/17	16416.3	0.00	10/29/17	4608.3	0.00
	10/30/17	16416.3	0.00	10/30/17	4608.3	0.00
	10/31/17	16435.9	0.70	10/31/17	4608.3	0.00
	Total Days = 31	Total Gal. = 118	Average = .81	Total Days = 31	Total Gal. = 12	Average = .11
	11/01/17	16435.9	0.00	11/01/17	4608.3	0.00
	11/02/17	16435.9	0.00	11/02/17	4608.3	0.00
	11/03/17	16455.6	1.40	11/03/17	4608.3	0.00
	11/04/17	16455.6	0.00	11/04/17	4608.3	0.00
	11/05/17	16455.6	0.00	11/05/17	4608.3	0.00
	11/06/17	16455.6	0.00	11/06/17	4608.3	0.00
	11/07/17	16475.3	1.05	11/07/17	4617.0	0.14
	11/08/17	16475.3	0.00	11/08/17	4617.0	0.00
	11/09/17	16475.3	0.00	11/09/17	4617.0	0.00
	11/10/17	16475.3	0.00	11/10/17	4617.0	0.00
	11/13/17	16494.9	0.70	11/13/17	4617.0	0.00
	11/15/17	16494.9	0.00	11/15/17	4617.0	0.00
	11/16/17	16494.9	0.00	11/16/17	4617.0	0.00
	11/17/17	16514.6	1.05	11/17/17	4617.0	0.00
	11/18/17	16514.6	0.00	11/18/17	4617.0	0.00
	11/20/17	16514.6	0.00	11/20/17	4617.0	0.00
	11/21/17	16534.3	1.05	11/21/17	4617.0	0.00
	11/22/17	16534.3	0.00	11/22/17	4617.0	0.00
	11/24/17	16534.3	0.00	11/24/17	4617.0	0.00
	11/25/17	16554.1	1.05	11/25/17	4617.0	0.00
	11/27/17	16554.1	0.00	11/27/17	4653.3	0.51
	11/28/17	16554.1	0.00	11/28/17	4653.3	0.00
	11/29/17	16593.5	2.10	11/29/17	4653.3	0.00
	11/30/17	16593.5	0.00	11/30/17	4653.3	0.00
	Total Days = 30	Total Gal. = 177	Average = 1.26	Total Days = 30	Total Gal. = 45	Average = .42
	12/01/17	16593.5	0.00	12/01/17	4653.3	0.00
	12/02/17	16593.5	0.00	12/02/17	4653.3	0.00
	12/04/17	16613.2	0.84	12/04/17	4653.3	0.00
	12/05/17	16613.2	0.00	12/05/17	4653.3	0.00
	12/06/17	16633.1	2.12	12/06/17	4653.3	0.00
	12/07/17	16633.1	0.00	12/07/17	4653.3	0.00
	12/08/17	16633.1	0.00	12/08/17	4653.3	0.00
	12/09/17	16633.1	0.00	12/09/17	4653.3	0.00
	12/12/17	16672.6	1.40	12/12/17	4653.3	0.00
	12/15/17	16672.6	0.00	12/15/17	4653.3	0.00
	12/16/17	16692.4	1.05	12/16/17	4653.3	0.00
	12/18/17	16712.3	2.12	12/18/17	4655.8	0.03
	12/19/17	16712.3	0.00	12/19/17	4655.8	0.00
	12/20/17	16712.3	0.00	12/20/17	4655.8	0.00
	12/23/17	16712.3	0.00	12/23/17	4655.8	0.00
	12/26/17	16771.5	1.57	12/26/17	4655.8	0.00
	12/27/17	16771.5	0.00	12/27/17	4655.8	0.00
	12/28/17	16771.5	0.00	12/28/17	4655.8	0.00
	12/29/17	16791.4	1.41	12/29/17	4655.8	0.00
	12/30/17	16791.4	0.00	12/30/17	4655.8	0.00
	Total Days = 30	Total Gal. = 198	Average = 1.40	Total Days = 30	Total Gal. = 3	Average = .02

	Area 6 Cell A				Area 6 Cell B				Area 6 COMBINED		
	Date	Meter Reading (Gal)	Leakage Amount (Gal)	Leakage Rate (Gal/Ac/Day)	Date	Meter Reading (Gal)	Leakage Amount (Gal)	Leakage Rate (Gal/Ac/Day)	Date	Leakage Amount (Gal)	Leakage Rate (Gal/Ac/Day)
1st Quarter	12/31/16	4895.2	0.0		12/31/16	126803.6	0.0		12/31/16	0.0	
	01/02/17	4895.2	0.0	0.00	01/02/17	126803.6	0.0	0.00	01/02/17	0.0	0.00
	01/03/17	4895.2	0.0	0.00	01/03/17	126803.6	0.0	0.00	01/03/17	0.0	0.00
	01/04/17	4895.2	0.0	0.00	01/04/17	126803.6	0.0	0.00	01/04/17	0.0	0.00
	01/05/17	4895.2	0.0	0.00	01/05/17	126803.6	0.0	0.00	01/05/17	0.0	0.00
	01/06/17	4895.2	0.0	0.00	01/06/17	126803.6	0.0	0.00	01/06/17	0.0	0.00
	01/07/17	4895.2	0.0	0.00	01/07/17	126803.6	0.0	0.00	01/07/17	0.0	0.00
	01/09/17	4895.2	0.0	0.00	01/09/17	126839.6	36.0	0.76	01/09/17	36.0	0.37
	01/10/17	4895.2	0.0	0.00	01/10/17	126880.2	40.6	7.76	01/10/17	40.6	3.78
	01/11/17	4895.2	0.0	0.00	01/11/17	126912.7	32.5	6.21	01/11/17	32.5	3.02
	01/12/17	4895.2	0.0	0.00	01/12/17	126958.6	45.9	8.78	01/12/17	45.9	4.27
	01/13/17	4895.2	0.0	0.00	01/13/17	127004.5	45.9	8.78	01/13/17	45.9	4.27
	01/14/17	4895.2	0.0	0.00	01/14/17	127004.5	0.0	0.00	01/14/17	0.0	0.00
	01/16/17	4895.2	0.0	0.00	01/16/17	127004.5	0.0	0.00	01/16/17	0.0	0.00
	01/17/17	4895.2	0.0	0.00	01/17/17	127004.5	0.0	0.00	01/17/17	0.0	0.00
	01/18/17	4895.2	0.0	0.00	01/18/17	127004.5	0.0	0.00	01/18/17	0.0	0.00
	01/19/17	4895.2	0.0	0.00	01/19/17	127004.5	0.0	0.00	01/19/17	0.0	0.00
	01/20/17	4895.2	0.0	0.00	01/20/17	127004.5	0.0	0.00	01/20/17	0.0	0.00
	01/21/17	4895.2	0.0	0.00	01/21/17	127004.5	0.0	0.00	01/21/17	0.0	0.00
	01/23/17	4895.2	0.0	0.00	01/23/17	127004.5	0.0	0.00	01/23/17	0.0	0.00
	01/24/17	4895.2	0.0	0.00	01/24/17	127120.4	115.9	2.01	01/24/17	115.9	0.98
	01/25/17	4895.2	0.0	0.00	01/25/17	127178.7	58.3	11.15	01/25/17	58.3	5.42
	01/26/17	4895.2	0.0	0.00	01/26/17	127178.7	0.0	0.00	01/26/17	0.0	0.00
	01/27/17	4895.2	0.0	0.00	01/27/17	127178.7	0.0	0.00	01/27/17	0.0	0.00
	01/28/17	4895.2	0.0	0.00	01/28/17	127188.8	10.1	0.64	01/28/17	10.1	0.31
	01/30/17	4895.2	0.0	0.00	01/30/17	127253.4	64.6	6.18	01/30/17	64.6	3.00
	01/31/17	4895.2	0.0	0.00	01/31/17	127339.8	86.4	16.52	01/31/17	86.4	8.04
	Total Days =31	Total = 0.0	0.0	Average=0.00	Total Days =31	Total = 536.2	536.2	Average = 3.31	Total Days =31	536.2	Average =1.61
	02/01/17	4895.3	0.1	0.02	02/01/17	127339.8	0.0	0.00	02/01/17	0.1	0.01
	02/02/17	4895.3	0.0	0.00	02/02/17	127431.2	91.4	8.74	02/02/17	91.4	8.50
	02/03/17	4895.3	0.0	0.00	02/03/17	127431.2	0.0	0.00	02/03/17	0.0	0.00
	02/04/17	4895.3	0.0	0.00	02/04/17	127431.2	0.0	0.00	02/04/17	0.0	0.00
	02/06/17	4895.3	0.0	0.00	02/06/17	127431.2	0.0	0.00	02/06/17	0.0	0.00
	02/07/17	4895.3	0.0	0.00	02/07/17	127431.2	0.0	0.00	02/07/17	0.0	0.00
	02/08/17	4895.3	0.0	0.00	02/08/17	127431.2	0.0	0.00	02/08/17	0.0	0.00
	02/09/17	4895.3	0.0	0.00	02/09/17	127431.2	0.0	0.00	02/09/17	0.0	0.00
	02/10/17	4895.3	0.0	0.00	02/10/17	127431.2	0.0	0.00	02/10/17	0.0	0.00
	02/11/17	4895.3	0.0	0.00	02/11/17	127431.2	0.0	0.00	02/11/17	0.0	0.00
	02/13/17	4895.3	0.0	0.00	02/13/17	127431.2	0.0	0.00	02/13/17	0.0	0.00
	02/14/17	4895.3	0.0	0.00	02/14/17	127431.2	0.0	0.00	02/14/17	0.0	0.00
	02/15/17	4895.3	0.0	0.00	02/15/17	127497.2	66.0	0.97	02/15/17	66.0	0.47
	02/16/17	4895.3	0.0	0.00	02/16/17	127497.2	0.0	0.00	02/16/17	0.0	0.00
	02/17/17	4895.3	0.0	0.00	02/17/17	127497.2	0.0	0.00	02/17/17	0.0	0.00
	02/18/17	4895.3	0.0	0.00	02/18/17	127497.2	0.0	0.00	02/18/17	0.0	0.00
	02/20/17	4895.3	0.0	0.00	02/20/17	127497.2	0.0	0.00	02/20/17	0.0	0.00
	02/21/17	4895.3	0.0	0.00	02/21/17	127497.2	0.0	0.00	02/21/17	0.0	0.00
	02/22/17	4895.3	0.0	0.00	02/22/17	127497.2	0.0	0.00	02/22/17	0.0	0.00
	02/23/17	4895.3	0.0	0.00	02/23/17	127497.2	0.0	0.00	02/23/17	0.0	0.00
	02/24/17	4895.3	0.0	0.00	02/24/17	127557.8	60.6	1.29	02/24/17	60.6	0.63
	02/25/17	4895.3	0.0	0.00	02/25/17	127557.8	0.0	0.00	02/25/17	0.0	0.00
	02/27/17	4895.3	0.0	0.00	02/27/17	127557.8	0.0	0.00	02/27/17	0.0	0.00
	02/28/17	4895.3	0.0	0.00	02/28/17	127557.8	0.0	0.00	02/28/17	0.0	0.00
	Total Days =28	Total = 0.1	0.1	Average=0.0	Total Days =28	Total =218.0	218.0	Average =1.49	Total Days =28	218.1	Average = .72
	03/01/17	4895.3	0.0	0.00	03/01/17	127557.8	0.0	0.00	03/01/17	0.0	0.00
	03/02/17	4895.3	0.0	0.00	03/02/17	127557.8	0.0	0.00	03/02/17	0.0	0.00
	03/03/17	4895.3	0.0	0.00	03/03/17	127656.4	98.6	2.69	03/03/17	98.6	1.31
	03/04/17	4895.3	0.0	0.00	03/04/17	127656.4	0.0	0.00	03/04/17	0.0	0.00
	03/06/17	4895.3	0.0	0.00	03/06/17	127702.3	45.9	2.93	03/06/17	45.9	1.42
	03/07/17	4895.3	0.0	0.00	03/07/17	127754.6	52.3	10.00	03/07/17	52.3	4.87
	03/08/17	4895.3	0.0	0.00	03/08/17	127802.3	47.7	9.12	03/08/17	47.7	4.44
	03/09/17	4895.3	0.0	0.00	03/09/17	127874.5	72.2	13.80	03/09/17	72.2	6.72
	03/10/17	4895.3	0.0	0.00	03/10/17	127968.5	94.0	17.97	03/10/17	94.0	8.74
	03/11/17	4895.3	0.0	0.00	03/11/17	128007.0	38.5	7.36	03/11/17	38.5	3.58
	03/13/17	4895.3	0.0	0.00	03/13/17	128007.0	0.0	0.00	03/13/17	0.0	0.00
	03/14/17	4895.3	0.0	0.00	03/14/17	128007.0	0.0	0.00	03/14/17	0.0	0.00
	03/15/17	4895.3	0.0	0.00	03/15/17	128007.0	0.0	0.00	03/15/17	0.0	0.00
	03/16/17	4895.3	0.0	0.00	03/16/17	128007.0	0.0	0.00	03/16/17	0.0	0.00
	03/17/17	4895.3	0.0	0.00	03/17/17	128007.0	0.0	0.00	03/17/17	0.0	0.00
	03/18/17	4895.3	0.0	0.00	03/18/17	128007.0	0.0	0.00	03/18/17	0.0	0.00
	03/20/17	4895.3	0.0	0.00	03/20/17	128007.0	0.0	0.00	03/20/17	0.0	0.00
	03/21/17	4895.3	0.0	0.00	03/21/17	128091.4	84.4	1.61	03/21/17	84.4	0.79
	03/22/17	4895.3	0.0	0.00	03/22/17	128091.4	0.0	0.00	03/22/17	0.0	0.00
	03/23/17	4895.3	0.0	0.00	03/23/17	128091.4	0.0	0.00	03/23/17	0.0	0.00
	03/24/17	4895.3	0.0	0.00	03/24/17	128242.7	151.3	9.64	03/24/17	151.3	4.69
	03/28/17	4895.3	0.0	0.00	03/28/17	128242.7	0.0	0.00	03/28/17	0.0	0.00
	03/29/17	4895.3	0.0	0.00	03/29/17	128242.7	0.0	0.00	03/29/17	0.0	0.00
	03/30/17	4895.3	0.0	0.00	03/30/17	128242.7	0.0	0.00	03/30/17	0.0	0.00
	03/31/17	4895.3	0.0	0.00	03/31/17	128242.7	0.0	0.00	03/31/17	0.0	0.00
	Total Days =31	Total = 0.0	0.0	Average= .00	Total Days =31	Total = 684.9	684.9	Average = 4.22	Total Days =31	684.9	Average = 2.06

*Cell A flows into Cell B so combined ALR for both cells is given.

	Area 6 Cell A				Area 6 Cell B				Area 6 COMBINED		
	Date	Meter Reading (Gal)	Leakage Amount (Gal)	Leakage Rate (Gal/Ac/Day)	Date	Meter Reading (Gal)	Leakage Amount (Gal)	Leakage Rate (Gal/Ac/Day)	Date	Leakage Amount (Gal)	Leakage Rate (Gal/Ac/Day)
2nd Quarter	04/01/17	4895.3	0.0	0.00	04/01/17	128242.7	0.0	0.00	04/01/17	0.0	0.00
	04/03/17	4908.4	13.1	0.79	04/03/17	128255.6	12.9	0.82	04/03/17	26.0	0.81
	04/04/17	4908.4	0.0	0.00	04/04/17	128255.6	0.0	0.00	04/04/17	0.0	0.00
	04/05/17	4908.4	0.0	0.00	04/05/17	128324.7	69.1	6.61	04/05/17	69.1	3.21
	04/06/17	4908.4	0.0	0.00	04/06/17	128324.7	0.0	0.00	04/06/17	0.0	0.00
	04/07/17	4908.4	0.0	0.00	04/07/17	128356.8	32.1	3.07	04/07/17	32.1	1.49
	04/08/17	4908.4	0.0	0.00	04/08/17	128400.5	43.7	8.36	04/08/17	43.7	4.07
	04/10/17	4908.5	0.1	0.00	04/10/17	128400.5	0.0	0.00	04/10/17	0.1	0.00
	04/11/17	4908.5	0.0	0.00	04/11/17	128452.7	52.2	3.33	04/11/17	52.2	1.62
	04/12/17	4908.5	0.0	0.00	04/12/17	128501.2	48.5	9.27	04/12/17	48.5	4.51
	04/13/17	4908.5	0.0	0.00	04/13/17	128552.6	51.4	9.83	04/13/17	51.4	4.78
	04/14/17	4908.5	0.0	0.00	04/14/17	128601.8	49.2	9.41	04/14/17	49.2	4.58
	04/15/17	4908.5	0.0	0.00	04/15/17	128651.0	49.2	9.41	04/15/17	49.2	4.58
	04/17/17	4908.5	0.0	0.00	04/17/17	128702.6	51.6	4.93	04/17/17	51.6	2.40
	04/18/17	4908.5	0.0	0.00	04/18/17	128751.6	49.0	9.37	04/18/17	49.0	4.56
	04/19/17	4908.5	0.0	0.00	04/19/17	128802.7	51.1	9.77	04/19/17	51.1	4.75
	04/20/17	4908.5	0.0	0.00	04/20/17	128856.3	53.6	10.25	04/20/17	53.6	4.99
	04/21/17	4908.5	0.0	0.00	04/21/17	128902.4	46.1	8.81	04/21/17	46.1	4.29
	04/22/17	4908.5	0.0	0.00	04/22/17	128955.7	53.3	10.19	04/22/17	53.3	4.96
	04/24/17	4908.5	0.0	0.00	04/24/17	129000.6	44.9	4.29	04/24/17	44.9	2.09
	04/25/17	4908.5	0.0	0.00	04/25/17	129000.6	0.0	0.00	04/25/17	0.0	0.00
	04/26/17	4908.5	0.0	0.00	04/26/17	129000.6	0.0	0.00	04/26/17	0.0	0.00
	04/29/17	4918.3	9.8	0.09	04/29/17	129068.3	67.7	2.59	04/29/17	77.5	1.44
	Total Days =29	Total = 23.0	23.0	Average=.14	Total Days =29	Total =825.6	825.6	Average = 5.44	Total Days = 30	848.6	Average = 2.72
	05/01/17	4918.3	0.0	0.00	05/01/17	129145.4	77.1	7.37	05/01/17	77.1	3.59
	05/02/17	4918.3	0.0	0.00	05/02/17	129145.4	0.0	0.00	05/02/17	0.0	0.00
	05/03/17	4918.3	0.0	0.00	05/03/17	129145.4	0.0	0.00	05/03/17	0.0	0.00
	05/04/17	4918.3	0.0	0.00	05/04/17	129145.4	0.0	0.00	05/04/17	0.0	0.00
	05/05/17	4918.3	0.0	0.00	05/05/17	129145.4	0.0	0.00	05/05/17	0.0	0.00
	05/06/17	4918.3	0.0	0.00	05/06/17	129233.9	88.5	3.38	05/06/17	88.5	1.65
	05/08/17	4918.3	0.0	0.00	05/08/17	129233.9	0.0	0.00	05/08/17	0.0	0.00
	05/09/17	4918.3	0.0	0.00	05/09/17	129318.3	84.4	5.38	05/09/17	84.4	2.62
	05/10/17	4918.3	0.0	0.00	05/10/17	129318.3	0.0	0.00	05/10/17	0.0	0.00
	05/11/17	4918.3	0.0	0.00	05/11/17	129318.3	0.0	0.00	05/11/17	0.0	0.00
	05/12/17	4918.3	0.0	0.00	05/12/17	129318.3	0.0	0.00	05/12/17	0.0	0.00
	05/13/17	4918.3	0.0	0.00	05/13/17	129318.3	0.0	0.00	05/13/17	0.0	0.00
	05/15/17	4918.3	0.0	0.00	05/15/17	129318.3	0.0	0.00	05/15/17	0.0	0.00
	05/16/17	4918.3	0.0	0.00	05/16/17	129318.3	0.0	0.00	05/16/17	0.0	0.00
	05/17/17	4918.3	0.0	0.00	05/17/17	129318.3	0.0	0.00	05/17/17	0.0	0.00
	05/18/17	4918.3	0.0	0.00	05/18/17	129318.3	0.0	0.00	05/18/17	0.0	0.00
	05/19/17	4918.3	0.0	0.00	05/19/17	129318.3	0.0	0.00	05/19/17	0.0	0.00
	05/20/17	4918.3	0.0	0.00	05/20/17	129318.3	0.0	0.00	05/20/17	0.0	0.00
	05/22/17	4918.3	0.0	0.00	05/22/17	129318.3	0.0	0.00	05/22/17	0.0	0.00
	05/23/17	4918.3	0.0	0.00	05/23/17	129318.3	0.0	0.00	05/23/17	0.0	0.00
	05/24/17	4918.3	0.0	0.00	05/24/17	129372.8	54.5	0.69	05/24/17	54.5	0.34
	05/25/17	4918.3	0.0	0.00	05/25/17	129372.8	0.0	0.00	05/25/17	0.0	0.00
	05/26/17	4918.3	0.0	0.00	05/26/17	129372.8	0.0	0.00	05/26/17	0.0	0.00
	05/27/17	4918.3	0.0	0.00	05/27/17	129372.8	0.0	0.00	05/27/17	0.0	0.00
	05/29/17	4918.3	0.0	0.00	05/29/17	129372.8	0.0	0.00	05/29/17	0.0	0.00
	05/30/17	4918.3	0.0	0.00	05/30/17	129372.8	0.0	0.00	05/30/17	0.0	0.00
	05/31/17	4918.3	0.0	0.00	05/31/17	129372.8	0.0	0.00	05/31/17	0.0	0.00
	Total Days =32	Total = 0.0	0.0	Average=.00	Total Days =32	Total =304.5	304.5	Average =1.82	Total Days =32	304.5	Average =.89
	06/01/17	4918.3	0.0	0.00	06/01/17	129372.8	0.0	0.00	06/01/17	0.0	0.00
	06/02/17	4918.3	0.0	0.00	06/02/17	129372.8	0.0	0.00	06/02/17	0.0	0.00
	06/03/17	4925.9	7.6	0.46	06/03/17	129463.0	90.2	1.72	06/03/17	97.8	0.91
	06/05/17	4925.9	0.0	0.00	06/05/17	129513.5	50.5	4.83	06/05/17	50.5	2.35
	06/06/17	4925.9	0.0	0.00	06/06/17	129513.5	0.0	0.00	06/06/17	0.0	0.00
	06/07/17	4925.9	0.0	0.00	06/07/17	129562.9	49.4	4.72	06/07/17	49.4	2.30
	06/08/17	4925.9	0.0	0.00	06/08/17	129619.8	56.9	10.88	06/08/17	56.9	5.29
	06/09/17	4925.9	0.0	0.00	06/09/17	129668.1	48.3	9.24	06/09/17	48.3	4.49
	06/10/17	4925.9	0.0	0.00	06/10/17	129749.8	81.7	15.62	06/10/17	81.7	7.60
	06/12/17	4925.9	0.0	0.00	06/12/17	129749.8	0.0	0.00	06/12/17	0.0	0.00
	06/13/17	4925.9	0.0	0.00	06/13/17	129749.8	0.0	0.00	06/13/17	0.0	0.00
	06/14/17	4925.9	0.0	0.00	06/14/17	129943.1	193.3	9.24	06/14/17	193.3	4.50
	06/15/17	4925.9	0.0	0.00	06/15/17	130014.3	71.2	13.61	06/15/17	71.2	6.62
	06/16/17	4925.9	0.0	0.00	06/16/17	130014.3	0.0	0.00	06/16/17	0.0	0.00
	06/17/17	4925.9	0.0	0.00	06/17/17	130014.3	0.0	0.00	06/17/17	0.0	0.00
	06/20/17	4926.0	0.1	0.00	06/20/17	130014.3	0.0	0.00	06/20/17	0.1	0.00
	06/21/17	4926.0	0.0	0.00	06/21/17	130014.3	0.0	0.00	06/21/17	0.0	0.00
	06/22/17	4943.0	17.0	0.16	06/22/17	130226.4	212.1	5.79	06/22/17	229.1	3.04
	06/23/17	4943.0	0.0	0.00	06/23/17	130268.7	42.3	8.09	06/23/17	42.3	3.93
	06/24/17	4943.0	0.0	0.00	06/24/17	130404.2	135.5	25.91	06/24/17	135.5	12.60
	06/26/17	4943.0	0.0	0.00	06/26/17	130404.2	0.0	0.00	06/26/17	0.0	0.00
	06/27/17	4943.0	0.0	0.00	06/27/17	130404.2	0.0	0.00	06/27/17	0.0	0.00
	06/28/17	4943.0	0.0	0.00	06/28/17	130404.4	0.2	0.01	06/28/17	0.2	0.00
	06/29/17	4943.0	0.0	0.00	06/29/17	130404.4	0.0	0.00	06/29/17	0.0	0.00
	06/30/17	4943.0	0.0	0.00	06/30/17	130404.4	0.0	0.00	06/30/17	0.0	0.00
	Total Days =30	Total = 24.7	24.7	Average=.15	Total Days =30	Total =1031.6	1031.6	Average = 6.57	Total Days =30	1,056.3	Average =3.28

*Cell A flows into Cell B so combined ALR for both cells is given.

	Area 6 Cell A				Area 6 Cell B				Area 6 COMBINED		
	Date	Meter Reading (Gal)	Leakage Amount (Gal)	Leakage Rate (Gal/Ac/Day)	Date	Meter Reading (Gal)	Leakage Amount (Gal)	Leakage Rate (Gal/Ac/Day)	Date	Leakage Amount (Gal)	Leakage Rate (Gal/Ac/Day)
3rd Quarter	07/01/17	4943.0	0.0	0.00	07/01/17	130459.5	55.1	3.51	07/01/17	55.1	1.71
	07/03/17	4943.0	0.0	0.00	07/03/17	130459.5	0.0	0.00	07/03/17	0.0	0.00
	07/04/17	4943.0	0.0	0.00	07/04/17	130459.5	0.0	0.00	07/04/17	0.0	0.00
	07/05/17	4943.0	0.0	0.00	07/05/17	130459.5	0.0	0.00	07/05/17	0.0	0.00
	07/06/17	4943.0	0.0	0.00	07/06/17	130459.5	0.0	0.00	07/06/17	0.0	0.00
	07/07/17	4943.0	0.0	0.00	07/07/17	130546.4	86.9	2.77	07/07/17	86.9	1.35
	07/08/17	4943.0	0.0	0.00	07/08/17	130596.1	49.7	9.50	07/08/17	49.7	4.62
	07/10/17	4943.0	0.0	0.00	07/10/17	130596.1	0.0	0.00	07/10/17	0.0	0.00
	07/11/17	4943.0	0.0	0.00	07/11/17	130596.1	0.0	0.00	07/11/17	0.0	0.00
	07/12/17	4943.0	0.0	0.00	07/12/17	130657.5	61.4	2.93	07/12/17	61.4	1.43
	07/13/17	4943.0	0.0	0.00	07/13/17	130701.7	44.2	8.45	07/13/17	44.2	4.11
	07/14/17	4943.0	0.0	0.00	07/14/17	130757.1	55.4	10.59	07/14/17	55.4	5.15
	07/15/17	4943.0	0.0	0.00	07/15/17	130801.3	44.2	8.45	07/15/17	44.2	4.11
	07/17/17	4943.0	0.0	0.00	07/17/17	130851.2	49.9	4.77	07/17/17	49.9	2.32
	07/18/17	4943.0	0.0	0.00	07/18/17	130905.8	54.6	10.44	07/18/17	54.6	5.08
	07/19/17	4943.0	0.0	0.00	07/19/17	130982.0	76.2	14.57	07/19/17	76.2	7.09
	07/20/17	4943.0	0.0	0.00	07/20/17	131051.7	69.7	13.33	07/20/17	69.7	6.48
	07/21/17	4943.0	0.0	0.00	07/21/17	131101.4	49.7	9.50	07/21/17	49.7	4.62
	07/22/17	4943.0	0.0	0.00	07/22/17	131154.6	53.2	10.17	07/22/17	53.2	4.95
	07/24/17	4943.0	0.0	0.00	07/24/17	131203.9	49.3	4.71	07/24/17	49.3	2.29
	07/25/17	4943.0	0.0	0.00	07/25/17	131255.7	51.8	9.90	07/25/17	51.8	4.82
	07/26/17	4943.0	0.0	0.00	07/26/17	131300.6	44.9	8.59	07/26/17	44.9	4.18
	07/27/17	4943.0	0.0	0.00	07/27/17	131352.4	51.8	9.90	07/27/17	51.8	4.82
	07/28/17	4943.0	0.0	0.00	07/28/17	131400.5	48.1	9.20	07/28/17	48.1	4.47
	07/29/17	4943.0	0.0	0.00	07/29/17	131441.7	41.2	7.88	07/29/17	41.2	3.83
	07/31/17	4943.0	0.0	0.00	07/31/17	131501.6	59.9	5.73	07/31/17	59.9	2.79
	Total Days =31	Total = 0.00	0.0	Average=0.00	Total Days =31	Total = 1097.2	1097.2	Average =6.77	Total Days =31	1,097.2	Average =3.29
	08/01/17	4943.0	0.0	0.00	08/01/17	131557.2	55.6	7.36	08/01/17	55.6	5.17
	08/02/17	4943.0	0.0	0.00	08/02/17	131600.1	42.9	8.20	08/02/17	42.9	3.99
	08/03/17	4943.0	0.0	0.00	08/03/17	131657.2	57.1	10.92	08/03/17	57.1	5.31
	08/04/17	4943.0	0.0	0.00	08/04/17	131704.1	46.9	8.97	08/04/17	46.9	4.36
	08/05/17	4943.0	0.0	0.00	08/05/17	131750.4	46.3	8.85	08/05/17	46.3	4.31
	08/07/17	4943.0	0.0	0.00	08/07/17	131800.8	50.4	4.82	08/07/17	50.4	2.34
	08/09/17	4943.0	0.0	0.00	08/09/17	131845.5	44.7	4.27	08/09/17	44.7	2.08
	08/11/17	4943.0	0.0	0.00	08/11/17	131930.5	85.0	8.13	08/11/17	85.0	3.95
	08/14/17	4943.0	0.0	0.00	08/14/17	131930.5	0.0	0.00	08/14/17	0.0	0.00
	08/15/17	4943.0	0.0	0.00	08/15/17	131930.5	0.0	0.00	08/15/17	0.0	0.00
	08/16/17	4943.0	0.0	0.00	08/16/17	131930.5	0.0	0.00	08/16/17	0.0	0.00
	08/17/17	4943.0	0.0	0.00	08/17/17	131930.5	0.0	0.00	08/17/17	0.0	0.00
	08/19/17	4943.0	0.0	0.00	08/19/17	131930.5	0.0	0.00	08/19/17	0.0	0.00
	08/21/17	4943.0	0.0	0.00	08/21/17	131930.5	0.0	0.00	08/21/17	0.0	0.00
	08/23/17	4943.0	0.0	0.00	08/23/17	133803.3	1872.8	29.84	08/23/17	1872.8	14.52
	08/24/17	4943.0	0.0	0.00	08/24/17	133803.3	0.0	0.00	08/24/17	0.0	0.00
	08/25/17	4943.0	0.0	0.00	08/25/17	133803.3	0.0	0.00	08/25/17	0.0	0.00
	08/26/17	4943.0	0.0	0.00	08/26/17	133803.3	0.0	0.00	08/26/17	0.0	0.00
	08/28/17	4943.0	0.0	0.00	08/28/17	133803.3	0.0	0.00	08/28/17	0.0	0.00
	08/29/17	4943.0	0.0	0.00	08/29/17	133803.3	0.0	0.00	08/29/17	0.0	0.00
	08/30/17	4943.0	0.0	0.00	08/30/17	133803.3	0.0	0.00	08/30/17	0.0	0.00
	08/31/17	4943.0	0.0	0.00	08/31/17	133803.3	0.0	0.00	08/31/17	0.0	0.00
	Total Days =31	Total = 0	0.0	Average=0	Total Days =31	Total =2301.7	2301.7	Average =14.20	Total Days =31	2,301.7	Average = 6.91
	09/01/17	4943.0	0.0	0.00	09/01/17	133803.3	0.0	0.00	09/01/17	0.0	0.00
	09/02/17	4943.0	0.0	0.00	09/02/17	133803.3	0.0	0.00	09/02/17	0.0	0.00
	09/03/17	4943.0	0.0	0.00	09/03/17	133803.3	0.0	0.00	09/03/17	0.0	0.00
	09/04/17	4943.0	0.0	0.00	09/04/17	133804.2	0.9	0.04	09/04/17	0.9	0.02
	09/05/17	4943.0	0.0	0.00	09/05/17	133804.2	0.0	0.00	09/05/17	0.0	0.00
	09/06/17	4943.0	0.0	0.00	09/06/17	133804.2	0.0	0.00	09/06/17	0.0	0.00
	09/07/17	4943.0	0.0	0.00	09/07/17	133804.2	0.0	0.00	09/07/17	0.0	0.00
	09/08/17	4943.0	0.0	0.00	09/08/17	133807.9	3.7	0.18	09/08/17	3.7	0.09
	09/09/17	4943.0	0.0	0.00	09/09/17	133819.8	11.9	2.28	09/09/17	11.9	1.11
	09/10/17	4943.0	0.0	0.00	09/10/17	133819.8	0.0	0.00	09/10/17	0.0	0.00
	09/11/17	4943.0	0.0	0.00	09/11/17	133829.9	10.1	0.97	09/11/17	10.1	0.47
	09/12/17	4943.0	0.0	0.00	09/12/17	133884.1	54.2	10.36	09/12/17	54.2	5.04
	09/13/17	4943.0	0.0	0.00	09/13/17	133884.1	0.0	0.00	09/13/17	0.0	0.00
	09/14/17	4943.0	0.0	0.00	09/14/17	133969.0	84.9	8.12	09/14/17	84.9	3.95
	09/15/17	4943.0	0.0	0.00	09/15/17	133969.0	0.0	0.00	09/15/17	0.0	0.00
	09/16/17	4943.0	0.0	0.00	09/16/17	134011.1	42.1	4.02	09/16/17	42.1	1.96
	09/17/17	4943.0	0.0	0.00	09/17/17	134059.9	48.8	9.33	09/17/17	48.8	4.54
	09/18/17	4943.0	0.0	0.00	09/18/17	134115.7	55.8	10.67	09/18/17	55.8	5.19
	09/19/17	4943.0	0.0	0.00	09/19/17	134115.7	0.0	0.00	09/19/17	0.0	0.00
	09/20/17	4943.0	0.0	0.00	09/20/17	134177.0	61.3	5.86	09/20/17	61.3	2.85
	09/21/17	4943.0	0.0	0.00	09/21/17	134177.0	0.0	0.00	09/21/17	0.0	0.00
	09/22/17	4943.0	0.0	0.00	09/22/17	134177.0	0.0	0.00	09/22/17	0.0	0.00
	09/23/17	4943.0	0.0	0.00	09/23/17	134177.0	0.0	0.00	09/23/17	0.0	0.00
	09/24/17	4943.0	0.0	0.00	09/24/17	134177.0	0.0	0.00	09/24/17	0.0	0.00
	09/25/17	4943.0	0.0	0.00	09/25/17	134177.1	0.1	0.00	09/25/17	0.1	0.00
	09/26/17	4943.0	0.0	0.00	09/26/17	134177.1	0.0	0.00	09/26/17	0.0	0.00
	09/27/17	4943.0	0.0	0.00	09/27/17	134177.1	0.0	0.00	09/27/17	0.0	0.00
	09/28/17	4943.0	0.0	0.00	09/28/17	134177.1	0.0	0.00	09/28/17	0.0	0.00
	09/29/17	4943.0	0.0	0.00	09/29/17	134194.8	17.7	0.38	09/29/17	17.7	0.18
	09/30/17	4943.0	0.0	0.00	09/30/17	134194.8	0.0	0.00	09/30/17	0.0	0.00
	Total Days = 30	Total =0.0	0.0	Average=0.00	Total Days =30	Total = 391.5	391.5	Average =2.50	Total Days = 30	391.5	Average = 1.21

*Cell A flows into Cell B so combined ALR for both cells is given.

	Area 6 Cell A				Area 6 Cell B				Area 6 COMBINED		
	Date	Meter Reading (Gal)	Leakage Amount (Gal)	Leakage Rate (Gal/Ac/Day)	Date	Meter Reading (Gal)	Leakage Amount (Gal)	Leakage Rate (Gal/Ac/Day)	Date	Leakage Amount (Gal)	Leakage Rate (Gal/Ac/Day)
4th Quarter	10/02/17	4943.0	0.0	0.00	10/02/17	134194.8	0.0	0.00	10/02/17	0.0	0.00
	10/03/17	4943.0	0.0	0.00	10/03/17	134194.9	0.1	0.01	10/03/17	0.1	0.01
	10/04/17	4943.0	0.0	0.00	10/04/17	134194.9	0.0	0.00	10/04/17	0.0	0.00
	10/05/17	4943.0	0.0	0.00	10/05/17	134194.9	0.0	0.00	10/05/17	0.0	0.00
	10/06/17	4943.0	0.0	0.00	10/06/17	134194.9	0.0	0.00	10/06/17	0.0	0.00
	10/07/17	4943.0	0.0	0.00	10/07/17	134194.9	0.0	0.00	10/07/17	0.0	0.00
	10/09/17	4943.0	0.0	0.00	10/09/17	134194.9	0.0	0.00	10/09/17	0.0	0.00
	10/10/17	4943.0	0.0	0.00	10/10/17	134194.9	0.0	0.00	10/10/17	0.0	0.00
	10/11/17	4943.0	0.0	0.00	10/11/17	134194.9	0.0	0.00	10/11/17	0.0	0.00
	10/12/17	4943.0	0.0	0.00	10/12/17	134194.9	0.0	0.00	10/12/17	0.0	0.00
	10/13/17	4943.0	0.0	0.00	10/13/17	134194.9	0.0	0.00	10/13/17	0.0	0.00
	10/14/17	4943.0	0.0	0.00	10/14/17	134194.9	0.0	0.00	10/14/17	0.0	0.00
	10/15/17	4943.0	0.0	0.00	10/15/17	134194.9	0.0	0.00	10/15/17	0.0	0.00
	10/16/17	4943.0	0.0	0.00	10/16/17	134194.9	0.0	0.00	10/16/17	0.0	0.00
	10/17/17	4943.0	0.0	0.00	10/17/17	134194.9	0.0	0.00	10/17/17	0.0	0.00
	10/18/17	4943.0	0.0	0.00	10/18/17	134194.9	0.0	0.00	10/18/17	0.0	0.00
	10/19/17	4943.0	0.0	0.00	10/19/17	134194.9	0.0	0.00	10/19/17	0.0	0.00
	10/20/17	4943.0	0.0	0.00	10/20/17	134194.9	0.0	0.00	10/20/17	0.0	0.00
	10/21/17	4943.0	0.0	0.00	10/21/17	134194.9	0.0	0.00	10/21/17	0.0	0.00
	10/22/17	4943.0	0.0	0.00	10/22/17	134194.9	0.0	0.00	10/22/17	0.0	0.00
	10/23/17	4943.0	0.0	0.00	10/23/17	134194.9	0.0	0.00	10/23/17	0.0	0.00
	10/24/17	4943.0	0.0	0.00	10/24/17	134194.9	0.0	0.00	10/24/17	0.0	0.00
	10/25/17	4943.0	0.0	0.00	10/25/17	134194.9	0.0	0.00	10/25/17	0.0	0.00
	10/26/17	4943.0	0.0	0.00	10/26/17	134276.9	82.0	0.68	10/26/17	82.0	0.33
	10/27/17	4943.0	0.0	0.00	10/27/17	134276.9	0.0	0.00	10/27/17	0.0	0.00
	10/28/17	4943.0	0.0	0.00	10/28/17	134330.4	53.5	5.11	10/28/17	53.5	2.49
	10/29/17	4943.0	0.0	0.00	10/29/17	134330.4	0.0	0.00	10/29/17	0.0	0.00
	10/30/17	4943.0	0.0	0.00	10/30/17	134330.4	0.0	0.00	10/30/17	0.0	0.00
	10/31/17	4943.0	0.0	0.00	10/31/17	134330.4	0.0	0.00	10/31/17	0.0	0.00
	Total Days = 31	Total = 0.00	0.0	Average=0.00	Total Days = 31	Total = 135.6	135.6	Average = .84	Total Days = 31	135.6	Average = .41
	11/01/17	4943.0	0.0	0.00	11/01/17	134330.4	0.0	0.00	11/01/17	0.0	0.00
	11/02/17	4943.0	0.0	0.00	11/02/17	134330.4	0.0	0.00	11/02/17	0.0	0.00
	11/03/17	4943.0	0.0	0.00	11/03/17	134330.4	0.0	0.00	11/03/17	0.0	0.00
	11/04/17	4943.0	0.0	0.00	11/04/17	134330.4	0.0	0.00	11/04/17	0.0	0.00
	11/05/17	4943.0	0.0	0.00	11/05/17	134330.4	0.0	0.00	11/05/17	0.0	0.00
	11/06/17	4943.0	0.0	0.00	11/06/17	134503.6	173.2	5.52	11/06/17	173.2	1.79
	11/07/17	4943.0	0.0	0.00	11/07/17	134503.6	0.0	0.00	11/07/17	0.0	0.00
	11/08/17	4943.0	0.0	0.00	11/08/17	134503.6	0.0	0.00	11/08/17	0.0	0.00
	11/09/17	4943.0	0.0	0.00	11/09/17	134503.6	0.0	0.00	11/09/17	0.0	0.00
	11/10/17	4943.0	0.0	0.00	11/10/17	134503.6	0.0	0.00	11/10/17	0.0	0.00
	11/13/17	4943.0	0.0	0.00	11/13/17	134503.6	0.0	0.00	11/13/17	0.0	0.00
	11/15/17	4943.0	0.0	0.00	11/15/17	134674.8	171.2	3.64	11/15/17	171.2	1.77
	11/16/17	4943.0	0.0	0.00	11/16/17	134674.8	0.0	0.00	11/16/17	0.0	0.00
	11/17/17	4943.0	0.0	0.00	11/17/17	134674.8	0.0	0.00	11/17/17	0.0	0.00
	11/18/17	4943.0	0.0	0.00	11/18/17	134674.8	0.0	0.00	11/18/17	0.0	0.00
	11/20/17	4943.0	0.0	0.00	11/20/17	134674.8	0.0	0.00	11/20/17	0.0	0.00
	11/21/17	4943.0	0.0	0.00	11/21/17	134700.7	25.9	0.83	11/21/17	25.9	0.40
	11/22/17	4943.0	0.0	0.00	11/22/17	134700.7	0.0	0.00	11/22/17	0.0	0.00
	11/24/17	4943.0	0.0	0.00	11/24/17	134872.1	171.4	10.92	11/24/17	171.4	5.31
	11/25/17	4943.0	0.0	0.00	11/25/17	134872.6	0.5	0.10	11/25/17	0.5	0.05
	11/27/17	4943.0	0.0	0.00	11/27/17	134872.6	0.0	0.00	11/27/17	0.0	0.00
	11/28/17	4943.0	0.0	0.00	11/28/17	134872.6	0.0	0.00	11/28/17	0.0	0.00
	11/29/17	4943.0	0.0	0.00	11/29/17	134872.6	0.0	0.00	11/29/17	0.0	0.00
	11/30/17	4943.0	0.0	0.00	11/30/17	134872.6	0.0	0.00	11/30/17	0.0	0.00
	Total Days = 30	Total = 0.00	0.0	Average=.00	Total Days =30	Total =542.2	542.2	Average = 3.46	Total Days = 30	542.2	Average =1.68
	12/01/17	4943.0	0.0	0.00	12/01/17	134872.6	0.0	0.00	12/01/17	0.0	0.00
	12/02/17	4943.0	0.0	0.00	12/02/17	134872.6	0.0	0.00	12/02/17	0.0	0.00
	12/04/17	4943.0	0.0	0.00	12/04/17	134872.6	0.0	0.00	12/04/17	0.0	0.00
	12/05/17	4976.6	33.6	1.22	12/05/17	135058.8	186.2	7.12	12/05/17	219.8	2.04
	12/06/17	4976.6	0.0	0.00	12/06/17	135058.8	0.0	0.00	12/06/17	0.0	0.00
	12/07/17	4976.6	0.0	0.00	12/07/17	135058.8	0.0	0.00	12/07/17	0.0	0.00
	12/08/17	4976.8	0.2	0.01	12/08/17	135058.8	0.0	0.00	12/08/17	0.2	0.01
	12/09/17	4976.8	0.0	0.00	12/09/17	135058.8	0.0	0.00	12/09/17	0.0	0.00
	12/12/17	4990.4	13.6	0.62	12/12/17	135065.5	6.7	0.18	12/12/17	20.3	0.47
	12/15/17	4990.4	0.0	0.00	12/15/17	135065.5	0.0	0.00	12/15/17	0.0	0.00
	12/16/17	4990.4	0.0	0.00	12/16/17	135077.2	11.7	0.56	12/16/17	11.7	0.27
	12/18/17	4994.9	4.5	0.14	12/18/17	135077.2	0.0	0.00	12/18/17	4.5	0.21
	12/19/17	4994.9	0.0	0.00	12/19/17	135077.2	0.0	0.00	12/19/17	0.0	0.00
	12/20/17	4994.9	0.0	0.00	12/20/17	135252.5	175.3	8.38	12/20/17	175.3	8.15
	12/23/17	4994.9	0.0	0.00	12/23/17	135252.5	0.0	0.00	12/23/17	0.0	0.00
	12/26/17	4994.9	0.0	0.00	12/26/17	135252.5	0.0	0.00	12/26/17	0.0	0.00
	12/27/17	4994.9	0.0	0.00	12/27/17	135252.5	0.0	0.00	12/27/17	0.0	0.00
	12/28/17	4994.9	0.0	0.00	12/28/17	135252.5	0.0	0.00	12/28/17	0.0	0.00
	12/29/17	4994.9	0.0	0.00	12/29/17	135421.7	169.2	3.59	12/29/17	169.2	1.75
	12/30/17	4994.9	0.0	0.00	12/30/17	135421.7	0.0	0.00	12/30/17	0.0	0.00
	Total Days =30	Total = 51.9	51.9	Average=.31	Total Days =30	Total =549.1	549.1	Average =3.50	Total Days =30	601.0	Average =1.86

*Cell A flows into Cell B so combined ALR for both cells is given.

	Area 6 Cell C				Area 6 Cell D				Area 6 Ph2 COMBINED		
	Date	Meter Reading (Gal)	Leakage Amount (Gal)	Leakage Rate (Gal/Ac/Day)	Date	Meter Reading (Gal)	Leakage Amount (Gal)	Leakage Rate (Gal/Ac/Day)	Date	Leakage Amount (Gal)	Leakage Rate (Gal/Ac/Day)
1st Quarter	12/31/16	259826.4	0.0		12/31/16	37606.9	0.0		12/31/16	0.0	
	01/02/17	259940.4	114.0	10.02	01/02/17	37734.1	127.2	11.67	01/02/17	241.2	10.83
	01/03/17	259990.2	49.8	8.75	01/03/17	37734.1	0.0	0.00	01/03/17	49.8	4.47
	01/04/17	260035.8	45.6	8.01	01/04/17	37838.5	104.4	9.58	01/04/17	150.0	13.46
	01/05/17	260096.7	60.9	10.70	01/05/17	37838.5	0.0	0.00	01/05/17	60.9	5.47
	01/06/17	260152.4	55.7	9.79	01/06/17	37947.4	108.9	9.99	01/06/17	164.6	14.78
	01/07/17	260197.3	44.9	7.89	01/07/17	37947.4	0.0	0.00	01/07/17	44.9	4.03
	01/09/17	260307.4	110.1	9.67	01/09/17	38012.9	65.5	4.01	01/09/17	175.6	7.88
	01/10/17	260361.9	54.5	9.58	01/10/17	38012.9	0.0	0.00	01/10/17	54.5	4.89
	01/11/17	260429.8	67.9	11.93	01/11/17	38038.2	25.3	2.32	01/11/17	93.2	8.37
	01/12/17	260475.6	45.8	8.05	01/12/17	38180.5	142.3	26.11	01/12/17	188.1	16.89
	01/13/17	260539.0	63.4	11.14	01/13/17	38180.5	0.0	0.00	01/13/17	63.4	5.69
	01/14/17	260562.2	23.2	4.08	01/14/17	38180.5	0.0	0.00	01/14/17	23.2	2.08
	01/16/17	260653.9	91.7	8.06	01/16/17	38180.5	0.0	0.00	01/16/17	91.7	4.12
	01/17/17	260690.6	36.7	6.45	01/17/17	38293.7	113.2	4.15	01/17/17	149.9	13.46
	01/18/17	260727.9	37.3	6.56	01/18/17	38293.7	0.0	0.00	01/18/17	37.3	3.35
	01/19/17	260770.6	42.7	7.50	01/19/17	38293.7	0.0	0.00	01/19/17	42.7	3.83
	01/20/17	260803.2	32.6	5.73	01/20/17	38293.7	0.0	0.00	01/20/17	32.6	2.93
	01/21/17	260849.1	45.9	8.07	01/21/17	38293.7	0.0	0.00	01/21/17	45.9	4.12
	01/23/17	260903.1	54.0	4.75	01/23/17	38381.8	88.1	2.69	01/23/17	142.1	6.38
	01/24/17	260946.8	43.7	7.68	01/24/17	38381.8	0.0	0.00	01/24/17	43.7	3.92
	01/25/17	260984.9	38.1	6.70	01/25/17	38381.8	0.0	0.00	01/25/17	38.1	3.42
	01/26/17	261015.9	31.0	5.45	01/26/17	38484.4	102.6	6.28	01/26/17	133.6	11.99
	01/27/17	261054.8	38.9	6.84	01/27/17	38484.4	0.0	0.00	01/27/17	38.9	3.49
	01/28/17	261076.0	21.2	3.73	01/28/17	38484.4	0.0	0.00	01/28/17	21.2	1.90
	01/30/17	261151.6	75.6	6.64	01/30/17	38603.8	119.4	5.48	01/30/17	195.0	8.75
	01/31/17	261210.8	59.2	10.40	01/31/17	38603.8	0.0	0.00	01/31/17	59.2	5.31
	Total Days =31	Total = 1384.4	1384.4	Average =8.19	Total Days =31	Total = 996.9	996.9	Average = 5.65	Total Days =31	2,381.3	Average =6.90
	02/01/17	261217.9	7.1	1.25	02/01/17	38603.8	0.0	0.00	02/01/17	7.1	0.64
	02/02/17	261251.1	33.2	5.83	02/02/17	38603.8	0.0	0.00	02/02/17	33.2	2.98
	02/03/17	261298.2	47.1	8.28	02/03/17	38603.8	0.0	0.00	02/03/17	47.1	4.23
	02/04/17	261310.9	12.7	2.23	02/04/17	38603.8	0.0	0.00	02/04/17	12.7	1.14
	02/06/17	261377.3	66.4	5.83	02/06/17	38670.9	67.1	1.76	02/06/17	133.5	5.99
	02/07/17	261406.1	28.8	5.06	02/07/17	38670.9	0.0	0.00	02/07/17	28.8	2.59
	02/08/17	261449.9	43.8	7.70	02/08/17	38670.9	0.0	0.00	02/08/17	43.8	3.93
	02/09/17	261467.2	17.3	3.04	02/09/17	38776.9	106.0	6.48	02/09/17	123.3	11.07
	02/10/17	261503.9	36.7	6.45	02/10/17	38776.9	0.0	0.00	02/10/17	36.7	3.29
	02/11/17	261533.3	29.4	5.17	02/11/17	38776.9	0.0	0.00	02/11/17	29.4	2.64
	02/13/17	261567.5	34.2	3.01	02/13/17	38776.9	0.0	0.00	02/13/17	34.2	1.54
	02/14/17	261635.7	68.2	11.99	02/14/17	38912.2	135.3	4.97	02/14/17	203.5	18.27
	02/15/17	261670.0	34.3	6.03	02/15/17	38912.2	0.0	0.00	02/15/17	34.3	3.08
	02/16/17	261704.5	34.5	6.06	02/16/17	38912.2	0.0	0.00	02/16/17	34.5	3.10
	02/17/17	261732.3	27.8	4.89	02/17/17	38912.2	0.0	0.00	02/17/17	27.8	2.50
	02/18/17	261756.3	24.0	4.22	02/18/17	38912.2	0.0	0.00	02/18/17	24.0	2.15
	02/20/17	261823.6	67.3	5.91	02/20/17	38912.2	0.0	0.00	02/20/17	67.3	3.02
	02/21/17	261868.9	45.3	7.96	02/21/17	39043.6	131.4	3.44	02/21/17	176.7	15.86
	02/22/17	261891.8	22.9	4.02	02/22/17	39043.6	0.0	0.00	02/22/17	22.9	2.06
	02/23/17	261932.6	40.8	7.17	02/23/17	39043.6	0.0	0.00	02/23/17	40.8	3.66
	02/24/17	261961.0	28.4	4.99	02/24/17	39043.6	0.0	0.00	02/24/17	28.4	2.55
	02/25/17	261999.2	38.2	6.71	02/25/17	39144.8	101.2	4.64	02/25/17	139.4	12.51
	02/27/17	262062.7	63.5	5.58	02/27/17	39144.8	0.0	0.00	02/27/17	63.5	2.85
	02/28/17	262094.7	32.0	5.62	02/28/17	39144.8	0.0	0.00	02/28/17	32.0	2.87
	Total Days =28	Total = 883.9	883.9	Average =5.79	Total Days =28	Total =541.0	541.0	Average=3.40	Total Days =28	1,424.9	Average =4.57
	03/01/17	262146.5	51.8	9.10	03/01/17	39144.8	0.0	0.00	03/01/17	51.8	4.65
	03/02/17	262192.3	45.8	8.05	03/02/17	39144.8	0.0	0.00	03/02/17	45.8	4.11
	03/03/17	262209.9	17.6	3.09	03/03/17	39274.6	129.8	3.97	03/03/17	147.4	13.23
	03/04/17	262209.9	0.0	0.00	03/04/17	39274.6	0.0	0.00	03/04/17	0.0	0.00
	03/06/17	262270.4	60.5	3.54	03/06/17	39274.6	0.0	0.00	03/06/17	60.5	1.81
	03/07/17	262328.4	58.0	10.19	03/07/17	39274.6	0.0	0.00	03/07/17	58.0	5.21
	03/08/17	262386.2	57.8	10.16	03/08/17	39274.6	0.0	0.00	03/08/17	57.8	5.19
	03/09/17	262399.7	13.5	2.37	03/09/17	39410.3	135.7	4.15	03/09/17	149.2	13.39
	03/10/17	262402.9	3.2	0.56	03/10/17	39410.3	0.0	0.00	03/10/17	3.2	0.29
	03/11/17	262427.4	24.5	4.31	03/11/17	39410.3	0.0	0.00	03/11/17	24.5	2.20
	03/13/17	262494.0	66.6	5.85	03/13/17	39410.3	0.0	0.00	03/13/17	66.6	2.99
	03/14/17	262523.4	29.4	5.17	03/14/17	39410.3	0.0	0.00	03/14/17	29.4	2.64
	03/15/17	262544.3	20.9	3.67	03/15/17	39512.3	102.0	3.12	03/15/17	122.9	11.03
	03/16/17	262567.2	22.9	4.02	03/16/17	39512.3	0.0	0.00	03/16/17	22.9	2.06
	03/17/17	262592.5	25.3	4.45	03/17/17	39512.3	0.0	0.00	03/17/17	25.3	2.27
	03/18/17	262614.4	21.9	3.85	03/18/17	39586.5	74.2	4.54	03/18/17	96.1	8.63
	03/20/17	262657.4	43.0	3.78	03/20/17	39586.5	0.0	0.00	03/20/17	43.0	1.93
	03/21/17	262696.3	38.9	6.84	03/21/17	39586.5	0.0	0.00	03/21/17	38.9	3.49
	03/22/17	262717.2	20.9	3.67	03/22/17	39586.5	0.0	0.00	03/22/17	20.9	1.88
	03/23/17	262731.4	14.2	2.50	03/23/17	39586.5	0.0	0.00	03/23/17	14.2	1.27
	03/24/17	262772.8	41.4	7.28	03/24/17	39652.6	66.1	2.02	03/24/17	107.5	9.65
	03/28/17	262895.1	122.3	5.37	03/28/17	39802.9	150.3	6.89	03/28/17	272.6	6.12
	03/29/17	262927.5	32.4	5.69	03/29/17	39802.9	0.0	0.00	03/29/17	32.4	2.91
	03/30/17	262951.6	24.1	4.24	03/30/17	39802.9	0.0	0.00	03/30/17	24.1	2.16
	03/31/17	262983.2	31.6	5.55	03/31/17	39802.9	0.0	0.00	03/31/17	31.6	2.84
	Total Days =31	Total =888.5	888.5	Average =5.26	Total Days =31	Total = 658.1	658.1	Average=3.73	Total Days =31	1,546.6	Average = 4.48

	Area 6 Cell C				Area 6 Cell D				Area 6 Ph2 COMBINED		
	Date	Meter Reading (Gal)	Leakage Amount (Gal)	Leakage Rate (Gal/Ac/Day)	Date	Meter Reading (Gal)	Leakage Amount (Gal)	Leakage Rate (Gal/Ac/Day)	Date	Leakage Amount (Gal)	Leakage Rate (Gal/Ac/Day)
2nd Quarter	04/01/17	263019.4	36.2	6.36	04/01/17	39802.9	0.0	0.00	04/01/17	36.2	3.25
	04/03/17	263089.4	70.0	6.15	04/03/17	39956.3	153.4	4.69	04/03/17	223.4	10.03
	04/04/17	263101.9	12.5	2.20	04/04/17	39956.3	0.0	0.00	04/04/17	12.5	1.12
	04/05/17	263137.3	35.4	6.22	04/05/17	39956.3	0.0	0.00	04/05/17	35.4	3.18
	04/06/17	263164.5	27.2	4.78	04/06/17	39956.3	0.0	0.00	04/06/17	27.2	2.44
	04/07/17	263205.1	40.6	7.14	04/07/17	40047.8	91.5	4.20	04/07/17	132.1	11.86
	04/08/17	263224.8	19.7	3.46	04/08/17	40047.8	0.0	0.00	04/08/17	19.7	1.77
	04/10/17	263257.9	33.1	2.91	04/10/17	40047.8	0.0	0.00	04/10/17	33.1	1.49
	04/11/17	263320.2	62.3	10.95	04/11/17	40182.7	134.9	6.19	04/11/17	197.2	17.70
	04/12/17	263355.9	35.7	6.27	04/12/17	40182.7	0.0	0.00	04/12/17	35.7	3.20
	04/13/17	263382.6	26.7	4.69	04/13/17	40182.7	0.0	0.00	04/13/17	26.7	2.40
	04/14/17	263403.3	20.7	3.64	04/14/17	40182.7	0.0	0.00	04/14/17	20.7	1.86
	04/15/17	263432.2	28.9	5.08	04/15/17	40182.7	0.0	0.00	04/15/17	28.9	2.59
	04/17/17	263486.8	54.6	4.80	04/17/17	40182.7	0.0	0.00	04/17/17	54.6	2.45
	04/18/17	263515.0	28.2	4.96	04/18/17	40241.8	59.1	1.55	04/18/17	87.3	7.84
	04/19/17	263546.2	31.2	5.48	04/19/17	40241.8	0.0	0.00	04/19/17	31.2	2.80
	04/20/17	263592.4	46.2	8.12	04/20/17	40358.9	117.1	10.74	04/20/17	163.3	14.66
	04/21/17	263624.7	32.3	5.68	04/21/17	40358.9	0.0	0.00	04/21/17	32.3	2.90
	04/22/17	263657.2	32.5	5.71	04/22/17	40358.9	0.0	0.00	04/22/17	32.5	2.92
	04/24/17	263684.5	27.3	2.40	04/24/17	40358.9	0.0	0.00	04/24/17	27.3	1.23
	04/25/17	263722.7	38.2	6.71	04/25/17	40358.9	0.0	0.00	04/25/17	38.2	3.43
	04/26/17	263770.4	47.7	8.38	04/26/17	40358.9	0.0	0.00	04/26/17	47.7	4.28
	04/29/17	263805.2	34.8	2.04	04/29/17	40358.9	0.0	0.00	04/29/17	34.8	1.04
	Total Days = 29	Total =822.0	822.0	Average =5.20	Total Days =29	Total = 556.0	556.0	Average=3.37	Total Days = 30	1,378.0	Average = 4.27
	05/01/17	263881.2	76.0	6.68	05/01/17	40427.6	68.7	1.15	05/01/17	144.7	6.49
	05/02/17	263919.9	38.7	6.80	05/02/17	40427.6	0.0	0.00	05/02/17	38.7	3.47
	05/03/17	263952.4	32.5	5.71	05/03/17	40427.6	0.0	0.00	05/03/17	32.5	2.92
	05/04/17	263981.2	28.8	5.06	05/04/17	40549.6	122.0	7.46	05/04/17	150.8	13.54
	05/05/17	264018.6	37.4	6.57	05/05/17	40549.6	0.0	0.00	05/05/17	37.4	3.36
	05/06/17	264037.4	18.8	3.30	05/06/17	40549.6	0.0	0.00	05/06/17	18.8	1.69
	05/08/17	264124.2	86.8	7.63	05/08/17	40675.1	125.5	5.76	05/08/17	212.3	9.53
	05/09/17	264168.9	44.7	7.86	05/09/17	40675.1	0.0	0.00	05/09/17	44.7	4.01
	05/10/17	264200.4	31.5	5.54	05/10/17	40675.1	0.0	0.00	05/10/17	31.5	2.83
	05/11/17	264240.9	40.5	7.12	05/11/17	40675.1	0.0	0.00	05/11/17	40.5	3.64
	05/12/17	264275.6	34.7	6.10	05/12/17	40675.1	0.0	0.00	05/12/17	34.7	3.11
	05/13/17	264301.5	25.9	4.55	05/13/17	40675.1	0.0	0.00	05/13/17	25.9	2.32
	05/15/17	264334.5	33.0	2.90	05/15/17	40675.1	0.0	0.00	05/15/17	33.0	1.48
	05/16/17	264369.2	34.7	6.10	05/16/17	40846.6	171.5	3.93	05/16/17	206.2	18.51
	05/17/17	264538.8	169.6	29.81	05/17/17	40963.2	116.6	21.39	05/17/17	286.2	25.69
	05/18/17	264586.0	47.2	8.30	05/18/17	40963.2	0.0	0.00	05/18/17	47.2	4.24
	05/19/17	264647.9	61.9	10.88	05/19/17	40963.2	0.0	0.00	05/19/17	61.9	5.56
	05/20/17	264690.6	42.7	7.50	05/20/17	40963.2	0.0	0.00	05/20/17	42.7	3.83
	05/22/17	264821.8	131.2	11.53	05/22/17	41082.6	119.4	4.38	05/22/17	250.6	11.25
	05/23/17	264857.4	35.6	6.26	05/23/17	41082.6	0.0	0.00	05/23/17	35.6	3.20
	05/24/17	264917.8	60.4	10.62	05/24/17	41082.6	0.0	0.00	05/24/17	60.4	5.42
	05/25/17	264964.6	46.8	8.22	05/25/17	41252.7	170.1	10.40	05/25/17	216.9	19.47
	05/26/17	265001.9	37.3	6.56	05/26/17	41252.7	0.0	0.00	05/26/17	37.3	3.35
	05/27/17	265037.4	35.5	6.24	05/27/17	41252.7	0.0	0.00	05/27/17	35.5	3.19
	05/29/17	265127.9	90.5	7.95	05/29/17	41252.7	0.0	0.00	05/29/17	90.5	4.06
	05/30/17	265162.4	34.5	6.06	05/30/17	41252.7	0.0	0.00	05/30/17	34.5	3.10
	05/31/17	265211.7	49.3	8.66	05/31/17	41252.7	0.0	0.00	05/31/17	49.3	4.43
	Total Days=32	Total=1406.5	1406.5	Average=8.06	Total Days=32	Total = 893.8	893.8	Average=4.91	Total Days=32	2,300.3	Average =6.45
	06/01/17	265253.7	42.0	7.71	06/01/17	41375.3	122.6	3.08	06/01/17	164.6	14.78
	06/02/17	265279.2	25.5	4.48	06/02/17	41375.3	0.0	0.00	06/02/17	25.5	2.29
	06/03/17	265326.4	47.2	8.30	06/03/17	41375.5	0.2	0.02	06/03/17	47.4	4.25
	06/05/17	265414.9	88.5	7.78	06/05/17	41375.5	0.0	0.00	06/05/17	88.5	3.97
	06/06/17	265452.6	37.7	6.63	06/06/17	41375.5	0.0	0.00	06/06/17	37.7	3.38
	06/07/17	265494.6	42.0	7.38	06/07/17	41498.5	123.0	5.40	06/07/17	165.0	14.81
	06/08/17	265527.4	32.8	5.76	06/08/17	41498.5	0.0	0.00	06/08/17	32.8	2.94
	06/09/17	265567.2	39.8	6.99	06/09/17	41498.5	0.0	0.00	06/09/17	39.8	3.57
	06/10/17	265592.0	24.8	4.36	06/10/17	41508.5	10.0	0.59	06/10/17	34.8	3.12
	06/12/17	265678.6	86.6	7.61	06/12/17	41508.5	0.0	0.00	06/12/17	86.6	3.89
	06/13/17	265702.9	24.3	4.27	06/13/17	41566.2	57.7	3.38	06/13/17	82.0	7.36
	06/14/17	265747.5	44.6	7.84	06/14/17	41566.2	0.0	0.00	06/14/17	44.6	4.00
	06/15/17	265785.9	38.4	6.75	06/15/17	41699.9	133.7	11.75	06/15/17	172.1	15.45
	06/16/17	265813.5	27.6	4.85	06/16/17	41699.9	0.0	0.00	06/16/17	27.6	2.48
	06/17/17	265855.1	41.6	7.31	06/17/17	41699.9	0.0	0.00	06/17/17	41.6	3.73
	06/20/17	265979.9	124.8	7.31	06/20/17	41699.9	0.0	0.00	06/20/17	124.8	3.73
	06/21/17	266013.9	34.0	5.98	06/21/17	41699.9	0.0	0.00	06/21/17	34.0	3.05
	06/22/17	266046.2	32.3	5.68	06/22/17	41763.8	63.9	1.60	06/22/17	96.2	8.64
	06/23/17	266067.5	21.3	3.74	06/23/17	41763.8	0.0	0.00	06/23/17	21.3	1.91
	06/24/17	266103.1	35.6	6.26	06/24/17	41763.8	0.0	0.00	06/24/17	35.6	3.20
	06/26/17	266180.2	77.1	6.78	06/26/17	41763.8	0.0	0.00	06/26/17	77.1	3.46
	06/27/17	266219.5	39.3	6.91	06/27/17	41763.8	0.0	0.00	06/27/17	39.3	3.53
	06/28/17	266262.1	42.6	7.49	06/28/17	41763.8	0.0	0.00	06/28/17	42.6	3.82
	06/29/17	266291.7	29.6	5.20	06/29/17	41785.1	21.3	0.53	06/29/17	50.9	4.57
	06/30/17	266305.6	13.9	2.44	06/30/17	41785.1	0.0	0.00	06/30/17	13.9	1.25
	Total Days=30	Total = 1093.9	1,093.9	Average= 6.69	Total Days=30	Total = 532.4	532.4	Average = 3.12	Total Days=30	1,626.3	Average = 4.87

	Area 6 Cell C				Area 6 Cell D				Area 6 Ph2 COMBINED		
	Date	Meter Reading (Gal)	Leakage Amount (Gal)	Leakage Rate (Gal/Ac/Day)	Date	Meter Reading (Gal)	Leakage Amount (Gal)	Leakage Rate (Gal/Ac/Day)	Date	Leakage Amount (Gal)	Leakage Rate (Gal/Ac/Day)
3rd Quarter	07/01/17	266327.0	21.4	3.93	07/01/17	41817.8	32.7	2.87	07/01/17	54.1	4.86
	07/03/17	266352.4	25.4	2.33	07/03/17	41817.8	0.0	0.00	07/03/17	25.4	1.14
	07/04/17	266390.7	38.3	7.03	07/04/17	41817.8	0.0	0.00	07/04/17	38.3	3.44
	07/05/17	266414.3	23.6	4.33	07/05/17	41817.8	0.0	0.00	07/05/17	23.6	2.12
	07/06/17	266440.3	26.0	4.77	07/06/17	41817.8	0.0	0.00	07/06/17	26.0	2.33
	07/07/17	266514.1	73.8	13.54	07/07/17	41916.2	98.4	2.88	07/07/17	172.2	15.46
	07/08/17	266542.5	28.4	5.21	07/08/17	41916.2	0.0	0.00	07/08/17	28.4	2.55
	07/10/17	266600.9	58.4	5.36	07/10/17	42041.8	125.6	7.36	07/10/17	184.0	8.26
	07/11/17	266634.0	33.1	6.07	07/11/17	42041.8	0.0	0.00	07/11/17	33.1	2.97
	07/12/17	266662.3	28.3	5.19	07/12/17	42041.8	0.0	0.00	07/12/17	28.3	2.54
	07/13/17	266690.0	27.7	5.08	07/13/17	42041.8	0.0	0.00	07/13/17	27.7	2.49
	07/14/17	266710.9	20.9	3.83	07/14/17	42041.8	0.0	0.00	07/14/17	20.9	1.88
	07/15/17	266744.2	33.3	6.11	07/15/17	42041.8	0.0	0.00	07/15/17	33.3	2.99
	07/17/17	266794.9	50.7	4.65	07/17/17	42134.2	92.4	2.32	07/17/17	143.1	6.42
	07/18/17	266839.8	44.9	8.24	07/18/17	42208.3	74.1	13.02	07/18/17	119.0	10.68
	07/19/17	266864.7	24.9	4.57	07/19/17	42208.3	0.0	0.00	07/19/17	24.9	2.24
	07/20/17	266907.8	43.1	7.91	07/20/17	42218.4	10.1	0.89	07/20/17	53.2	4.78
	07/21/17	266934.9	27.1	4.97	07/21/17	42218.4	0.0	0.00	07/21/17	27.1	2.43
	07/22/17	266999.7	64.8	11.89	07/22/17	42218.4	0.0	0.00	07/22/17	64.8	5.82
	07/24/17	267080.8	81.1	7.44	07/24/17	42322.1	103.7	4.56	07/24/17	184.8	8.29
	07/25/17	267135.7	54.9	10.07	07/25/17	42368.5	46.4	8.15	07/25/17	101.3	9.09
	07/26/17	267183.9	48.2	8.84	07/26/17	42368.5	0.0	0.00	07/26/17	48.2	4.33
	07/27/17	267241.7	57.8	10.61	07/27/17	42397.4	28.9	2.54	07/27/17	86.7	7.78
	07/28/17	267279.9	38.2	7.01	07/28/17	42397.4	0.0	0.00	07/28/17	38.2	3.43
	07/29/17	267336.1	56.2	10.31	07/29/17	42521.5	124.1	10.91	07/29/17	180.3	16.18
	07/31/17	267469.9	133.8	12.28	07/31/17	42521.5	0.0	0.00	07/31/17	133.8	6.01
	Total Days =31	Total =1164.3	1,164.3	Average=6.89	Total Days =31	Total =736.4	736.4	Average = 4.17	Total Days =31	1,900.7	Average =5.50
	08/01/17	267501.4	31.5	5.78	08/01/17	42521.5	0.0	0.00	08/01/17	31.5	2.83
	08/02/17	267536.4	35.0	6.42	08/02/17	42521.5	0.0	0.00	08/02/17	35.0	3.14
	08/03/17	267571.1	34.7	6.37	08/03/17	42521.5	0.0	0.00	08/03/17	34.7	3.11
	08/04/17	267607.3	36.2	6.64	08/04/17	42803.2	281.7	8.25	08/04/17	317.9	28.54
	08/05/17	267661.4	54.1	9.93	08/05/17	42803.2	0.0	0.00	08/05/17	54.1	4.86
	08/07/17	267922.0	260.6	23.91	08/07/17	42952.6	149.4	8.75	08/07/17	410.0	18.40
	08/09/17	268030.3	108.3	9.94	08/09/17	42952.6	0.0	0.00	08/09/17	108.3	4.86
	08/11/17	268080.1	49.8	4.57	08/11/17	43159.5	206.9	9.09	08/11/17	256.7	11.52
	08/14/17	268105.4	25.3	1.55	08/14/17	43159.5	0.0	0.00	08/14/17	25.3	0.76
	08/15/17	268150.4	45.0	8.26	08/15/17	43159.5	0.0	0.00	08/15/17	45.0	4.04
	08/16/17	268211.2	60.8	11.16	08/16/17	43159.5	0.0	0.00	08/16/17	60.8	5.46
	08/17/17	268211.2	0.0	0.00	08/17/17	43159.5	0.0	0.00	08/17/17	0.0	0.00
	08/19/17	268211.2	0.0	0.00	08/19/17	43159.5	0.0	0.00	08/19/17	0.0	0.00
	08/21/17	268211.2	0.0	0.00	08/21/17	43159.5	0.0	0.00	08/21/17	0.0	0.00
	08/23/17	268482.4	271.2	7.11	08/23/17	43558.6	399.1	5.85	08/23/17	670.3	8.60
	08/24/17	268510.2	27.8	5.10	08/24/17	43558.6	0.0	0.00	08/24/17	27.8	2.50
	08/25/17	268884.5	374.3	68.68	08/25/17	43558.6	0.0	0.00	08/25/17	374.3	33.60
	08/26/17	268910.1	25.6	4.70	08/26/17	43558.6	0.0	0.00	08/26/17	25.6	2.30
	08/28/17	268991.1	81.0	7.43	08/28/17	43638.0	79.4	2.79	08/28/17	160.4	7.20
	08/29/17	269026.7	35.6	6.53	08/29/17	43638.0	0.0	0.00	08/29/17	35.6	3.20
	08/30/17	269059.2	32.5	5.96	08/30/17	43638.0	0.0	0.00	08/30/17	32.5	2.92
	08/31/17	269082.4	23.2	4.26	08/31/17	43638.0	0.0	0.00	08/31/17	23.2	2.08
	Total Days =31	Total =1612.5	1,612.5	Average=9.54	Total Days =31	Total =1116.5	1116.5	Average =6.33	Total Days =31	2,729.0	Average =7.90
	09/01/17	269114.6	32.2	5.91	09/01/17	43638.0	0.0	0.00	09/01/17	32.2	2.89
	09/02/17	269140.9	26.3	4.83	09/02/17	43804.2	166.2	5.84	09/02/17	192.5	17.28
	09/03/17	269140.9	0.0	0.00	09/03/17	43804.2	0.0	0.00	09/03/17	0.0	0.00
	09/04/17	269200.4	59.5	5.46	09/04/17	43804.2	0.0	0.00	09/04/17	59.5	2.67
	09/05/17	269234.5	34.1	6.26	09/05/17	43913.4	109.2	6.40	09/05/17	143.3	12.86
	09/06/17	269266.7	32.2	5.91	09/06/17	43913.4	0.0	0.00	09/06/17	32.2	2.89
	09/07/17	269311.0	44.3	8.13	09/07/17	43913.4	0.0	0.00	09/07/17	44.3	3.98
	09/08/17	269349.1	38.1	6.99	09/08/17	43913.4	0.0	0.00	09/08/17	38.1	3.42
	09/09/17	269380.1	31.0	5.69	09/09/17	43994.0	80.6	3.54	09/09/17	111.6	10.02
	09/10/17	269380.1	0.0	0.00	09/10/17	43994.0	0.0	0.00	09/10/17	0.0	0.00
	09/11/17	269457.2	77.1	7.07	09/11/17	43994.0	0.0	0.00	09/11/17	77.1	3.46
	09/12/17	269492.3	35.1	6.44	09/12/17	43994.0	0.0	0.00	09/12/17	35.1	3.15
	09/13/17	269534.0	41.7	7.65	09/13/17	44088.1	94.1	4.13	09/13/17	135.8	12.19
	09/14/17	269561.7	27.7	5.08	09/14/17	44088.1	0.0	0.00	09/14/17	27.7	2.49
	09/15/17	269596.0	34.3	6.29	09/15/17	44088.1	0.0	0.00	09/15/17	34.3	3.08
	09/16/17	269630.5	34.5	6.33	09/16/17	44153.4	65.3	3.83	09/16/17	99.8	8.96
	09/17/17	269687.5	57.0	10.46	09/17/17	44232.6	79.2	13.92	09/17/17	136.2	12.23
	09/18/17	269715.7	28.2	5.17	09/18/17	44232.6	0.0	0.00	09/18/17	28.2	2.53
	09/19/17	269715.7	0.0	0.00	09/19/17	44232.6	0.0	0.00	09/19/17	0.0	0.00
	09/20/17	269742.1	26.4	2.42	09/20/17	44232.6	0.0	0.00	09/20/17	26.4	1.18
	09/21/17	269765.7	23.6	4.33	09/21/17	44232.6	0.0	0.00	09/21/17	23.6	2.12
	09/22/17	269796.1	30.4	5.58	09/22/17	44232.6	0.0	0.00	09/22/17	30.4	2.73
	09/23/17	269823.5	27.4	5.03	09/23/17	44280.0	47.4	1.39	09/23/17	74.8	6.71
	09/24/17	269823.5	0.0	0.00	09/24/17	44280.0	0.0	0.00	09/24/17	0.0	0.00
	09/25/17	269870.3	46.8	4.29	09/25/17	44604.3	324.3	28.50	09/25/17	371.1	16.66
	09/26/17	269890.9	20.6	3.78	09/26/17	44604.4	0.1	0.02	09/26/17	20.7	1.86
	09/27/17	269890.9	0.0	0.00	09/27/17	44604.4	0.0	0.00	09/27/17	0.0	0.00
	09/28/17	269950.4	59.5	5.46	09/28/17	44604.4	0.0	0.00	09/28/17	59.5	2.67
	09/29/17	269975.1	24.7	4.53	09/29/17	44686.4	82.0	4.80	09/29/17	106.7	9.58
	09/30/17	269990.1	15.0	2.75	09/30/17	44686.4	0.0	0.00	09/30/17	15.0	1.35
	Total Days = 30	Total =907.7	907.7	Average=5.55	Total Days = 30	Total =1048.4	1048.4	Average = 6.14	Total Days =30	1,956.1	Average = 5.85

	Area 6 Cell C				Area 6 Cell D				Area 6 Ph2 COMBINED		
	Date	Meter Reading (Gal)	Leakage Amount (Gal)	Leakage Rate (Gal/Ac/Day)	Date	Meter Reading (Gal)	Leakage Amount (Gal)	Leakage Rate (Gal/Ac/Day)	Date	Leakage Amount (Gal)	Leakage Rate (Gal/Ac/Day)
4th Quarter	10/02/17	270039.9	49.8	4.57	10/02/17	44686.4	0.0	0.00	10/02/17	49.8	2.24
	10/03/17	270039.9	0.0	0.00	10/03/17	44686.4	0.0	0.00	10/03/17	0.0	0.00
	10/04/17	270071.4	31.5	2.89	10/04/17	44686.4	0.0	0.00	10/04/17	31.5	1.41
	10/05/17	270092.9	21.5	3.94	10/05/17	44686.4	0.0	0.00	10/05/17	21.5	1.93
	10/06/17	270106.9	14.0	2.57	10/06/17	44686.4	0.0	0.00	10/06/17	14.0	1.26
	10/07/17	270137.4	30.5	5.60	10/07/17	44686.4	0.0	0.00	10/07/17	30.5	2.74
	10/09/17	270170.1	32.7	3.00	10/09/17	44686.4	0.0	0.00	10/09/17	32.7	1.47
	10/10/17	270191.0	20.9	3.83	10/10/17	44686.4	0.0	0.00	10/10/17	20.9	1.88
	10/11/17	270209.1	18.1	3.32	10/11/17	44686.4	0.0	0.00	10/11/17	18.1	1.62
	10/12/17	270226.1	17.0	3.12	10/12/17	44686.4	0.0	0.00	10/12/17	17.0	1.53
	10/13/17	270244.4	18.3	3.36	10/13/17	44686.4	0.0	0.00	10/13/17	18.3	1.64
	10/14/17	270263.9	19.5	3.58	10/14/17	44686.4	0.0	0.00	10/14/17	19.5	1.75
	10/15/17	270297.4	33.5	6.15	10/15/17	44686.4	0.0	0.00	10/15/17	33.5	3.01
	10/16/17	270297.4	0.0	0.00	10/16/17	44686.4	0.0	0.00	10/16/17	0.0	0.00
	10/17/17	270310.9	13.5	1.24	10/17/17	44750.5	64.1	0.66	10/17/17	77.6	3.48
	10/18/17	270310.9	0.0	0.00	10/18/17	44750.5	0.0	0.00	10/18/17	0.0	0.00
	10/19/17	270310.9	0.0	0.00	10/19/17	44750.5	0.0	0.00	10/19/17	0.0	0.00
	10/20/17	270310.9	0.0	0.00	10/20/17	44750.5	0.0	0.00	10/20/17	0.0	0.00
	10/21/17	270377.0	66.1	3.03	10/21/17	44750.5	0.0	0.00	10/21/17	66.1	1.48
	10/22/17	270377.0	0.0	0.00	10/22/17	44750.5	0.0	0.00	10/22/17	0.0	0.00
	10/23/17	270398.9	21.9	2.01	10/23/17	44831.8	81.3	2.38	10/23/17	103.2	4.63
	10/24/17	270421.7	22.8	4.18	10/24/17	44831.8	0.0	0.00	10/24/17	22.8	2.05
	10/25/17	270445.1	23.4	4.29	10/25/17	44831.8	0.0	0.00	10/25/17	23.4	2.10
	10/26/17	270469.4	24.3	4.46	10/26/17	44831.8	0.0	0.00	10/26/17	24.3	2.18
	10/27/17	270472.3	2.9	0.53	10/27/17	44937.8	106.0	4.66	10/27/17	108.9	9.78
	10/28/17	270492.8	20.5	3.76	10/28/17	44937.8	0.0	0.00	10/28/17	20.5	1.84
	10/29/17	270492.8	0.0	0.00	10/29/17	44937.8	0.0	0.00	10/29/17	0.0	0.00
	10/30/17	270492.8	0.0	0.00	10/30/17	44937.8	0.0	0.00	10/30/17	0.0	0.00
	10/31/17	270533.6	40.8	2.50	10/31/17	44937.8	0.0	0.00	10/31/17	40.8	1.22
	Total Days = 31	543.5	543.5	Average=3.22	Total Days = 31	251.4	251.4	Average = 1.43	Total Days = 31	794.9	Average = 2.30
	11/01/17	270560.6	27.0	4.95	11/01/17	44937.8	0.0	0.00	11/01/17	27.0	2.42
	11/02/17	270573.9	13.3	2.44	11/02/17	44937.8	0.0	0.00	11/02/17	13.3	1.19
	11/03/17	270594.5	20.6	3.78	11/03/17	44937.8	0.0	0.00	11/03/17	20.6	1.85
	11/04/17	270607.9	13.4	2.46	11/04/17	44937.8	0.0	0.00	11/04/17	13.4	1.20
	11/05/17	270607.9	0.0	0.00	11/05/17	44937.8	0.0	0.00	11/05/17	0.0	0.00
	11/06/17	270647.9	40.0	3.67	11/06/17	44937.8	0.0	0.00	11/06/17	40.0	1.80
	11/07/17	270662.2	14.3	2.62	11/07/17	45030.0	92.2	1.47	11/07/17	106.5	9.56
	11/08/17	270662.2	0.0	0.00	11/08/17	45030.0	0.0	0.00	11/08/17	0.0	0.00
	11/09/17	270676.2	14.0	1.28	11/09/17	45030.0	0.0	0.00	11/09/17	14.0	0.63
	11/10/17	270697.3	21.1	3.87	11/10/17	45030.0	0.0	0.00	11/10/17	21.1	1.89
	11/13/17	270742.6	45.3	2.77	11/13/17	45030.0	0.0	0.00	11/13/17	45.3	1.36
	11/15/17	270772.1	29.5	2.71	11/15/17	45030.0	0.0	0.00	11/15/17	29.5	1.32
	11/16/17	270792.1	20.0	3.67	11/16/17	45096.1	66.1	1.29	11/16/17	86.1	7.73
	11/17/17	270809.1	17.0	3.12	11/17/17	45096.1	0.0	0.00	11/17/17	17.0	1.53
	11/18/17	270817.8	8.7	1.60	11/18/17	45096.1	0.0	0.00	11/18/17	8.7	0.78
	11/20/17	270830.3	12.5	1.15	11/20/17	45096.1	0.0	0.00	11/20/17	12.5	0.56
	11/21/17	270863.9	33.6	6.17	11/21/17	45189.0	92.9	3.27	11/21/17	126.5	11.36
	11/22/17	270892.4	28.5	5.23	11/22/17	45189.0	0.0	0.00	11/22/17	28.5	2.56
	11/24/17	270910.3	17.9	1.64	11/24/17	45189.0	0.0	0.00	11/24/17	17.9	0.80
	11/25/17	270939.1	28.8	5.28	11/25/17	45189.0	0.0	0.00	11/25/17	28.8	2.59
	11/27/17	270965.4	26.3	2.41	11/27/17	45189.0	0.0	0.00	11/27/17	26.3	1.18
	11/28/17	270965.4	0.0	0.00	11/28/17	45200.1	11.1	0.28	11/28/17	11.1	1.00
	11/29/17	270994.7	29.3	2.69	11/29/17	45200.1	0.0	0.00	11/29/17	29.3	2.63
	11/30/17	271014.6	19.9	3.65	11/30/17	45200.1	0.0	0.00	11/30/17	19.9	1.79
	Total Days = 30	Total = 481.0	481.0	Average=2.94	Total Days = 30	Total =262.3	262.3	Average =1.54	Total Days = 30	743.3	Average =2.22
	12/01/17	271039.8	25.2	4.62	12/01/17	45200.1	0.0	0.00	12/01/17	25.2	2.26
	12/02/17	271042.9	3.1	0.57	12/02/17	45200.1	0.0	0.00	12/02/17	3.1	0.28
	12/04/17	271075.3	32.4	2.97	12/04/17	45258.0	57.9	1.70	12/04/17	90.3	4.05
	12/05/17	271087.5	12.2	2.24	12/05/17	45258.0	0.0	0.00	12/05/17	12.2	1.10
	12/06/17	271117.6	30.1	5.52	12/06/17	45265.1	7.1	0.62	12/06/17	37.2	3.34
	12/07/17	271120.9	3.3	0.61	12/07/17	45265.1	0.0	0.00	12/07/17	3.3	0.30
	12/08/17	271134.5	13.6	2.50	12/08/17	45303.9	38.8	3.41	12/08/17	52.4	4.70
	12/09/17	271159.3	24.8	4.55	12/09/17	45303.9	0.0	0.00	12/09/17	24.8	2.23
	12/12/17	271215.5	56.2	3.44	12/12/17	45308.5	4.6	0.20	12/12/17	60.8	1.82
	12/15/17	271271.7	56.2	3.44	12/15/17	45318.6	10.1	0.59	12/15/17	66.3	1.98
	12/16/17	271299.5	27.8	5.10	12/16/17	45372.4	53.8	9.46	12/16/17	81.6	7.32
	12/18/17	271319.2	19.7	1.81	12/18/17	45423.0	50.6	4.45	12/18/17	70.3	3.16
	12/19/17	271345.8	26.6	4.88	12/19/17	45423.0	0.0	0.00	12/19/17	26.6	2.39
	12/20/17	271357.5	11.7	2.15	12/20/17	45433.2	10.2	0.90	12/20/17	21.9	1.97
	12/23/17	271357.5	0.0	0.00	12/23/17	45433.2	0.0	0.00	12/23/17	0.0	0.00
	12/26/17	271442.6	85.1	2.60	12/26/17	45532.0	98.8	2.89	12/26/17	183.9	2.75
	12/27/17	271455.0	12.4	2.28	12/27/17	45532.0	0.0	0.00	12/27/17	12.4	1.11
	12/28/17	271475.4	20.4	3.74	12/28/17	45532.0	0.0	0.00	12/28/17	20.4	1.83
	12/29/17	271492.2	16.8	3.08	12/29/17	45532.0	0.0	0.00	12/29/17	16.8	1.51
	12/30/17	271509.0	16.8	3.08	12/30/17	45532.0	0.0	0.00	12/30/17	16.8	1.51
	Total Days = 30	Total = 494.4	494.4	Average=3.02	Total Days = 30	Total = 331.9	331.9	Average =1.94	Total Days = 30	826.3	Average = 2.47

Attachment 6
Written Review of the Contingency Plan

Contingency Plan Review

The Town of Colonie and Capital Region Landfills, Inc. anticipate updates to the Operations and Maintenance Manual and Contingency Plan to take effect in 2018 related to the finalization of the Proposed Area 7 Development permitting.

Attachment 7
Environmental Monitoring Annual Report prepared by Arcadis

Attachment 7
Environmental Monitoring Annual Report prepared by Arcadis

Capital Region Landfills, Inc.

Town of Colonie Landfill

1319 Loudon Road
Cohoes, New York, 12047

AREA 5 ENVIRONMENTAL MONITORING REPORT

Fourth Quarter and Annual 2017

February 2018

AREA 5 ENVIRONMENTAL MONITORING REPORT

Fourth Quarter and Annual - 2017

Prepared for:

Capital Region Landfills, Inc.
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Date:

February 2018

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TABLES

1A Significant Increase Determinations for Metals in 2017

1B Significant Increase Determinations for Leachate Indicator Parameters in 2017

2A Summary of Groundwater Analytical Results – June 2017

2B Summary of Groundwater Analytical Results – September 2017

2C Summary of Groundwater Analytical Results – December 2017

3A Summary of PPRS and Leachate Analytical Results – June 2017

3B Summary of PPRS and Leachate Analytical Results – September 2017

3C Summary of PPRS and Leachate Analytical Results – December 2017

FIGURES

Figure 1 Monitoring Well Locations

Figure 2A Potentiometric Contours (June 2017)

Figure 2B Potentiometric Contours (September 2017)

Figure 2C Potentiometric Contours (December 2017)

APPENDICES

A Parameter Concentration Graphs

B Laboratory Analytical Reporting Forms – December 2017

C Field Data Summary Forms – December 2017

D Database of Historical Analytical Data (on disc)

E Data Validation Report, Data Validation Services, Inc. – June 2017

1 INTRODUCTION

The Environmental Monitoring and Site Analytical Plan (EMSAP) describes the protocol and procedures to be employed for monitoring potential groundwater contamination resulting from activities associated with the Area 5 Landfill Expansion at the Colonie Landfill. This report was prepared to fulfill the requirements outlined in the EMSAP, which was prepared in conformance with Chapter 6 of the New York Code of Rules and Regulations (6 NYCRR) Part 360, effective October 9, 1993.

Groundwater samples were collected from monitoring wells installed in Area 5. As of July 1996, solid waste has been deposited in Phase I (Cells A, B, and C) of Area 5. Waste has been deposited in Cell D (Phase II) since September 1999 and in Cell E (Phase II) since November 2000. Fluctuations in parameter concentrations noted after the deposition of waste, but resembling those observed during sampling events from September 1994 to April 1996, may be the result of background changes in groundwater quality upgradient of Area 5.

Groundwater samples were analyzed according to methods described in the EMSAP. The groundwater quality at the Colonie Landfill was evaluated with respect to the chemical analytical data. As described in the EMSAP, three criteria were used to evaluate the trends and fluctuations of parameter concentrations in the groundwater. These criteria are described below.

The first criterion is the Means Test. Analytical data for parameters detected in individual wells during background water quality sampling were averaged for each parameter and well ($\overline{X}_E$) and a standard deviation (σ_ε) was calculated. The preliminary groundwater sampling results from May and August of 1993 and September and December of 1994 were used as background concentrations. For each sampling round, the Means Test Criterion is tested for each detected parameter in a given well (*x*) against the sum of the mean of background water quality ($\overline{X}_E$) and three times the background water quality standard deviation ($3\sigma\varepsilon$). If the concentration of the detected parameter exceeds the mean of the background water quality plus three times the background water-quality standard deviation, the criterion is satisfied.

The second criterion is the Water Quality Test. The concentrations of detected parameters are compared to the mean of the background water quality ($\overline{X}_E$). If the detected value (*x*) exceeded $\overline{X}_E$ <u>and</u> exceeds water quality standards of 6 NYCRR Part 701, 702 and 703, then this criterion is satisfied.

Tests employed for Criteria 1 and 2 will show gross changes in parameter concentration and exceedances of background water quality and/or water quality standards. However, without an examination of the time variability in the data, trends toward increasing concentrations may not be observed. The third criterion, the Moving Average Trend Test, examines the time variability. Moving average calculations are used with time dependent groundwater data to reduce the fluctuations in analyte concentrations due to seasonal variations in groundwater flow regimes. The use of moving average calculations with detected parameters provides an indication of upward (or downward) trends over time. The four most recent quarterly analytical data for each parameter are averaged to calculate a moving average, which is compared to the moving average calculated for the preceding sampling event. An increasing trend in the moving average data satisfies this criterion.

2 ANALYTICAL DATA REVIEW

In accordance with the Revised Environmental Sampling Schedule outlined in a letter from Mr. Joseph Stockbridge (Town of Colonie Environmental Services) to Mr. Ted Robak (NYSDEC) dated January 3, 2007, three rounds of water quality monitoring were conducted in 2017. Specialized Environmental Monitoring, Inc. collected sampling for the second, third and fourth quarter events. All samples were analyzed by Alpha Analytical, Inc. The samples collected during the second quarter (June 2017) sampling event were analyzed for the 6 NYCRR Part 360 baseline parameters and the third and fourth quarter (September 2017 and December 2017) samples were analyzed for 6 NYCRR Part 360 routine parameters. The locations of monitoring wells in the vicinity of the Area 5 Landfill Expansion are shown on Figure 1.

No surface water samples were collected during any of the 2017 sampling events because no surface water was present in the wetland areas during the sampling events. Samples were collected from the Phase II Pore Pressure Relief System (PPRS) in each of the three sampling events of 2017. Individual samples were collected from the secondary leachate collection systems in Cells A, B and C and from the lagoon (primary leachate), and composite samples were collected from the secondary leachate collection systems in Cell D and Cell E in each of the three sampling events of 2017.

The Fourth Quarter 2017 analytical data and field measurements of groundwater samples collected from monitoring wells with the prefix “MPI” were statistically evaluated in accordance with the criteria described in Section 1.0. It is important to understand that the statistical identification of a “significant increase” does not necessarily indicate that groundwater standards are exceeded or that groundwater chemistry is appreciably changing. Frequently these statistical identifications are attributable to natural groundwater quality variability, seasonal precipitation and water level trends (wet years versus dry years), changing oxidation-reduction conditions altering the solubility of metals, changing upgradient groundwater quality, or other factors not attributable to the landfill. As stated in Section 1.0, the background concentration data against which the current analytical results are compared, is based upon four sample results at each well. While not a requirement, a larger background dataset could more fully account for natural temporal fluctuations associated with variable precipitation, groundwater levels, etc. and reduce the number of false positives (i.e., identification of a “significant increase” that is not valid). The rationale is that the larger background dataset more accurately reflects the true data population and thus results in a more robust statistical analysis. In short, the use of only four background samples for statistical analysis may result in false positives that do not accurately reflect existing water quality data.

Another factor for consideration are changes in upgradient water quality. The “significant increases” at several downgradient wells are representative of “significant increases” also identified at wells upgradient of the landfill and indicate consistent groundwater. Upgradient data for Area 5 from the MPI-4 well cluster has generally shown consistent concentrations through time. However, upgradient wells for Area 6 show increasing trends for several parameters (the Area 6 Fourth Quarter Report identified “significant increases” for eight individual parameters in upgradient wells). Changes in upgradient water quality should also be expected in downgradient wells. While similar increases are not observed at the Area 5 MPI-4 well cluster, it is likely that several “significant increases” observed in the Area 5 downgradient wells represent upgradient changes in water quality.

The following presents the statistical analysis as called for under the current EMSAP, while acknowledging the limitations identified above.

The 2017 analytical data and field measurements of groundwater samples collected from monitoring wells with the prefix “MPI” were statistically evaluated in accordance with the criteria described in Section 1.0. The number of “significant increase” designations in June (16 “significant increases”), September (11 “significant increases”) and December 2017 (12 “significant increases”) were slightly lower than 2016. At the end of 2017, “significant increases” of routine parameters were calculated based on concentrations of:

- Hardness, sodium, and sulfate at MPI-1D;
- Magnesium, and sulfate at MPI-1S;
- Calcium and sulfate at MPI-2;
- Calcium, chloride, hardness, and sodium at MPI-3.

Concentrations of total phenols, sulfate, ammonia, chloride, iron, magnesium, manganese, and sodium were specifically evaluated because they exceeded applicable New York State Department of Environmental Conservation (NYSDEC) groundwater standards during background sampling. In addition, parameters that currently show, or have recently shown, “significant increases” in a particular monitoring well when evaluated against the EMSAP criteria are also discussed. Graphs of the concentration of each parameter that has exceeded NYSDEC GA Standards at a particular well during background sampling are provided in Appendix A. The laboratory analytical summary report is provided in Appendix B and the field sampling data forms are provided in Appendix C.

Analytical results of groundwater samples collected at each of the six monitoring well locations designated with the prefix “MPI” were statistically evaluated and are discussed in Section 2.1. Analytical results are provided in Tables 2A – 2C. Analytical results of the groundwater samples collected from CTM-2, MW-3 and the PPRS sample were compared to applicable standards and previous results and are summarized in Section 2.3. A discussion of the analytical results of the primary and secondary leachate samples is also provided in Section 2.3. Leachate, PPRS, and lagoon results are provided in Tables 3A – Table 3C.

A database of all current and historical analytical results for the Area 5 Lateral Landfill Expansion has been generated. This database includes a custom query form that allows the user to create data tables and graphs of individual or groups of parameters from each well in the Area 5 monitoring network, as well as results of PPRS, secondary leachate system, and primary leachate (lagoon) samples. The database is provided as Appendix D and replaces historical summary tables that had been provided in previous quarterly reports. Access to the database is protected via a password, which may be provided upon request.

2.1 Data Usability

An independent, third-party data validator assessed the quality assurance and quality control (QA/QC) of the baseline analytical data from the June 2017 sampling event. The data validation report is provided in Appendix E. The analytical data for the June 2017 sampling event met the requirements of the NYSDEC ASP, although some parameter concentrations were qualified as discussed below.

Volatile Organic Compounds

The following detections are considered external contamination and are to be edited to reflect non-detection (“ND” or “U” at the reporting limit, or the original concentration, whichever is greater):

- all detections of iodomethane;
- all detections of acetone except those in SL-A, SL-B, SL-D, and Lagoon.

Accuracy and precision evaluations were performed on MPI-4S, and show acceptable recoveries and correlations. The field duplicate correlations between CW-5 and Duplicate are also acceptable. Holding times were met. Surrogate and internal standard recoveries meet protocol and validation requirements.

Calibration standards responses show outlying responses (RRF<0. 05) for iodomethane, the results for which are to be qualified as estimated (“UJ’’) in all of the samples.

Metals

The matrix spikes of MPI-4S, S.L.-A, and CTM-2 show acceptable recoveries and correlations, with the exception of those for iron (133% and 30%RPD) in MP-I4S. The result for that element in that parent sample is to be qualified as estimated in value (“UJ”).

The field duplicate correlations between CW-5 and Duplicate are acceptable.
The ICP serial dilution evaluations were performed on MPI-4S, S.L.-A, and CTM-2, and show acceptable correlations.

The results for boron in MW-1R and MPI-4S are considered external contamination and edited to reflect non-detection (“ND” or “U”) due to presence in the associated method blank.

Leachate Indicator Parameters

Review was conducted for method compliance, transcription, calculations, standard and blank acceptability, accuracy and precision, etc., as applicable to each procedure. All associated with validation samples were found acceptable unless noted specifically within this text.
The matrix spike/duplicate evaluations were performed for all analytes on MPI-4S, and show acceptable accuracy and precision, with the exception of the recoveries for bromide (both 79%) and nitrate (82%). The results for those analytes in the parent sample are to be qualified as estimated in value (“UJ’’).

Numerous additional project matrix spikes were performed, and show acceptable recoveries and correlations, with the exception of the recovery for bromide (82%) in MPI-2. The result for this analyte in the parent sample is to be qualified as estimated in value (“UJ”).
The field duplicate correlations between CW-5 and Duplicate are acceptable, with the exception of alkalinity (>±CRDL). The results for that analyte in those two samples are to be qualified as estimated in value (“J”).

2.2 Statistical Analysis

Results of groundwater samples collected in the Fourth Quarter 2017 at each of the six monitoring well locations designated with the prefix “MPI” were statistically evaluated. Analytical data of these samples are summarized in Tables 2A, 2B and 2C. A discussion of parameters that show or have recently shown “significant increases” in a particular monitoring well when evaluated against the EMSAP criteria is provided herein. A summary of the parameters that exceeded NYSDEC GA Standards during preliminary sampling is also provided. In addition, graphs of the concentration of each parameter that exceeded NYSDEC GA Standards at a particular well location during preliminary sampling are provided for each well.

Referenced background concentrations are from the four rounds of groundwater sampling conducted in May and August of 1993 and September and December of 1994. Field parameters, leachate indicators, and both organic and inorganic parameters were evaluated according to the criteria presented in the EMSAP. Concentrations of total phenols, sulfates, iron, ammonia, chlorides, magnesium, manganese, and sodium were specifically evaluated because they exceeded applicable NYSDEC GA Standards during background sampling. Fluctuations in parameter concentrations noted after the deposition of waste, but resembling those observed between September 1994 and April 1996, may be the result of background changes in groundwater quality upgradient of Area 5.

Volatile Organic Compounds

No volatile organic compounds (VOCs) were present above laboratory reporting limits in groundwater samples collected from the monitoring wells with an “MPI” prefix during the 2017 baseline sampling event.

Field Parameters

The result for the field parameter specific conductivity had triggered a “significant increase” at MPI-3 in June 2017 (725 microsiemens (uS)). In September 2017, specific conductivity again triggered a “significant increase” based on a result of 741 uS. In December 2017 no field parameters triggered “significant increases”. No field parameters were outside of normal values in groundwater samples collected from the monitoring wells with an “MPI” prefix during the 2017 sampling events.

Metals

As shown in Table 1A, the metals results which triggered “significant increases” were within the range of previous results or were consistent with the prevailing trends in concentrations at the corresponding locations. A brief discussion of each “significant increase” designated in 2017 follows.

Table 1A

Significant Increase Determinations for Metals in 2017

Well	Parameter	Concentration	Units	Consistent Result	Background Average	Moving Average
June 2017						
MPI-1D	Sodium	41,800	µg/l	Yes	23,425	41,350
MPI-1S	Sodium	119,000	µg/l	Yes	9,428	182,000
MP-3	Sodium	79,600	µg/l	Yes	24,475	53,250
MPI-1D	Magnesium	28,400	µg/l	Yes	10,700	24,750
MPI-1S	Magnesium	61,400	µg/l	Yes	33,775	87,300
MPI-3	Magnesium	54,200	µg/l	Yes	28,775	59,525
MPI-1S	Calcium	231,000	µg/l	Yes	136,750	275,750
MPI-2	Calcium	164,000	µg/l	Yes	89,600	165,750
MPI-1S	Manganese	381	µg/l	Yes	221	553
September 2017						
MPI-1D	Sodium	43,000	µg/l	Yes	23,425	42,025
MPI-1S	Sodium	127,000	µg/l	Yes	9,428	165,000
MP-3	Sodium	70,400	µg/l	Yes	24,475	59,575
MPI-1S	Magnesium	57,400	µg/l	Yes	33,775	76,900
MPI-3	Magnesium	56,300	µg/l	Yes	28,775	57,275
MPI-3	Calcium	250,000	µg/l	Yes	108,375	242,750

Well	Parameter	Concentration	Units	Consistent Result	Background Average	Moving Average
December 2017						
MPI-2	Calcium	180,000	µg/l	Yes	89,600	161,750
MPI-3	Calcium	300,000	µg/l	Yes	108,375	254,000
MPI-1S	Magnesium	52,800	µg/l	Yes	33,775	72,900
MPI-1D	Sodium	40,600	µg/l	Yes	23,425	42,350
MPI-1S	Sodium	119,000	µg/l	Yes	9,428	162,500
MPI-3	Sodium	65,700	µg/l	Yes	24,475	66,000

Boron – There were no “significant increases” calculated for the baseline parameter boron during the June 2017 baseline sampling event. Boron had triggered a “significant increase” at MPI-3 in December 2016 (90 μg/l), which was within the range of previous results. This concentration decreased to 61 μg/l in June 2017.

Calcium – In June 2017, calcium had triggered “significant increases” at MPI-1S (231,000 μg/l) and MPI-2 (164,000 μg/l). In September 2017, calcium concentrations at MPI-1S and MPI-2 decreased to 190,000 μg/l and 163,000 μg/l, respectively and did not trigger “significant increases”. In December 2017, the calcium concentration at MPI-2 (180,000 μg/l) increased and triggered a “significant increase”.

In September 2017, calcium at MPI-3 (250,000 μg/l) had triggered a “significant increase”. In December 2017, the calcium concentration increased to 300,000 μg/l and again triggered a “significant increase”. These results are within the range of previous results.

Iron – There were no “significant increases” for iron during any sampling event in 2017 event. In December 2017 the concentration of iron at all wells with an “MPI” prefix exceeded the NYSDEC GA Standard of 300 μg/l, with the exception of MPI-4D where iron was not detected. These results were within the range of previous results.

Magnesium – In June 2017, magnesium concentrations had triggered “significant increases” at MPI-1S, MPI-1D and MPI-3. These “significant increases” were triggered due to background average and NYSDEC GA Standard exceedances and were within the range of previous results. The September 2017 result at MPI-1S (57,400 μg/l) was the lowest since 2014 but still triggered a “significant increase”. In December 2017 the magnesium concentration at MPI-1S decreased to 52, 800 μg/l and still triggered a “significant increase” due to background average and NYSDEC GA Standard exceedances. Concentrations of magnesium did not trigger “significant increases” in any other groundwater monitoring wells in September or December 2017.

Similar to previous results, the magnesium concentration at MPI-1S, MPI-2 and MPI-3 exceeded the NYSDEC GA Standard of 35,000 μg/l.

Manganese – In June 2017, a “significant increase” had been calculated for manganese at MPI-1D, based on a concentration of 381 μg/l. This was within the range of previous results. The manganese concentration at MPI-1D decreased to 268 μg/l in September 2017 and to 133.1 μg/l in December and did not trigger a “significant increase” in either quarter. In September 2017 the manganese concentrations at MPI-1S and MPI -3 (423 μg/l and 1,141 μg/l, respectively) exceeded the GA Standard of 300 μg/l, but did not trigger “significant increases”. In December 2017 the manganese concentrations at MPI-1S (514.7 μg/l) and MPI-3 (323.8 μg/l) again exceeded the GA Standard of 300 μg/l; however; the concentrations did not trigger “significant increases”. The manganese concentration at MPI-1S occasionally exceeds and at MPI-3 typically exceeds the GA Standard. All other locations with the prefix “MPI” were within the range of previous results and below the GA Standard.

Sodium – In June and September 2017, the concentrations of sodium at MPI-1D, MPI-1S and MPI-3 triggered “significant increases”. In December 2017 concentrations at MPI-1D (40,600 μg/l), MPI-1S (119,000 μg/l), and MPI-3 (65,700 μg/l) decreased but still triggered “significant increases”. Results at MPI-1D and MPI-1S were within the range of previous results. The December 2017 sodium concentration at MPI-3 was slightly elevated compared to recent results but still within the range of historical results.

Consistent with historical data, with the exception of MPI-4S (6,420 µg/l), all wells with the prefix "MPI" exceeded the NYSDEC GA Standard of 20,000 µg/l.

Leachate Indicator Parameters

As shown in Table 1B, leachate indicator parameter results that triggered "significant increases" during the 2017 quarterly events were within the range of previous results or were consistent with the prevailing trends in concentrations at the corresponding locations. A brief discussion of each "significant increase" is included below.

Table 1 B

Significant Increase Determinations for Leachate Indicator Parameters in 2017

Well	Parameter	Concentration	Units	Consistent Result	Background Average	Moving Average
June 2017						
MPI-3	Chloride	135	mg/l	Yes	31	87
MPI-1S	COD	35	mg/l	Yes	13	39
MPI-1D	Hardness	566	mg/l	Yes	285	490
MPI-3	Hardness	812	mg/l	Yes	368	845
MPI-3	TDS	1200	mg/l	Yes	486	1225
MPI-3	TKN	2.05	mg/l	Yes	1	1
September 2017						
MPI-3	Chloride	100	mg/l	Yes	31	96
MPI-2	Hardness	871	mg/l	Yes	390	860
MPI-2	Alkalinity	607	mg/l	Yes	371	617
MPI-2	Sulfate	295	mg/l	Yes	189	297
December 2017						
MPI-3	Chloride	109	mg/l	Yes	31	107
MPI-1D	Hardness	532.7	mg/l	Yes	2859	501
MPI-3	Hardness	971.1	mg/l	Yes	368	863
MPI-1D	Sulfate	162	mg/l	Yes	87	155
MPI-1S	Sulfate	281	mg/l	Yes	135	424
MPI-2	Sulfate	324	mg/l	Yes	189	299

Alkalinity –A “significant increase” was calculated for alkalinity at MPI-2 in September 2017 (607 mg/l). In December 2017 the concentration at MPI-2 decreased to 596 mg/l and did not trigger a “significant increase”. Alkalinity often triggers “significant increases” at this location, although results appear relatively stable over time.

Ammonia – There were no “significant increases” triggered for ammonia at any location in 2017. None of the results from wells with an “MPI” prefix were greater than the NYSDEC GA Standard of 2 mg/l.

Hardness – In June 2017, the concentration of hardness at MPI-3 (812 mg/l) and MPI-1D (566 mg/l) triggered “significant increases” but were within the range of previous results. In September 2017, the result at MPI-3 increased to 857 mg/l but did not trigger a “significant increase” because of a decreasing moving average. In September 2017 the result at MPI-1D decreased to 465 mg/l and did not trigger a “significant increase”. In addition, a “significant increase” was calculated in September 2017 at MPI-2 (871 mg/l), but this result was within previous results at this location. In December 2017 calculated hardness at MPI-1D (532.7 mg/l) and MPI-3 (971.1 mg/l) increased and triggered “significant increases”. Hardness concentrations at these locations have increased in the last three quarters but have only intermittently triggered “significant increases” due to rising moving averages. All hardness results were within the range of previous concentrations at each location.

Chemical Oxygen Demand – A “significant increase” had been calculated for chemical oxygen demand (COD) at MPI-1S in June 2017 based on an estimated concentration of 35 mg/l. This result decreased to 22 mg/l in September 2017 and did not trigger a “significant increase”. There were no “significant increases” triggered for COD at any location in December 2017.

Chloride – In June 2017 the chloride concentration at MPI-3 (135 mg/l) triggered a “significant increase”. In September 2017, the concentration at MPI-3 decreased to 100 mg/l but again triggered a “significant increase” due to an increasing moving average and satisfaction of the means test. In December 2017 the chloride concentration at MPI-3 increased to 109 mg/l and triggered a “significant increase”. All results were below the NYSDEC GA Standard of 250 mg/l.

Sulfate – In June 2017 there were no “significant increases” triggered by concentrations of sulfate at any location. However, concentrations at MPI-2 (269 mg/l), MPI-1S (273 mg/l), MPI-3 (394 mg/l) exceeded the NYSDEC GA Standard (250 mg/l). In September 2017 the concentration at MPI-2 increased to 295 mg/l and triggered a “significant increase”. This was based on an increasing moving average as well as a NYSDEC GA Standard exceedance. Sulfate concentrations at MPI-1S (264 mg/l) and MPI-3 (440 mg/l) exceeded the NYSDEC GA Standard, but did not trigger “significant increases”. In December 2017 sulfate concentrations at MPI-1S (281 mg/l) and MPI-2 (324 mg/l) increased and triggered “significant increases”. A “significant increase” was also calculated for MPI-1D (162 mg/l). In addition to the concentrations at MPI-1S and MPI-2, the result at MPI-3 (466 mg/l) exceeded the NYSDEC GA Standard. All sulfate results were within the range of previous concentrations at each location.

Total Dissolved Solids – A “significant increase” had been calculated for total dissolved solids (TDS) in June 2017 at MPI-3 based on a result of 1,200 mg/l. In September 2017, the concentration remained the same and did not trigger a “significant increase”. There were no “significant increases” triggered for TDS at any location in December 2017. Since 2002, results of TDS at MPI-3 have been reported at approximately double that of results prior to 2002, with the maximum concentration recorded in 2005.

Total Kjeldahl Nitrogen – A “significant increase” had been calculated at MPI-3 for total kjeldahl nitrogen (TKN) in June 2017 based on a concentration of 2.05 mg/l. In September 2017, the result decreased to 0.0982 mg/l and did not trigger a “significant increase”. There were no “significant increases” triggered for TKN at any location in December 2017.

Total Phenols – In June 2017 total phenols were not detected above the laboratory reporting limit at any location. In September 2017, total phenols were detected at estimated concentrations below the laboratory reporting limit at upgradient wells MPI-4S (0.009 mg/l J) and MPI-4D (0.009 mg/l J), and downgradient wells MPI-2 (0.01 mg/l J) and MPI-3 (0.01 mg/l J). In December 2017, total phenols were detected at estimated concentrations at upgradient well MPI-1S (0.008 mg/l J). No “significant increase” determinations were calculated in December 2017.

2.3 Qualitative Data Analysis

Analytical results of groundwater samples from CTM-1, CTM-2, MW-3, the PPRS in Phase II Area 5, and leachate samples from the secondary containment systems and the lagoon were not included in the statistical analysis in 2017. A summary of the parameters that exceeded NYSDEC GA Standards in the groundwater samples in 2017 is provided below. Concentrations of parameters in the leachate samples are also discussed.

CTM-1: Due to an insufficient volume of water in well CTM-1, a groundwater sample was not collected from this well during any sampling event in 2017.

CTM-2: The analytical results for location CTM-2 are summarized in Tables 2A, 2B, and 2C. The metals results in 2017 are consistent with previous results at this location. Sodium and manganese exceeded the NYSDEC GA Standards (20,000 µg/l and 300 µg/l, respectively) in every sampling event. The concentration of total phenols at CTM-2 exceeded the NYSDEC GA Standard of 1 µg/l in the September 2017 sampling event. TDS exceeded the NYSDEC GA Standard of 500 µg/l in the September and December 2017 sampling events. The concentrations of all other routine parameters were consistent with previous results at this location.

MW-3: The 2017 analytical results for location MW-3 are summarized in Tables 2A, 2B and 2C. Concentrations of the metals manganese and sodium exceeded NYSDEC GA Standards in all three sampling events of 2017. The concentration of iron exceeded the NYSDEC GA Standard of 300 µg/l in December 2017. The concentration of magnesium exceeded the NYSDEC GA Standard of 35,000 µg/l in June 2017. These results and those of other metal parameters were consistent with previous results. The leachate indicator parameter TDS also exceeded the corresponding NYSDEC GA Standard in all three sampling events. The concentration of total phenols was also greater than the NYSDEC GA Standard of 1 µg/l in June 2017. These and other leachate indicator parameters were consistent with previous results.

There were no baseline parameters that exceeded the NYSDEC GA Standards during the June 2017 sampling event at MW-3.

MW-1R: In June 2017 a sample was collected at MW-1R. This location is only analyzed during the annual baseline sampling event. Analytical results are summarized in Table 2A. There were no VOCs detected in the sample; however, there were concentrations of leachate indicator parameters and metals that exceeded the corresponding NYSDEC GA Standards. Iron (11,900 µg/l), manganese (443.6 µg/l) and sodium (332,000 µg/l) all exceeded the corresponding standards; however, these and other metal parameter concentrations were within the range of previous results. The leachate indicator parameters chloride (876,000 µg/l) and TDS (1,700,000 µg/l) exceeded the corresponding NYSDEC GA Standards but were within the range of previous results, as were the concentrations of other leachate indicator parameters.

There were no baseline parameters that exceeded the NYSDEC GA Standards during the June 2017 sampling event at MW-1R.

CW-5: In June 2017 a sample was collected at MW-1R. This location is only analyzed during the annual baseline sampling event. Analytical results are summarized in Table 2A. Concentrations of ammonia (22,700 µg/l), total phenols (6 J µg/l,), TDS (1,000,000 µg/l), boron (2,350 µg/l), iron (50,600 µg/l), magnesium (43,600 µg/l), manganese (2,434 µg/l) and sodium (108,000 µg/l) exceeded the corresponding NYSDEC GA Standards. These results were within the range of historical events. Concentrations of other metals and leachate indicator parameters in samples collected from CW-5 in June 2017 were also generally consistent with previous results. Concentrations of benzene (6.7 µg/l), 1,4-Dichlorobenzene (3.9 µg/l) and chlorobenzene (30 µg/l) exceeded NYSDEC GA Standards. These VOCs, along with the four other parameters detected at CW-5 were consistent with previous results at this location.

Secondary Leachate - Cells A, B, and C: Individual samples from the secondary leachate collection system in Cells A, B and C (Phase I) were collected and analysed in June, September, and December 2017.

During the June 2017 baseline sampling event, the following baseline analytes were detected: acetone in cells A & B, benzene in cells A & C, and vinyl chloride at an estimated concentration in cell A.

As summarized in Tables 3A, 3B and 3C, a majority of metals and leachate indicator parameters were consistent between cells with the exception of potassium, ammonia, alkalinity, and TKN.

Secondary Leachate - **Cell D/E**: Waste deposition in Cell E began in the spring of 2002. The June 2002 sample was the first operational sample collected from the secondary leachate system in Cell E. Starting in September 2002, composite samples were collected from the secondary leachate systems in Cells D and E. The 2017 analytical results of these samples are summarized in Tables 3A, 3B, and 3C.

The VOC 1,1-dichloroethene had been detected in Cells D&E in each baseline event since 2012. In 2017 1,1-dichloroethene was not detected in Cells D&E. Similar to the 2016 baseline event, 2-butanone, acetone, and benzene were detected in Cells D&E. Other VOCs were within the range of previous concentrations. Concentrations of routine metals and leachate indicator parameters in the 2017 samples were within the range of those in the composite samples collected since September 2002 and the individual samples from Cell D and Cell E collected prior to September 2002.

Lagoon – Leachate in the lagoon was sampled and analyzed during all three events in 2017. The analytical results from the 2017 sampling events are summarized in Tables 3A, 3B and 3C. In December 2017, concentrations of all routine parameters were generally within the range of previous results at this location.

The June 2017 sampling event was the twelfth sampling event in which the leachate lagoon was sampled for baseline parameters following the addition of the waste stream from the Area 6 Lateral Landfill Expansion.

The following VOCs were detected:

- 1,2-Dichloroethane (0.62 µg/l)
- 1,4-Dichlorobenzene (1.6 J µg/l)
- 2-Butanone (420 µg/l))
- 2-Hexanone (1.8 J µg/l)
- 4-Methyl-2-Pentanone (8.1 µg/l))
- Acetone (660 µg/l))
- Benzene (2.2 µg/l))
- Chlorobenzene (1.8 J µg/l)
- cis-1,2-Dichloroethene (0.72 J µg/l)
- Ethylbenzene (4.8 µg/l))
- m&p-Xylene (2.3 J µg/l)
- o-Xylene (2 J µg/l)
- Toluene (1.4 J µg/l)
- Vinyl chloride (0.35 J µg/l)

These results are consistent with previous results at this location. The concentrations of parameters in the primary leachate sample (lagoon) were greater than those in the secondary leachate samples, indicating that the primary leachate was not impacting the secondary leachate system.

PPRS -- **Phase II Area 5**: Chloride, total phenols, TDS, iron, manganese, and sodium concentrations exceeded the corresponding NYSDEC GA Standards in the December 2017 sampling event. These concentrations are similar to historical results.

In general, concentrations of a majority of parameters in the PPRS sample were greater than those detected in the secondary leachate composite sample from Cells D and E and less than those present in the primary leachate sample. These results indicate that groundwater in the PPRS system was not impacted by leachate and did not infiltrate the secondary leachate collection system.

3 GROUNDWATER ELEVATION DATA

Water levels measured in the Area 5 monitoring wells in 2017 were used to contour the potentiometric surfaces as shown in Figures 2A, 2B, and 2C. Topographic contours shown on these figures are based on aerial photogrammetric data collected in November 2010. Based on the potentiometric contours of December 2017, groundwater generally flows west to east toward the Mohawk River at a gradient of approximately 0.070. Groundwater levels beneath the central portion of the landfill are influenced by the PPRS in Area 5, Cells A, B, and D.

Groundwater elevations measured in December 2017 were lower than the levels measured in June 2017 and September 2017. Elevations measured in December 2017 were lower than the fourth quarter average. The greatest difference from the fourth quarter average was at MPI-1S, which was 2.77 feet lower in December 2017.

Groundwater levels collected in 2017 were within the range of operational groundwater elevations at each respective location.

4 SUMMARY

4.1 "Significant Increase" Determinations

The number of significant increases in the Fourth Quarter 2017 (12) was higher than the Third Quarter 2017 (11), lower than the Second Quarter 2017 (16), and equal to the previous Fourth Quarter 2016 (12). Fourth quarter "significant increases" were based on concentrations of the following:

- Hardness, sodium, and sulfate at MPI-1D;
- Magnesium, and sulfate at MPI-1S;
- Calcium and sulfate at MPI-2; and
- Calcium, chloride, hardness, and sodium at MPI-3.

No baseline parameters triggered a "significant increase" during the baseline sampling event in June 2017.

"Significant increase" determinations and analytical results are summarized in Tables 1A through 3C.

When compared to the December 2016 sampling event, December 2017 had an equal number of "significant increases" and was within the historical range for fourth quarter sampling events: 10 in 2015, 13 in 2014, 14 in 2013, 14 in 2012, 11 in 2011, nine in 2010, 20 in 2009, 12 in 2008, four in 2007, 19 in 2006, 16 in 2005, 25 in 2004, and 25 in 2003. The majority of "significant increases" were based on concentrations that were generally consistent with the prevailing trends in concentrations.

4.2 Qualitative Trend Analysis

In general, the number of “significant increases” designated at each of the monitoring wells in the Area 5 monitoring network was consistent with the overall number of “significant increases” designated during recent sampling events at each monitoring location.

As shown in the graphs in Appendix A, many of the long-term trends in metals and leachate indicator parameter concentrations at MPI-1S, MPI-1D, MPI-2 and MPI-3 are continuing to stabilize. The 2014 fluctuations at MPI-3 appear to have been temporary and were attributed to adjacent landfill gas collection system condensate sump work in the summer of 2012. The more recent fluctuations will be monitored. Concentrations of ammonia, TKN, manganese and chloride at MPI-3 increased in September 2012 but had been decreasing until September 2014. Sampled analytes have decreased from September 2015 to December 2017 to more typical values with the exception of sodium and chloride which increased at MPI-3 during the December 2017 event. Further monitoring will continue throughout 2018 to verify these fluctuations.

Sodium concentrations at MPI-1S and MPI-2 have gradually increased over time and show a consistently increasing trend. The June 2017 results for sodium at these locations had each decreased since December 2016 but remained elevated. In September 2017, sodium at MPI-1S and MPI-2 increased again from the June 2017 results. In December 2017 sodium concentrations at both locations decreased slightly to less than or equal to June 2017 concentrations. All concentrations at upgradient monitoring wells MPI-4S and MPI-4D were stable through 2016 and continue to be stable in 2017.

The moving averages for the concentrations that triggered “significant increases” were used to reduce the seasonal and anomalous fluctuations in concentrations over time and better indicate increasing and decreasing trends. In general, many of the “significant increases” designated in 2017 were based on concentrations that were consistent with previous results at the respective locations or were stable at these concentrations.

4.3 Conclusions

The total number of “significant increases” (39) in 2017 was nine less than the total from 2016 (48), and more than the totals from previous years 2015 (29) and 2014 (38). As shown on the graphs in Appendix A, concentrations of the majority of parameters exhibit stable trends over the last four years. In 2017, groundwater elevations varied compared to average elevations during each quarter. During the fourth quarters of 2012 through 2014, the groundwater elevations were lower than average fourth quarter elevations, and this is potentially related to slightly higher numbers of “significant increases” during these quarters. In the fourth quarter of 2017, groundwater elevations were lower than the fourth quarter average. This lower than average result and the greater than average number of “significant increases” supports the principal of correlation between groundwater elevation and the number of “significant increases”. The parameter-specific evaluations and qualitative trend analyses of the “significant increases” in 2017 indicate that many of these designations were generally intermittent and do not represent consistent changes in concentrations of potential landfill-derived contaminants. In accordance with the EMSAP, all parameter concentrations exhibiting “significant increases” will be specifically evaluated in subsequent sampling events. Calcium, chloride, hardness, magnesium, sodium, and sulfate were the routine parameters that exhibited “significant increases” at the end of 2017. Based on the results of the baseline sampling event in June 2017, no parameters exclusive to the baseline list were detected at concentrations that triggered “significant increases”. The “significant increases” calculated in 2017 were not considered to be attributable to a potential release from the Area 5 lateral landfill expansion.

The conclusion that a majority of the parameters are stable over the last four years is consistent with the discussion presented in Section 2.0, in which it was stated that the identification of significant increases as currently called for in the EMSAP does not necessarily indicate that groundwater standards are exceeded or that groundwater chemistry is appreciably changing.

TABLES

TABLE 2A
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS - JUNE 2017
COLONIE LANDFILL

VOLATILE ORGANIC COMPOUNDS										
Sample ID	**MPI-1S**	**MPI-1D**	**MPI-2**	**MPI-3**	**MPI-4S**	**MPI-4D**	**CTM-2**	**MW-3**	**MW-1R**	**CW-5**
Sampling Date	**06/16/17**	**06/15/17**	**06/16/17**	**06/15/17**	**06/15/17**	**06/15/17**	**06/16/17**	**06/16/17**	**06/16/17**	**06/16/17**
Units	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
1,1,1-Trichloroethane	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,2-Trichloroethane	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.73 J	2.5 U	2.5 U
1,1-Dichloroethene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dibromo-3-Chloropropane	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromoethane	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
1,2-Dichlorobenzene	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.98 J
1,2-Dichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	3.9
2-Butanone	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Hexanone	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-Pentanone	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	6.7
Bromochloromethane	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromodichloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Bromomethane	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Carbon Disulfide	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	30
Chloroethane	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroform	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloromethane	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
cis-1,2-Dichloroethene	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
cis-1,3-Dichloropropene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Ethylbenzene	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	3.1
Isopropylbenzene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
m&p-Xylene	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.3 J
Methylene Chloride	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
o-Xylene	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.4 J
Styrene	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Tetrachloroethene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
trans-1,2-Dichloroethene	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
trans-1,3-Dichloropropene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Chloride	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

QUALIFIERS

Volatile Organic compounds

*: LCS or LCSD exceeds the control limits

*: MS or MSD exceeds the control limits

J: Indicates an estimated value.

U: Analyzed for but not detected.

TABLE 2A
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS - JUNE 2017
COLONIE LANDFILL

GENERAL CHEMISTRY										
Sample ID	**MPI-1S**	**MPI-1D**	**MPI-2**	**MPI-3**	**MPI-4S**	**MPI-4D**	**CTM-2**	**MW-3**	**MW-1R**	**CW-5**
Sampling Date	**06/16/17**	**06/15/17**	**06/16/17**	**06/15/17**	**06/15/17**	**06/15/17**	**06/16/17**	**06/16/17**	**06/16/17**	**06/16/17**
Units	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
Alkalinity	616	380	598	401	205	89	296	488	383	813 J
Ammonia	0.083	0.128	0.075	0.122	0.032 J	0.029 J	0.087	0.039 J	0.562	22.7
Biochemical Oxygen Demand	8.9	2 U	2 U	3.1	2 U	2 U	2 U	2 U	2.9	15
Bromide	0.671	0.198	0.581 J	0.222 J	0.05 UJ	0.25 U	0.093 J	0.45	0.086	0.951
Chemical Oxygen Demand	35 J	4.1 J	6.4 J	27	20	4.1 J	18	16	57	71
Chloride	141	55.1	88.1	135	9.12	2.75	62.1	105	876	200
Chromium (hexavalent)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Color	12	23	5 U	21	18	5 U	11	6	150	280
Cyanide, Total	0.005 U	0.005 U	0.005 U	0.005 U	0.002 J	0.001 J	0.005 U	0.005 U	0.002 J	0.005 U
Nitrate as N	0.1 U	0.026 J	0.55	0.68	0.1 UJ	0.17	0.026 J	6.1	0.1 U	0.1 U
Nitrogen, Kjeldahl	3.32	0.53	0.302	2.05	0.686	0.341	0.464	0.505	1.56	24.6
Phenolics, Total Recoverable	0.005 J	0.03 U	0.03 U	0.008 J	0.03 U	0.03 U	0.03 U	0.007 J	0.03 U	0.006 J
Sulfate	273	145	269	394	19	211	75.5	180	36	4.28
Total Dissolved Solids	1200	690	1100	1200	270	410	490	890	1700	1000
Total Organic Carbon - Quad	3.1	1.06	2.05	5.89	3.28	1.09	4.77	3.46	3.39	17.8
Hardness as calcium carbonate	828.7	566.4	835.5	812.3	209.4	163.3	361.9	729.9	390.1	621.4
METALS										
Sample ID	**MPI-1S**	**MPI-1D**	**MPI-2**	**MPI-3**	**MPI-4S**	**MPI-4D**	**CTM-2**	**MW-3**	**MW-1R**	**CW-5**
Sampling Date	**06/16/17**	**06/15/17**	**06/16/17**	**06/15/17**	**06/15/17**	**06/15/17**	**06/16/17**	**06/16/17**	**06/16/17**	**06/16/17**
Units	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
Aluminum	737	20	19.7	27.2	80.9	12.3	45.8	70.8	183	96.8
Antimony	4 U	4 U	4 U	1.45 J	4.41	1.38 J	0.5 J	0.48 J	4 U	4 U
Arsenic	1.09	2.37	0.47 J	0.5	0.35 J	0.78	0.35 J	0.22 J	3.64	3.42
Barium	65.88	41.49	68.18	44.84	53.24	14.99	58.69	58.39	97.57	254.1
Beryllium	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Boron	230	128	154	61	14 U	184	202	646	18 U	2350
Cadmium	0.07 J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.06 J	0.35	0.2 U	0.2 U
Calcium	231000	180000	164000	236000	56000	47200	104000	233000	132000	177000
Chromium	1.22	0.41 J	0.24 J	0.19 J	1 U	0.19 J	0.88 J	0.65 J	0.88 J	1.87
Cobalt	2.42	0.57	0.44 J	1.1	0.21 J	0.5 U	0.74	4.94	0.41 J	5.8
Copper	3.76	1.11	1.12	6.57	2.57	0.79 J	2.98	1.92	1.98	1.96
Iron	2730	3330	947	66.4	276 UJ	50 U	175	161	11900	50600
Lead	1.47	1 U	1 U	1 U	0.36 J	1 U	0.83 J	1 U	0.63 J	1.32
Magnesium	61400	28400	103000	54200	16900	11000	24900	35800	14600	43600
Manganese	244.8	380.9	93.66	111.7	35.09	1.73	313	4080	443.6	2434
Mercury	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	14.72	1.73 J	3.54	2.91	1.26 J	2 U	7.24	31.71	2 U	14.94
Potassium	1800	2750	2620	14800	1990	1850	1800	1210	1590	17800
Selenium	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Silver	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Sodium	119000	41800	67400	79600	4440	62900	53400	53800	332000	108000
Thallium	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vanadium	1.67 J	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1.94 J
Zinc	6.95 J	10 U	10 U	4.29 J	10 U	10 U	4.52 J	10 U	10 U	23.85
FIELD PARAMETERS										
Temperature (celsius)	11.9	12.4	10.5	14.0	13.9	13.4	10.8	11.7	13.4	12.2
pH (su)	7.38	7.46	7.40	7.10	7.42	7.91	7.99	7.23	7.37	6.89
Specific Conductance (uS)	805	490	718	725	220	253	383	638	1149	870
Eh (mv)	200	-27	247	275	185	114	225	199	-73	-80
Turbidity (VISUAL/ntu)	31	6	14	30	20	8	11	22	41	30
Depth to Water (ft bmp)	5.53	3.63	9.60	21.44	4.90	35.81	14.14	8.52	7.03	9.97

NS: Not sampled.

J: Indicates an estimated value.

N: Spiked sample recovery is not within control limits.

U: Indicates analyzed for but not detected.

B: The analyte was also detected in the associated laboratory blank.

TABLE 2B
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS - SEPTEMBER 2017
COLONIE LANDFILL

GENERAL CHEMISTRY										
Sample ID	**MPI-1S**	**MPI-1D**	**MPI-2**	**MPI-3**	**MPI-4S**	**MPI-4D**	**CTM-2**	**MW-3**	**MW-1R**	**CW-5**
Sampling Date	**09/28/17**	**09/28/17**	**09/21/17**	**09/21/17**	**09/20/17**	**09/20/17**	**09/21/17**	**09/29/17**		
Units	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
Alkalinity	582	360	607	446	258	88.1	297	487	NS	NS
Ammonia	0.156 J	0.126	0.083	0.051 J	0.047 J	0.042 J	0.11	0.307	NS	NS
Biochemical Oxygen Demand	2 U	2 U	2 U	2.3	2 U	2 U	2.5	2 U	NS	NS
Bromide	0.509	0.158	0.713	0.5 U	0.05 U	0.25 U	0.163 J	0.396	NS	NS
Chemical Oxygen Demand	22	8.1 J	12	33	12	10	22	20	NS	NS
Chloride	125	55.4	112	99.8	7.48	3.19	71.3	112	NS	NS
Chromium (hexavalent)									NS	NS
Color									NS	NS
Cyanide, Total									NS	NS
Nitrate as N	0.048 J	0.068 J	0.59	0.31	0.14	0.5	0.33	2.8	NS	NS
Nitrogen, Kjeldahl	0.927	0.424	0.173 J	0.982	0.251 J	0.234 J	0.659	0.698	NS	NS
Phenolics, Total Recoverable	0.03 U	0.03 U	0.01 J	0.01 J	0.009 J	0.009 J	0.009 J	0.03 U	NS	NS
Sulfate	264	152	295	440	18.2	217	84.5	185	NS	NS
Total Dissolved Solids	1100	700	1100	1200	270	390	510	970	NS	NS
Total Organic Carbon - Quad	2.83	1.3	2.37	7.52	3.88	1.46	4.71	4.29	NS	NS
Hardness as calcium carbonate	710	465	870.7	857.2	270.3	157.7	350.8		NS	NS
METALS										
Sample ID	**MPI-1S**	**MPI-1D**	**MPI-2**	**MPI-3**	**MPI-4S**	**MPI-4D**	**CTM-2**	**MW-3**	**MW-1R**	**CW-5**
Sampling Date	**09/28/17**	**09/28/17**	**09/21/17**	**09/21/17**	**09/20/17**	**09/20/17**	**09/21/17**	**09/29/17**		
Units	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
Aluminum									NS	NS
Antimony									NS	NS
Arsenic									NS	NS
Barium									NS	NS
Beryllium									NS	NS
Boron									NS	NS
Cadmium	0.07 J	0.2 U	0.2 U	0.1631 J	0.2 U	0.2 U	0.2 U	0.28	NS	NS
Calcium	190000	147000	163000	250000	72500	45800	100000	219000	NS	NS
Chromium									NS	NS
Cobalt									NS	NS
Copper									NS	NS
Iron	3580	2580	1870	550	737	20.3 J	192	200	NS	NS
Lead	1.3	1 U	1 U	0.839 J	0.6019 J	1 U	0.8189 J	1 U	NS	NS
Magnesium	57400	23800	113000	56300	21700	10500	24400	34100	NS	NS
Manganese	422.6	268.2	71.57	1141	139.1	3.154	503.9	3691	NS	NS
Mercury									NS	NS
Nickel									NS	NS
Potassium	1800	2470	2640	15400	2430	1890	2150	1110	NS	NS
Selenium									NS	NS
Silver									NS	NS
Sodium	127000	43000	72000	70400	5440	65000	53600	57400	NS	NS
Thallium									NS	NS
Vanadium									NS	NS
Zinc									NS	NS
FIELD PARAMETERS										
Temperature (celsius)	14.0	13.8	13.0	13.5	17.5	14.5	11.8	13.6	NS	NS
pH (su)	7.11	7.27	7.30	7.15	7.44	7.54	7.60	7.08	NS	NS
Specific Conductance (uS)	795	485	820	741	215	278	466	579	NS	NS
Eh (mv)	105	-68	205	303	294	229	285	258	NS	NS
Turbidity (VISUAL/ntu)	38	10	30	35	20	6	15	18	NS	NS
Depth to Water (ft bmp)	9.53	6.00	10.40	23.35	5.17	36.20	16.32	10.05	8.35	11

NS: Not sampled.

J: Indicates an estimated value.

N: Spiked sample recovery is not within control limits.

U: Indicates analyzed for but not detected.

B: The analyte was also detected in the associated laboratory blank.

TABLE 2C
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS - DECEMBER 2017
COLONIE LANDFILL

GENERAL CHEMISTRY										
Sample ID	**MPI-1S**	**MPI-1D**	**MPI-2**	**MPI-3**	**MPI-4S**	**MPI-4D**	**CTM-2**	**MW-3**	**MW-1R**	**CW-5**
Sampling Date	**12/07/17**	**12/07/17**	**12/05/17**	**12/05/17**	**12/05/17**	**12/06/17**	**12/06/17**	**12/07/17**	**NS**	**NS**
Units	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
Alkalinity	574	371	596	437	280	88.6	318	484	NS	NS
Ammonia	0.042 J	0.064 J	0.069 J	0.075 U	0.031 J	0.075 U	0.205	0.037 J	NS	NS
Biochemical Oxygen Demand	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	NS	NS
Bromide	0.408	0.125	0.687	0.5 U	0.05 U	0.25 U	0.309	0.367	NS	NS
Chemical Oxygen Demand	18	6.1 J	11	22	11	10 U	25	15	NS	NS
Chloride	129	62	132	109	6.88	3.35	94.2	113	NS	NS
Chromium (hexavalent)										
Color										
Cyanide, Total										
Nitrate as N	0.034 J	0.093 J	0.62	1.2	0.1 U	0.4	0.064 J	2.3	NS	NS
Nitrogen, Kjeldahl	0.968	0.251 J	0.303	0.627	0.446	0.408	0.812	0.62	NS	NS
Phenolics, Total Recoverable	0.008 J	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	NS	NS
Sulfate	281	162	324	466	20.2	235	118	205	NS	NS
Total Dissolved Solids	1100	680	1300	1200	370	390	610	930	NS	NS
Total Organic Carbon - Quad	2.61	1.48	3.12	5.03	3.33	1.32	4.48	3.71	NS	NS
Hardness as calcium carbonate	781.4	532.7	861.6	971.1	327	171.9	445.7	768.9	NS	NS
METALS										
Sample ID	**MPI-1S**	**MPI-1D**	**MPI-2**	**MPI-3**	**MPI-4S**	**MPI-4D**	**CTM-2**	**MW-3**	**MW-1R**	**CW-5**
Sampling Date	**12/07/17**	**12/07/17**	**12/05/17**	**12/05/17**	**12/05/17**	**12/06/17**	**12/06/17**	**12/07/17**	**NS**	**NS**
Units	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
Aluminum										
Antimony										
Arsenic										
Barium										
Beryllium										
Boron										
Cadmium	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.0984 J	0.2821	NS	NS
Calcium	226000	176000	180000	300000	93100	50700	134000	256000	NS	NS
Chromium										
Cobalt										
Copper										
Iron	2190	3710	3960	410	906	50 U	880	438	NS	NS
Lead	1.047	1 U	1 U	0.7642 J	0.7835 J	1 U	1.806	0.5915 J	NS	NS
Magnesium	52800	22900	99700	53700	23000	11000	26900	31700	NS	NS
Manganese	514.7	133.1	84.33	323.8	116.3	2.047	739.4	4343	NS	NS
Mercury										
Nickel										
Potassium	1910	2540	2700	14800	2860	2000	2390	1390	NS	NS
Selenium										
Silver										
Sodium	119000	40600	76300	65700	6420	65000	53000	58500	NS	NS
Thallium										
Vanadium										
Zinc										
FIELD PARAMETERS										
Temperature (celsius)	10.9	11.5	11.5	12.0	12.6	11.3	11.4	11.7	NS	NS
pH (su)	7.44	7.46	7.30	7.25	7.54	7.92	7.61	7.20	NS	NS
Specific Conductance (uS)	735	502	816	748	268	280	457	640	NS	NS
Eh (mv)	298	-21	232	208	171	204	200	311	NS	NS
Turbidity (VISUAL/ntu)	35	11	28	30	11	10	10	22	NS	NS
Depth to Water (ft bmp)	7.86	5.64	10.54	24.70	6.30	35.79	17.35	9.97	8.00	11.10

NS: Not sampled.

J: Indicates an estimated value.

N: Spiked sample recovery is not within control limits.

U: Indicates analyzed for but not detected.

B: The analyte was also detected in the associated laboratory blank.

TABLE 3A
SUMMARY OF PPRS AND LEACHATE ANALYTICAL RESULTS - JUNE 2017
COLONIE LANDFILL

VOLATILE ORGANIC COMPOUNDS						
Sample ID	**PPRS-5**	**S.L.-A-5**	**S.L.-B-5**	**S.L.-C-5**	**S.L.-D&E**	**LAGOON**
Sampling Date	**06/23/17**	**06/21/17**	**06/21/17**	**06/21/17**	**06/21/17**	**06/21/17**
Units	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
1,1,1-Trichloroethane	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1-Dichloroethene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichlorobenzene	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromo-3-Chloropropane	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromoethane	2 U	2 U	2 U	2 U	2 U	2 U
1,2-Dichlorobenzene	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.62
1,2-Dichloropropane	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	1.6 J
2-Butanone	5 U	5 U	5 U	5 U	41	420
2-Hexanone	5 U	5 U	5 U	5 U	5 U	1.8 J
4-Methyl-2-Pentanone	5 U	5 U	5 U	5 U	5 U	8.1
Acetone	5 U	2.6 J	8.7	5 U	23	660
Benzene	0.28 J	0.9	0.5 U	0.48 J	0.21 J	2.2
Bromochloromethane	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromodichloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	2 U	2 U	2 U	2 U	2 U	2 U
Bromomethane	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Carbon disulfide	5 U	5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	1.8 J
Chloroethane	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroform	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloromethane	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
cis-1,2-Dichloroethene	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.72 J
cis-1,3-Dichloropropene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Ethylbenzene	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	4.8
m&p-Xylene	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.3 J
Methylene Chloride	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
o-Xylene	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2 J
Styrene	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Tetrachloroethene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	1.4 J
trans-1,2-Dichloroethene	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
trans-1,3-Dichloropropene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl chloride	0.28 J	0.14 J	1 U	1 U	1 U	0.35 J

QUALIFIERS

Volatile Organic compounds

*: LCS or LCSD exceeds the control limits

*: MS or MSD exceeds the control limits

J: Indicates an estimated value.

U: Analyzed for but not detected.

TABLE 3A
SUMMARY OF PPRS AND LEACHATE ANALYTICAL RESULTS - JUNE 2017
COLONIE LANDFILL

GENERAL CHEMISTRY						
Sample ID	**PPRS-5**	**S.L.-A-5**	**S.L.-B-5**	**S.L.-C-5**	**S.L.-D&E**	**LAGOON**
Sampling Date	**06/23/17**	**06/21/17**	**06/21/17**	**06/21/17**	**06/21/17**	**06/21/17**
Units	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
Alkalinity	842	503	652	653	662	2100
Ammonia	1.58	1.38	12.6	0.612	87.7	544
Biochemical Oxygen Demand	7.3	44	10 U	4.8	10	380
Bromide	0.59	2.33	4.47	0.634	0.293	18.9
Chemical Oxygen Demand	27	260	360	59	36	2000
Chloride	252	554	701	83.6	54.2	1950
Chromium (hexavalent)	0.01 U	0.01 U	0.01 U	0.003 J	0.01 U	0.01 U
Color - Color Units	76	120	92	72	52	1200
Cyanide, Total	0.005 U	0.003 J	0.005	0.002 J	0.003 J	0.014
Nitrate as N	0.1 U	0.1 U	0.19	0.1 U	0.057 J	1 U
Nitrogen, Kjeldahl	2.08	4.5	17.7	1.8	91.1	727
Phenolics, Total Recoverable	0.019 J	0.048	0.022 J	0.012 J	0.029 J	1.4
Sulfate	65.3	1.57	4.33	16.4	253	203
Total Dissolved Solids	1400	1600	2100	760	780	6000
Total Organic Carbon - Quad	6.83	61.7	101	18.7	12.1	579
Hardness as calcium carbonate	968.9	763.3	766.7	603.7	528	857.8
METALS						
Sample ID	**PPRS-5**	**S.L.-A-5**	**S.L.-B-5**	**S.L.-C-5**	**S.L.-D&E**	**LAGOON**
Sampling Date	**06/23/17**	**06/21/17**	**06/21/17**	**06/21/17**	**06/21/17**	**06/21/17**
Units	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
Aluminum	7.84 J	121	94	38.8	34.1	254
Antimony	0.77 J	5.03	1.25 J	0.54 J	32.03	19.9
Arsenic	0.79	130.4	43.13	24.38	50.69	200.8
Barium	293	630.9	882.8	1598	203.1	693.7
Beryllium	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Boron	324	5440	9500	666	154	23100
Cadmium	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.1 J
Calcium	234000	185000	180000	150000	134000	189000
Chromium	1 U	1.06	1.73	0.52 J	1.29	136.5
Cobalt	0.19 J	7.24	18.17	0.36 J	1.76	29.93
Copper	1 U	2.56	3.93	1.56	1.8	8.09
Iron	4010	15500	2120	11900	2320	4240
Lead	1 U	0.37 J	1 U	1 U	0.4 J	1.9
Magnesium	93300	73200	77300	56000	47100	93400
Manganese	2021	335.6	378.3	421.2	1823	1276
Mercury	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	2.48	72.15	96.91	4.9	4	117.3
Potassium	14000	2640	17400	2540	7340	402000
Selenium	5 U	5 U	5 U	5 U	5 U	2.19 J
Silver	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Sodium	126000	276000	425000	65400	47100	1510000
Thallium	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vanadium	5 U	5 U	5 U	5 U	5 U	57.43
Zinc	10 U	9.37 J	6.99 J	5.71 J	7.78 J	39.42
FIELD PARAMETERS					**Cell D** **Cell E**	
Temperature (celsius)	22.4	19.9	19.7	18.5	19.9 18.9	26.30
pH (su)	6.8	6.97	7.54	7.27	6.98 7.64	8.30
Specific Conductance (uS)	1010	1167	1464	641	530 1106	4000
Eh (mv)	-23	-67	-8	-74	-72 -93	14
Turbidity (VISUAL/ntu)	10	20	35	10	12 40	150

QUALIFIERS

General Chemistry

J: Sample result is greater than the MDL but below the CRDL

N: Spiked sample recovery is not within control limits.

U: Indicates analyzed for but not detected.

B: The analyte was detected in the associated trip blank.

Metals

J: Sample result is greater than the MDL but below the CRDL

N: Spiked sample recovery is not within control limits.

U: Indicates analyzed for but not detected.

B: The analyte was detected in the associated trip blank.

TABLE 3B
SUMMARY OF PPRS AND LEACHATE ANALYTICAL RESULTS - SEPTEMBER 2017
COLONIE LANDFILL

GENERAL CHEMISTRY						
Sample ID	**PPRS-5**	**S.L.-A-5**	**S.L.-B-5**	**S.L.-C-5**	**S.L.-D&E**	**LAGOON**
Sampling Date	**09/28/17**	**09/29/17**	**09/29/17**	**09/29/17**	**09/28/17**	**09/29/17**
Units	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
Alkalinity	868	439	640	628	582	4620
Ammonia	1	0.994	15.7	0.88	32.1	640
Biochemical Oxygen Demand	5.4	14	31	6.4	7.3	180
Bromide	0.53	2.16	4.46	0.506	0.387	25.7
Chemical Oxygen Demand	28	230	420	53	39	2400
Chloride	349	587	751	87.8	65.2	2590
Chromium (hexavalent)						
Color - Color Units						
Cyanide, Total						
Nitrate as N	0.1 U	0.13	0.26	0.13	12	1 U
Nitrogen, Kjeldahl	1.59	3.66	21.6	1.85	34.4	900
Phenolics, Total Recoverable	0.03 U	0.02 J	0.11	0.03 U	0.03 U	1.2
Sulfate	19.6	5.38	2.54	30.1	235	242
Total Dissolved Solids	1500	1600	2200	840	960	7400
Total Organic Carbon - Quad	7.88	69.7	133	21.4	9.74	627
Hardness as calcium carbonate	996					

METALS						
Sample ID	**PPRS-5**	**S.L.-A-5**	**S.L.-B-5**	**S.L.-C-5**	**S.L.-D&E**	**LAGOON**
Sampling Date	**09/28/17**	**09/29/17**	**09/29/17**	**09/29/17**	**09/29/17**	**09/29/17**
Units	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Boron						
Cadmium	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U
Calcium	230000	146000	157000	144000	161000	185000
Chromium						
Cobalt						
Copper						
Iron	6300	11000	27100	6710	597	5910
Lead	1 U	0.39 J	1 U	1 U	0.43 J	2.11 J
Magnesium	103000	66300	67200	49000	59900	84400
Manganese	1911	250.4	336.1	406.4	2405	1003
Mercury						
Nickel						
Potassium	15400	3070	17800	9040	6860	521000
Selenium						
Silver						
Sodium	153000	278000	424000	72800	48600	1810000
Thallium						
Vanadium						
Zinc						

FIELD PARAMETERS					Cell D	Cell E	
Temperature (celsius)	14	21.3	20.9	19.9	21.3	19.3	25.70
pH (su)	6.98	7.02	7.38	7.12	7.01	7.68	7.95
Specific Conductance (uS)	1325	1142	1470	617	620	929	>2000
Eh (mv)	-55	-59	-30	-70	150	85	28
Turbidity (VISUAL/ntu)	10	30	30	20	15	16	>150

QUALIFIERS

General Chemistry

J: Sample result is greater than the MDL but below the CRDL

N: Spiked sample recovery is not within control limits.

U: Indicates analyzed for but not detected.

B: The analyte was detected in the associated trip blank.

Metals

J: Sample result is greater than the MDL but below the CRDL

N: Spiked sample recovery is not within control limits.

U: Indicates analyzed for but not detected.

B: The analyte was detected in the associated trip blank.

TABLE 3C
SUMMARY OF PPRS AND LEACHATE ANALYTICAL RESULTS - DECEMBER 2017
COLONIE LANDFILL

GENERAL CHEMISTRY						
Sample ID	**PPRS-5**	**S.L.-A-5**	**S.L.-B-5**	**S.L.-C-5**	**S.L.-D&E**	**LAGOON**
Sampling Date	**12/08/17**	**12/07/17**	**12/07/17**	**12/07/17**	**12/07/17**	**12/08/17**
Units	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
Alkalinity	979	487	698	18.5	668	4380
Ammonia	0.834	1.2	12.2	0.737	19.8	833
Biochemical Oxygen Demand	6.9	10 U	12	5.5	3.9	200
Bromide	0.562	2.59	5.5	0.636	0.274	32.8
Chemical Oxygen Demand	25	320	460	55	25	2000
Chloride	363	649	797	95.4	63.9	3290
Chromium (hexavalent)						
Color - Color Units						
Cyanide, Total						
Nitrate as N	0.054 J	0.061 J	0.22	0.1 U	3.8	180
Nitrogen, Kjeldahl	1.2	4.26	17.1	1.47	19.8	967
Phenolics, Total Recoverable	0.009 J	0.019 J	0.023 J	0.018 J	0.03 U	0.15
Sulfate	9.88	4.3	3.47	0.446 J	242	222
Total Dissolved Solids	1500	1700	2100	742	1000	4600
Total Organic Carbon - Quad	7.52	78.4	129	850	8.29	548
Hardness as calcium carbonate	1051	782.5	840.3	729.3	840.8	1885

METALS						
Sample ID	**PPRS-5**	**S.L.-A-5**	**S.L.-B-5**	**S.L.-C-5**	**S.L.-D&E**	**LAGOON**
Sampling Date	**12/08/17**	**12/07/17**	**12/07/17**	**12/07/17**	**12/07/17**	**12/08/17**
Units	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Boron						
Cadmium	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.319 J
Calcium	265000	204000	214000	206000	225000	594000
Chromium						
Cobalt						
Copper						
Iron	2960	9120	5130	14900	1620	11800
Lead	1 U	1 U	1 U	1 U	1 U	3.058 J
Magnesium	94700	66600	74300	52300	67600	97300
Manganese	1900	279.7	499.3	507.8	2595	1033
Mercury						
Nickel						
Potassium	12500	2990	20700	3160	4780	513000
Selenium						
Silver						
Sodium	156000	290000	472000	72100	46800	2080000
Thallium						
Vanadium						
Zinc						

FIELD PARAMETERS					Cell D	Cell E	
Temperature (celsius)	17.3	13.8	11.9	11.9	11.3	10.1	21.60
pH (su)	7.25	7.26	7.2	7.45	7.26	7.12	8.30
Specific Conductance (uS)	1160	1230	1545	680	657	933	4000
Eh (mv)	-20	-25	-50	-25	162	138	-158
Turbidity (VISUAL/ntu)	14	30	33	15	10	11	150

QUALIFIERS

General Chemistry

J: Sample result is greater than the MDL but below the CRDL

N: Spiked sample recovery is not within control limits.

U: Indicates analyzed for but not detected.

B: The analyte was detected in the associated trip blank.

Metals

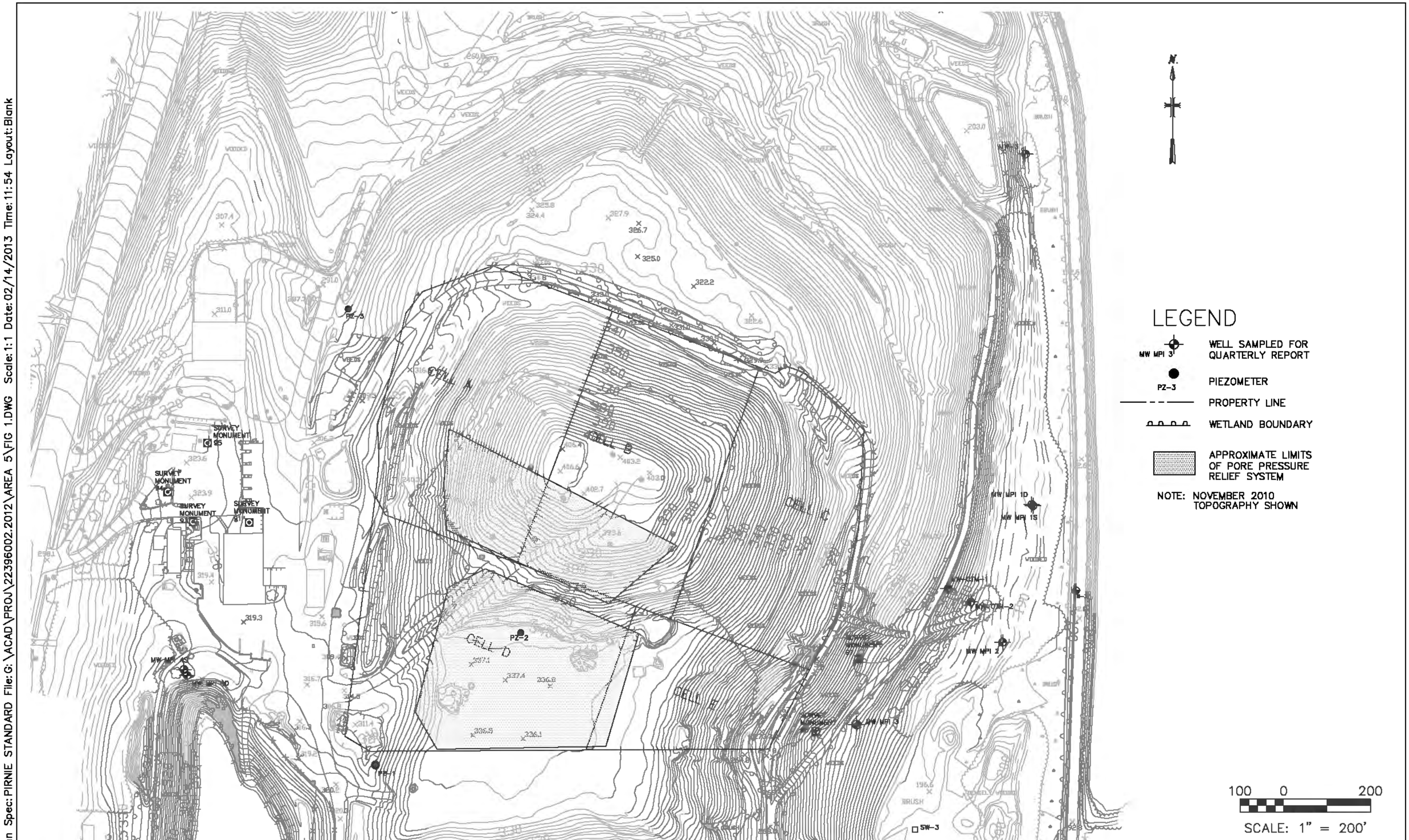
J: Sample result is greater than the MDL but below the CRDL

N: Spiked sample recovery is not within control limits.

U: Indicates analyzed for but not detected.

B: The analyte was detected in the associated trip blank.

FIGURES



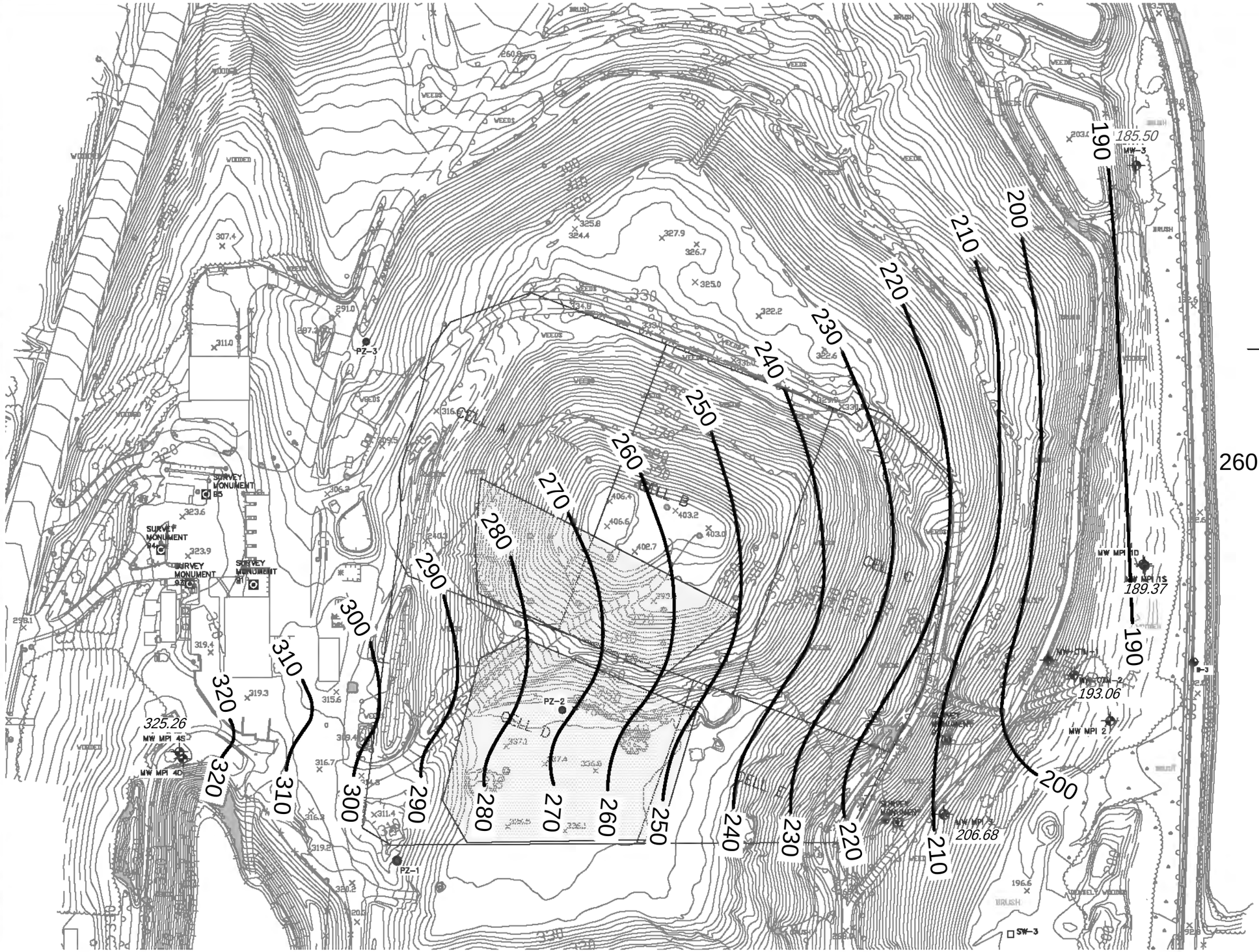
ARCADIS

WASTE CONNECTIONS, INC.
COLONIE, NEW YORK
COLONIE LANDFILL MONITORING

AREA 5
MONITORING WELL LOCATIONS
SCALE: AS SHOWN

January 2017
FIGURE 1

User: Hausmann Spec: PIRNIE STANDARD File: G:\ACAD\PROJ\22396002.2012\AREA 5\FIG 1.DWG Scale: 1:1 Date: 02/14/2013 Time: 11:54 Layout: Blank



N.

LEGEND

- WELL SAMPLED FOR QUARTERLY REPORT
- PZ-3 PIEZOMETER
- PROPERTY LINE
- WETLAND BOUNDARY
- APPROXIMATE LIMITS OF PORE PRESSURE RELIEF SYSTEM
- 260 POTENTIOMETRIC CONTOUR
- 187.01 GROUNDWATER ELEVATION (FT. A.M.S.L.)

NOTE: NOVEMBER 2010 TOPOGRAPHY SHOWN

100 0 200

SCALE: 1" = 200'

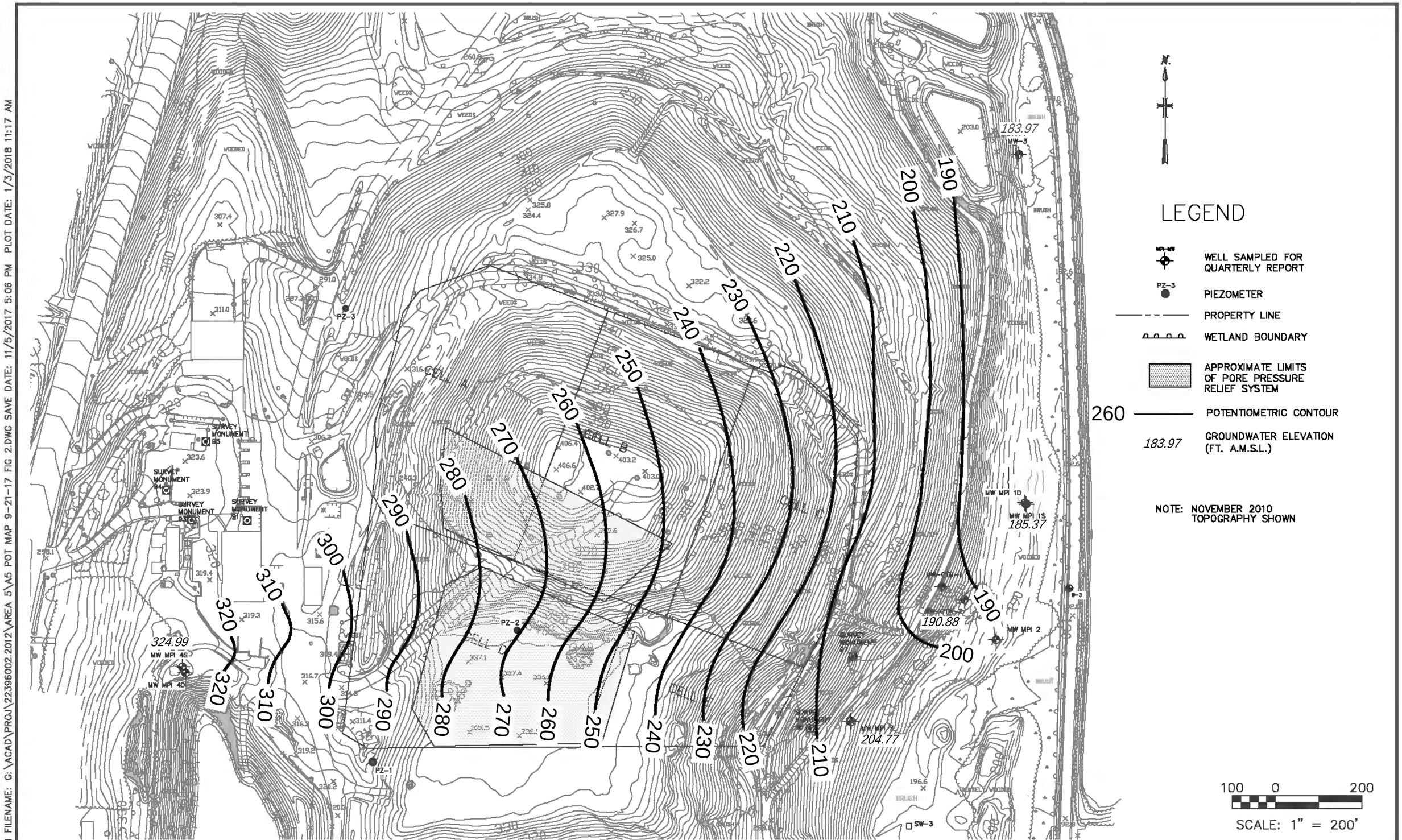
ARCADIS

WASTE CONNECTIONS, INC.
COLONIE, NEW YORK
COLONIE LANDFILL MONITORING

AREA 5
POTENTIOMETRIC CONTOURS (June 15, 2017)
SCALE: AS SHOWN

AUGUST 2017
FIGURE 2A

USER: AGIBSON FILENAME: G:\ACAD\PROJ\22396002.2012\AREA 5\A5 POT MAP 6-15-17 FIG 2.DWG SAVE DATE: 1/3/2018 3:08 PM PLOT DATE: 1/3/2018 3:09 PM



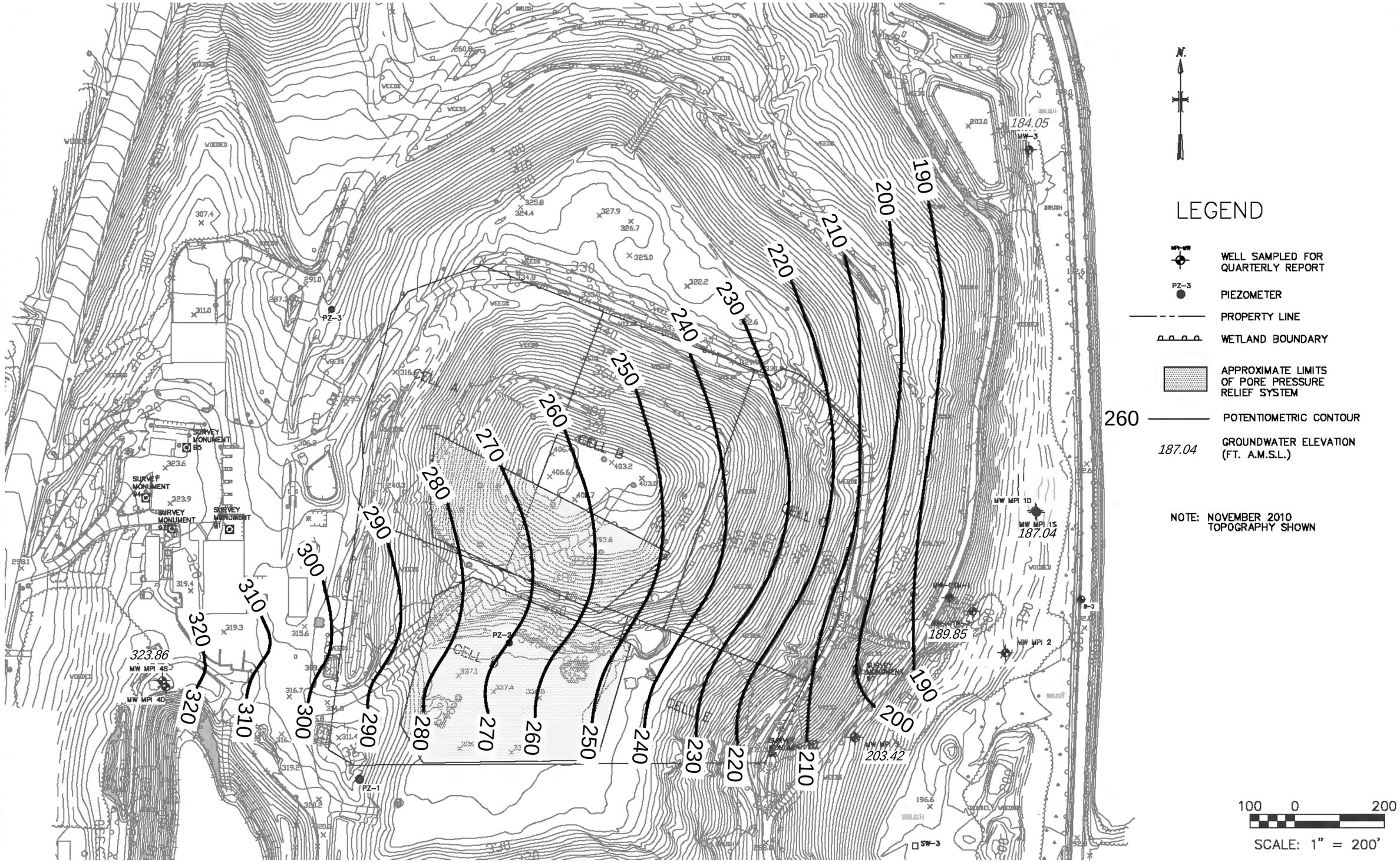
USER: AGIBSON FILENAME: G:\ACAD\PROJ\22396002.2012\AREA 5\A5 POT MAP 9-21-17 FIG 2.DWG SAVE DATE: 11/5/2017 5:06 PM PLOT DATE: 1/3/2018 11:17 AM

ARCADIS

WASTE CONNECTIONS, INC.
COLONIE, NEW YORK
COLONIE LANDFILL MONITORING

AREA 5
POTENTIOMETRIC CONTOURS (September 21, 2017)
SCALE: AS SHOWN

November 2017
FIGURE 2B



USER: AGIBSON FILENAME: G:\ACAD\PROJ\22396002.2012\AREA 5\A5 POT MAP 12-5-17 FIG 2.DWG SAVE DATE: 1/3/2018 3:03 PM PLOT DATE: 1/3/2018 3:03 PM

ARCADIS

WASTE CONNECTIONS, INC.
COLONIE, NEW YORK
COLONIE LANDFILL MONITORING

AREA 5
POTENTIOMETRIC CONTOURS (December 5, 2017)
SCALE: AS SHOWN

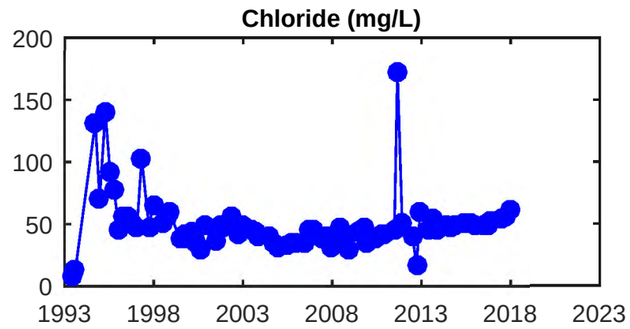
January 2018
FIGURE 2C

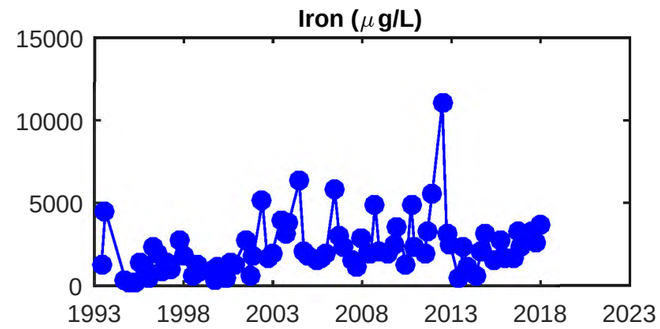
APPENDIX A

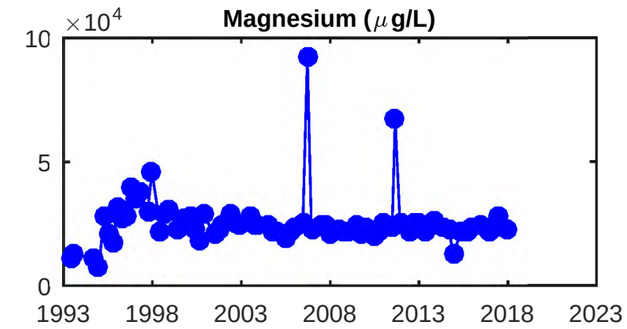
Parameter Concentration Graphs

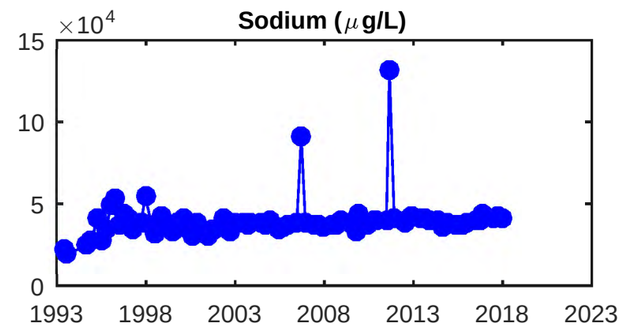
ARCADIS

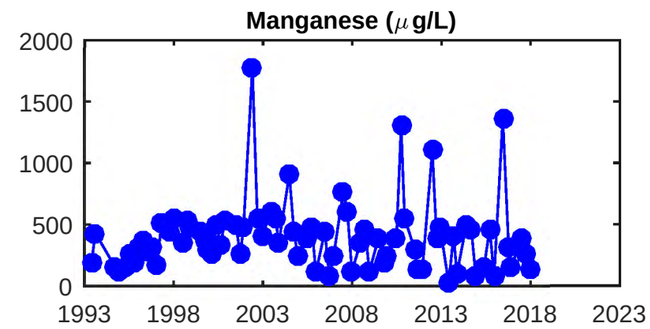
TOWN OF COLONIE LANDFILL - AREA 5
MPI-1D

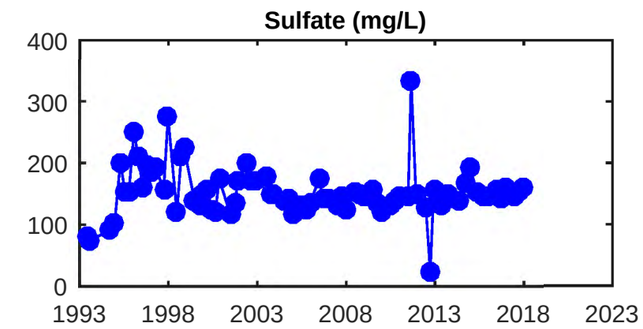


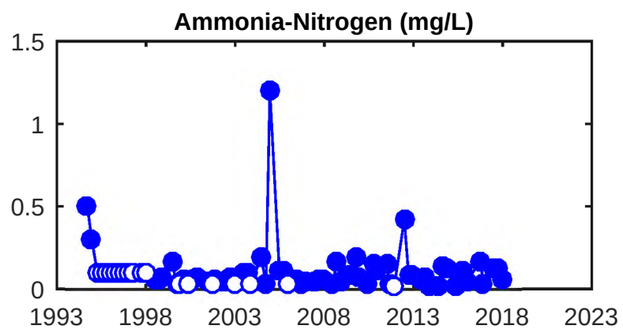


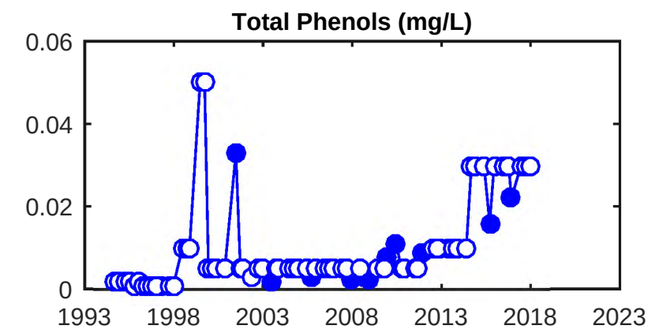


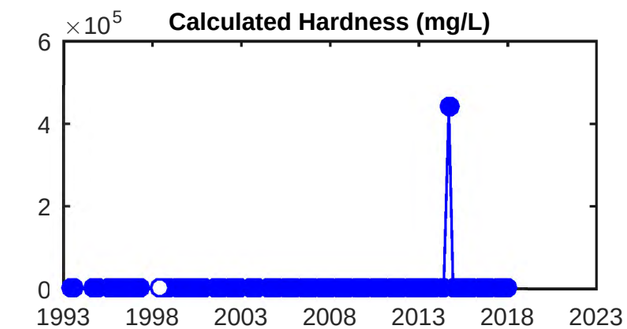








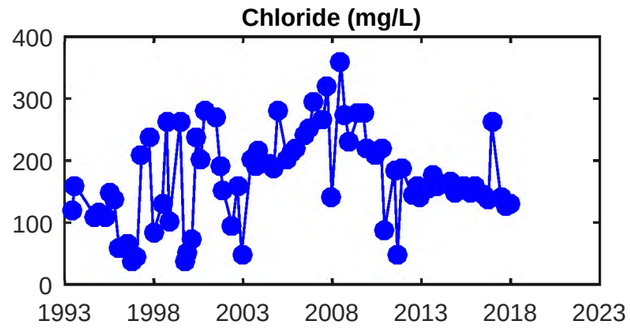


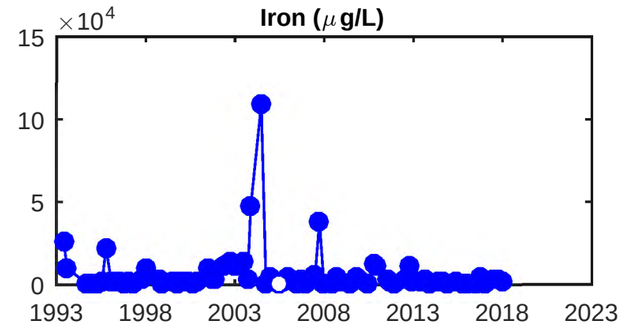


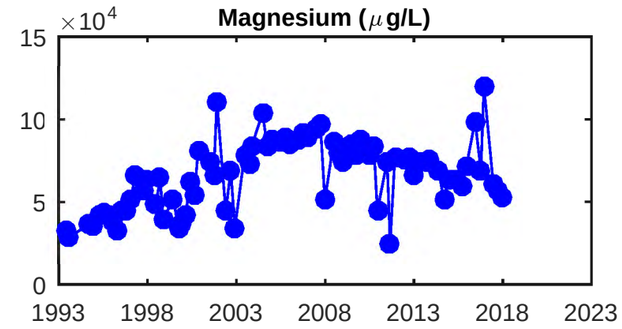
Notes:
1. Filled symbols represent detected results, open circles represent non-detected results.

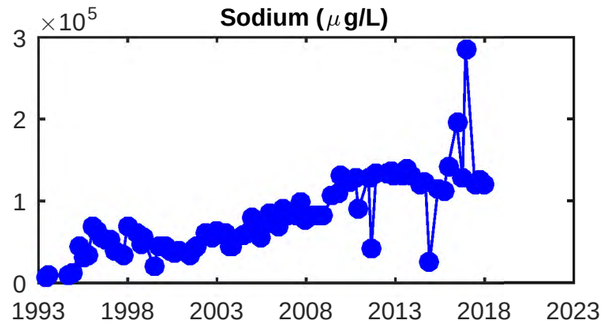
ARCADIS

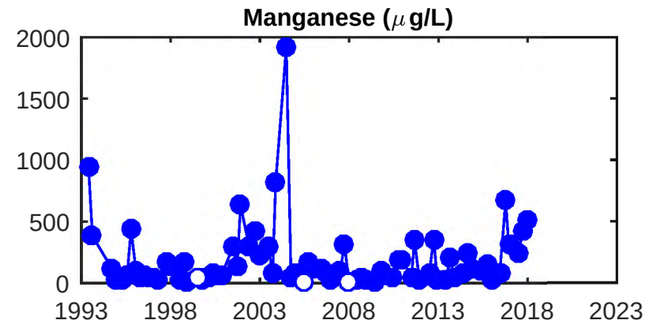
TOWN OF COLONIE LANDFILL - AREA 5
MPI-1S

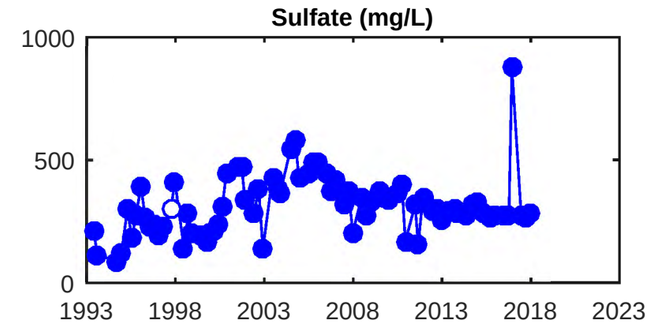


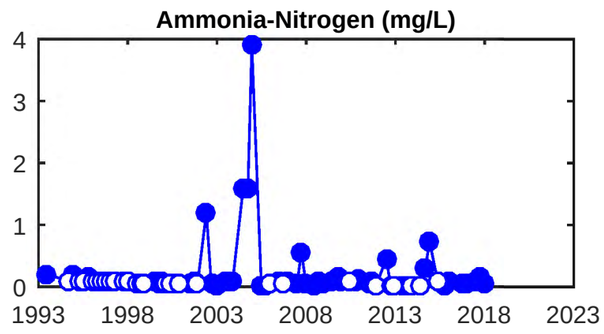


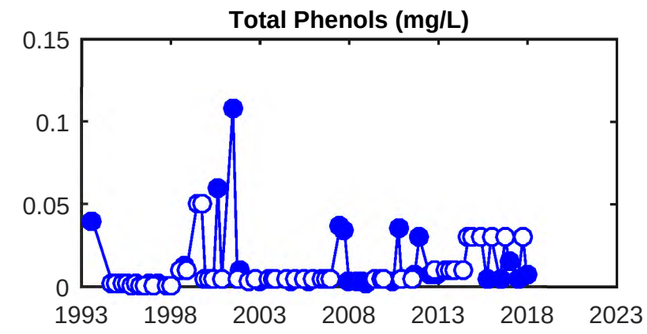








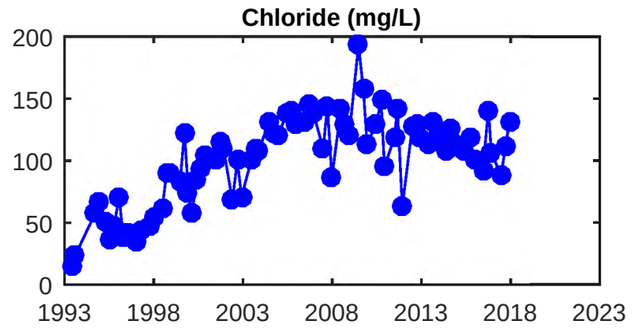


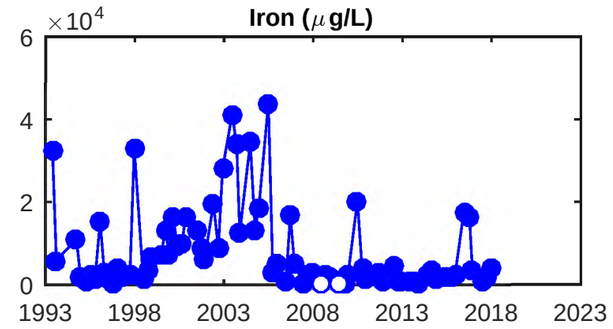


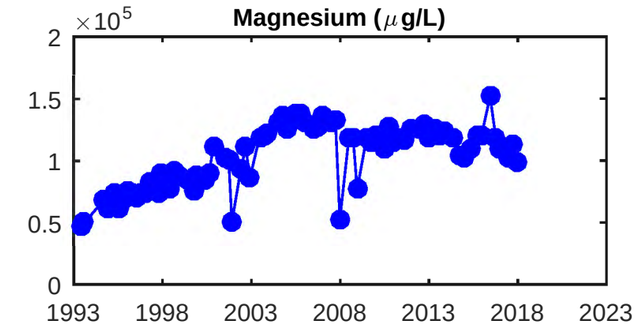
Notes:
1. Filled symbols represent detected results, open circles represent non-detected results.

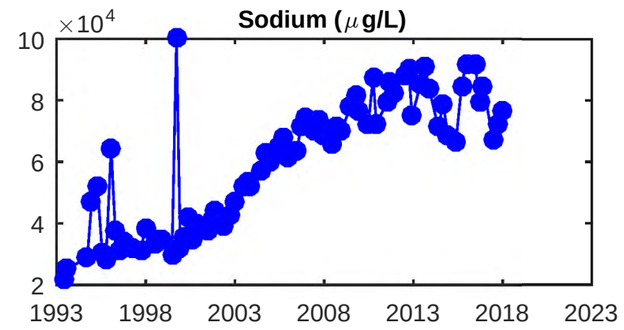
ARCADIS

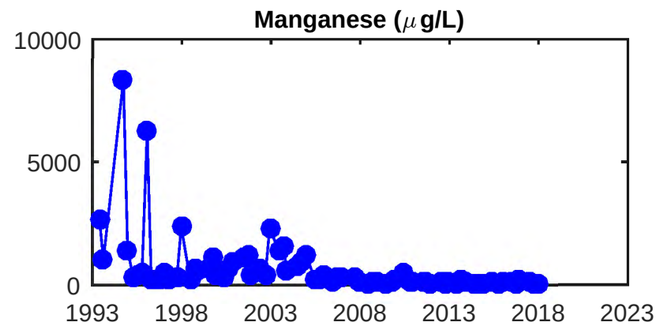
TOWN OF COLONIE LANDFILL - AREA 5
MPI-2

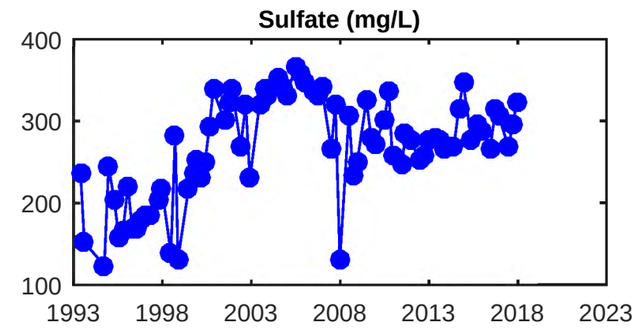


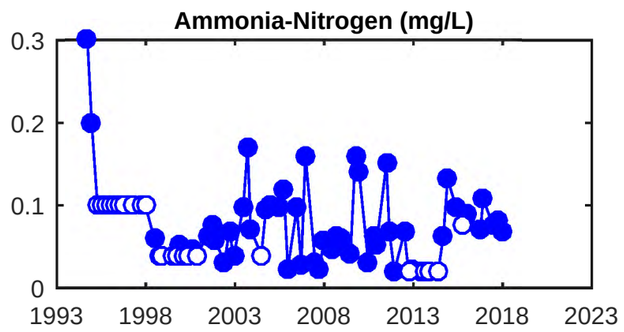


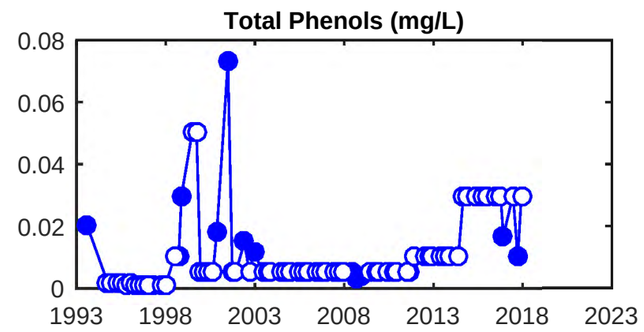


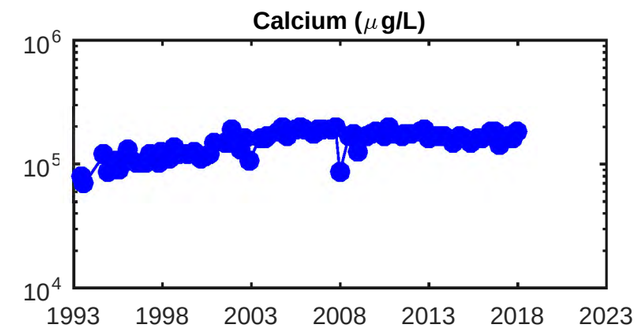








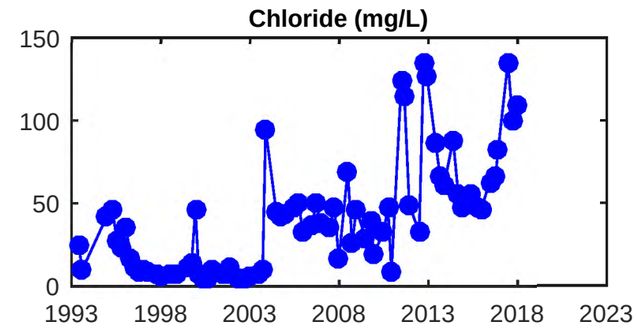


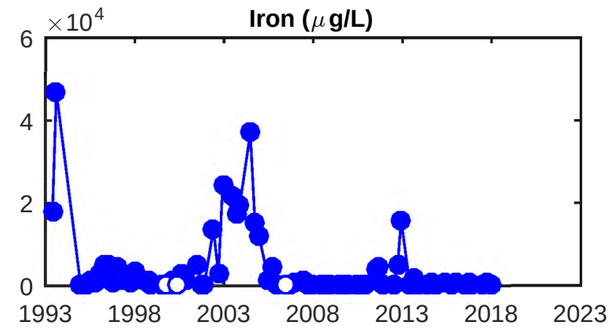


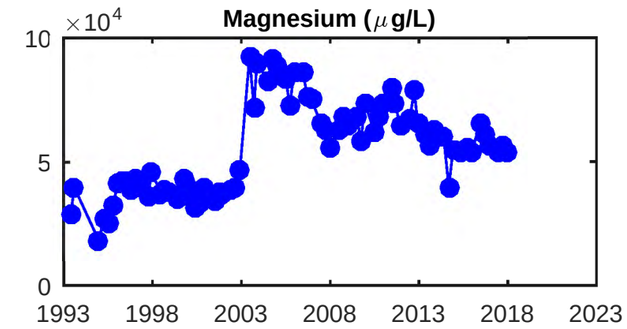
Notes:
1. Filled symbols represent detected results, open circles represent non-detected results.

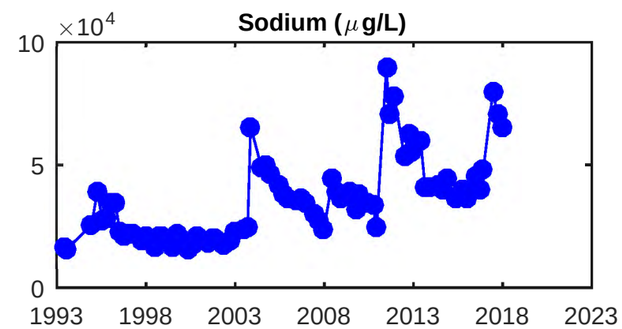
ARCADIS

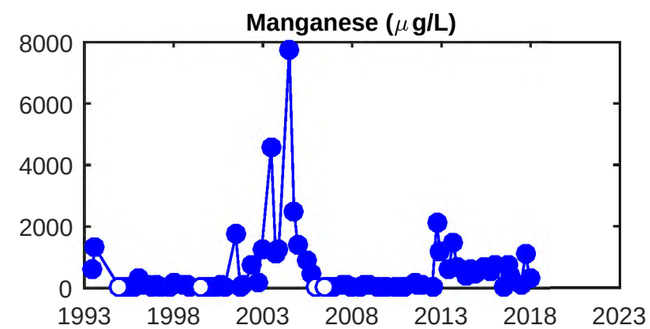
TOWN OF COLONIE LANDFILL - AREA 5
MPI-3

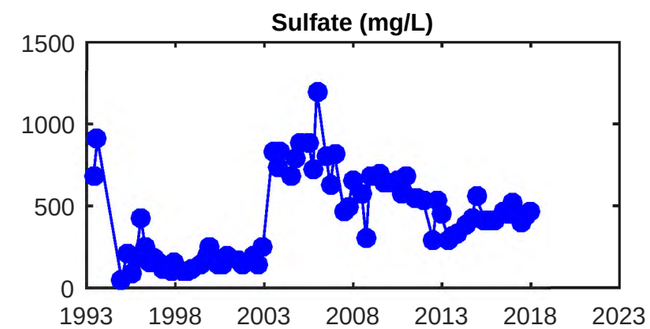


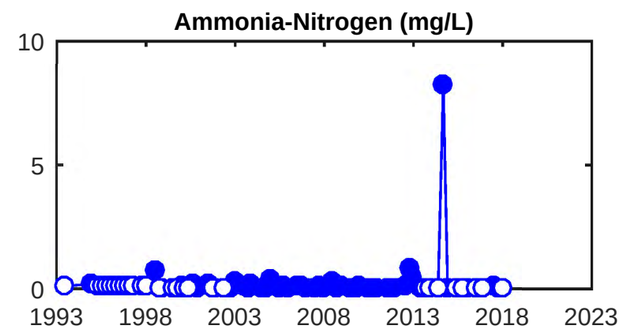


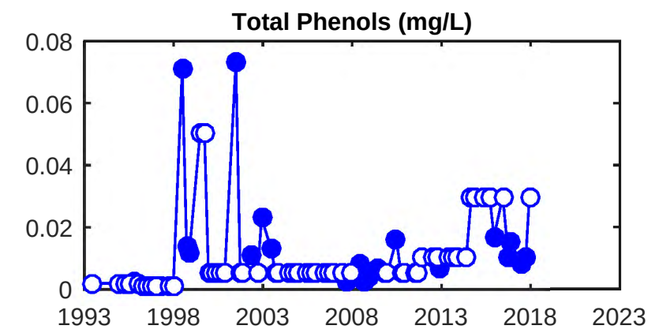


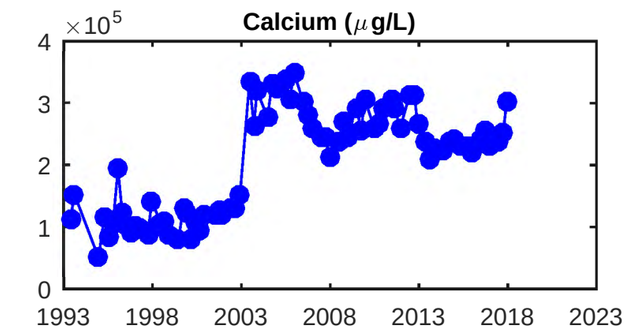


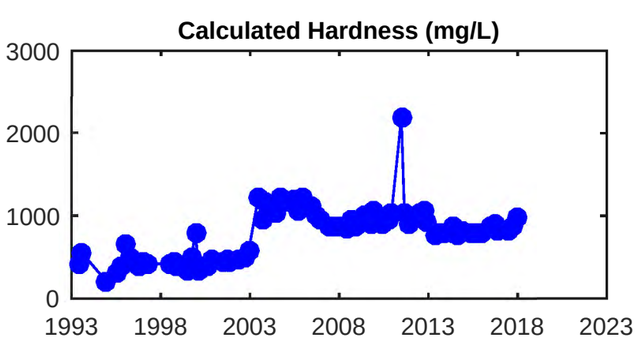








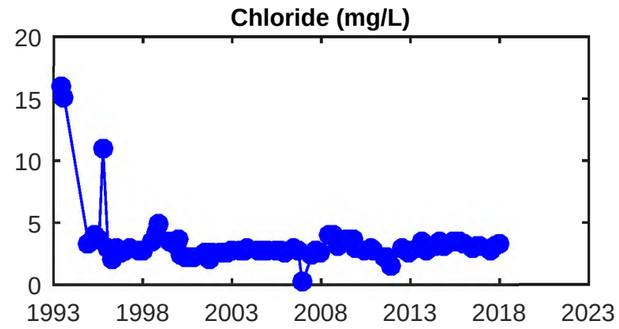


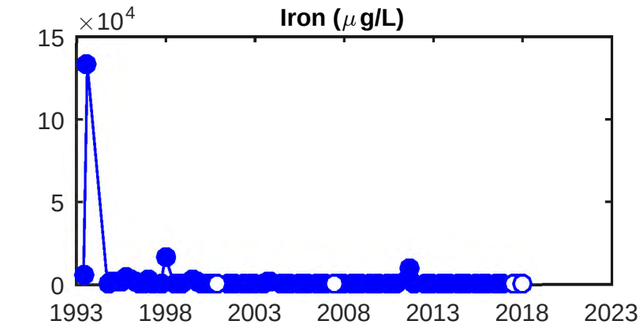


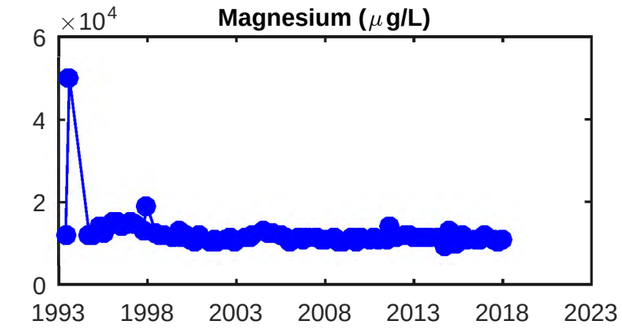
Notes:
1. Filled symbols represent detected results, open circles represent non-detected results.

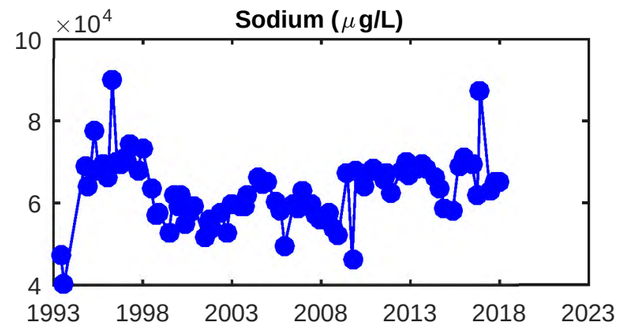
ARCADIS

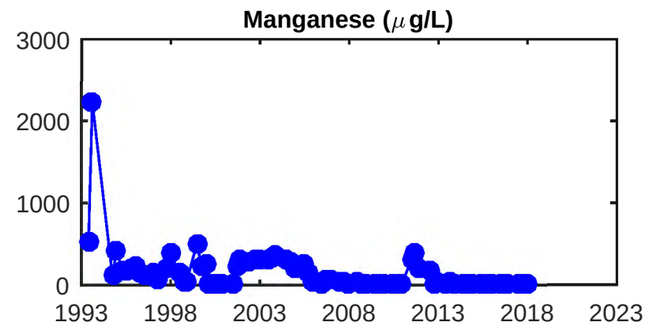
TOWN OF COLONIE LANDFILL - AREA 5
MPI-4D

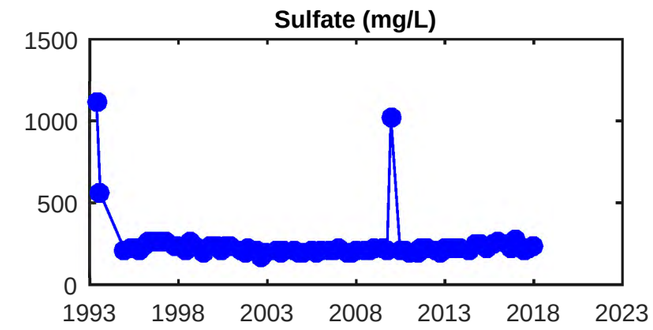


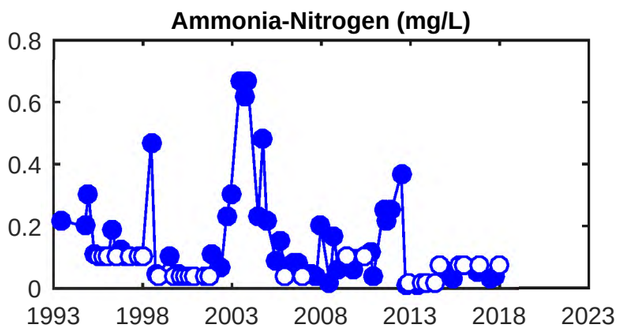


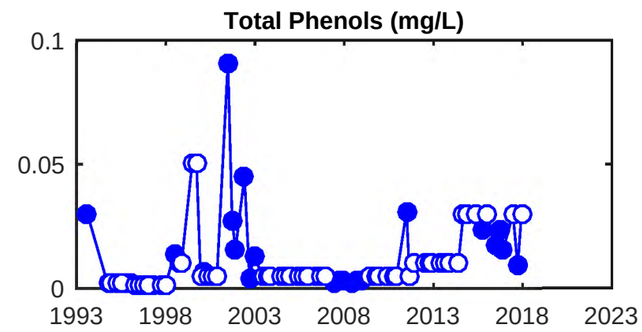








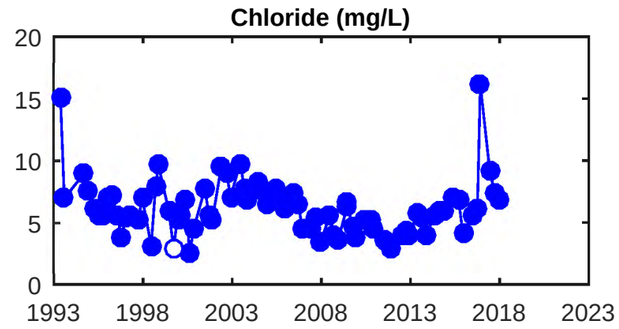


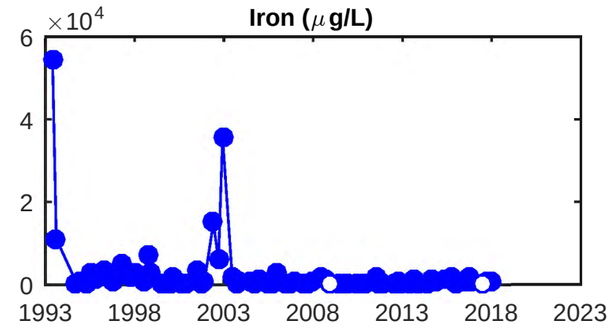


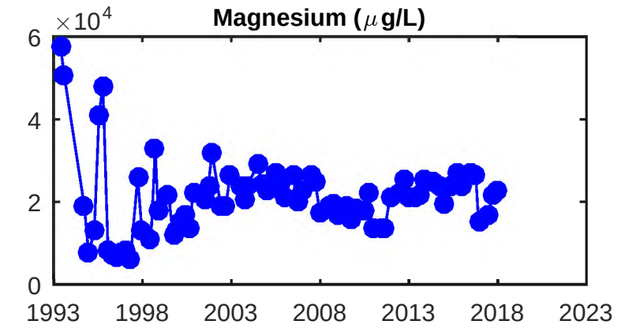
Notes:
1. Filled symbols represent detected results, open circles represent non-detected results.

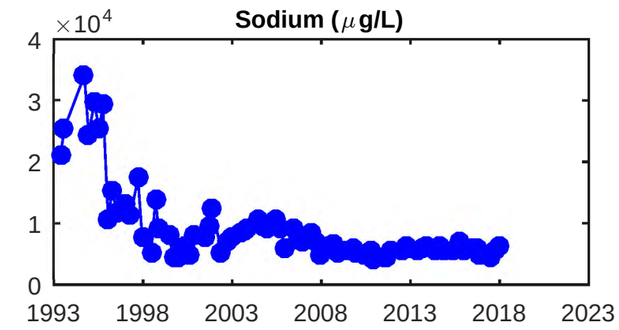
ARCADIS

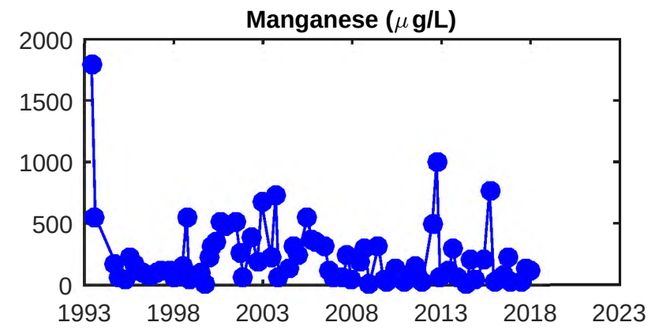
TOWN OF COLONIE LANDFILL - AREA 5
MPI-4S

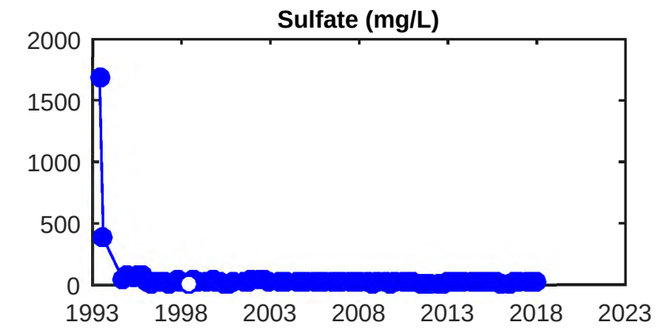


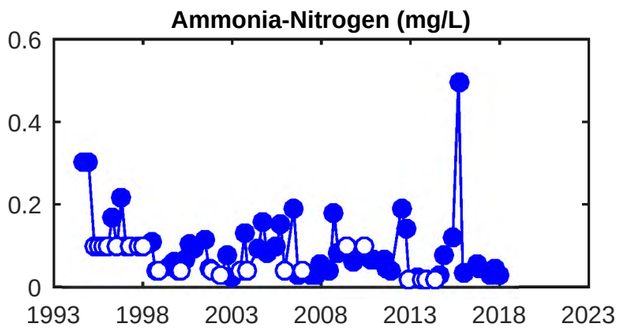


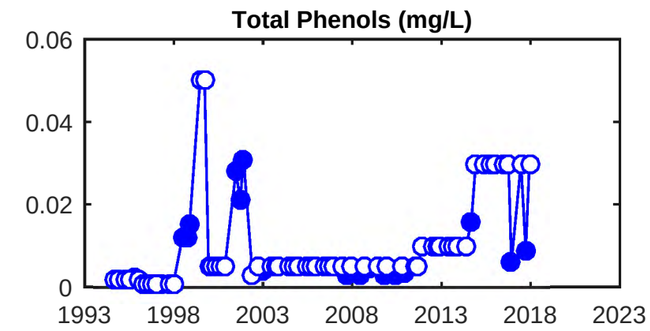








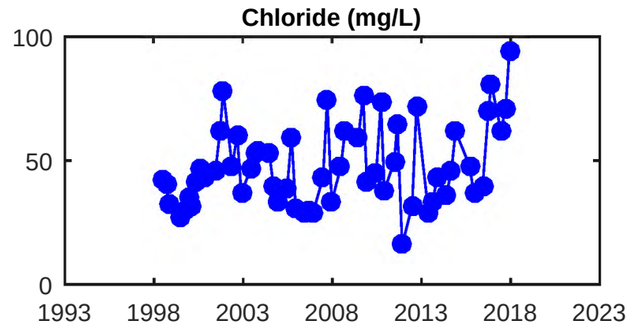


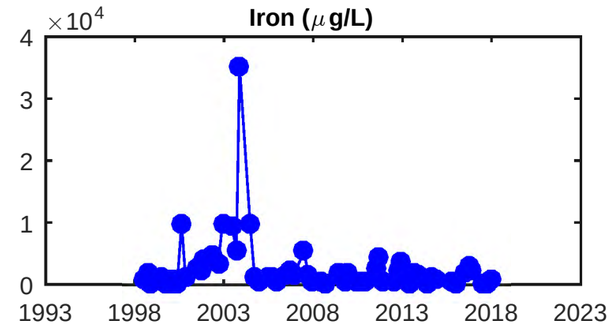


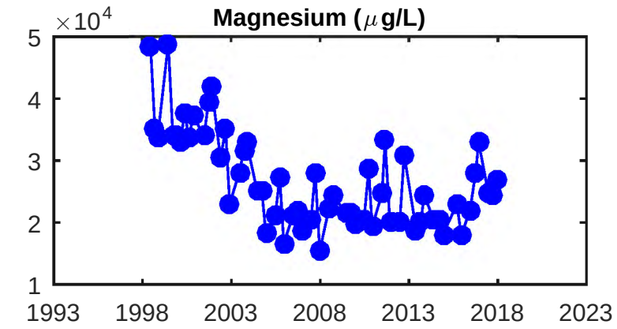
Notes:
1. Filled symbols represent detected results, open circles represent non-detected results.

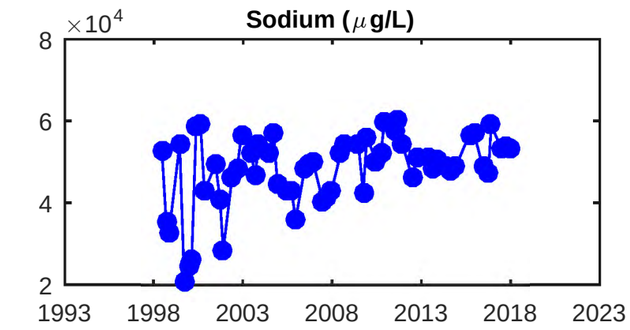
ARCADIS

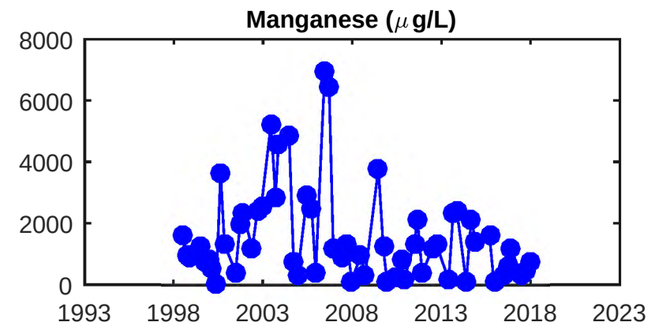
TOWN OF COLONIE LANDFILL - AREA 5
CTM-2

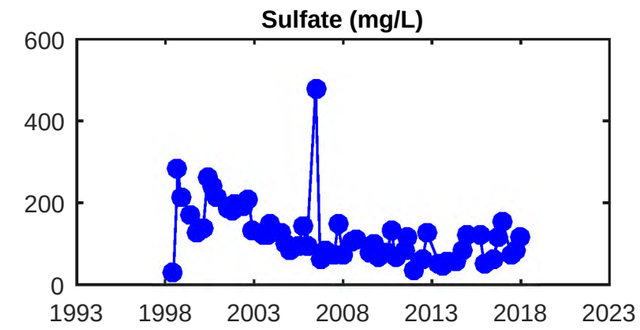


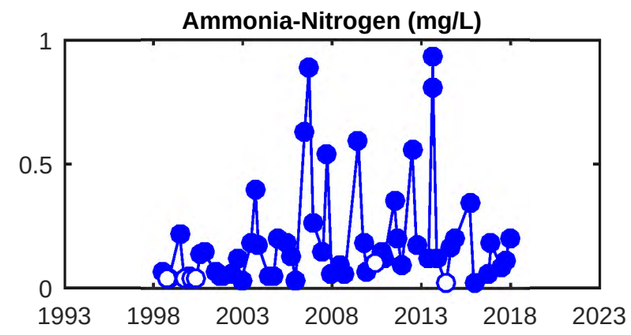


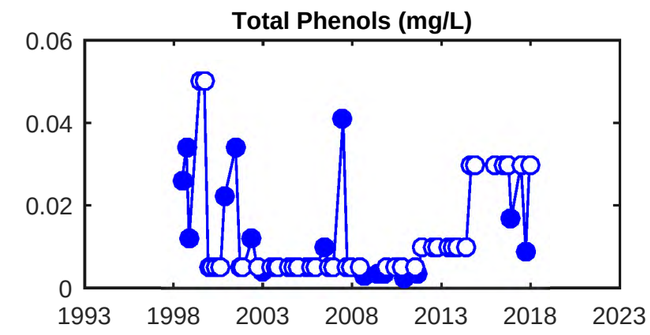












Notes:
1. Filled symbols represent detected results, open circles represent non-detected results.

APPENDIX B

Laboratory Analytical Reporting Forms

ANALYTICAL REPORT

Lab Number:	L1744593
Client:	Arcadis U.S, Inc. 855 Route 146, Suite 210 Clifton Park, NY 12065
ATTN:	Danielle Giroux
Phone:	(518) 250-7325
Project Name:	COLONIE LF AREA 5-ROUTINE
Project Number:	22396002.2017
Report Date:	12/15/17

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017

Lab Number: L1744593
Report Date: 12/15/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1744593-01	MPI-3	WATER	Not Specified	12/05/17 13:20	12/05/17
L1744593-02	MPI-2	WATER	Not Specified	12/05/17 14:00	12/05/17
L1744593-03	MPI-4S	WATER	Not Specified	12/05/17 15:15	12/05/17
L1744593-04	MPI-4D	WATER	Not Specified	12/06/17 11:00	12/06/17
L1744593-05	CTM-2	WATER	Not Specified	12/06/17 11:45	12/06/17
L1744593-06	MW-3	WATER	Not Specified	12/07/17 11:00	12/07/17
L1744593-07	MPI-1S	WATER	Not Specified	12/07/17 11:40	12/07/17
L1744593-08	MPI-1D	WATER	Not Specified	12/07/17 12:00	12/07/17
L1744593-09	DUPLICATE AREA 5	WATER	Not Specified	12/07/17 10:00	12/07/17
L1744593-10	S.L. D/E	WATER	Not Specified	12/07/17 12:30	12/07/17
L1744593-11	S.L.-A	WATER	Not Specified	12/07/17 13:15	12/07/17
L1744593-12	S.L.-B	WATER	Not Specified	12/07/17 13:30	12/07/17
L1744593-13	S.L.-C	WATER	Not Specified	12/07/17 14:00	12/07/17
L1744593-14	PPRS CELL D	WATER	Not Specified	12/08/17 11:00	12/08/17
L1744593-15	LAGOON	WATER	Not Specified	12/08/17 14:00	12/08/17

Project Name:	COLONIE LF AREA 5-ROUTINE	**Lab Number:**	L1744593
Project Number:	22396002.2017	**Report Date:**	12/15/17

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	COLONIE LF AREA 5-ROUTINE	**Lab Number:**	L1744593
Project Number:	22396002.2017	**Report Date:**	12/15/17

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Total Metals

L1744593-15: The sample has elevated detection limits due to the prep dilution required by the sample matrix.

The WG1070561-3 MS recoveries for calcium (0%), magnesium (176%) and hardness (44%), performed on L1744593-01, do not apply because the sample concentration is greater than four times the spike amount added.

The WG1071647-3 MS recoveries for calcium (0%), magnesium (223%) and sodium (60%), performed on L1744593-14, do not apply because the sample concentration is greater than four times the spike amount added.

BOD, 5 day

L1744593-11 was set at the correct dilution for BOD analysis according to prep screening; however, not enough depletion occurred. Therefore, the sample result is reported as "non-detect" at an elevated detection limit. Due to the expiration of the method required holding time, re-analysis could not be performed.

Nitrogen, Nitrate

L1744593-14 and -15: The sample was analyzed for Nitrite within the method required holding time. An aliquot of sample was then preserved and analyzed for Nitrate.

Anions by Ion Chromatography

L1744593-01 and -04 : The sample has an elevated detection limit for Bromide due to the dilution required by the sample matrix.

The WG1071965-3 MS recovery, performed on L1744593-03, is outside the acceptance criteria for bromide (81%); however, the associated LCS recovery is within criteria. No further action was taken.

The WG1071968-3 MS recoveries, performed on L1744593-02, are outside the acceptance criteria for sulfate

Project Name:	COLONIE LF AREA 5-ROUTINE	**Lab Number:**	L1744593
Project Number:	22396002.2017	**Report Date:**	12/15/17

Case Narrative (continued)

(61%), chloride (71%) and bromide (80%); however, the associated LCS recovery is within criteria. No further action was taken.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Lisa Westerlind

Title: Technical Director/Representative Date: 12/15/17

METALS

Project Name: COLONIE LF AREA 5-ROUTINE **Lab Number:** L1744593

Project Number: 22396002.2017 **Report Date:** 12/15/17

SAMPLE RESULTS

Lab ID: L1744593-01 Date Collected: 12/05/17 13:20

Client ID: MPI-3 Date Received: 12/05/17

Sample Location: Not Specified Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Cadmium, Total	ND		ug/l	0.2000	0.0599	1	12/08/17 11:48	12/12/17 14:22	EPA 3005A	1,6020A	AM
Calcium, Total	300000		ug/l	100.	39.4	1	12/08/17 11:48	12/12/17 14:22	EPA 3005A	1,6020A	AM
Iron, Total	410.		ug/l	50.0	19.1	1	12/08/17 11:48	12/12/17 14:22	EPA 3005A	1,6020A	AM
Lead, Total	0.7642	J	ug/l	1.000	0.3430	1	12/08/17 11:48	12/12/17 14:22	EPA 3005A	1,6020A	AM
Magnesium, Total	53700		ug/l	70.0	24.2	1	12/08/17 11:48	12/12/17 14:22	EPA 3005A	1,6020A	AM
Manganese, Total	323.8		ug/l	1.000	0.4400	1	12/08/17 11:48	12/12/17 14:22	EPA 3005A	1,6020A	AM
Potassium, Total	14800		ug/l	100.	30.9	1	12/08/17 11:48	12/12/17 14:22	EPA 3005A	1,6020A	AM
Sodium, Total	65700		ug/l	100.	29.3	1	12/08/17 11:48	12/12/17 14:22	EPA 3005A	1,6020A	AM
Total Hardness (by calculation) - Mansfield Lab											
Hardness	971100		ug/l	540.0	NA	1	12/08/17 11:48	12/12/17 14:22	EPA 3005A	1,6020A	AM

Project Name: COLONIE LF AREA 5-ROUTINE **Lab Number:** L1744593

Project Number: 22396002.2017 **Report Date:** 12/15/17

SAMPLE RESULTS

Lab ID: L1744593-02 Date Collected: 12/05/17 14:00

Client ID: MPI-2 Date Received: 12/05/17

Sample Location: Not Specified Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Cadmium, Total	ND		ug/l	0.2000	0.0599	1	12/08/17 11:48	12/12/17 15:09	EPA 3005A	1,6020A	AM
Calcium, Total	180000		ug/l	100.	39.4	1	12/08/17 11:48	12/12/17 15:09	EPA 3005A	1,6020A	AM
Iron, Total	3960		ug/l	50.0	19.1	1	12/08/17 11:48	12/12/17 15:09	EPA 3005A	1,6020A	AM
Lead, Total	ND		ug/l	1.000	0.3430	1	12/08/17 11:48	12/12/17 15:09	EPA 3005A	1,6020A	AM
Magnesium, Total	99700		ug/l	70.0	24.2	1	12/08/17 11:48	12/12/17 15:09	EPA 3005A	1,6020A	AM
Manganese, Total	84.33		ug/l	1.000	0.4400	1	12/08/17 11:48	12/12/17 15:09	EPA 3005A	1,6020A	AM
Potassium, Total	2700		ug/l	100.	30.9	1	12/08/17 11:48	12/12/17 15:09	EPA 3005A	1,6020A	AM
Sodium, Total	76300		ug/l	100.	29.3	1	12/08/17 11:48	12/12/17 15:09	EPA 3005A	1,6020A	AM
Total Hardness (by calculation) - Mansfield Lab											
Hardness	861600		ug/l	540.0	NA	1	12/08/17 11:48	12/12/17 15:09	EPA 3005A	1,6020A	AM

Project Name:	COLONIE LF AREA 5-ROUTINE	**Lab Number:**	L1744593
Project Number:	22396002.2017	**Report Date:**	12/15/17

SAMPLE RESULTS

Lab ID:	L1744593-03	Date Collected:	12/05/17 15:15
Client ID:	MPI-4S	Date Received:	12/05/17
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Cadmium, Total	ND		ug/l	0.2000	0.0599	1	12/08/17 11:48	12/12/17 15:13	EPA 3005A	1,6020A	AM
Calcium, Total	93100		ug/l	100.	39.4	1	12/08/17 11:48	12/12/17 15:13	EPA 3005A	1,6020A	AM
Iron, Total	906.		ug/l	50.0	19.1	1	12/08/17 11:48	12/12/17 15:13	EPA 3005A	1,6020A	AM
Lead, Total	0.7835	J	ug/l	1.000	0.3430	1	12/08/17 11:48	12/12/17 15:13	EPA 3005A	1,6020A	AM
Magnesium, Total	23000		ug/l	70.0	24.2	1	12/08/17 11:48	12/12/17 15:13	EPA 3005A	1,6020A	AM
Manganese, Total	116.3		ug/l	1.000	0.4400	1	12/08/17 11:48	12/12/17 15:13	EPA 3005A	1,6020A	AM
Potassium, Total	2860		ug/l	100.	30.9	1	12/08/17 11:48	12/12/17 15:13	EPA 3005A	1,6020A	AM
Sodium, Total	6420		ug/l	100.	29.3	1	12/08/17 11:48	12/12/17 15:13	EPA 3005A	1,6020A	AM
Total Hardness (by calculation) - Mansfield Lab											
Hardness	327000		ug/l	540.0	NA	1	12/08/17 11:48	12/12/17 15:13	EPA 3005A	1,6020A	AM

Project Name: COLONIE LF AREA 5-ROUTINE **Lab Number:** L1744593

Project Number: 22396002.2017 **Report Date:** 12/15/17

SAMPLE RESULTS

Lab ID: L1744593-04 Date Collected: 12/06/17 11:00

Client ID: MPI-4D Date Received: 12/06/17

Sample Location: Not Specified Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Cadmium, Total	ND		ug/l	0.2000	0.0599	1	12/08/17 11:48	12/12/17 15:17	EPA 3005A	1,6020A	AM
Calcium, Total	50700		ug/l	100.	39.4	1	12/08/17 11:48	12/12/17 15:17	EPA 3005A	1,6020A	AM
Iron, Total	ND		ug/l	50.0	19.1	1	12/08/17 11:48	12/12/17 15:17	EPA 3005A	1,6020A	AM
Lead, Total	ND		ug/l	1.000	0.3430	1	12/08/17 11:48	12/12/17 15:17	EPA 3005A	1,6020A	AM
Magnesium, Total	11000		ug/l	70.0	24.2	1	12/08/17 11:48	12/12/17 15:17	EPA 3005A	1,6020A	AM
Manganese, Total	2.047		ug/l	1.000	0.4400	1	12/08/17 11:48	12/12/17 15:17	EPA 3005A	1,6020A	AM
Potassium, Total	2000		ug/l	100.	30.9	1	12/08/17 11:48	12/12/17 15:17	EPA 3005A	1,6020A	AM
Sodium, Total	65000		ug/l	100.	29.3	1	12/08/17 11:48	12/12/17 15:17	EPA 3005A	1,6020A	AM
Total Hardness (by calculation) - Mansfield Lab											
Hardness	171900		ug/l	540.0	NA	1	12/08/17 11:48	12/12/17 15:17	EPA 3005A	1,6020A	AM

Project Name: COLONIE LF AREA 5-ROUTINE **Lab Number:** L1744593

Project Number: 22396002.2017 **Report Date:** 12/15/17

SAMPLE RESULTS

Lab ID: L1744593-05 Date Collected: 12/06/17 11:45

Client ID: CTM-2 Date Received: 12/06/17

Sample Location: Not Specified Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Cadmium, Total	0.0984	J	ug/l	0.2000	0.0599	1	12/08/17 11:48	12/12/17 15:21	EPA 3005A	1,6020A	AM
Calcium, Total	134000		ug/l	100.	39.4	1	12/08/17 11:48	12/12/17 15:21	EPA 3005A	1,6020A	AM
Iron, Total	880.		ug/l	50.0	19.1	1	12/08/17 11:48	12/12/17 15:21	EPA 3005A	1,6020A	AM
Lead, Total	1.806		ug/l	1.000	0.3430	1	12/08/17 11:48	12/12/17 15:21	EPA 3005A	1,6020A	AM
Magnesium, Total	26900		ug/l	70.0	24.2	1	12/08/17 11:48	12/12/17 15:21	EPA 3005A	1,6020A	AM
Manganese, Total	739.4		ug/l	1.000	0.4400	1	12/08/17 11:48	12/12/17 15:21	EPA 3005A	1,6020A	AM
Potassium, Total	2390		ug/l	100.	30.9	1	12/08/17 11:48	12/12/17 15:21	EPA 3005A	1,6020A	AM
Sodium, Total	53000		ug/l	100.	29.3	1	12/08/17 11:48	12/12/17 15:21	EPA 3005A	1,6020A	AM
Total Hardness (by calculation) - Mansfield Lab											
Hardness	445700		ug/l	540.0	NA	1	12/08/17 11:48	12/12/17 15:21	EPA 3005A	1,6020A	AM

Project Name:	COLONIE LF AREA 5-ROUTINE	**Lab Number:**	L1744593
Project Number:	22396002.2017	**Report Date:**	12/15/17

SAMPLE RESULTS

Lab ID:	L1744593-06	Date Collected:	12/07/17 11:00
Client ID:	MW-3	Date Received:	12/07/17
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Cadmium, Total	0.2821		ug/l	0.2000	0.0599	1	12/11/17 13:30	12/12/17 11:18	EPA 3005A	1,6020A	AM
Calcium, Total	256000		ug/l	100.	39.4	1	12/11/17 13:30	12/12/17 11:18	EPA 3005A	1,6020A	AM
Iron, Total	438.		ug/l	50.0	19.1	1	12/11/17 13:30	12/12/17 11:18	EPA 3005A	1,6020A	AM
Lead, Total	0.5915	J	ug/l	1.000	0.3430	1	12/11/17 13:30	12/12/17 11:18	EPA 3005A	1,6020A	AM
Magnesium, Total	31700		ug/l	70.0	24.2	1	12/11/17 13:30	12/12/17 11:18	EPA 3005A	1,6020A	AM
Manganese, Total	4343.		ug/l	1.000	0.4400	1	12/11/17 13:30	12/12/17 11:18	EPA 3005A	1,6020A	AM
Potassium, Total	1390		ug/l	100.	30.9	1	12/11/17 13:30	12/12/17 11:18	EPA 3005A	1,6020A	AM
Sodium, Total	58500		ug/l	100.	29.3	1	12/11/17 13:30	12/12/17 11:18	EPA 3005A	1,6020A	AM
Total Hardness (by calculation) - Mansfield Lab											
Hardness	768900		ug/l	540.0	NA	1	12/11/17 13:30	12/12/17 11:18	EPA 3005A	1,6020A	AM

Project Name:	COLONIE LF AREA 5-ROUTINE	**Lab Number:**	L1744593
Project Number:	22396002.2017	**Report Date:**	12/15/17

SAMPLE RESULTS

Lab ID:	L1744593-07	Date Collected:	12/07/17 11:40
Client ID:	MPI-1S	Date Received:	12/07/17
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Cadmium, Total	ND		ug/l	0.2000	0.0599	1	12/11/17 13:30	12/12/17 11:22	EPA 3005A	1,6020A	AM
Calcium, Total	226000		ug/l	100.	39.4	1	12/11/17 13:30	12/12/17 11:22	EPA 3005A	1,6020A	AM
Iron, Total	2190		ug/l	50.0	19.1	1	12/11/17 13:30	12/12/17 11:22	EPA 3005A	1,6020A	AM
Lead, Total	1.047		ug/l	1.000	0.3430	1	12/11/17 13:30	12/12/17 11:22	EPA 3005A	1,6020A	AM
Magnesium, Total	52800		ug/l	70.0	24.2	1	12/11/17 13:30	12/12/17 11:22	EPA 3005A	1,6020A	AM
Manganese, Total	514.7		ug/l	1.000	0.4400	1	12/11/17 13:30	12/12/17 11:22	EPA 3005A	1,6020A	AM
Potassium, Total	1910		ug/l	100.	30.9	1	12/11/17 13:30	12/12/17 11:22	EPA 3005A	1,6020A	AM
Sodium, Total	119000		ug/l	100.	29.3	1	12/11/17 13:30	12/12/17 11:22	EPA 3005A	1,6020A	AM
Total Hardness (by calculation) - Mansfield Lab											
Hardness	781400		ug/l	540.0	NA	1	12/11/17 13:30	12/12/17 11:22	EPA 3005A	1,6020A	AM

Project Name: COLONIE LF AREA 5-ROUTINE **Lab Number:** L1744593

Project Number: 22396002.2017 **Report Date:** 12/15/17

SAMPLE RESULTS

Lab ID: L1744593-08 Date Collected: 12/07/17 12:00

Client ID: MPI-1D Date Received: 12/07/17

Sample Location: Not Specified Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Cadmium, Total	ND		ug/l	0.2000	0.0599	1	12/11/17 13:30	12/12/17 11:27	EPA 3005A	1,6020A	AM
Calcium, Total	176000		ug/l	100.	39.4	1	12/11/17 13:30	12/12/17 11:27	EPA 3005A	1,6020A	AM
Iron, Total	3710		ug/l	50.0	19.1	1	12/11/17 13:30	12/12/17 11:27	EPA 3005A	1,6020A	AM
Lead, Total	ND		ug/l	1.000	0.3430	1	12/11/17 13:30	12/12/17 11:27	EPA 3005A	1,6020A	AM
Magnesium, Total	22900		ug/l	70.0	24.2	1	12/11/17 13:30	12/12/17 11:27	EPA 3005A	1,6020A	AM
Manganese, Total	133.1		ug/l	1.000	0.4400	1	12/11/17 13:30	12/12/17 11:27	EPA 3005A	1,6020A	AM
Potassium, Total	2540		ug/l	100.	30.9	1	12/11/17 13:30	12/12/17 11:27	EPA 3005A	1,6020A	AM
Sodium, Total	40600		ug/l	100.	29.3	1	12/11/17 13:30	12/12/17 11:27	EPA 3005A	1,6020A	AM
Total Hardness (by calculation) - Mansfield Lab											
Hardness	532700		ug/l	540.0	NA	1	12/11/17 13:30	12/12/17 11:27	EPA 3005A	1,6020A	AM

Project Name: COLONIE LF AREA 5-ROUTINE **Lab Number:** L1744593

Project Number: 22396002.2017 **Report Date:** 12/15/17

SAMPLE RESULTS

Lab ID: L1744593-09 Date Collected: 12/07/17 10:00

Client ID: DUPLICATE AREA 5 Date Received: 12/07/17

Sample Location: Not Specified Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Cadmium, Total	0.2670		ug/l	0.2000	0.0599	1	12/11/17 13:30	12/12/17 11:47	EPA 3005A	1,6020A	AM
Calcium, Total	252000		ug/l	100.	39.4	1	12/11/17 13:30	12/12/17 11:47	EPA 3005A	1,6020A	AM
Iron, Total	394.		ug/l	50.0	19.1	1	12/11/17 13:30	12/12/17 11:47	EPA 3005A	1,6020A	AM
Lead, Total	0.5768	J	ug/l	1.000	0.3430	1	12/11/17 13:30	12/12/17 11:47	EPA 3005A	1,6020A	AM
Magnesium, Total	31200		ug/l	70.0	24.2	1	12/11/17 13:30	12/12/17 11:47	EPA 3005A	1,6020A	AM
Manganese, Total	4273.		ug/l	1.000	0.4400	1	12/11/17 13:30	12/12/17 11:47	EPA 3005A	1,6020A	AM
Potassium, Total	1380		ug/l	100.	30.9	1	12/11/17 13:30	12/12/17 11:47	EPA 3005A	1,6020A	AM
Sodium, Total	58400		ug/l	100.	29.3	1	12/11/17 13:30	12/12/17 11:47	EPA 3005A	1,6020A	AM
Total Hardness (by calculation) - Mansfield Lab											
Hardness	758500		ug/l	540.0	NA	1	12/11/17 13:30	12/12/17 11:47	EPA 3005A	1,6020A	AM

Project Name: COLONIE LF AREA 5-ROUTINE **Lab Number:** L1744593

Project Number: 22396002.2017 **Report Date:** 12/15/17

SAMPLE RESULTS

Lab ID: L1744593-10 Date Collected: 12/07/17 12:30

Client ID: S.L. D/E Date Received: 12/07/17

Sample Location: Not Specified Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Cadmium, Total	ND		ug/l	0.2000	0.0599	1	12/11/17 13:30	12/12/17 11:51	EPA 3005A	1,6020A	AM
Calcium, Total	225000		ug/l	100.	39.4	1	12/11/17 13:30	12/12/17 11:51	EPA 3005A	1,6020A	AM
Iron, Total	1620		ug/l	50.0	19.1	1	12/11/17 13:30	12/12/17 11:51	EPA 3005A	1,6020A	AM
Lead, Total	ND		ug/l	1.000	0.3430	1	12/11/17 13:30	12/12/17 11:51	EPA 3005A	1,6020A	AM
Magnesium, Total	67600		ug/l	70.0	24.2	1	12/11/17 13:30	12/12/17 11:51	EPA 3005A	1,6020A	AM
Manganese, Total	2595.		ug/l	1.000	0.4400	1	12/11/17 13:30	12/12/17 11:51	EPA 3005A	1,6020A	AM
Potassium, Total	4780		ug/l	100.	30.9	1	12/11/17 13:30	12/12/17 11:51	EPA 3005A	1,6020A	AM
Sodium, Total	46800		ug/l	100.	29.3	1	12/11/17 13:30	12/12/17 11:51	EPA 3005A	1,6020A	AM
Total Hardness (by calculation) - Mansfield Lab											
Hardness	840800		ug/l	540.0	NA	1	12/11/17 13:30	12/12/17 11:51	EPA 3005A	1,6020A	AM

Project Name: COLONIE LF AREA 5-ROUTINE **Lab Number:** L1744593

Project Number: 22396002.2017 **Report Date:** 12/15/17

SAMPLE RESULTS

Lab ID: L1744593-11 Date Collected: 12/07/17 13:15

Client ID: S.L.-A Date Received: 12/07/17

Sample Location: Not Specified Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Cadmium, Total	ND		ug/l	0.2000	0.0599	1	12/11/17 13:30	12/12/17 11:55	EPA 3005A	1,6020A	AM
Calcium, Total	204000		ug/l	100.	39.4	1	12/11/17 13:30	12/12/17 11:55	EPA 3005A	1,6020A	AM
Iron, Total	9120		ug/l	50.0	19.1	1	12/11/17 13:30	12/12/17 11:55	EPA 3005A	1,6020A	AM
Lead, Total	ND		ug/l	1.000	0.3430	1	12/11/17 13:30	12/12/17 11:55	EPA 3005A	1,6020A	AM
Magnesium, Total	66600		ug/l	70.0	24.2	1	12/11/17 13:30	12/12/17 11:55	EPA 3005A	1,6020A	AM
Manganese, Total	279.7		ug/l	1.000	0.4400	1	12/11/17 13:30	12/12/17 11:55	EPA 3005A	1,6020A	AM
Potassium, Total	2990		ug/l	100.	30.9	1	12/11/17 13:30	12/12/17 11:55	EPA 3005A	1,6020A	AM
Sodium, Total	290000		ug/l	100.	29.3	1	12/11/17 13:30	12/12/17 11:55	EPA 3005A	1,6020A	AM
Total Hardness (by calculation) - Mansfield Lab											
Hardness	782500		ug/l	540.0	NA	1	12/11/17 13:30	12/12/17 11:55	EPA 3005A	1,6020A	AM

Project Name: COLONIE LF AREA 5-ROUTINE **Lab Number:** L1744593

Project Number: 22396002.2017 **Report Date:** 12/15/17

SAMPLE RESULTS

Lab ID: L1744593-12 Date Collected: 12/07/17 13:30

Client ID: S.L.-B Date Received: 12/07/17

Sample Location: Not Specified Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Cadmium, Total	ND		ug/l	0.2000	0.0599	1	12/11/17 13:30	12/12/17 11:59	EPA 3005A	1,6020A	AM
Calcium, Total	214000		ug/l	100.	39.4	1	12/11/17 13:30	12/12/17 11:59	EPA 3005A	1,6020A	AM
Iron, Total	5130		ug/l	50.0	19.1	1	12/11/17 13:30	12/12/17 11:59	EPA 3005A	1,6020A	AM
Lead, Total	ND		ug/l	1.000	0.3430	1	12/11/17 13:30	12/12/17 11:59	EPA 3005A	1,6020A	AM
Magnesium, Total	74300		ug/l	70.0	24.2	1	12/11/17 13:30	12/12/17 11:59	EPA 3005A	1,6020A	AM
Manganese, Total	499.3		ug/l	1.000	0.4400	1	12/11/17 13:30	12/12/17 11:59	EPA 3005A	1,6020A	AM
Potassium, Total	20700		ug/l	100.	30.9	1	12/11/17 13:30	12/12/17 11:59	EPA 3005A	1,6020A	AM
Sodium, Total	472000		ug/l	100.	29.3	1	12/11/17 13:30	12/12/17 11:59	EPA 3005A	1,6020A	AM
Total Hardness (by calculation) - Mansfield Lab											
Hardness	840300		ug/l	540.0	NA	1	12/11/17 13:30	12/12/17 11:59	EPA 3005A	1,6020A	AM

Project Name: COLONIE LF AREA 5-ROUTINE **Lab Number:** L1744593

Project Number: 22396002.2017 **Report Date:** 12/15/17

SAMPLE RESULTS

Lab ID: L1744593-13 Date Collected: 12/07/17 14:00

Client ID: S.L.-C Date Received: 12/07/17

Sample Location: Not Specified Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Cadmium, Total	ND		ug/l	0.2000	0.0599	1	12/11/17 13:30	12/12/17 12:03	EPA 3005A	1,6020A	AM
Calcium, Total	206000		ug/l	100.	39.4	1	12/11/17 13:30	12/12/17 12:03	EPA 3005A	1,6020A	AM
Iron, Total	14900		ug/l	50.0	19.1	1	12/11/17 13:30	12/12/17 12:03	EPA 3005A	1,6020A	AM
Lead, Total	ND		ug/l	1.000	0.3430	1	12/11/17 13:30	12/12/17 12:03	EPA 3005A	1,6020A	AM
Magnesium, Total	52300		ug/l	70.0	24.2	1	12/11/17 13:30	12/12/17 12:03	EPA 3005A	1,6020A	AM
Manganese, Total	507.8		ug/l	1.000	0.4400	1	12/11/17 13:30	12/12/17 12:03	EPA 3005A	1,6020A	AM
Potassium, Total	3160		ug/l	100.	30.9	1	12/11/17 13:30	12/12/17 12:03	EPA 3005A	1,6020A	AM
Sodium, Total	72100		ug/l	100.	29.3	1	12/11/17 13:30	12/12/17 12:03	EPA 3005A	1,6020A	AM
Total Hardness (by calculation) - Mansfield Lab											
Hardness	729300		ug/l	540.0	NA	1	12/11/17 13:30	12/12/17 12:03	EPA 3005A	1,6020A	AM

Project Name: COLONIE LF AREA 5-ROUTINE **Lab Number:** L1744593

Project Number: 22396002.2017 **Report Date:** 12/15/17

SAMPLE RESULTS

Lab ID: L1744593-14 Date Collected: 12/08/17 11:00

Client ID: PPRS CELL D Date Received: 12/08/17

Sample Location: Not Specified Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Cadmium, Total	ND		ug/l	0.2000	0.0599	1	12/12/17 10:50	12/13/17 10:21	EPA 3005A	1,6020A	AM
Calcium, Total	265000		ug/l	100.	39.4	1	12/12/17 10:50	12/13/17 10:21	EPA 3005A	1,6020A	AM
Iron, Total	2960		ug/l	50.0	19.1	1	12/12/17 10:50	12/13/17 10:21	EPA 3005A	1,6020A	AM
Lead, Total	ND		ug/l	1.000	0.3430	1	12/12/17 10:50	12/13/17 10:21	EPA 3005A	1,6020A	AM
Magnesium, Total	94700		ug/l	70.0	24.2	1	12/12/17 10:50	12/13/17 10:21	EPA 3005A	1,6020A	AM
Manganese, Total	1900.		ug/l	1.000	0.4400	1	12/12/17 10:50	12/13/17 10:21	EPA 3005A	1,6020A	AM
Potassium, Total	12500		ug/l	100.	30.9	1	12/12/17 10:50	12/13/17 10:21	EPA 3005A	1,6020A	AM
Sodium, Total	156000		ug/l	100.	29.3	1	12/12/17 10:50	12/13/17 10:21	EPA 3005A	1,6020A	AM
Total Hardness (by calculation) - Mansfield Lab											
Hardness	1051000		ug/l	540.0	NA	1	12/12/17 10:50	12/13/17 10:21	EPA 3005A	1,6020A	AM

Project Name: COLONIE LF AREA 5-ROUTINE **Lab Number:** L1744593

Project Number: 22396002.2017 **Report Date:** 12/15/17

SAMPLE RESULTS

Lab ID: L1744593-15 Date Collected: 12/08/17 14:00

Client ID: LAGOON Date Received: 12/08/17

Sample Location: Not Specified Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Cadmium, Total	0.3190	J	ug/l	1.000	0.2995	1	12/12/17 10:50	12/13/17 10:25	EPA 3005A	1,6020A	AM
Calcium, Total	594000		ug/l	500.	197.	1	12/12/17 10:50	12/13/17 10:25	EPA 3005A	1,6020A	AM
Iron, Total	11800		ug/l	250.	95.5	1	12/12/17 10:50	12/13/17 10:25	EPA 3005A	1,6020A	AM
Lead, Total	3.058	J	ug/l	5.000	1.715	1	12/12/17 10:50	12/13/17 10:25	EPA 3005A	1,6020A	AM
Magnesium, Total	97300		ug/l	350.	121.	1	12/12/17 10:50	12/13/17 10:25	EPA 3005A	1,6020A	AM
Manganese, Total	1033.		ug/l	5.000	2.200	1	12/12/17 10:50	12/13/17 10:25	EPA 3005A	1,6020A	AM
Potassium, Total	513000		ug/l	500.	154.	1	12/12/17 10:50	12/13/17 10:25	EPA 3005A	1,6020A	AM
Sodium, Total	2080000		ug/l	500.	146.	1	12/12/17 10:50	12/13/17 10:25	EPA 3005A	1,6020A	AM
Total Hardness (by calculation) - Mansfield Lab											
Hardness	1885000		ug/l	2700.	NA	1	12/12/17 10:50	12/13/17 10:25	EPA 3005A	1,6020A	AM

Project Name: COLONIE LF AREA 5-ROUTINE **Lab Number:** L1744593

Project Number: 22396002.2017 **Report Date:** 12/15/17

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-05 Batch: WG1070561-1										
Cadmium, Total	ND		ug/l	0.2000	0.0599	1	12/08/17 11:48	12/12/17 14:10	1,6020A	AM
Calcium, Total	ND		ug/l	100	39.4	1	12/08/17 11:48	12/12/17 14:10	1,6020A	AM
Iron, Total	ND		ug/l	50.0	19.1	1	12/08/17 11:48	12/12/17 14:10	1,6020A	AM
Lead, Total	ND		ug/l	1.000	0.3430	1	12/08/17 11:48	12/12/17 14:10	1,6020A	AM
Magnesium, Total	ND		ug/l	70.0	24.2	1	12/08/17 11:48	12/12/17 14:10	1,6020A	AM
Manganese, Total	ND		ug/l	1.000	0.4400	1	12/08/17 11:48	12/12/17 14:10	1,6020A	AM
Potassium, Total	ND		ug/l	100	30.9	1	12/08/17 11:48	12/12/17 14:10	1,6020A	AM
Sodium, Total	ND		ug/l	100	29.3	1	12/08/17 11:48	12/12/17 14:10	1,6020A	AM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Hardness (by calculation) - Mansfield Lab for sample(s): 01-05 Batch: WG1070561-1										
Hardness	ND		ug/l	540.0	NA	1	12/08/17 11:48	12/12/17 14:10	1,6020A	AM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 06-13 Batch: WG1071292-1										
Cadmium, Total	ND		ug/l	0.2000	0.0599	1	12/11/17 13:30	12/12/17 09:59	1,6020A	AM
Calcium, Total	ND		ug/l	100	39.4	1	12/11/17 13:30	12/12/17 09:59	1,6020A	AM
Iron, Total	ND		ug/l	50.0	19.1	1	12/11/17 13:30	12/12/17 09:59	1,6020A	AM
Lead, Total	ND		ug/l	1.000	0.3430	1	12/11/17 13:30	12/12/17 09:59	1,6020A	AM
Magnesium, Total	ND		ug/l	70.0	24.2	1	12/11/17 13:30	12/12/17 09:59	1,6020A	AM
Manganese, Total	ND		ug/l	1.000	0.4400	1	12/11/17 13:30	12/12/17 09:59	1,6020A	AM
Potassium, Total	ND		ug/l	100	30.9	1	12/11/17 13:30	12/12/17 09:59	1,6020A	AM
Sodium, Total	ND		ug/l	100	29.3	1	12/11/17 13:30	12/12/17 09:59	1,6020A	AM

Project Name: COLONIE LF AREA 5-ROUTINE **Lab Number:** L1744593

Project Number: 22396002.2017 **Report Date:** 12/15/17

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Hardness (by calculation) - Mansfield Lab for sample(s): 06-13 Batch: WG1071292-1										
Hardness	ND		ug/l	540.0	NA	1	12/11/17 13:30	12/12/17 09:59	1,6020A	AM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 14-15 Batch: WG1071647-1										
Cadmium, Total	ND		ug/l	0.2000	0.0599	1	12/12/17 10:50	12/13/17 09:56	1,6020A	AM
Calcium, Total	ND		ug/l	100	39.4	1	12/12/17 10:50	12/13/17 09:56	1,6020A	AM
Iron, Total	ND		ug/l	50.0	19.1	1	12/12/17 10:50	12/13/17 09:56	1,6020A	AM
Lead, Total	ND		ug/l	1.000	0.3430	1	12/12/17 10:50	12/13/17 09:56	1,6020A	AM
Magnesium, Total	ND		ug/l	70.0	24.2	1	12/12/17 10:50	12/13/17 09:56	1,6020A	AM
Manganese, Total	1.180	J	ug/l	2.000	0.4400	1	12/12/17 10:50	12/13/17 09:56	1,6020A	AM
Potassium, Total	ND		ug/l	100	30.9	1	12/12/17 10:50	12/13/17 09:56	1,6020A	AM
Sodium, Total	ND		ug/l	100	29.3	1	12/12/17 10:50	12/13/17 09:56	1,6020A	AM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Hardness (by calculation) - Mansfield Lab for sample(s): 14-15 Batch: WG1071647-1										
Hardness	ND		ug/l	540.0	NA	1	12/12/17 10:50	12/13/17 09:56	1,6020A	AM

Project Name: COLONIE LF AREA 5-ROUTINE **Lab Number:** L1744593

Project Number: 22396002.2017 **Report Date:** 12/15/17

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis
Batch Quality Control

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017
Lab Number: L1744593
Report Date: 12/15/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1070561-2								
Cadmium, Total	100		-		80-120	-		
Calcium, Total	108		-		80-120	-		
Iron, Total	104		-		80-120	-		
Lead, Total	109		-		80-120	-		
Magnesium, Total	112		-		80-120	-		
Manganese, Total	105		-		80-120	-		
Potassium, Total	112		-		80-120	-		
Sodium, Total	111		-		80-120	-		
Total Hardness (by calculation) - Mansfield Lab Associated sample(s): 01-05 Batch: WG1070561-2								
Hardness	110		-		80-120	-		
Total Metals - Mansfield Lab Associated sample(s): 06-13 Batch: WG1071292-2								
Cadmium, Total	103		-		80-120	-		
Calcium, Total	114		-		80-120	-		
Iron, Total	109		-		80-120	-		
Lead, Total	111		-		80-120	-		
Magnesium, Total	111		-		80-120	-		
Manganese, Total	107		-		80-120	-		
Potassium, Total	109		-		80-120	-		
Sodium, Total	107		-		80-120	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017

Lab Number: L1744593
Report Date: 12/15/17

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Hardness (by calculation) - Mansfield Lab Associated sample(s): 06-13 Batch: WG1071292-2					
Hardness	112	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 14-15 Batch: WG1071647-2					
Cadmium, Total	105	-	80-120	-	
Calcium, Total	113	-	80-120	-	
Iron, Total	108	-	80-120	-	
Lead, Total	113	-	80-120	-	
Magnesium, Total	108	-	80-120	-	
Manganese, Total	109	-	80-120	-	
Potassium, Total	109	-	80-120	-	
Sodium, Total	110	-	80-120	-	
Total Hardness (by calculation) - Mansfield Lab Associated sample(s): 14-15 Batch: WG1071647-2					
Hardness	110	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017

Lab Number: L1744593
Report Date: 12/15/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1070561-3 QC Sample: L1744593-01 Client ID: MPI-3												
Cadmium, Total	ND	51	50.62	99		-	-		75-125	-		20
Calcium, Total	300000	10000	283000	**0**	Q	-	-		75-125	-		20
Iron, Total	410.	1000	1420	101		-	-		75-125	-		20
Lead, Total	0.7642J	510	568.7	112		-	-		75-125	-		20
Magnesium, Total	53700	10000	71300	**176**	Q	-	-		75-125	-		20
Manganese, Total	323.8	500	825.0	100		-	-		75-125	-		20
Potassium, Total	14800	10000	24400	96		-	-		75-125	-		20
Sodium, Total	65700	10000	75700	100		-	-		75-125	-		20
Total Hardness (by calculation) - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1070561-3 QC Sample: L1744593-01 Client ID: MPI-3												
Hardness	971100	66200	1000000	**44**	Q	-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 06-13 QC Batch ID: WG1071292-3 QC Sample: L1745300-01 Client ID: MS Sample												
Cadmium, Total	0.2737	51	52.04	102		-	-		75-125	-		20
Calcium, Total	64200	10000	71600	**74**	Q	-	-		75-125	-		20
Iron, Total	625.	1000	1690	106		-	-		75-125	-		20
Lead, Total	6.061	510	576.9	112		-	-		75-125	-		20
Magnesium, Total	13800	10000	24600	108		-	-		75-125	-		20
Manganese, Total	25.23	500	561.7	107		-	-		75-125	-		20
Potassium, Total	5560	10000	16100	105		-	-		75-125	-		20
Sodium, Total	137000	10000	139000	**20**	Q	-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017

Lab Number: L1744593
Report Date: 12/15/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Hardness (by calculation) - Mansfield Lab Associated sample(s): 06-13 QC Batch ID: WG1071292-3 QC Sample: L1745300-01 Client ID: MS Sample										
Hardness	217300	66200	280200	95		-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 14-15 QC Batch ID: WG1071647-3 QC Sample: L1744593-14 Client ID: PPRS CELL D										
Cadmium, Total	ND	51	53.08	104		-	-	75-125	-	20
Calcium, Total	265000	10000	258000	**0**	Q	-	-	75-125	-	20
Iron, Total	2960	1000	3840	88		-	-	75-125	-	20
Lead, Total	ND	510	581.2	114		-	-	75-125	-	20
Magnesium, Total	94700	10000	117000	**223**	Q	-	-	75-125	-	20
Manganese, Total	1900.	500	2356	91		-	-	75-125	-	20
Potassium, Total	12500	10000	22700	102		-	-	75-125	-	20
Sodium, Total	156000	10000	162000	**60**	Q	-	-	75-125	-	20
Total Hardness (by calculation) - Mansfield Lab Associated sample(s): 14-15 QC Batch ID: WG1071647-3 QC Sample: L1744593-14 Client ID: PPRS CELL D										
Hardness	1051000	66200	1127000	115		-	-	75-125	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017

Lab Number: L1744593
Report Date: 12/15/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1070561-4 QC Sample: L1744593-01 Client ID: MPI-3						
Cadmium, Total	ND	ND	ug/l	NC		20
Calcium, Total	300000	295000	ug/l	2		20
Iron, Total	410.	386	ug/l	6		20
Lead, Total	0.7642J	0.7759J	ug/l	NC		20
Magnesium, Total	53700	53400	ug/l	1		20
Manganese, Total	323.8	318.8	ug/l	2		20
Potassium, Total	14800	14300	ug/l	3		20
Sodium, Total	65700	64800	ug/l	1		20
Total Hardness (by calculation) - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1070561-4 QC Sample: L1744593-01 Client ID: MPI-3						
Hardness	971100	957500	ug/l	1		20
Total Metals - Mansfield Lab Associated sample(s): 06-13 QC Batch ID: WG1071292-4 QC Sample: L1745300-01 Client ID: DUP Sample						
Cadmium, Total	0.2737	0.2607	ug/l	5		20
Calcium, Total	64200	64300	ug/l	0		20
Iron, Total	625.	623	ug/l	0		20
Lead, Total	6.061	6.084	ug/l	0		20
Magnesium, Total	13800	13700	ug/l	1		20
Manganese, Total	25.23	25.47	ug/l	1		20
Potassium, Total	5560	5490	ug/l	1		20
Sodium, Total	137000	135000	ug/l	1		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017

Lab Number: L1744593
Report Date: 12/15/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 14-15 QC Batch ID: WG1071647-4 QC Sample: L1744593-14 Client ID: PPRS CELL D					
Cadmium, Total	ND	ND	ug/l	NC	20
Calcium, Total	265000	256000	ug/l	3	20
Iron, Total	2960	2880	ug/l	3	20
Lead, Total	ND	ND	ug/l	NC	20
Magnesium, Total	94700	95000	ug/l	0	20
Manganese, Total	1900.	1856	ug/l	2	20
Potassium, Total	12500	12100	ug/l	3	20
Sodium, Total	156000	156000	ug/l	0	20
Total Hardness (by calculation) - Mansfield Lab Associated sample(s): 14-15 QC Batch ID: WG1071647-4 QC Sample: L1744593-14 Client ID: PPRS CELL D					
Hardness	1051000	1032000	ug/l	2	20

INORGANICS
&
MISCELLANEOUS

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017

Lab Number: L1744593
Report Date: 12/15/17

SAMPLE RESULTS

Lab ID: L1744593-01
Client ID: MPI-3
Sample Location: Not Specified
Matrix: Water

Date Collected: 12/05/17 13:20
Date Received: 12/05/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	437.		mg CaCO3/L	2.00	NA	1	-	12/06/17 09:34	121,2320B	BR
Solids, Total Dissolved	1200		mg/l	10	3.1	1	-	12/06/17 23:15	121,2540C	CW
Nitrogen, Ammonia	ND		mg/l	0.075	0.024	1	12/07/17 14:09	12/12/17 21:15	44,350.1	AT
Nitrogen, Nitrate	1.2		mg/l	0.10	0.033	1	-	12/06/17 20:03	44,353.2	MR
Nitrogen, Total Kjeldahl	0.627		mg/l	0.300	0.066	1	12/07/17 14:00	12/12/17 20:45	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	22.		mg/l	10	2.7	1	12/11/17 19:40	12/11/17 22:13	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	12/06/17 08:20	12/11/17 10:30	121,5210B	TE
Total Organic Carbon	5.03		mg/l	1.00	0.228	2	-	12/07/17 07:28	121,5310C	DW
Phenolics, Total	ND		mg/l	0.030	0.006	1	12/07/17 12:13	12/07/17 15:30	4,420.1	AW
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.500	0.098	10	-	12/11/17 19:10	44,300.0	AU
Chloride	109.		mg/l	5.00	0.839	10	-	12/11/17 19:10	44,300.0	AU
Sulfate	466.		mg/l	10.0	1.60	10	-	12/11/17 19:10	44,300.0	AU

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017

Lab Number: L1744593
Report Date: 12/15/17

SAMPLE RESULTS

Lab ID: L1744593-02
Client ID: MPI-2
Sample Location: Not Specified
Matrix: Water

Date Collected: 12/05/17 14:00
Date Received: 12/05/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	596.		mg CaCO3/L	2.00	NA	1	-	12/06/17 09:34	121,2320B	BR
Solids, Total Dissolved	1300		mg/l	10	3.1	1	-	12/06/17 23:15	121,2540C	CW
Nitrogen, Ammonia	0.069	J	mg/l	0.075	0.024	1	12/07/17 14:09	12/12/17 21:18	44,350.1	AT
Nitrogen, Nitrate	0.62		mg/l	0.10	0.033	1	-	12/06/17 20:05	44,353.2	MR
Nitrogen, Total Kjeldahl	0.303		mg/l	0.300	0.066	1	12/07/17 14:00	12/12/17 20:48	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	11.		mg/l	10	2.7	1	12/11/17 19:40	12/11/17 22:13	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	12/06/17 08:20	12/11/17 10:30	121,5210B	TE
Total Organic Carbon	3.12		mg/l	2.50	0.570	5	-	12/07/17 07:28	121,5310C	DW
Phenolics, Total	ND		mg/l	0.030	0.006	1	12/07/17 12:13	12/07/17 15:31	4,420.1	AW
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.687		mg/l	0.250	0.049	5	-	12/11/17 19:22	44,300.0	AU
Chloride	132.		mg/l	2.50	0.420	5	-	12/11/17 19:22	44,300.0	AU
Sulfate	324.		mg/l	5.00	0.800	5	-	12/11/17 19:22	44,300.0	AU

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017

Lab Number: L1744593
Report Date: 12/15/17

SAMPLE RESULTS

Lab ID: L1744593-03
Client ID: MPI-4S
Sample Location: Not Specified
Matrix: Water

Date Collected: 12/05/17 15:15
Date Received: 12/05/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	280.		mg CaCO3/L	2.00	NA	1	-	12/06/17 09:34	121,2320B	BR
Solids, Total Dissolved	370		mg/l	10	3.1	1	-	12/06/17 23:15	121,2540C	CW
Nitrogen, Ammonia	0.031	J	mg/l	0.075	0.024	1	12/07/17 14:09	12/12/17 21:19	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.033	1	-	12/06/17 20:06	44,353.2	MR
Nitrogen, Total Kjeldahl	0.446		mg/l	0.300	0.066	1	12/07/17 14:00	12/12/17 20:31	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	11.		mg/l	10	2.7	1	12/11/17 19:40	12/11/17 22:14	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	12/06/17 08:20	12/11/17 10:30	121,5210B	TE
Total Organic Carbon	3.33		mg/l	1.00	0.228	2	-	12/07/17 07:28	121,5310C	DW
Phenolics, Total	ND		mg/l	0.030	0.006	1	12/07/17 12:13	12/07/17 15:32	4,420.1	AW
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.009	1	-	12/11/17 19:34	44,300.0	AU
Chloride	6.88		mg/l	0.500	0.083	1	-	12/11/17 19:34	44,300.0	AU
Sulfate	20.2		mg/l	1.00	0.160	1	-	12/11/17 19:34	44,300.0	AU

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017

Lab Number: L1744593
Report Date: 12/15/17

SAMPLE RESULTS

Lab ID: L1744593-04
Client ID: MPI-4D
Sample Location: Not Specified
Matrix: Water

Date Collected: 12/06/17 11:00
Date Received: 12/06/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	88.6		mg CaCO3/L	2.00	NA	1	-	12/07/17 09:43	121,2320B	BR
Solids, Total Dissolved	390		mg/l	10	3.1	1	-	12/11/17 21:30	121,2540C	RP
Nitrogen, Ammonia	ND		mg/l	0.075	0.024	1	12/07/17 14:09	12/12/17 21:20	44,350.1	AT
Nitrogen, Nitrate	0.40		mg/l	0.10	0.033	1	-	12/07/17 20:13	44,353.2	MR
Nitrogen, Total Kjeldahl	0.408		mg/l	0.300	0.066	1	12/07/17 14:00	12/12/17 20:32	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	2.7	1	12/11/17 19:40	12/11/17 22:14	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	12/07/17 09:55	12/12/17 09:35	121,5210B	TE
Total Organic Carbon	1.32		mg/l	1.00	0.228	2	-	12/07/17 07:28	121,5310C	DW
Phenolics, Total	ND		mg/l	0.030	0.006	1	12/07/17 12:13	12/07/17 15:34	4,420.1	AW
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.250	0.049	5	-	12/11/17 20:58	44,300.0	AU
Chloride	3.35		mg/l	2.50	0.420	5	-	12/11/17 20:58	44,300.0	AU
Sulfate	235.		mg/l	5.00	0.800	5	-	12/11/17 20:58	44,300.0	AU

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017

Lab Number: L1744593
Report Date: 12/15/17

SAMPLE RESULTS

Lab ID: L1744593-05
Client ID: CTM-2
Sample Location: Not Specified
Matrix: Water

Date Collected: 12/06/17 11:45
Date Received: 12/06/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	318.		mg CaCO3/L	2.00	NA	1	-	12/07/17 09:43	121,2320B	BR
Solids, Total Dissolved	610		mg/l	10	3.1	1	-	12/11/17 21:30	121,2540C	RP
Nitrogen, Ammonia	0.205		mg/l	0.075	0.024	1	12/07/17 14:09	12/12/17 21:21	44,350.1	AT
Nitrogen, Nitrate	0.064	J	mg/l	0.10	0.033	1	-	12/07/17 20:15	44,353.2	MR
Nitrogen, Total Kjeldahl	0.812		mg/l	0.300	0.066	1	12/07/17 14:00	12/12/17 20:36	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	25.		mg/l	10	2.7	1	12/11/17 19:40	12/11/17 22:14	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	12/07/17 09:55	12/12/17 09:35	121,5210B	TE
Total Organic Carbon	4.48		mg/l	1.00	0.228	2	-	12/07/17 07:28	121,5310C	DW
Phenolics, Total	ND		mg/l	0.030	0.006	1	12/07/17 12:13	12/07/17 15:35	4,420.1	AW
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.309		mg/l	0.250	0.049	5	-	12/11/17 21:10	44,300.0	AU
Chloride	94.2		mg/l	2.50	0.420	5	-	12/11/17 21:10	44,300.0	AU
Sulfate	118.		mg/l	5.00	0.800	5	-	12/11/17 21:10	44,300.0	AU

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017

Lab Number: L1744593
Report Date: 12/15/17

SAMPLE RESULTS

Lab ID: L1744593-06
Client ID: MW-3
Sample Location: Not Specified
Matrix: Water

Date Collected: 12/07/17 11:00
Date Received: 12/07/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	484.		mg CaCO3/L	2.00	NA	1	-	12/08/17 09:21	121,2320B	BR
Solids, Total Dissolved	930		mg/l	10	3.1	1	-	12/11/17 21:30	121,2540C	RP
Nitrogen, Ammonia	0.037	J	mg/l	0.075	0.024	1	12/12/17 01:00	12/14/17 21:00	44,350.1	AT
Nitrogen, Nitrate	2.3		mg/l	0.10	0.033	1	-	12/08/17 20:17	44,353.2	MR
Nitrogen, Total Kjeldahl	0.620		mg/l	0.300	0.066	1	12/08/17 02:30	12/14/17 17:23	4,351.3/.1 (M)	JO
Chemical Oxygen Demand	15.		mg/l	10	2.7	1	12/11/17 19:40	12/11/17 22:14	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	12/09/17 02:50	12/13/17 23:50	121,5210B	TE
Total Organic Carbon	3.71		mg/l	1.00	0.228	2	-	12/10/17 12:00	121,5310C	AG
Phenolics, Total	ND		mg/l	0.030	0.006	1	12/11/17 12:24	12/11/17 16:17	4,420.1	AW
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.367		mg/l	0.250	0.049	5	-	12/11/17 21:22	44,300.0	AU
Chloride	113.		mg/l	2.50	0.420	5	-	12/11/17 21:22	44,300.0	AU
Sulfate	205.		mg/l	5.00	0.800	5	-	12/11/17 21:22	44,300.0	AU

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017

Lab Number: L1744593
Report Date: 12/15/17

SAMPLE RESULTS

Lab ID: L1744593-07
Client ID: MPI-1S
Sample Location: Not Specified
Matrix: Water

Date Collected: 12/07/17 11:40
Date Received: 12/07/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	574.		mg CaCO3/L	2.00	NA	1	-	12/08/17 09:21	121,2320B	BR
Solids, Total Dissolved	1100		mg/l	10	3.1	1	-	12/11/17 21:30	121,2540C	RP
Nitrogen, Ammonia	0.042	J	mg/l	0.075	0.024	1	12/12/17 01:00	12/14/17 21:27	44,350.1	AT
Nitrogen, Nitrate	0.034	J	mg/l	0.10	0.033	1	-	12/08/17 20:21	44,353.2	MR
Nitrogen, Total Kjeldahl	0.968		mg/l	0.300	0.066	1	12/08/17 02:30	12/14/17 17:18	4,351.3/.1 (M)	JO
Chemical Oxygen Demand	18.		mg/l	10	2.7	1	12/11/17 19:40	12/11/17 22:15	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	12/09/17 02:50	12/13/17 23:50	121,5210B	TE
Total Organic Carbon	2.61		mg/l	1.00	0.228	2	-	12/10/17 12:00	121,5310C	AG
Phenolics, Total	0.008	J	mg/l	0.030	0.006	1	12/11/17 12:24	12/11/17 16:18	4,420.1	AW
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.408		mg/l	0.250	0.049	5	-	12/11/17 21:34	44,300.0	AU
Chloride	129.		mg/l	2.50	0.420	5	-	12/11/17 21:34	44,300.0	AU
Sulfate	281.		mg/l	5.00	0.800	5	-	12/11/17 21:34	44,300.0	AU

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017

Lab Number: L1744593
Report Date: 12/15/17

SAMPLE RESULTS

Lab ID: L1744593-08
Client ID: MPI-1D
Sample Location: Not Specified
Matrix: Water

Date Collected: 12/07/17 12:00
Date Received: 12/07/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	371.		mg CaCO3/L	2.00	NA	1	-	12/08/17 09:21	121,2320B	BR
Solids, Total Dissolved	680		mg/l	10	3.1	1	-	12/11/17 21:30	121,2540C	RP
Nitrogen, Ammonia	0.064	J	mg/l	0.075	0.024	1	12/12/17 01:00	12/14/17 21:28	44,350.1	AT
Nitrogen, Nitrate	0.093	J	mg/l	0.10	0.033	1	-	12/08/17 20:22	44,353.2	MR
Nitrogen, Total Kjeldahl	0.251	J	mg/l	0.300	0.066	1	12/08/17 02:30	12/14/17 17:19	4,351.3/.1 (M)	JO
Chemical Oxygen Demand	6.1	J	mg/l	10	2.7	1	12/11/17 19:40	12/11/17 22:15	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	12/09/17 02:50	12/13/17 23:50	121,5210B	TE
Total Organic Carbon	1.48		mg/l	1.00	0.228	2	-	12/10/17 12:00	121,5310C	AG
Phenolics, Total	ND		mg/l	0.030	0.006	1	12/11/17 12:24	12/11/17 15:43	4,420.1	AW
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.125		mg/l	0.100	0.019	2	-	12/11/17 23:10	44,300.0	AU
Chloride	62.0		mg/l	1.00	0.168	2	-	12/11/17 23:10	44,300.0	AU
Sulfate	162.		mg/l	2.00	0.320	2	-	12/11/17 23:10	44,300.0	AU

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017

Lab Number: L1744593
Report Date: 12/15/17

SAMPLE RESULTS

Lab ID: L1744593-09
Client ID: DUPLICATE AREA 5
Sample Location: Not Specified
Matrix: Water

Date Collected: 12/07/17 10:00
Date Received: 12/07/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	480.		mg CaCO3/L	2.00	NA	1	-	12/08/17 09:21	121,2320B	BR
Solids, Total Dissolved	940		mg/l	10	3.1	1	-	12/11/17 21:30	121,2540C	RP
Nitrogen, Ammonia	0.025	J	mg/l	0.075	0.024	1	12/12/17 01:00	12/14/17 21:29	44,350.1	AT
Nitrogen, Nitrate	2.4		mg/l	0.10	0.033	1	-	12/08/17 20:27	44,353.2	MR
Nitrogen, Total Kjeldahl	0.700		mg/l	0.300	0.066	1	12/08/17 02:30	12/14/17 17:20	4,351.3/.1 (M)	JO
Chemical Oxygen Demand	13.		mg/l	10	2.7	1	12/11/17 19:40	12/11/17 22:15	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	12/09/17 02:50	12/13/17 23:50	121,5210B	TE
Total Organic Carbon	3.95		mg/l	1.00	0.228	2	-	12/10/17 12:00	121,5310C	AG
Phenolics, Total	ND		mg/l	0.030	0.006	1	12/11/17 12:24	12/11/17 15:44	4,420.1	AW
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.379		mg/l	0.100	0.019	2	-	12/11/17 23:22	44,300.0	AU
Chloride	113.		mg/l	2.50	0.420	5	-	12/12/17 00:34	44,300.0	AU
Sulfate	201.		mg/l	5.00	0.800	5	-	12/12/17 00:34	44,300.0	AU

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017

Lab Number: L1744593
Report Date: 12/15/17

SAMPLE RESULTS

Lab ID: L1744593-10
Client ID: S.L. D/E
Sample Location: Not Specified
Matrix: Water

Date Collected: 12/07/17 12:30
Date Received: 12/07/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	668.		mg CaCO3/L	5.00	NA	2.5	-	12/08/17 09:21	121,2320B	BR
Solids, Total Dissolved	1000		mg/l	10	3.1	1	-	12/11/17 21:30	121,2540C	RP
Nitrogen, Ammonia	19.8		mg/l	0.750	0.240	10	12/12/17 01:00	12/14/17 21:29	44,350.1	AT
Nitrogen, Nitrate	3.8		mg/l	0.10	0.033	1	-	12/08/17 20:28	44,353.2	MR
Nitrogen, Total Kjeldahl	19.8		mg/l	0.300	0.066	1	12/08/17 02:30	12/14/17 17:21	4,351.3/.1 (M)	JO
Chemical Oxygen Demand	25.		mg/l	10	2.7	1	12/11/17 19:40	12/11/17 22:15	44,410.4	TL
BOD, 5 day	3.9		mg/l	2.0	NA	1	12/09/17 02:50	12/13/17 23:50	121,5210B	TE
Total Organic Carbon	8.29		mg/l	2.50	0.570	5	-	12/10/17 12:00	121,5310C	AG
Phenolics, Total	ND		mg/l	0.030	0.006	1	12/11/17 12:24	12/11/17 15:46	4,420.1	AW
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.274		mg/l	0.250	0.049	5	-	12/11/17 23:34	44,300.0	AU
Chloride	63.9		mg/l	2.50	0.420	5	-	12/11/17 23:34	44,300.0	AU
Sulfate	242.		mg/l	5.00	0.800	5	-	12/11/17 23:34	44,300.0	AU

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017

Lab Number: L1744593
Report Date: 12/15/17

SAMPLE RESULTS

Lab ID: L1744593-11
Client ID: S.L.-A
Sample Location: Not Specified
Matrix: Water

Date Collected: 12/07/17 13:15
Date Received: 12/07/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	487.		mg CaCO3/L	2.00	NA	1	-	12/08/17 09:21	121,2320B	BR
Solids, Total Dissolved	1700		mg/l	10	3.1	1	-	12/11/17 21:30	121,2540C	RP
Nitrogen, Ammonia	1.20		mg/l	0.075	0.024	1	12/12/17 01:00	12/14/17 21:30	44,350.1	AT
Nitrogen, Nitrate	0.061	J	mg/l	0.10	0.033	1	-	12/08/17 20:30	44,353.2	MR
Nitrogen, Total Kjeldahl	4.26		mg/l	0.300	0.066	1	12/08/17 02:30	12/14/17 17:22	4,351.3/.1 (M)	JO
Chemical Oxygen Demand	320		mg/l	100	27.	10	12/11/17 19:40	12/11/17 22:16	44,410.4	TL
BOD, 5 day	ND		mg/l	10	NA	5	12/09/17 02:50	12/13/17 23:50	121,5210B	TE
Total Organic Carbon	78.4		mg/l	20.0	4.56	40	-	12/10/17 12:00	121,5310C	AG
Phenolics, Total	0.019	J	mg/l	0.030	0.006	1	12/11/17 12:24	12/11/17 15:49	4,420.1	AW
Anions by Ion Chromatography - Westborough Lab										
Bromide	2.59		mg/l	1.25	0.245	25	-	12/12/17 00:46	44,300.0	AU
Chloride	649.		mg/l	12.5	2.10	25	-	12/12/17 00:46	44,300.0	AU
Sulfate	4.30		mg/l	1.00	0.160	1	-	12/11/17 23:46	44,300.0	AU

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017

Lab Number: L1744593
Report Date: 12/15/17

SAMPLE RESULTS

Lab ID: L1744593-12
Client ID: S.L.-B
Sample Location: Not Specified
Matrix: Water

Date Collected: 12/07/17 13:30
Date Received: 12/07/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	698.		mg CaCO3/L	5.00	NA	2.5	-	12/08/17 09:21	121,2320B	BR
Solids, Total Dissolved	2100		mg/l	10	3.1	1	-	12/11/17 21:30	121,2540C	RP
Nitrogen, Ammonia	12.2		mg/l	0.075	0.024	1	12/12/17 01:00	12/14/17 21:31	44,350.1	AT
Nitrogen, Nitrate	0.22		mg/l	0.10	0.033	1	-	12/08/17 20:31	44,353.2	MR
Nitrogen, Total Kjeldahl	17.1		mg/l	0.300	0.066	1	12/08/17 02:30	12/14/17 17:17	4,351.3/.1 (M)	JO
Chemical Oxygen Demand	460		mg/l	100	27.	10	12/11/17 19:40	12/11/17 22:16	44,410.4	TL
BOD, 5 day	12.		mg/l	10	NA	5	12/09/17 02:50	12/13/17 23:50	121,5210B	TE
Total Organic Carbon	129.		mg/l	20.0	4.56	40	-	12/10/17 12:00	121,5310C	AG
Phenolics, Total	0.023	J	mg/l	0.030	0.006	1	12/11/17 12:24	12/11/17 16:19	4,420.1	AW
Anions by Ion Chromatography - Westborough Lab										
Bromide	5.50		mg/l	0.050	0.009	1	-	12/11/17 23:58	44,300.0	AU
Chloride	797.		mg/l	12.5	2.10	25	-	12/12/17 00:58	44,300.0	AU
Sulfate	3.47		mg/l	1.00	0.160	1	-	12/11/17 23:58	44,300.0	AU

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017

Lab Number: L1744593
Report Date: 12/15/17

SAMPLE RESULTS

Lab ID: L1744593-13
Client ID: S.L.-C
Sample Location: Not Specified
Matrix: Water

Date Collected: 12/07/17 14:00
Date Received: 12/07/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	742.		mg CaCO3/L	10.0	NA	5	-	12/08/17 09:21	121,2320B	BR
Solids, Total Dissolved	850		mg/l	10	3.1	1	-	12/11/17 21:30	121,2540C	RP
Nitrogen, Ammonia	0.737		mg/l	0.075	0.024	1	12/12/17 01:00	12/14/17 21:32	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.033	1	-	12/08/17 20:32	44,353.2	MR
Nitrogen, Total Kjeldahl	1.47		mg/l	0.300	0.066	1	12/08/17 02:30	12/14/17 17:26	4,351.3/.1 (M)	JO
Chemical Oxygen Demand	55.		mg/l	10	2.7	1	12/11/17 19:40	12/11/17 22:16	44,410.4	TL
BOD, 5 day	5.5		mg/l	2.0	NA	1	12/09/17 02:50	12/13/17 23:50	121,5210B	TE
Total Organic Carbon	18.5		mg/l	2.50	0.570	5	-	12/10/17 12:00	121,5310C	AG
Phenolics, Total	0.018	J	mg/l	0.030	0.006	1	12/11/17 12:24	12/11/17 15:50	4,420.1	AW
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.636		mg/l	0.050	0.009	1	-	12/12/17 01:34	44,300.0	AU
Chloride	95.4		mg/l	2.50	0.420	5	-	12/12/17 00:10	44,300.0	AU
Sulfate	0.446	J	mg/l	1.00	0.160	1	-	12/12/17 01:34	44,300.0	AU

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017

Lab Number: L1744593
Report Date: 12/15/17

SAMPLE RESULTS

Lab ID: L1744593-14
Client ID: PPRS CELL D
Sample Location: Not Specified
Matrix: Water

Date Collected: 12/08/17 11:00
Date Received: 12/08/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	979.		mg CaCO3/L	10.0	NA	5	-	12/12/17 09:21	121,2320B	BR
Solids, Total Dissolved	1500		mg/l	10	3.1	1	-	12/11/17 21:30	121,2540C	RP
Nitrogen, Ammonia	0.834		mg/l	0.075	0.024	1	12/12/17 01:00	12/14/17 21:33	44,350.1	AT
Nitrogen, Nitrate	0.054	J	mg/l	0.10	0.033	1	-	12/13/17 20:45	44,353.2	CW
Nitrogen, Total Kjeldahl	1.20		mg/l	0.300	0.066	1	12/11/17 12:30	12/14/17 16:07	4,351.3/.1 (M)	JO
Chemical Oxygen Demand	25.		mg/l	10	2.7	1	12/11/17 19:40	12/11/17 22:17	44,410.4	TL
BOD, 5 day	6.9		mg/l	2.0	NA	1	12/09/17 20:55	12/14/17 23:25	121,5210B	RP
Total Organic Carbon	7.52		mg/l	2.50	0.570	5	-	12/11/17 07:29	121,5310C	DW
Phenolics, Total	0.009	J	mg/l	0.030	0.006	1	12/11/17 12:24	12/11/17 15:51	4,420.1	AW
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.562		mg/l	0.050	0.009	1	-	12/12/17 01:46	44,300.0	AU
Chloride	363.		mg/l	5.00	0.839	10	-	12/12/17 00:22	44,300.0	AU
Sulfate	9.88		mg/l	1.00	0.160	1	-	12/12/17 01:46	44,300.0	AU

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017

Lab Number: L1744593
Report Date: 12/15/17

SAMPLE RESULTS

Lab ID: L1744593-15
Client ID: LAGOON
Sample Location: Not Specified
Matrix: Water

Date Collected: 12/08/17 14:00
Date Received: 12/08/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	4380		mg CaCO3/L	10.0	NA	5	-	12/12/17 09:21	121,2320B	BR
Solids, Total Dissolved	4600		mg/l	10	3.1	1	-	12/11/17 21:30	121,2540C	RP
Nitrogen, Ammonia	833.		mg/l	9.38	3.00	125	12/12/17 01:00	12/14/17 21:34	44,350.1	AT
Nitrogen, Nitrate	180		mg/l	5.0	1.6	50	-	12/13/17 22:24	44,353.2	CW
Nitrogen, Total Kjeldahl	967.		mg/l	15.0	3.30	50	12/11/17 12:30	12/14/17 16:44	4,351.3/.1 (M)	JO
Chemical Oxygen Demand	2000		mg/l	200	54.	20	12/13/17 22:05	12/14/17 00:35	44,410.4	TL
BOD, 5 day	200		mg/l	50	NA	25	12/09/17 20:55	12/14/17 23:25	121,5210B	RP
Total Organic Carbon	548.		mg/l	40.0	9.12	80	-	12/10/17 12:00	121,5310C	AG
Phenolics, Total	0.15		mg/l	0.030	0.006	1	12/11/17 12:24	12/11/17 16:20	4,420.1	AW
Anions by Ion Chromatography - Westborough Lab										
Bromide	32.8		mg/l	5.00	0.980	100	-	12/11/17 22:34	44,300.0	AU
Chloride	3290		mg/l	50.0	8.39	100	-	12/11/17 22:34	44,300.0	AU
Sulfate	222.		mg/l	100	16.0	100	-	12/11/17 22:34	44,300.0	AU

Project Name: COLONIE LF AREA 5-ROUTINE **Lab Number:** L1744593

Project Number: 22396002.2017 **Report Date:** 12/15/17

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG1069526-1										
BOD, 5 day	ND		mg/l	2.0	NA	1	12/06/17 08:20	12/11/17 10:30	121,5210B	TE
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG1069563-1										
Alkalinity, Total	ND		mg CaCO3/L	2.00	NA	1	-	12/06/17 09:34	121,2320B	BR
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG1069788-1										
Nitrogen, Nitrate	ND		mg/l	0.10	0.033	1	-	12/06/17 19:09	44,353.2	MR
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG1069861-1										
Solids, Total Dissolved	ND		mg/l	10	3.1	1	-	12/06/17 23:15	121,2540C	CW
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG1069943-1										
Total Organic Carbon	ND		mg/l	0.500	0.114	1	-	12/07/17 07:28	121,5310C	DW
General Chemistry - Westborough Lab for sample(s): 04-05 Batch: WG1069981-1										
BOD, 5 day	ND		mg/l	2.0	NA	1	12/07/17 09:55	12/12/17 09:35	121,5210B	TE
General Chemistry - Westborough Lab for sample(s): 04-05 Batch: WG1070034-1										
Alkalinity, Total	ND		mg CaCO3/L	2.00	NA	1	-	12/07/17 09:43	121,2320B	BR
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG1070143-1										
Phenolics, Total	ND		mg/l	0.030	0.006	1	12/07/17 12:13	12/07/17 15:16	4,420.1	AW
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG1070150-1										
Nitrogen, Total Kjeldahl	ND		mg/l	0.300	0.022	1	12/07/17 14:00	12/12/17 20:24	4,351.3/.1 (M)	AT
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG1070151-1										
Nitrogen, Ammonia	ND		mg/l	0.075	0.024	1	12/07/17 14:09	12/12/17 21:01	44,350.1	AT
General Chemistry - Westborough Lab for sample(s): 04-05 Batch: WG1070252-1										
Nitrogen, Nitrate	ND		mg/l	0.10	0.033	1	-	12/07/17 18:48	44,353.2	MR
General Chemistry - Westborough Lab for sample(s): 06-13 Batch: WG1070430-1										
Nitrogen, Total Kjeldahl	ND		mg/l	0.300	0.022	1	12/08/17 02:30	12/14/17 17:14	4,351.3/.1 (M)	JO
General Chemistry - Westborough Lab for sample(s): 06-13 Batch: WG1070525-1										
Alkalinity, Total	ND		mg CaCO3/L	2.00	NA	1	-	12/08/17 09:21	121,2320B	BR
General Chemistry - Westborough Lab for sample(s): 06-13 Batch: WG1070722-1										
Nitrogen, Nitrate	ND		mg/l	0.10	0.033	1	-	12/08/17 18:54	44,353.2	MR

Project Name: COLONIE LF AREA 5-ROUTINE **Lab Number:** L1744593

Project Number: 22396002.2017 **Report Date:** 12/15/17

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 06-13 Batch: WG1070853-1										
BOD, 5 day	ND		mg/l	2.0	NA	1	12/09/17 02:50	12/13/17 23:50	121,5210B	TE
General Chemistry - Westborough Lab for sample(s): 14-15 Batch: WG1070988-1										
BOD, 5 day	ND		mg/l	2.0	NA	1	12/09/17 20:55	12/14/17 23:25	121,5210B	RP
General Chemistry - Westborough Lab for sample(s): 06-13,15 Batch: WG1071027-1										
Total Organic Carbon	ND		mg/l	0.500	0.114	1	-	12/10/17 12:00	121,5310C	AG
General Chemistry - Westborough Lab for sample(s): 04-13 Batch: WG1071113-1										
Solids, Total Dissolved	ND		mg/l	10	3.1	1	-	12/11/17 21:30	121,2540C	RP
General Chemistry - Westborough Lab for sample(s): 14-15 Batch: WG1071115-1										
Solids, Total Dissolved	ND		mg/l	10	3.1	1	-	12/11/17 21:30	121,2540C	RP
General Chemistry - Westborough Lab for sample(s): 14 Batch: WG1071167-1										
Total Organic Carbon	ND		mg/l	0.500	0.114	1	-	12/11/17 07:29	121,5310C	DW
General Chemistry - Westborough Lab for sample(s): 14-15 Batch: WG1071269-1										
Nitrogen, Total Kjeldahl	0.098	J	mg/l	0.300	0.022	1	12/11/17 12:30	12/14/17 16:04	4,351.3/.1 (M)	JO
General Chemistry - Westborough Lab for sample(s): 06-15 Batch: WG1071299-1										
Phenolics, Total	0.006	J	mg/l	0.030	0.006	1	12/11/17 12:24	12/11/17 16:15	4,420.1	AW
General Chemistry - Westborough Lab for sample(s): 01-14 Batch: WG1071408-1										
Chemical Oxygen Demand	ND		mg/l	10	2.7	1	12/11/17 19:40	12/11/17 22:11	44,410.4	TL
General Chemistry - Westborough Lab for sample(s): 06-15 Batch: WG1071467-1										
Nitrogen, Ammonia	ND		mg/l	0.075	0.024	1	12/12/17 01:00	12/14/17 20:55	44,350.1	AT
General Chemistry - Westborough Lab for sample(s): 14-15 Batch: WG1071615-1										
Alkalinity, Total	ND		mg CaCO3/L	2.00	NA	1	-	12/12/17 09:21	121,2320B	BR
Anions by Ion Chromatography - Westborough Lab for sample(s): 03-07,15 Batch: WG1071965-1										
Bromide	ND		mg/l	0.050	0.009	1	-	12/11/17 18:22	44,300.0	AU
Chloride	ND		mg/l	0.500	0.083	1	-	12/11/17 18:22	44,300.0	AU
Sulfate	ND		mg/l	1.00	0.160	1	-	12/11/17 18:22	44,300.0	AU
Anions by Ion Chromatography - Westborough Lab for sample(s): 01-02,08-14 Batch: WG1071968-1										
Bromide	ND		mg/l	0.050	0.009	1	-	12/11/17 18:22	44,300.0	AU
Chloride	ND		mg/l	0.500	0.083	1	-	12/11/17 18:22	44,300.0	AU
Sulfate	ND		mg/l	1.00	0.160	1	-	12/11/17 18:22	44,300.0	AU

Project Name: COLONIE LF AREA 5-ROUTINE **Lab Number:** L1744593

Project Number: 22396002.2017 **Report Date:** 12/15/17

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 15 Batch: WG1072375-1										
Chemical Oxygen Demand	ND		mg/l	10	2.7	1	12/13/17 22:05	12/14/17 00:34	44,410.4	TL
General Chemistry - Westborough Lab for sample(s): 14-15 Batch: WG1072379-1										
Nitrogen, Nitrate	ND		mg/l	0.10	0.033	1	-	12/13/17 20:22	44,353.2	CW

Lab Control Sample Analysis
Batch Quality Control

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017

Lab Number: L1744593
Report Date: 12/15/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG1069526-2								
BOD, 5 day	110		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG1069563-2								
Alkalinity, Total	105		-		90-110	-		10
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG1069788-2								
Nitrogen, Nitrate	100		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG1069861-2								
Solids, Total Dissolved	106		-		80-120	-		
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG1069943-2								
Total Organic Carbon	96		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 04-05 Batch: WG1069981-2								
BOD, 5 day	104		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 04-05 Batch: WG1070034-2								
Alkalinity, Total	103		-		90-110	-		10

Lab Control Sample Analysis
Batch Quality Control

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017

Lab Number: L1744593
Report Date: 12/15/17

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG1070143-2					
Phenolics, Total	85	-	70-130	-	
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG1070150-2					
Nitrogen, Total Kjeldahl	95	-	78-122	-	
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG1070151-2					
Nitrogen, Ammonia	96	-	90-110	-	20
General Chemistry - Westborough Lab Associated sample(s): 04-05 Batch: WG1070252-2					
Nitrogen, Nitrate	96	-	90-110	-	
General Chemistry - Westborough Lab Associated sample(s): 06-13 Batch: WG1070430-2					
Nitrogen, Total Kjeldahl	88	-	78-122	-	
General Chemistry - Westborough Lab Associated sample(s): 06-13 Batch: WG1070525-2					
Alkalinity, Total	104	-	90-110	-	10
General Chemistry - Westborough Lab Associated sample(s): 06-13 Batch: WG1070722-2					
Nitrogen, Nitrate	92	-	90-110	-	

Lab Control Sample Analysis
Batch Quality Control

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017

Lab Number: L1744593
Report Date: 12/15/17

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 06-13 Batch: WG1070853-2					
BOD, 5 day	99	-	85-115	-	20
General Chemistry - Westborough Lab Associated sample(s): 14-15 Batch: WG1070988-2					
BOD, 5 day	99	-	85-115	-	20
General Chemistry - Westborough Lab Associated sample(s): 06-13,15 Batch: WG1071027-2					
Total Organic Carbon	101	-	90-110	-	
General Chemistry - Westborough Lab Associated sample(s): 04-13 Batch: WG1071113-2					
Solids, Total Dissolved	90	-	80-120	-	
General Chemistry - Westborough Lab Associated sample(s): 14-15 Batch: WG1071115-2					
Solids, Total Dissolved	97	-	80-120	-	
General Chemistry - Westborough Lab Associated sample(s): 14 Batch: WG1071167-2					
Total Organic Carbon	102	-	90-110	-	
General Chemistry - Westborough Lab Associated sample(s): 14-15 Batch: WG1071269-2					
Nitrogen, Total Kjeldahl	90	-	78-122	-	

Lab Control Sample Analysis
Batch Quality Control

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017

Lab Number: L1744593
Report Date: 12/15/17

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 06-15 Batch: WG1071299-2					
Phenolics, Total	93	-	70-130	-	
General Chemistry - Westborough Lab Associated sample(s): 01-14 Batch: WG1071408-2					
Chemical Oxygen Demand	100	-	90-110	-	
General Chemistry - Westborough Lab Associated sample(s): 06-15 Batch: WG1071467-2					
Nitrogen, Ammonia	92	-	90-110	-	20
General Chemistry - Westborough Lab Associated sample(s): 14-15 Batch: WG1071615-2					
Alkalinity, Total	104	-	90-110	-	10
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 03-07,15 Batch: WG1071965-2					
Bromide	98	-	90-110	-	
Chloride	96	-	90-110	-	
Sulfate	102	-	90-110	-	
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-02,08-14 Batch: WG1071968-2					
Bromide	98	-	90-110	-	
Chloride	96	-	90-110	-	
Sulfate	102	-	90-110	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: COLONIE LF AREA 5-ROUTINE

Project Number: 22396002.2017

Lab Number: L1744593

Report Date: 12/15/17

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 15 Batch: WG1072375-2					
Chemical Oxygen Demand	100	-	90-110	-	
General Chemistry - Westborough Lab Associated sample(s): 14-15 Batch: WG1072379-2					
Nitrogen, Nitrate	102	-	90-110	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017

Lab Number: L1744593
Report Date: 12/15/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1069526-4 QC Sample: L1744644-03 Client ID: MS Sample												
BOD, 5 day	ND	100	120	122		-	-		50-145	-		35
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1069563-4 QC Sample: L1744585-02 Client ID: MS Sample												
Alkalinity, Total	385.	100	478	93		-	-		86-116	-		10
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1069788-4 QC Sample: L1744644-03 Client ID: MS Sample												
Nitrogen, Nitrate	ND	4	3.6	90		-	-		83-113	-		6
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1069943-4 QC Sample: L1744740-01 Client ID: MS Sample												
Total Organic Carbon	0.570	8	8.68	101		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 04-05 QC Batch ID: WG1069981-4 QC Sample: L1744945-01 Client ID: MS Sample												
BOD, 5 day	32.	200	210	89		-	-		50-145	-		35
General Chemistry - Westborough Lab Associated sample(s): 04-05 QC Batch ID: WG1070034-4 QC Sample: L1744621-02 Client ID: MS Sample												
Alkalinity, Total	9.00	100	109	100		-	-		86-116	-		10
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1070143-4 QC Sample: L1744376-02 Client ID: MS Sample												
Phenolics, Total	ND	0.4	0.35	88		-	-		70-130	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1070150-4 QC Sample: L1744376-02 Client ID: MS Sample												
Nitrogen, Total Kjeldahl	0.613	8	7.86	90		-	-		77-111	-		24
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1070151-4 QC Sample: L1744593-01 Client ID: MPI-3												
Nitrogen, Ammonia	ND	4	3.76	94		-	-		90-110	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017

Lab Number: L1744593
Report Date: 12/15/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 04-05 QC Batch ID: WG1070252-4 QC Sample: L1744755-01 Client ID: MS Sample										
Nitrogen, Nitrate	1.4	4	5.3	98		-	-	83-113	-	6
General Chemistry - Westborough Lab Associated sample(s): 06-13 QC Batch ID: WG1070430-4 QC Sample: L1744637-14 Client ID: MS Sample										
Nitrogen, Total Kjeldahl	0.127J	8	7.40	92		-	-	77-111	-	24
General Chemistry - Westborough Lab Associated sample(s): 06-13 QC Batch ID: WG1070525-4 QC Sample: L1744892-02 Client ID: MS Sample										
Alkalinity, Total	38.2	100	119	**81**	Q	-	-	86-116	-	10
General Chemistry - Westborough Lab Associated sample(s): 06-13 QC Batch ID: WG1070722-4 QC Sample: L1744593-06 Client ID: MW-3										
Nitrogen, Nitrate	2.3	4	5.8	88		-	-	83-113	-	6
General Chemistry - Westborough Lab Associated sample(s): 06-13 QC Batch ID: WG1070853-4 QC Sample: L1744947-21 Client ID: MS Sample										
BOD, 5 day	ND	100	ND	**0**	Q	-	-	50-145	-	35
General Chemistry - Westborough Lab Associated sample(s): 14-15 QC Batch ID: WG1070988-4 QC Sample: L1745347-01 Client ID: MS Sample										
BOD, 5 day	ND	100	100	101		-	-	50-145	-	35
General Chemistry - Westborough Lab Associated sample(s): 06-13,15 QC Batch ID: WG1071027-4 QC Sample: L1744593-06 Client ID: MW-3										
Total Organic Carbon	3.71	8	12.0	104		-	-	80-120	-	20
General Chemistry - Westborough Lab Associated sample(s): 14 QC Batch ID: WG1071167-4 QC Sample: L1700012-97 Client ID: MS Sample										
Total Organic Carbon	2.00	4	6.38	110		-	-	80-120	-	20
General Chemistry - Westborough Lab Associated sample(s): 14-15 QC Batch ID: WG1071269-4 QC Sample: L1744945-01 Client ID: MS Sample										
Nitrogen, Total Kjeldahl	689.	8	711	**275**	Q	-	-	77-111	-	24

Matrix Spike Analysis
Batch Quality Control

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017

Lab Number: L1744593
Report Date: 12/15/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 06-15 QC Batch ID: WG1071299-4 QC Sample: L1744593-10 Client ID: S.L. D/E										
Phenolics, Total	ND	0.4	0.33	82		-	-	70-130	-	20
General Chemistry - Westborough Lab Associated sample(s): 01-14 QC Batch ID: WG1071408-3 QC Sample: L1744593-02 Client ID: MPI-2										
Chemical Oxygen Demand	11.	47.6	55	92		-	-	90-110	-	20
General Chemistry - Westborough Lab Associated sample(s): 06-15 QC Batch ID: WG1071467-4 QC Sample: L1744593-06 Client ID: MW-3										
Nitrogen, Ammonia	0.037J	4	3.58	90		-	-	90-110	-	20
General Chemistry - Westborough Lab Associated sample(s): 14-15 QC Batch ID: WG1071615-4 QC Sample: L1745076-01 Client ID: MS Sample										
Alkalinity, Total	20.3	100	119	99		-	-	86-116	-	10
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 03-07,15 QC Batch ID: WG1071965-3 QC Sample: L1744593-03 Client ID: MPI-4S										
Bromide	ND	0.4	0.323	**81**	Q	-	-	90-110	-	20
Chloride	6.88	4	10.8	99		-	-	90-110	-	18
Sulfate	20.2	8	28.1	99		-	-	90-110	-	20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-02,08-14 QC Batch ID: WG1071968-3 QC Sample: L1744593-02 Client ID: MPI-2										
Bromide	0.687	2	2.30	**80**	Q	-	-	90-110	-	20
Chloride	132.	20	147	**71**	Q	-	-	90-110	-	18
Sulfate	324.	40	349	**61**	Q	-	-	90-110	-	20
General Chemistry - Westborough Lab Associated sample(s): 15 QC Batch ID: WG1072375-3 QC Sample: L1744644-03 Client ID: MS Sample										
Chemical Oxygen Demand	3.8J	47.6	55	**116**	Q	-	-	90-110	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017

Lab Number: L1744593
Report Date: 12/15/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 14-15 QC Batch ID: WG1072379-4 QC Sample: L1745737-01 Client ID: MS Sample										
Nitrogen, Nitrate	38.	4	41	**75**	Q	-	-	83-113	-	6

Lab Duplicate Analysis
Batch Quality Control

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017

Lab Number: L1744593
Report Date: 12/15/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1069526-3 QC Sample: L1744644-03 Client ID: DUP Sample						
BOD, 5 day	ND	ND	mg/l	NC		35
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1069563-3 QC Sample: L1744585-02 Client ID: DUP Sample						
Alkalinity, Total	385.	378	mg CaCO3/L	2		10
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1069788-3 QC Sample: L1744644-03 Client ID: DUP Sample						
Nitrogen, Nitrate	ND	ND	mg/l	NC		6
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1069861-3 QC Sample: L1744585-02 Client ID: DUP Sample						
Solids, Total Dissolved	960	1000	mg/l	4		10
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1069943-3 QC Sample: L1744740-01 Client ID: DUP Sample						
Total Organic Carbon	0.570	0.630	mg/l	10		20
General Chemistry - Westborough Lab Associated sample(s): 04-05 QC Batch ID: WG1069981-3 QC Sample: L1744945-01 Client ID: DUP Sample						
BOD, 5 day	32.	28	mg/l	13		35
General Chemistry - Westborough Lab Associated sample(s): 04-05 QC Batch ID: WG1070034-3 QC Sample: L1744621-02 Client ID: DUP Sample						
Alkalinity, Total	9.00	9.00	mg CaCO3/L	0		10
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1070143-3 QC Sample: L1744376-02 Client ID: DUP Sample						
Phenolics, Total	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1070150-3 QC Sample: L1744376-02 Client ID: DUP Sample						
Nitrogen, Total Kjeldahl	0.613	0.528	mg/l	15		24

Lab Duplicate Analysis
Batch Quality Control

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017

Lab Number: L1744593
Report Date: 12/15/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1070151-3 QC Sample: L1744593-01 Client ID: MPI-3					
Nitrogen, Ammonia	ND	0.024J	mg/l	NC	20
General Chemistry - Westborough Lab Associated sample(s): 04-05 QC Batch ID: WG1070252-3 QC Sample: L1744755-01 Client ID: DUP Sample					
Nitrogen, Nitrate	1.4	1.4	mg/l	0	6
General Chemistry - Westborough Lab Associated sample(s): 06-13 QC Batch ID: WG1070430-3 QC Sample: L1744637-14 Client ID: DUP Sample					
Nitrogen, Total Kjeldahl	0.127J	0.126J	mg/l	NC	24
General Chemistry - Westborough Lab Associated sample(s): 06-13 QC Batch ID: WG1070525-3 QC Sample: L1744892-02 Client ID: DUP Sample					
Alkalinity, Total	38.2	38.2	mg CaCO3/L	0	10
General Chemistry - Westborough Lab Associated sample(s): 06-13 QC Batch ID: WG1070722-3 QC Sample: L1744593-06 Client ID: MW-3					
Nitrogen, Nitrate	2.3	2.3	mg/l	0	6
General Chemistry - Westborough Lab Associated sample(s): 06-13 QC Batch ID: WG1070853-3 QC Sample: L1744947-21 Client ID: DUP Sample					
BOD, 5 day	ND	ND	mg/l	NC	35
General Chemistry - Westborough Lab Associated sample(s): 14-15 QC Batch ID: WG1070988-3 QC Sample: L1745347-01 Client ID: DUP Sample					
BOD, 5 day	ND	ND	mg/l	NC	35
General Chemistry - Westborough Lab Associated sample(s): 06-13,15 QC Batch ID: WG1071027-3 QC Sample: L1744593-06 Client ID: MW-3					
Total Organic Carbon	3.71	3.96	mg/l	7	20
General Chemistry - Westborough Lab Associated sample(s): 04-13 QC Batch ID: WG1071113-3 QC Sample: L1744593-04 Client ID: MPI-4D					
Solids, Total Dissolved	390	370	mg/l	5	10

Lab Duplicate Analysis
Batch Quality Control

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017

Lab Number: L1744593
Report Date: 12/15/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 14-15 QC Batch ID: WG1071115-3 QC Sample: L1744644-03 Client ID: DUP Sample					
Solids, Total Dissolved	160	170	mg/l	6	10
General Chemistry - Westborough Lab Associated sample(s): 14 QC Batch ID: WG1071167-3 QC Sample: L1700012-96 Client ID: DUP Sample					
Total Organic Carbon	2.61	2.60	mg/l	0	20
General Chemistry - Westborough Lab Associated sample(s): 14-15 QC Batch ID: WG1071269-3 QC Sample: L1744945-01 Client ID: DUP Sample					
Nitrogen, Total Kjeldahl	689.	688	mg/l	0	24
General Chemistry - Westborough Lab Associated sample(s): 06-15 QC Batch ID: WG1071299-3 QC Sample: L1744593-10 Client ID: S.L. D/E					
Phenolics, Total	ND	0.016J	mg/l	NC	20
General Chemistry - Westborough Lab Associated sample(s): 01-14 QC Batch ID: WG1071408-4 QC Sample: L1744593-02 Client ID: MPI-2					
Chemical Oxygen Demand	11.	8.4J	mg/l	NC	20
General Chemistry - Westborough Lab Associated sample(s): 06-15 QC Batch ID: WG1071467-3 QC Sample: L1744593-06 Client ID: MW-3					
Nitrogen, Ammonia	0.037J	ND	mg/l	NC	20
General Chemistry - Westborough Lab Associated sample(s): 14-15 QC Batch ID: WG1071615-3 QC Sample: L1745076-01 Client ID: DUP Sample					
Alkalinity, Total	20.3	20.0	mg CaCO3/L	1	10
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 03-07,15 QC Batch ID: WG1071965-4 QC Sample: L1744593-03 Client ID: MPI-4S					
Bromide	ND	ND	mg/l	NC	20
Chloride	6.88	6.85	mg/l	0	18
Sulfate	20.2	19.9	mg/l	1	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017

Lab Number: L1744593
Report Date: 12/15/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-02,08-14 QC Batch ID: WG1071968-4 QC Sample: L1744593-02 Client ID: MPI-2					
Bromide	0.687	0.607	mg/l	12	20
Chloride	132.	132	mg/l	0	18
Sulfate	324.	322	mg/l	1	20
General Chemistry - Westborough Lab Associated sample(s): 15 QC Batch ID: WG1072375-4 QC Sample: L1744644-03 Client ID: DUP Sample					
Chemical Oxygen Demand	3.8J	3.8J	mg/l	NC	20
General Chemistry - Westborough Lab Associated sample(s): 14-15 QC Batch ID: WG1072379-3 QC Sample: L1745737-01 Client ID: DUP Sample					
Nitrogen, Nitrate	38.	37	mg/l	3	6

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017

Lab Number: L1744593
Report Date: 12/15/17

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A1	Absent
A2	Absent
B	Absent
B1	Absent
C	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1744593-01A	Vial H2SO4 preserved	B	NA		3.8	Y	Absent		TOC-5310(28)
L1744593-01B	Vial H2SO4 preserved	B	NA		3.8	Y	Absent		TOC-5310(28)
L1744593-01C	Plastic 120ml unpreserved/No Headspace	B	NA		3.8	Y	Absent		ALK-T-2320(14)
L1744593-01D	Plastic 250ml HNO3 preserved	B	<2	<2	3.8	Y	Absent		CD-6020T-PPB(180),HARDT-6020-PPB(180),CA-6020T-PPB(180),K-6020T-PPB(180),PB-6020T-PPB(180),FE-6020T-PPB(180),MG-6020T-PPB(180),NA-6020T-PPB(180),MN-6020T-PPB(180)
L1744593-01E	Plastic 500ml H2SO4 preserved	B	<2	<2	3.8	Y	Absent		TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1744593-01F	Amber 500ml H2SO4 preserved	B	<2	<2	3.8	Y	Absent		NY-TPHENOL-420(28)
L1744593-01G	Plastic 950ml unpreserved	B	7	7	3.8	Y	Absent		SO4-300(28),CL-300(28),BOD-5210(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1744593-02A	Vial H2SO4 preserved	B	NA		3.8	Y	Absent		TOC-5310(28)
L1744593-02B	Vial H2SO4 preserved	B	NA		3.8	Y	Absent		TOC-5310(28)
L1744593-02C	Plastic 120ml unpreserved/No Headspace	B	NA		3.8	Y	Absent		ALK-T-2320(14)
L1744593-02D	Plastic 250ml HNO3 preserved	B	<2	<2	3.8	Y	Absent		CD-6020T-PPB(180),HARDT-6020-PPB(180),CA-6020T-PPB(180),K-6020T-PPB(180),PB-6020T-PPB(180),FE-6020T-PPB(180),MG-6020T-PPB(180),NA-6020T-PPB(180),MN-6020T-PPB(180)
L1744593-02E	Plastic 500ml H2SO4 preserved	B	<2	<2	3.8	Y	Absent		TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1744593-02F	Amber 500ml H2SO4 preserved	B	<2	<2	3.8	Y	Absent		NY-TPHENOL-420(28)
L1744593-02G	Plastic 950ml unpreserved	B	7	7	3.8	Y	Absent		SO4-300(28),CL-300(28),BOD-5210(2),BR-300(28),NO3-353(2),TDS-2540(7)

*Values in parentheses indicate holding time in days

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017

Lab Number: L1744593
Report Date: 12/15/17

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1744593-03A	Vial H2SO4 preserved	B	NA		3.8	Y	Absent		TOC-5310(28)
L1744593-03B	Vial H2SO4 preserved	B	NA		3.8	Y	Absent		TOC-5310(28)
L1744593-03C	Plastic 120ml unpreserved/No Headspace	B	NA		3.8	Y	Absent		ALK-T-2320(14)
L1744593-03D	Plastic 250ml HNO3 preserved	B	<2	<2	3.8	Y	Absent		CD-6020T-PPB(180),HARDT-6020-PPB(180),CA-6020T-PPB(180),K-6020T-PPB(180),PB-6020T-PPB(180),FE-6020T-PPB(180),MG-6020T-PPB(180),NA-6020T-PPB(180),MN-6020T-PPB(180)
L1744593-03E	Plastic 500ml H2SO4 preserved	B	<2	<2	3.8	Y	Absent		TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1744593-03F	Amber 500ml H2SO4 preserved	B	<2	<2	3.8	Y	Absent		NY-TPHENOL-420(28)
L1744593-03G	Plastic 950ml unpreserved	B	7	7	3.8	Y	Absent		SO4-300(28),CL-300(28),BOD-5210(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1744593-04A	Vial H2SO4 preserved	C	NA		5.8	Y	Absent		TOC-5310(28)
L1744593-04B	Vial H2SO4 preserved	C	NA		5.8	Y	Absent		TOC-5310(28)
L1744593-04C	Plastic 120ml unpreserved/No Headspace	C	NA		5.8	Y	Absent		ALK-T-2320(14)
L1744593-04D	Plastic 250ml HNO3 preserved	C	<2	<2	5.8	Y	Absent		CD-6020T-PPB(180),HARDT-6020-PPB(180),CA-6020T-PPB(180),K-6020T-PPB(180),PB-6020T-PPB(180),FE-6020T-PPB(180),MG-6020T-PPB(180),NA-6020T-PPB(180),MN-6020T-PPB(180)
L1744593-04E	Plastic 500ml H2SO4 preserved	C	<2	<2	5.8	Y	Absent		TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1744593-04F	Amber 500ml H2SO4 preserved	C	<2	<2	5.8	Y	Absent		NY-TPHENOL-420(28)
L1744593-04G	Plastic 950ml unpreserved	C	7	7	5.8	Y	Absent		SO4-300(28),CL-300(28),BOD-5210(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1744593-05A	Vial H2SO4 preserved	C	NA		5.8	Y	Absent		TOC-5310(28)
L1744593-05B	Vial H2SO4 preserved	C	NA		5.8	Y	Absent		TOC-5310(28)
L1744593-05C	Plastic 120ml unpreserved/No Headspace	C	NA		5.8	Y	Absent		ALK-T-2320(14)
L1744593-05D	Plastic 250ml HNO3 preserved	C	<2	<2	5.8	Y	Absent		CD-6020T-PPB(180),HARDT-6020-PPB(180),CA-6020T-PPB(180),K-6020T-PPB(180),PB-6020T-PPB(180),FE-6020T-PPB(180),MG-6020T-PPB(180),NA-6020T-PPB(180),MN-6020T-PPB(180)
L1744593-05E	Plastic 500ml H2SO4 preserved	C	<2	<2	5.8	Y	Absent		TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1744593-05F	Amber 500ml H2SO4 preserved	C	<2	<2	5.8	Y	Absent		NY-TPHENOL-420(28)
L1744593-05G	Plastic 950ml unpreserved	C	7	7	5.8	Y	Absent		SO4-300(28),CL-300(28),BOD-5210(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1744593-06A	Vial H2SO4 preserved	A1	NA		2.6	Y	Absent		TOC-5310(28)

*Values in parentheses indicate holding time in days

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017

Lab Number: L1744593
Report Date: 12/15/17

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1744593-06B	Vial H2SO4 preserved	A1	NA		2.6	Y	Absent		TOC-5310(28)
L1744593-06C	Plastic 120ml unpreserved/No Headspace	A1	NA		2.6	Y	Absent		ALK-T-2320(14)
L1744593-06D	Plastic 250ml HNO3 preserved	A1	<2	<2	2.6	Y	Absent		CD-6020T-PPB(180),HARDT-6020-PPB(180),CA-6020T-PPB(180),K-6020T-PPB(180),PB-6020T-PPB(180),FE-6020T-PPB(180),MG-6020T-PPB(180),NA-6020T-PPB(180),MN-6020T-PPB(180)
L1744593-06E	Plastic 500ml H2SO4 preserved	A1	<2	<2	2.6	Y	Absent		TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1744593-06F	Amber 500ml H2SO4 preserved	A1	<2	<2	2.6	Y	Absent		NY-TPHENOL-420(28)
L1744593-06G	Plastic 950ml unpreserved	A1	7	7	2.6	Y	Absent		SO4-300(28),CL-300(28),BOD-5210(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1744593-07A	Vial H2SO4 preserved	A1	NA		2.6	Y	Absent		TOC-5310(28)
L1744593-07B	Vial H2SO4 preserved	A1	NA		2.6	Y	Absent		TOC-5310(28)
L1744593-07C	Plastic 120ml unpreserved/No Headspace	A1	NA		2.6	Y	Absent		ALK-T-2320(14)
L1744593-07D	Plastic 250ml HNO3 preserved	A1	<2	<2	2.6	Y	Absent		CD-6020T-PPB(180),HARDT-6020-PPB(180),CA-6020T-PPB(180),K-6020T-PPB(180),PB-6020T-PPB(180),FE-6020T-PPB(180),MG-6020T-PPB(180),NA-6020T-PPB(180),MN-6020T-PPB(180)
L1744593-07E	Plastic 500ml H2SO4 preserved	A1	<2	<2	2.6	Y	Absent		TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1744593-07F	Amber 500ml H2SO4 preserved	A1	<2	<2	2.6	Y	Absent		NY-TPHENOL-420(28)
L1744593-07G	Plastic 950ml unpreserved	A1	7	7	2.6	Y	Absent		SO4-300(28),CL-300(28),BOD-5210(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1744593-08A	Vial H2SO4 preserved	A1	NA		2.6	Y	Absent		TOC-5310(28)
L1744593-08B	Vial H2SO4 preserved	A1	NA		2.6	Y	Absent		TOC-5310(28)
L1744593-08C	Plastic 120ml unpreserved/No Headspace	A1	NA		2.6	Y	Absent		ALK-T-2320(14)
L1744593-08D	Plastic 250ml HNO3 preserved	A1	<2	<2	2.6	Y	Absent		CD-6020T-PPB(180),HARDT-6020-PPB(180),CA-6020T-PPB(180),K-6020T-PPB(180),PB-6020T-PPB(180),FE-6020T-PPB(180),MG-6020T-PPB(180),NA-6020T-PPB(180),MN-6020T-PPB(180)
L1744593-08E	Plastic 500ml H2SO4 preserved	A1	<2	<2	2.6	Y	Absent		TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1744593-08F	Amber 500ml H2SO4 preserved	A1	<2	<2	2.6	Y	Absent		NY-TPHENOL-420(28)
L1744593-08G	Plastic 950ml unpreserved	A1	7	7	2.6	Y	Absent		SO4-300(28),CL-300(28),BOD-5210(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1744593-09A	Vial H2SO4 preserved	A1	NA		2.6	Y	Absent		TOC-5310(28)
L1744593-09B	Vial H2SO4 preserved	A1	NA		2.6	Y	Absent		TOC-5310(28)

*Values in parentheses indicate holding time in days

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1744593-09C	Plastic 120ml unpreserved/No Headspace	A1	NA		2.6	Y	Absent		ALK-T-2320(14)
L1744593-09D	Plastic 250ml HNO3 preserved	A1	<2	<2	2.6	Y	Absent		CD-6020T-PPB(180),HARDT-6020-PPB(180),CA-6020T-PPB(180),K-6020T-PPB(180),PB-6020T-PPB(180),FE-6020T-PPB(180),MG-6020T-PPB(180),NA-6020T-PPB(180),MN-6020T-PPB(180)
L1744593-09E	Plastic 500ml H2SO4 preserved	A1	<2	<2	2.6	Y	Absent		TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1744593-09F	Amber 500ml H2SO4 preserved	A1	<2	<2	2.6	Y	Absent		NY-TPHENOL-420(28)
L1744593-09G	Plastic 950ml unpreserved	A1	7	7	2.6	Y	Absent		SO4-300(28),CL-300(28),BOD-5210(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1744593-10A	Vial H2SO4 preserved	B1	NA		3.1	Y	Absent		TOC-5310(28)
L1744593-10B	Vial H2SO4 preserved	B1	NA		3.1	Y	Absent		TOC-5310(28)
L1744593-10C	Plastic 120ml unpreserved/No Headspace	B1	NA		3.1	Y	Absent		ALK-T-2320(14)
L1744593-10D	Plastic 250ml HNO3 preserved	B1	<2	<2	3.1	Y	Absent		CD-6020T-PPB(180),HARDT-6020-PPB(180),CA-6020T-PPB(180),K-6020T-PPB(180),PB-6020T-PPB(180),FE-6020T-PPB(180),MG-6020T-PPB(180),NA-6020T-PPB(180),MN-6020T-PPB(180)
L1744593-10E	Plastic 500ml H2SO4 preserved	B1	<2	<2	3.1	Y	Absent		TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1744593-10F	Amber 500ml H2SO4 preserved	B1	<2	<2	3.1	Y	Absent		NY-TPHENOL-420(28)
L1744593-10G	Plastic 950ml unpreserved	B1	7	7	3.1	Y	Absent		SO4-300(28),CL-300(28),BOD-5210(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1744593-11A	Vial H2SO4 preserved	B1	NA		3.1	Y	Absent		TOC-5310(28)
L1744593-11B	Vial H2SO4 preserved	B1	NA		3.1	Y	Absent		TOC-5310(28)
L1744593-11C	Plastic 120ml unpreserved/No Headspace	B1	NA		3.1	Y	Absent		ALK-T-2320(14)
L1744593-11D	Plastic 250ml HNO3 preserved	B1	<2	<2	3.1	Y	Absent		CD-6020T-PPB(180),HARDT-6020-PPB(180),CA-6020T-PPB(180),K-6020T-PPB(180),PB-6020T-PPB(180),FE-6020T-PPB(180),MG-6020T-PPB(180),NA-6020T-PPB(180),MN-6020T-PPB(180)
L1744593-11E	Plastic 500ml H2SO4 preserved	B1	<2	<2	3.1	Y	Absent		TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1744593-11F	Amber 500ml H2SO4 preserved	B1	<2	<2	3.1	Y	Absent		NY-TPHENOL-420(28)
L1744593-11G	Plastic 950ml unpreserved	B1	7	7	3.1	Y	Absent		SO4-300(28),CL-300(28),BOD-5210(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1744593-12A	Vial H2SO4 preserved	B1	NA		3.1	Y	Absent		TOC-5310(28)
L1744593-12B	Vial H2SO4 preserved	B1	NA		3.1	Y	Absent		TOC-5310(28)
L1744593-12C	Plastic 120ml unpreserved/No Headspace	B1	NA		3.1	Y	Absent		ALK-T-2320(14)

*Values in parentheses indicate holding time in days

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Report Date: 12/15/17

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1744593-12D	Plastic 250ml HNO3 preserved	B1	<2	<2	3.1	Y	Absent		CD-6020T-PPB(180),HARDT-6020-PPB(180),CA-6020T-PPB(180),K-6020T-PPB(180),PB-6020T-PPB(180),FE-6020T-PPB(180),MG-6020T-PPB(180),NA-6020T-PPB(180),MN-6020T-PPB(180)
L1744593-12E	Plastic 500ml H2SO4 preserved	B1	<2	<2	3.1	Y	Absent		TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1744593-12F	Amber 500ml H2SO4 preserved	B1	<2	<2	3.1	Y	Absent		NY-TPHENOL-420(28)
L1744593-12G	Plastic 950ml unpreserved	B1	7	7	3.1	Y	Absent		SO4-300(28),CL-300(28),BOD-5210(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1744593-13A	Vial H2SO4 preserved	B1	NA		3.1	Y	Absent		TOC-5310(28)
L1744593-13B	Vial H2SO4 preserved	B1	NA		3.1	Y	Absent		TOC-5310(28)
L1744593-13C	Plastic 120ml unpreserved/No Headspace	B1	NA		3.1	Y	Absent		ALK-T-2320(14)
L1744593-13D	Plastic 250ml HNO3 preserved	B1	<2	<2	3.1	Y	Absent		CD-6020T-PPB(180),HARDT-6020-PPB(180),CA-6020T-PPB(180),K-6020T-PPB(180),PB-6020T-PPB(180),FE-6020T-PPB(180),MG-6020T-PPB(180),NA-6020T-PPB(180),MN-6020T-PPB(180)
L1744593-13E	Plastic 500ml H2SO4 preserved	B1	<2	<2	3.1	Y	Absent		TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1744593-13F	Amber 500ml H2SO4 preserved	B1	<2	<2	3.1	Y	Absent		NY-TPHENOL-420(28)
L1744593-13G	Plastic 950ml unpreserved	B1	7	7	3.1	Y	Absent		SO4-300(28),CL-300(28),BOD-5210(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1744593-14A	Vial H2SO4 preserved	A2	NA		3.2	Y	Absent		TOC-5310(28)
L1744593-14B	Vial H2SO4 preserved	A2	NA		3.2	Y	Absent		TOC-5310(28)
L1744593-14C	Plastic 120ml unpreserved/No Headspace	A2	NA		3.2	Y	Absent		ALK-T-2320(14)
L1744593-14D	Plastic 250ml HNO3 preserved	A2	<2	<2	3.2	Y	Absent		CD-6020T-PPB(180),HARDT-6020-PPB(180),CA-6020T-PPB(180),K-6020T-PPB(180),PB-6020T-PPB(180),FE-6020T-PPB(180),MG-6020T-PPB(180),NA-6020T-PPB(180),MN-6020T-PPB(180)
L1744593-14E	Plastic 500ml H2SO4 preserved	A2	<2	<2	3.2	Y	Absent		TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1744593-14F	Amber 1000ml H2SO4 preserved	A2	<2	<2	3.2	Y	Absent		NY-TPHENOL-420(28)
L1744593-14G	Plastic 950ml unpreserved	A2	7	7	3.2	Y	Absent		SO4-300(28),CL-300(28),BOD-5210(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1744593-15A	Vial H2SO4 preserved	A2	NA		3.2	Y	Absent		TOC-5310(28)
L1744593-15B	Vial H2SO4 preserved	A2	NA		3.2	Y	Absent		TOC-5310(28)
L1744593-15C	Plastic 120ml unpreserved/No Headspace	A2	NA		3.2	Y	Absent		ALK-T-2320(14)

*Values in parentheses indicate holding time in days

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017

Lab Number: L1744593
Report Date: 12/15/17

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1744593-15D	Plastic 250ml HNO3 preserved	A2	6	4	3.2	N	Absent		CD-6020T-PPB(180),HARDT-6020-PPB(180),CA-6020T-PPB(180),K-6020T-PPB(180),PB-6020T-PPB(180),FE-6020T-PPB(180),MG-6020T-PPB(180),NA-6020T-PPB(180),MN-6020T-PPB(180)
L1744593-15E	Plastic 500ml H2SO4 preserved	A2	6	<2	3.2	N	Absent		TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1744593-15F	Amber 1000ml H2SO4 preserved	A2	6	<2	3.2	N	Absent		NY-TPHENOL-420(28)
L1744593-15G	Plastic 950ml unpreserved	A2	7	7	3.2	Y	Absent		SO4-300(28),CL-300(28),BOD-5210(2),BR-300(28),NO3-353(2),TDS-2540(7)

*Values in parentheses indicate holding time in days

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GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

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Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

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REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

4 Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.

44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

ALPHA

NEW YORK CHAIN OF CUSTODY

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193
Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 12/6/17

ALPHA Job #: L1744593

Client Information
Client: ARCADIS
Address: 855 Route 146, Suite 210
Clifton Park, NY 12065
Phone: 518-250-7327
Fax: 518-250-7301
Email: Danielle.giroux@arcadis-us.com

Project Information
Project Name: Colonie Landfill Area 5 - Routine
Project Location:
Project #
(Use Project name as Project #) ☐
Project Manager: Candace Fox
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days

Deliverables
☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☑ Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities
Disposal Facility:
☐ NJ ☐ NY
☐ Other: N/A

These samples have been previously analyzed by Alpha: ☒
Other project specific requirements/comments:
Routine Metals List: "Wet Chem: BOD,TDS,Br,Cl,SO4,NO3"
Please specify Metals or TAL:

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date (2017)	Collection Time	Sample Matrix	Sampler's Initials	*Wet Chem*	Phenols	NH3,TKN,COD	T-Metals	Alk (no headspace)	TOC			Sample Specific Comments	
1593-01	MPI-3	12-5	1320	Water	JS	X	X	X	X	X	X			Routine Pass	7
				Water		X	X	X	X	X	X				7
02	MPI-2	12-5	1400	Water		X	X	X	X	X	X				7
				Water		X	X	X	X	X	X				7
03	MPI-4S	12-5	1515	Water		X	X	X	X	X	X				7
				Water		X	X	X	X	X	X				7
				Water		X	X	X	X	X	X				7
				Water		X	X	X	X	X	X				7
				Water		X	X	X	X	X	X				7
				Water		X	X	X	X	X	X				7
Container Type						P	A	P	P	P	V				
Preservative						A	D	D	C	A	D				

Preservative Code: A = None; B = HCl; C = HNO3; D = H2SO4; E = NaOH; F = MeOH; G = NaHSO4; H = Na2S2O3; K/E = Zn Ac/NaOH; O = Other

Container Code: P = Plastic; A = Amber Glass; V = Vial; G = Glass; B = Bacteria Cup; C = Cube; O = Other; E = Encore; D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
Jim Scott SEM	12/5/17 1600	from AAL	12/5/17 1600
from AAL	12/5/17 1600		

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.

Form No: 01-25 (rev. 30-Sept-2013)

ALPHA

Westborough, MA 01581
8 Walkup Dr.
TEL 508-898-9220
FAX 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL 508-822-9300
FAX 508-822-3288

NEW YORK CHAIN OF CUSTODY

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 12/7/17

ALPHA Job #: L1744598

Client Information

Client: ARCADIS
Address: 855 Route 146, Suite 210
Clifton Park, NY 12065
Phone: 518-250-7327
Fax: 518-250-7301
Email: Danielle.giroux@arcadis-us.com

Project Information

Project Name: Colonie Landfill Area 5 - Routine
Project Location:
Project #:
(Use Project name as Project #) ☐
Project Manager: Candace Fox
ALPHAQuote #:

Turn-Around Time

Standard ☐ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information

☑ Same as Client info
PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other NA

These samples have been previously analyzed by Alpha [X]

Other project specific requirements/comments:

Routine Metals List *Wet Chem: BOD,TDS,Br,Cl,SO4,NO3*

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	*Wet Chem*	Phenols	NH3,TKN,COD	T-Metals	Alk (no headspace)	TOC			Sample Specific Comments	
				Water		X	X	X	X	X	X			Routine P	7
L1744598-04	MPI-4	12/6	1100	Water	JS	X	X	X	X	X	X				7
				Water		X	X	X	X	X	X				7
-05	CTM-2	12/6	1145	Water	JS	X	X	X	X	X	X				7
				Water		X	X	X	X	X	X				7
				Water		X	X	X	X	X	X				7
				Water		X	X	X	X	X	X				7
				Water		X	X	X	X	X	X				7
				Water		X	X	X	X	X	X				7
				Water		X	X	X	X	X	X				7
				Water		X	X	X	X	X	X				7
				Container Type		P	A	P	P	P	V				
				Preservative		A	D	D	C	A	D				

Preservative Code: A = None, B = HCl, C = HNO_3, D = H_2SO_4, E = NaOH, F = MeOH, G = $NaHSO_4$, H = $Na_2S_2O_3$, K/E = Zn Ac/NaOH, O = Other

Container Code: P = Plastic, A = Amber Glass, V = Vial, G = Glass, B = Bacteria Cup, C = Cube, O = Other, E = Encore, D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
Gina Sciera/SEM	12/6/17 1515	[illegible]	12/6/17 16:00
[illegible]	12/6/17 1700	[illegible]	12/7/17 0225

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Form No: 01-25 (rev. 30-Sept-2013)

ALPHA

NEW YORK CHAIN OF CUSTODY

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FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 12/8/17

ALPHA Job #: L1744593

Client Information

Client: Arcadis U.S. Inc.
Address: 855 Rt. 146
Clifton Park, N.Y.
Phone: 518-250-7325
Fax:
Email: danielle.giroux@arcadis-us.com

Project Information

Project Name:
Project Location: Colonie Landfill Area 5
Project #
(Use Project name as Project #) ☑
Project Manager:
ALPHAQuote #:

Turn-Around Time

Standard ☑ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☑ Other

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☑ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information

☑ Same as Client Info
PO #

Disposal Site Information

Please identify below location of applicable disposal facilities
Disposal Facility:
☐ NJ ☐ NY
☐ Other: NA

These samples have been previously analyzed by Alpha ☒

Other project specific requirements/comments:
*Metals (Cd,Ca,Fe,Pb,Mg,Mn,K,Na)

Please specify Metals or TAL.

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date (2017)	Collection Time	Sample Matrix	Sampler's Initials	Total Hg, Total Metals	Cl,Br,SO4,TDS,NO3,BOD	HEXCR, COLOR	Alkalinity No Headspace	Total Phenol	COD,NH3,TKN	TOC	NYTCL-8260	Sample Specific Comments
L1744593A01	MW-3	12/7	1100	GW	JS									Routine Full
02	MPI-1S		1140											
03	MPI-1D		1200											
04	Duplicate Area 5		1000											
05	S.L. D/E		1230	AQ										
06	S.L.-A		1315											
07	S.L.-B		1330											
08	S.L.-C		1400											

Container Type: P P P P A P V V
Preservative: C A A A D D D B

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
KI = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
Jim Serna / SEM	12/7/16 1500	[illegible]	12/7/16 1500
[illegible]	12/7/16 1620	[illegible]	12/8/17 0815

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.

Form No. 01-25 (rev. 30-Sept-2013)

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Service Centers
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Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 12/9/17

ALPHA Job #: L1744593

Client Information

Client: Arcadis U.S. Inc.
Address: 855 Rt. 146
Clifton Park, N.Y.
Phone: 518-250-7325
Fax:
Email: danielle.giroux@arcadis-us.com

Project Information

Project Name:
Project Location: Colonie Landfill Area 5
Project #
(Use Project name as Project #) ✓
Project Manager:
ALPHAQuote #

Turn-Around Time

Standard ✓ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☑ Other

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☑ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information

☑ Same as Client Info
PO #

Disposal Site Information

Please identify below location of applicable disposal facilities

Disposal Facility:
☐ NJ ☐ NY
☐ Other: N/A

These samples have been previously analyzed by Alpha ☒

Other project specific requirements/comments:

*Metals (Cd,Ca,Fe,Pb,Mg,Mn,K,Na)

X Analyses are for Routine P - NOT Baseline

Please specify Metals or TAL

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TAL Metals,Hardness	CN-S,Cl,Br,SO4,NO3 Calc	Alkalinity	BOD5/TDS	Total Phenol	COD,NH3,TKN	TOC	Cyanide	Sample Specific Comments
44593-14	PPRS Cell D	12/8/17	1100	AQ	JS	X	X	X	X	X	X	X		Routine Pass
-15	Lagoon	↓	1400	↓	JS	X	X	X	X	X	X	X		↓

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code:
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	P	P	P	P	A	P	V	P
Preservative	C	A	A	A	D	D	D	E

Relinquished By:	Date/Time	Received By:	Date/Time
JM Sewell SEM	12/8/17 1600	[illegible]	12/8/17 1100
[illegible]	12/8/17 1650	[illegible]	12/9/17 0840

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.

Form No. 01-25 (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L1734914
Client:	Arcadis U.S, Inc. 855 Route 146, Suite 210 Clifton Park, NY 12065
ATTN:	Danielle Giroux
Phone:	(518) 250-7325
Project Name:	COLONIE LF AREA 5-ROUTINE
Project Number:	22396002.2017
Report Date:	12/14/17

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017

Lab Number: L1734914
Report Date: 12/14/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1734914-01	MPI-1S	WATER	TOWN OF COLONIE, NY	09/28/17 11:30	09/28/17
L1734914-02	MPI-1D	WATER	TOWN OF COLONIE, NY	09/28/17 11:45	09/28/17
L1734914-03	PPRS CELL D	WATER	TOWN OF COLONIE, NY	09/28/17 11:00	09/28/17
L1734914-04	DUPLICATE	WATER	TOWN OF COLONIE, NY	09/28/17 10:30	09/28/17
L1734914-05	SIL.-A	WATER	TOWN OF COLONIE, NY	09/29/17 12:00	09/29/17
L1734914-06	SIL.-B	WATER	TOWN OF COLONIE, NY	09/29/17 12:20	09/29/17
L1734914-07	SIL.-C	WATER	TOWN OF COLONIE, NY	09/29/17 12:30	09/29/17
L1734914-08	SIL.-D/E	WATER	TOWN OF COLONIE, NY	09/29/17 13:00	09/29/17
L1734914-09	MW-3	WATER	TOWN OF COLONIE, NY	09/29/17 11:00	09/29/17
L1734914-10	LAGOON	WATER	TOWN OF COLONIE, NY	09/29/17 15:30	09/29/17

Project Name:	COLONIE LF AREA 5-ROUTINE	**Lab Number:**	L1734914
Project Number:	22396002.2017	**Report Date:**	12/14/17

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	COLONIE LF AREA 5-ROUTINE	**Lab Number:**	L1734914
Project Number:	22396002.2017	**Report Date:**	12/14/17

Case Narrative (continued)

Report Revision

December 14, 2017: The metals units of measurment has been amended to report in PPB.

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

The project number was specified by the client.

L1734914-10: The sample was received above the appropriate pH for the Metals analysis. The laboratory added additional HNO3 to a pH <2.

L1734914-10: The sample was received above the appropriate pH for the Ammonia, Total Kjeldahl Nitrogen, Chemical Oxygen Demand and Total Phenolics analysis. The laboratory added additional H2SO4 to a pH <2.

Total Metals

L1734914-10: The sample has elevated detection limits for all elements by method 6020A due to the dilution required by the high concentrations of target and non-target elements.

The WG1049243-3 MS recovery for sodium (20%), performed on L1734914-05, does not apply because the sample concentration is greater than four times the spike amount added.

The WG1049245-3 MS recovery for calcium (70%), performed on L1734914-05, does not apply because the sample concentration is greater than four times the spike amount added.

Nitrogen, Ammonia

L1734914-01: The sample has an elevated detection limit due to limited sample volume available for analysis.

The WG1049481-4 MS recovery (88%), performed on L1734914-07, is outside the acceptance criteria; however, the associated LCS recovery is within criteria. No further action was taken.

Nitrogen, Nitrate

Project Name:	COLONIE LF AREA 5-ROUTINE	**Lab Number:**	L1734914
Project Number:	22396002.2017	**Report Date:**	12/14/17

Case Narrative (continued)

L1734914-10: The sample has an elevated detection limit due to the dilution required by the sample matrix.

Chemical Oxygen Demand

The WG1048079-3 MS recovery (111%), performed on L1734914-02, is outside the acceptance criteria; however, the associated LCS recovery is within criteria. No further action was taken.

Anions by Ion Chromatography

The WG1049009-3 MS recoveries, performed on L1734914-07, are outside the acceptance criteria for chloride (88%) and bromide (274%); however, the associated LCS recoveries are within criteria. No further action was taken.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kara Soroko

Title: Technical Director/Representative Date: 12/14/17

METALS

Project Name:	COLONIE LF AREA 5-ROUTINE	**Lab Number:**	L1734914
Project Number:	22396002.2017	**Report Date:**	12/14/17

SAMPLE RESULTS

Lab ID:	L1734914-01	Date Collected:	09/28/17 11:30
Client ID:	MPI-1S	Date Received:	09/28/17
Sample Location:	TOWN OF COLONIE, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Cadmium, Total	0.0798	J	ug/l	0.2000	0.0599	1	10/04/17 18:50	10/05/17 14:47	EPA 3005A	1,6020A	AM
Calcium, Total	190000		ug/l	100	35.0	1	10/04/17 18:50	10/05/17 20:27	EPA 3005A	1,6010C	AB
Iron, Total	3580		ug/l	50.0	19.1	1	10/04/17 18:50	10/05/17 14:47	EPA 3005A	1,6020A	AM
Lead, Total	1.304		ug/l	1.000	0.3430	1	10/04/17 18:50	10/05/17 14:47	EPA 3005A	1,6020A	AM
Magnesium, Total	57400		ug/l	100	15.3	1	10/04/17 18:50	10/05/17 20:27	EPA 3005A	1,6010C	AB
Manganese, Total	422.6		ug/l	1.000	0.4400	1	10/04/17 18:50	10/05/17 14:47	EPA 3005A	1,6020A	AM
Potassium, Total	1800		ug/l	100.	30.9	1	10/04/17 18:50	10/05/17 14:47	EPA 3005A	1,6020A	AM
Sodium, Total	127000		ug/l	100.	29.3	1	10/04/17 18:50	10/05/17 14:47	EPA 3005A	1,6020A	AM
Total Hardness by SM 2340B - Mansfield Lab											
Hardness	710000		ug/l	660	NA	1	10/04/17 18:50	10/05/17 20:27	EPA 3005A	1,6010C	AB

Project Name:	COLONIE LF AREA 5-ROUTINE	**Lab Number:**	L1734914
Project Number:	22396002.2017	**Report Date:**	12/14/17

SAMPLE RESULTS

Lab ID:	L1734914-02	Date Collected:	09/28/17 11:45
Client ID:	MPI-1D	Date Received:	09/28/17
Sample Location:	TOWN OF COLONIE, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Cadmium, Total	ND		ug/l	0.2000	0.0599	1	10/04/17 18:50	10/05/17 14:51	EPA 3005A	1,6020A	AM
Calcium, Total	147000		ug/l	100	35.0	1	10/04/17 18:50	10/05/17 20:32	EPA 3005A	1,6010C	AB
Iron, Total	2580		ug/l	50.0	19.1	1	10/04/17 18:50	10/05/17 14:51	EPA 3005A	1,6020A	AM
Lead, Total	ND		ug/l	1.000	0.3430	1	10/04/17 18:50	10/05/17 14:51	EPA 3005A	1,6020A	AM
Magnesium, Total	23800		ug/l	100	15.3	1	10/04/17 18:50	10/05/17 20:32	EPA 3005A	1,6010C	AB
Manganese, Total	268.2		ug/l	1.000	0.4400	1	10/04/17 18:50	10/05/17 14:51	EPA 3005A	1,6020A	AM
Potassium, Total	2470		ug/l	100.	30.9	1	10/04/17 18:50	10/05/17 14:51	EPA 3005A	1,6020A	AM
Sodium, Total	43000		ug/l	100.	29.3	1	10/04/17 18:50	10/05/17 14:51	EPA 3005A	1,6020A	AM
Total Hardness by SM 2340B - Mansfield Lab											
Hardness	465000		ug/l	660	NA	1	10/04/17 18:50	10/05/17 20:32	EPA 3005A	1,6010C	AB

Project Name:	COLONIE LF AREA 5-ROUTINE	**Lab Number:**	L1734914
Project Number:	22396002.2017	**Report Date:**	12/14/17

SAMPLE RESULTS

Lab ID:	L1734914-03	Date Collected:	09/28/17 11:00
Client ID:	PPRS CELL D	Date Received:	09/28/17
Sample Location:	TOWN OF COLONIE, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Cadmium, Total	ND		ug/l	0.2000	0.0599	1	10/04/17 18:50	10/05/17 14:55	EPA 3005A	1,6020A	AM
Calcium, Total	230000		ug/l	100	35.0	1	10/04/17 18:50	10/05/17 20:37	EPA 3005A	1,6010C	AB
Iron, Total	6300		ug/l	50.0	19.1	1	10/04/17 18:50	10/05/17 14:55	EPA 3005A	1,6020A	AM
Lead, Total	ND		ug/l	1.000	0.3430	1	10/04/17 18:50	10/05/17 14:55	EPA 3005A	1,6020A	AM
Magnesium, Total	103000		ug/l	100	15.3	1	10/04/17 18:50	10/05/17 20:37	EPA 3005A	1,6010C	AB
Manganese, Total	1911.		ug/l	1.000	0.4400	1	10/04/17 18:50	10/05/17 14:55	EPA 3005A	1,6020A	AM
Potassium, Total	15400		ug/l	100.	30.9	1	10/04/17 18:50	10/05/17 14:55	EPA 3005A	1,6020A	AM
Sodium, Total	153000		ug/l	100.	29.3	1	10/04/17 18:50	10/05/17 14:55	EPA 3005A	1,6020A	AM
Total Hardness by SM 2340B - Mansfield Lab											
Hardness	996000		ug/l	660	NA	1	10/04/17 18:50	10/05/17 20:37	EPA 3005A	1,6010C	AB

Project Name:	COLONIE LF AREA 5-ROUTINE	**Lab Number:**	L1734914
Project Number:	22396002.2017	**Report Date:**	12/14/17

SAMPLE RESULTS

Lab ID:	L1734914-04	Date Collected:	09/28/17 10:30
Client ID:	DUPLICATE	Date Received:	09/28/17
Sample Location:	TOWN OF COLONIE, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Cadmium, Total	ND		ug/l	0.2000	0.0599	1	10/04/17 18:50	10/05/17 13:14	EPA 3005A	1,6020A	AM
Calcium, Total	224000		ug/l	100	35.0	1	10/04/17 18:50	10/05/17 20:42	EPA 3005A	1,6010C	AB
Iron, Total	7190		ug/l	50.0	19.1	1	10/04/17 18:50	10/05/17 13:14	EPA 3005A	1,6020A	AM
Lead, Total	ND		ug/l	1.000	0.3430	1	10/04/17 18:50	10/05/17 13:14	EPA 3005A	1,6020A	AM
Magnesium, Total	100000		ug/l	100	15.3	1	10/04/17 18:50	10/05/17 20:42	EPA 3005A	1,6010C	AB
Manganese, Total	1887.		ug/l	1.000	0.4400	1	10/04/17 18:50	10/05/17 13:14	EPA 3005A	1,6020A	AM
Potassium, Total	14900		ug/l	100.	30.9	1	10/04/17 18:50	10/05/17 13:14	EPA 3005A	1,6020A	AM
Sodium, Total	146000		ug/l	100.	29.3	1	10/04/17 18:50	10/05/17 13:14	EPA 3005A	1,6020A	AM
Total Hardness by SM 2340B - Mansfield Lab											
Hardness	972000		ug/l	660	NA	1	10/04/17 18:50	10/05/17 20:42	EPA 3005A	1,6010C	AB

Project Name:	COLONIE LF AREA 5-ROUTINE	**Lab Number:**	L1734914
Project Number:	22396002.2017	**Report Date:**	12/14/17

SAMPLE RESULTS

Lab ID:	L1734914-05	Date Collected:	09/29/17 12:00
Client ID:	SIL.-A	Date Received:	09/29/17
Sample Location:	TOWN OF COLONIE, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Cadmium, Total	ND		ug/l	0.2000	0.0599	1	10/05/17 12:00	10/06/17 09:36	EPA 3005A	1,6020A	AM
Calcium, Total	146000		ug/l	100	35.0	1	10/05/17 12:00	10/06/17 11:11	EPA 3005A	1,6010C	LC
Iron, Total	11000		ug/l	50.0	19.1	1	10/05/17 12:00	10/06/17 09:36	EPA 3005A	1,6020A	AM
Lead, Total	0.3935	J	ug/l	1.000	0.3430	1	10/05/17 12:00	10/06/17 09:36	EPA 3005A	1,6020A	AM
Magnesium, Total	66300		ug/l	100	15.3	1	10/05/17 12:00	10/06/17 11:11	EPA 3005A	1,6010C	LC
Manganese, Total	250.4		ug/l	1.000	0.4400	1	10/05/17 12:00	10/06/17 09:36	EPA 3005A	1,6020A	AM
Potassium, Total	3070		ug/l	100.	30.9	1	10/05/17 12:00	10/06/17 09:36	EPA 3005A	1,6020A	AM
Sodium, Total	278000		ug/l	100.	29.3	1	10/05/17 12:00	10/06/17 09:36	EPA 3005A	1,6020A	AM
Total Hardness by SM 2340B - Mansfield Lab											
Hardness	638000		ug/l	660	NA	1	10/05/17 12:00	10/06/17 11:11	EPA 3005A	1,6010C	LC

Project Name:	COLONIE LF AREA 5-ROUTINE	**Lab Number:**	L1734914
Project Number:	22396002.2017	**Report Date:**	12/14/17

SAMPLE RESULTS

Lab ID:	L1734914-06	Date Collected:	09/29/17 12:20
Client ID:	SIL.-B	Date Received:	09/29/17
Sample Location:	TOWN OF COLONIE, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Cadmium, Total	ND		ug/l	0.2000	0.0599	1	10/05/17 12:00	10/06/17 09:40	EPA 3005A	1,6020A	AM
Calcium, Total	157000		ug/l	100	35.0	1	10/05/17 12:00	10/06/17 11:30	EPA 3005A	1,6010C	LC
Iron, Total	27100		ug/l	50.0	19.1	1	10/05/17 12:00	10/06/17 09:40	EPA 3005A	1,6020A	AM
Lead, Total	ND		ug/l	1.000	0.3430	1	10/05/17 12:00	10/06/17 09:40	EPA 3005A	1,6020A	AM
Magnesium, Total	67200		ug/l	100	15.3	1	10/05/17 12:00	10/06/17 11:30	EPA 3005A	1,6010C	LC
Manganese, Total	336.1		ug/l	1.000	0.4400	1	10/05/17 12:00	10/06/17 09:40	EPA 3005A	1,6020A	AM
Potassium, Total	17800		ug/l	100.	30.9	1	10/05/17 12:00	10/06/17 09:40	EPA 3005A	1,6020A	AM
Sodium, Total	424000		ug/l	100.	29.3	1	10/05/17 12:00	10/06/17 09:40	EPA 3005A	1,6020A	AM
Total Hardness by SM 2340B - Mansfield Lab											
Hardness	669000		ug/l	660	NA	1	10/05/17 12:00	10/06/17 11:30	EPA 3005A	1,6010C	LC

Project Name:	COLONIE LF AREA 5-ROUTINE	**Lab Number:**	L1734914
Project Number:	22396002.2017	**Report Date:**	12/14/17

SAMPLE RESULTS

Lab ID:	L1734914-07	Date Collected:	09/29/17 12:30
Client ID:	SIL.-C	Date Received:	09/29/17
Sample Location:	TOWN OF COLONIE, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Cadmium, Total	ND		ug/l	0.2000	0.0599	1	10/05/17 12:00	10/06/17 09:44	EPA 3005A	1,6020A	AM
Calcium, Total	144000		ug/l	100	35.0	1	10/05/17 12:00	10/06/17 11:35	EPA 3005A	1,6010C	LC
Iron, Total	6710		ug/l	50.0	19.1	1	10/05/17 12:00	10/06/17 09:44	EPA 3005A	1,6020A	AM
Lead, Total	ND		ug/l	1.000	0.3430	1	10/05/17 12:00	10/06/17 09:44	EPA 3005A	1,6020A	AM
Magnesium, Total	49000		ug/l	100	15.3	1	10/05/17 12:00	10/06/17 11:35	EPA 3005A	1,6010C	LC
Manganese, Total	406.4		ug/l	1.000	0.4400	1	10/05/17 12:00	10/06/17 09:44	EPA 3005A	1,6020A	AM
Potassium, Total	9040		ug/l	100.	30.9	1	10/05/17 12:00	10/06/17 09:44	EPA 3005A	1,6020A	AM
Sodium, Total	72800		ug/l	100.	29.3	1	10/05/17 12:00	10/06/17 09:44	EPA 3005A	1,6020A	AM
Total Hardness by SM 2340B - Mansfield Lab											
Hardness	560000		ug/l	660	NA	1	10/05/17 12:00	10/06/17 11:35	EPA 3005A	1,6010C	LC

Project Name:	COLONIE LF AREA 5-ROUTINE	**Lab Number:**	L1734914
Project Number:	22396002.2017	**Report Date:**	12/14/17

SAMPLE RESULTS

Lab ID:	L1734914-08	Date Collected:	09/29/17 13:00
Client ID:	SIL.-D/E	Date Received:	09/29/17
Sample Location:	TOWN OF COLONIE, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Cadmium, Total	ND		ug/l	0.2000	0.0599	1	10/05/17 12:00	10/06/17 09:48	EPA 3005A	1,6020A	AM
Calcium, Total	161000		ug/l	100	35.0	1	10/05/17 12:00	10/06/17 11:40	EPA 3005A	1,6010C	LC
Iron, Total	597.		ug/l	50.0	19.1	1	10/05/17 12:00	10/06/17 09:48	EPA 3005A	1,6020A	AM
Lead, Total	0.4309	J	ug/l	1.000	0.3430	1	10/05/17 12:00	10/06/17 09:48	EPA 3005A	1,6020A	AM
Magnesium, Total	59900		ug/l	100	15.3	1	10/05/17 12:00	10/06/17 11:40	EPA 3005A	1,6010C	LC
Manganese, Total	2405.		ug/l	1.000	0.4400	1	10/05/17 12:00	10/06/17 09:48	EPA 3005A	1,6020A	AM
Potassium, Total	6860		ug/l	100.	30.9	1	10/05/17 12:00	10/06/17 09:48	EPA 3005A	1,6020A	AM
Sodium, Total	48600		ug/l	100.	29.3	1	10/05/17 12:00	10/06/17 09:48	EPA 3005A	1,6020A	AM
Total Hardness by SM 2340B - Mansfield Lab											
Hardness	649000		ug/l	660	NA	1	10/05/17 12:00	10/06/17 11:40	EPA 3005A	1,6010C	LC

Project Name:	COLONIE LF AREA 5-ROUTINE	**Lab Number:**	L1734914
Project Number:	22396002.2017	**Report Date:**	12/14/17

SAMPLE RESULTS

Lab ID:	L1734914-09	Date Collected:	09/29/17 11:00
Client ID:	MW-3	Date Received:	09/29/17
Sample Location:	TOWN OF COLONIE, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Cadmium, Total	0.2853		ug/l	0.2000	0.0599	1	10/05/17 12:00	10/06/17 10:17	EPA 3005A	1,6020A	AM
Calcium, Total	219000		ug/l	100	35.0	1	10/05/17 12:00	10/06/17 11:59	EPA 3005A	1,6010C	LC
Iron, Total	200.		ug/l	50.0	19.1	1	10/05/17 12:00	10/06/17 10:17	EPA 3005A	1,6020A	AM
Lead, Total	ND		ug/l	1.000	0.3430	1	10/05/17 12:00	10/06/17 10:17	EPA 3005A	1,6020A	AM
Magnesium, Total	34100		ug/l	100	15.3	1	10/05/17 12:00	10/06/17 11:59	EPA 3005A	1,6010C	LC
Manganese, Total	3691.		ug/l	1.000	0.4400	1	10/05/17 12:00	10/06/17 10:17	EPA 3005A	1,6020A	AM
Potassium, Total	1110		ug/l	100.	30.9	1	10/05/17 12:00	10/06/17 10:17	EPA 3005A	1,6020A	AM
Sodium, Total	57400		ug/l	100.	29.3	1	10/05/17 12:00	10/06/17 10:17	EPA 3005A	1,6020A	AM
Total Hardness by SM 2340B - Mansfield Lab											
Hardness	688000		ug/l	660	NA	1	10/05/17 12:00	10/06/17 11:59	EPA 3005A	1,6010C	LC

Project Name:	COLONIE LF AREA 5-ROUTINE	**Lab Number:**	L1734914
Project Number:	22396002.2017	**Report Date:**	12/14/17

SAMPLE RESULTS

Lab ID:	L1734914-10	Date Collected:	09/29/17 15:30
Client ID:	LAGOON	Date Received:	09/29/17
Sample Location:	TOWN OF COLONIE, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Cadmium, Total	ND		ug/l	1.000	0.2995	5	10/05/17 12:00	10/06/17 10:22	EPA 3005A	1,6020A	AM
Calcium, Total	185000		ug/l	100	35.0	1	10/05/17 12:00	10/06/17 12:03	EPA 3005A	1,6010C	LC
Iron, Total	5910		ug/l	250.	95.5	5	10/05/17 12:00	10/06/17 10:22	EPA 3005A	1,6020A	AM
Lead, Total	2.116	J	ug/l	5.000	1.715	5	10/05/17 12:00	10/06/17 10:22	EPA 3005A	1,6020A	AM
Magnesium, Total	84400		ug/l	100	15.3	1	10/05/17 12:00	10/06/17 12:03	EPA 3005A	1,6010C	LC
Manganese, Total	1003.		ug/l	5.000	2.200	5	10/05/17 12:00	10/06/17 10:22	EPA 3005A	1,6020A	AM
Potassium, Total	521000		ug/l	500.	154.	5	10/05/17 12:00	10/06/17 10:22	EPA 3005A	1,6020A	AM
Sodium, Total	1810000		ug/l	500.	146.	5	10/05/17 12:00	10/06/17 10:22	EPA 3005A	1,6020A	AM
Total Hardness by SM 2340B - Mansfield Lab											
Hardness	809000		ug/l	660	NA	1	10/05/17 12:00	10/06/17 12:03	EPA 3005A	1,6010C	LC

Project Name: COLONIE LF AREA 5-ROUTINE **Lab Number:** L1734914

Project Number: 22396002.2017 **Report Date:** 12/14/17

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-04 Batch: WG1072386-1										
Cadmium, Total	ND		ug/l	0.2000	0.0599	1	10/04/17 18:50	10/05/17 13:37	1,6020A	AM
Iron, Total	ND		ug/l	50.0	19.1	1	10/04/17 18:50	10/05/17 13:37	1,6020A	AM
Lead, Total	ND		ug/l	1.000	0.3430	1	10/04/17 18:50	10/05/17 13:37	1,6020A	AM
Manganese, Total	ND		ug/l	1.000	0.4400	1	10/04/17 18:50	10/05/17 13:37	1,6020A	AM
Potassium, Total	ND		ug/l	100	30.9	1	10/04/17 18:50	10/05/17 13:37	1,6020A	AM
Sodium, Total	ND		ug/l	100	29.3	1	10/04/17 18:50	10/05/17 13:37	1,6020A	AM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-04 Batch: WG1072388-1										
Calcium, Total	ND		ug/l	100	35.0	1	10/04/17 18:50	10/05/17 17:23	1,6010C	PS
Magnesium, Total	ND		ug/l	100	15.3	1	10/04/17 18:50	10/05/17 17:23	1,6010C	PS

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Hardness by SM 2340B - Mansfield Lab for sample(s): 01-04 Batch: WG1072388-1										
Hardness	ND		ug/l	660	NA	1	10/04/17 18:50	10/05/17 17:23	1,6010C	PS

Prep Information

Digestion Method: EPA 3005A

Project Name: COLONIE LF AREA 5-ROUTINE **Lab Number:** L1734914

Project Number: 22396002.2017 **Report Date:** 12/14/17

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 05-10 Batch: WG1072392-1										
Cadmium, Total	ND		ug/l	0.2000	0.0599	1	10/05/17 12:00	10/06/17 09:16	1,6020A	AM
Iron, Total	ND		ug/l	50.0	19.1	1	10/05/17 12:00	10/06/17 09:16	1,6020A	AM
Lead, Total	ND		ug/l	1.000	0.3430	1	10/05/17 12:00	10/06/17 09:16	1,6020A	AM
Manganese, Total	ND		ug/l	1.000	0.4400	1	10/05/17 12:00	10/06/17 09:16	1,6020A	AM
Potassium, Total	ND		ug/l	100	30.9	1	10/05/17 12:00	10/06/17 09:16	1,6020A	AM
Sodium, Total	ND		ug/l	100	29.3	1	10/05/17 12:00	10/06/17 09:16	1,6020A	AM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 05-10 Batch: WG1072393-1										
Calcium, Total	ND		ug/l	100	35.0	1	10/05/17 12:00	10/06/17 11:01	1,6010C	LC
Magnesium, Total	ND		ug/l	100	15.3	1	10/05/17 12:00	10/06/17 11:01	1,6010C	LC

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Hardness by SM 2340B - Mansfield Lab for sample(s): 05-10 Batch: WG1072393-1										
Hardness	ND		ug/l	660	NA	1	10/05/17 12:00	10/06/17 11:01	1,6010C	LC

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis
Batch Quality Control

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017

Lab Number: L1734914
Report Date: 12/14/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04 Batch: WG1072386-2								
Cadmium, Total	108		-		80-120	-		
Iron, Total	113		-		80-120	-		
Lead, Total	105		-		80-120	-		
Manganese, Total	108		-		80-120	-		
Potassium, Total	110		-		80-120	-		
Sodium, Total	106		-		80-120	-		
Total Metals - Mansfield Lab Associated sample(s): 01-04 Batch: WG1072388-2								
Calcium, Total	101		-		80-120	-		
Magnesium, Total	105		-		80-120	-		
Total Hardness by SM 2340B - Mansfield Lab Associated sample(s): 01-04 Batch: WG1072388-2								
Hardness	104		-		80-120	-		
Total Metals - Mansfield Lab Associated sample(s): 05-10 Batch: WG1072392-2								
Cadmium, Total	106		-		80-120	-		
Iron, Total	109		-		80-120	-		
Lead, Total	102		-		80-120	-		
Manganese, Total	101		-		80-120	-		
Potassium, Total	101		-		80-120	-		
Sodium, Total	102		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: COLONIE LF AREA 5-ROUTINE

Project Number: 22396002.2017

Lab Number: L1734914

Report Date: 12/14/17

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 05-10 Batch: WG1072393-2					
Calcium, Total	104	-	80-120	-	
Magnesium, Total	107	-	80-120	-	
Total Hardness by SM 2340B - Mansfield Lab Associated sample(s): 05-10 Batch: WG1072393-2					
Hardness	106	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017

Lab Number: L1734914
Report Date: 12/14/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1072386-3 WG1072386-4 QC Sample: L1700012-86 Client ID: MS Sample												
Cadmium, Total	ND	51	54.50	107		54.82	107		75-125	1		20
Iron, Total	106.	1000	1220	111		1250	114		75-125	2		20
Lead, Total	0.4525J	510	529.3	104		525.0	103		75-125	1		20
Manganese, Total	16.23	500	555.8	108		553.8	108		75-125	0		20
Potassium, Total	1620	10000	12500	109		12400	108		75-125	1		20
Sodium, Total	67300	10000	75200	79		73600	**63**	Q	75-125	2		20
Total Metals - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1072388-3 WG1072388-4 QC Sample: L1700012-86 Client ID: MS Sample												
Calcium, Total	18800	10000	28500	97		28100	93		75-125	1		20
Magnesium, Total	32000	10000	42300	103		41600	96		75-125	2		20
Total Hardness by SM 2340B - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1072388-3 WG1072388-4 QC Sample: L1700012-86 Client ID: MS Sample												
Hardness	179000	66200	245000	100		242000	95		75-125	1		20
Total Metals - Mansfield Lab Associated sample(s): 05-10 QC Batch ID: WG1072392-3 QC Sample: L1734914-05 Client ID: SIL.-A												
Cadmium, Total	ND	51	55.23	108		-	-		75-125	-		20
Iron, Total	11000	1000	11900	90		-	-		75-125	-		20
Lead, Total	0.3935J	510	514.5	101		-	-		75-125	-		20
Manganese, Total	250.4	500	752.1	100		-	-		75-125	-		20
Potassium, Total	3070	10000	13000	99		-	-		75-125	-		20
Sodium, Total	278000	10000	280000	**20**	Q	-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017

Lab Number: L1734914
Report Date: 12/14/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 05-10 QC Batch ID: WG1072393-3 QC Sample: L1734914-05 Client ID: SIL.-A										
Calcium, Total	146000	10000	153000	**70**	Q	-	-	75-125	-	20
Magnesium, Total	66300	10000	74900	86		-	-	75-125	-	20
Total Hardness by SM 2340B - Mansfield Lab Associated sample(s): 05-10 QC Batch ID: WG1072393-3 QC Sample: L1734914-05 Client ID: SIL.-A										
Hardness	638000	66200	691000	80		-	-	75-125	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017

Lab Number: L1734914
Report Date: 12/14/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 05-10 QC Batch ID: WG1072392-4 QC Sample: L1734914-05 Client ID: SIL.-A						
Cadmium, Total	ND	ND	ug/l	NC		20
Iron, Total	11000	10900	ug/l	1		20
Lead, Total	0.3935J	0.3714J	ug/l	NC		20
Manganese, Total	250.4	241.6	ug/l	4		20
Potassium, Total	3070	2980	ug/l	3		20
Sodium, Total	278000	273000	ug/l	2		20
Total Metals - Mansfield Lab Associated sample(s): 05-10 QC Batch ID: WG1072393-4 QC Sample: L1734914-05 Client ID: SIL.-A						
Calcium, Total	146000	145000	ug/l	1		20
Magnesium, Total	66300	64900	ug/l	2		20
Total Hardness by SM 2340B - Mansfield Lab Associated sample(s): 05-10 QC Batch ID: WG1072393-4 QC Sample: L1734914-05 Client ID: SIL.-A						
Hardness	638000	628000	ug/l	2		20

INORGANICS
&
MISCELLANEOUS

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017

Lab Number: L1734914
Report Date: 12/14/17

SAMPLE RESULTS

Lab ID: L1734914-01
Client ID: MPI-1S
Sample Location: TOWN OF COLONIE, NY
Matrix: Water

Date Collected: 09/28/17 11:30
Date Received: 09/28/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	582.		mg CaCO3/L	2.00	NA	1	-	09/29/17 10:04	121,2320B	BR
Solids, Total Dissolved	1100		mg/l	10	3.1	1	-	10/04/17 12:30	121,2540C	DW
Nitrogen, Ammonia	0.156	J	mg/l	0.375	0.120	5	10/06/17 01:00	10/06/17 13:20	44,350.1	JO
Nitrogen, Nitrate	0.048	J	mg/l	0.10	0.033	1	-	09/29/17 20:15	44,353.2	MR
Nitrogen, Total Kjeldahl	0.927		mg/l	0.300	0.066	1	10/04/17 10:00	10/05/17 21:11	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	22.		mg/l	10	2.7	1	10/02/17 21:55	10/03/17 00:11	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	09/29/17 20:21	10/04/17 21:10	121,5210B	JC
Total Organic Carbon	2.83		mg/l	1.00	0.228	2	-	09/29/17 08:52	121,5310C	DW
Phenolics, Total	ND		mg/l	0.030	0.006	1	09/29/17 11:35	09/29/17 16:00	4,420.1	AW
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.509		mg/l	0.250	0.049	5	-	10/03/17 19:06	44,300.0	AU
Chloride	125.		mg/l	2.50	0.420	5	-	10/03/17 19:06	44,300.0	AU
Sulfate	264.		mg/l	5.00	0.800	5	-	10/03/17 19:06	44,300.0	AU

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017

Lab Number: L1734914
Report Date: 12/14/17

SAMPLE RESULTS

Lab ID: L1734914-02
Client ID: MPI-1D
Sample Location: TOWN OF COLONIE, NY
Matrix: Water

Date Collected: 09/28/17 11:45
Date Received: 09/28/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	360.		mg CaCO3/L	2.00	NA	1	-	09/29/17 10:04	121,2320B	BR
Solids, Total Dissolved	700		mg/l	10	3.1	1	-	10/04/17 12:30	121,2540C	DW
Nitrogen, Ammonia	0.126		mg/l	0.075	0.024	1	10/06/17 01:00	10/06/17 13:21	44,350.1	JO
Nitrogen, Nitrate	0.068	J	mg/l	0.10	0.033	1	-	09/29/17 20:16	44,353.2	MR
Nitrogen, Total Kjeldahl	0.424		mg/l	0.300	0.066	1	10/04/17 10:00	10/05/17 21:12	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	8.1	J	mg/l	10	2.7	1	10/02/17 21:55	10/03/17 00:11	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	09/29/17 20:21	10/04/17 21:10	121,5210B	JC
Total Organic Carbon	1.30		mg/l	1.00	0.228	2	-	09/29/17 08:52	121,5310C	DW
Phenolics, Total	ND		mg/l	0.030	0.006	1	09/29/17 11:35	09/29/17 16:39	4,420.1	AW
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.158		mg/l	0.100	0.019	2	-	10/03/17 19:18	44,300.0	AU
Chloride	55.4		mg/l	1.00	0.168	2	-	10/03/17 19:18	44,300.0	AU
Sulfate	152.		mg/l	2.00	0.320	2	-	10/03/17 19:18	44,300.0	AU

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017

Lab Number: L1734914
Report Date: 12/14/17

SAMPLE RESULTS

Lab ID: L1734914-03
Client ID: PPRS CELL D
Sample Location: TOWN OF COLONIE, NY
Matrix: Water

Date Collected: 09/28/17 11:00
Date Received: 09/28/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	868.		mg CaCO3/L	5.00	NA	2.5	-	09/29/17 10:04	121,2320B	BR
Solids, Total Dissolved	1500		mg/l	10	3.1	1	-	10/04/17 12:30	121,2540C	DW
Nitrogen, Ammonia	1.00		mg/l	0.375	0.120	5	10/06/17 01:00	10/06/17 13:45	44,350.1	JO
Nitrogen, Nitrate	ND		mg/l	0.10	0.033	1	-	09/29/17 20:18	44,353.2	MR
Nitrogen, Total Kjeldahl	1.59		mg/l	0.300	0.066	1	10/04/17 10:00	10/05/17 21:15	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	28.		mg/l	10	2.7	1	10/02/17 21:55	10/03/17 00:11	44,410.4	TL
BOD, 5 day	5.4		mg/l	2.0	NA	1	09/29/17 20:21	10/04/17 21:10	121,5210B	JC
Total Organic Carbon	7.88		mg/l	2.50	0.570	5	-	09/29/17 08:52	121,5310C	DW
Phenolics, Total	ND		mg/l	0.030	0.006	1	09/29/17 11:35	09/29/17 16:02	4,420.1	AW
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.530		mg/l	0.050	0.009	1	-	10/03/17 19:30	44,300.0	AU
Chloride	349.		mg/l	5.00	0.839	10	-	10/03/17 19:42	44,300.0	AU
Sulfate	19.6		mg/l	1.00	0.160	1	-	10/03/17 19:30	44,300.0	AU

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017

Lab Number: L1734914
Report Date: 12/14/17

SAMPLE RESULTS

Lab ID: L1734914-04
Client ID: DUPLICATE
Sample Location: TOWN OF COLONIE, NY
Matrix: Water

Date Collected: 09/28/17 10:30
Date Received: 09/28/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	885.		mg CaCO3/L	5.00	NA	2.5	-	09/29/17 10:04	121,2320B	BR
Solids, Total Dissolved	1500		mg/l	10	3.1	1	-	10/04/17 12:30	121,2540C	DW
Nitrogen, Ammonia	1.14		mg/l	0.075	0.024	1	10/06/17 01:00	10/06/17 13:46	44,350.1	JO
Nitrogen, Nitrate	ND		mg/l	0.10	0.033	1	-	09/29/17 20:19	44,353.2	MR
Nitrogen, Total Kjeldahl	1.54		mg/l	0.300	0.066	1	10/04/17 10:00	10/05/17 21:16	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	30.		mg/l	10	2.7	1	10/02/17 21:55	10/03/17 00:11	44,410.4	TL
BOD, 5 day	6.4		mg/l	2.0	NA	1	09/29/17 20:21	10/04/17 21:10	121,5210B	JC
Total Organic Carbon	7.76		mg/l	2.50	0.570	5	-	09/29/17 08:52	121,5310C	DW
Phenolics, Total	ND		mg/l	0.030	0.006	1	09/29/17 11:35	09/29/17 16:04	4,420.1	AW
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.540		mg/l	0.050	0.009	1	-	10/03/17 20:18	44,300.0	AU
Chloride	349.		mg/l	5.00	0.839	10	-	10/03/17 20:30	44,300.0	AU
Sulfate	19.0		mg/l	1.00	0.160	1	-	10/03/17 20:18	44,300.0	AU

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017

Lab Number: L1734914
Report Date: 12/14/17

SAMPLE RESULTS

Lab ID: L1734914-05
Client ID: SIL.-A
Sample Location: TOWN OF COLONIE, NY
Matrix: Water

Date Collected: 09/29/17 12:00
Date Received: 09/29/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	90		A.P.C.U.	50	50.	10	-	09/30/17 10:00	121,2120B	JT
Alkalinity, Total	439.		mg CaCO3/L	2.00	NA	1	-	10/03/17 09:59	121,2320B	BR
Solids, Total Dissolved	1600		mg/l	20	6.1	2	-	10/04/17 12:30	121,2540C	DW
Nitrogen, Ammonia	0.994		mg/l	0.075	0.024	1	10/06/17 01:00	10/06/17 13:47	44,350.1	JO
Nitrogen, Nitrate	0.13		mg/l	0.10	0.033	1	-	09/30/17 20:19	44,353.2	CW
Nitrogen, Total Kjeldahl	3.66		mg/l	0.300	0.066	1	10/04/17 10:00	10/05/17 21:17	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	230		mg/l	40	11.	4	10/02/17 21:55	10/03/17 00:11	44,410.4	TL
BOD, 5 day	14.		mg/l	10	NA	5	09/30/17 19:30	10/05/17 17:00	121,5210B	JC
Total Organic Carbon	69.7		mg/l	10.0	2.28	20	-	10/02/17 07:34	121,5310C	DW
Phenolics, Total	0.020	J	mg/l	0.030	0.006	1	10/02/17 17:07	10/02/17 22:05	4,420.1	AW
Chromium, Hexavalent	0.003	J	mg/l	0.010	0.003	1	09/30/17 09:00	09/30/17 09:27	1,7196A	JT
Anions by Ion Chromatography - Westborough Lab										
Bromide	2.16		mg/l	1.25	0.245	25	-	10/04/17 01:30	44,300.0	AU
Chloride	587.		mg/l	12.5	2.10	25	-	10/04/17 01:30	44,300.0	AU
Sulfate	5.38		mg/l	1.00	0.160	1	-	10/04/17 01:18	44,300.0	AU

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017

Lab Number: L1734914
Report Date: 12/14/17

SAMPLE RESULTS

Lab ID: L1734914-06
Client ID: SIL.-B
Sample Location: TOWN OF COLONIE, NY
Matrix: Water

Date Collected: 09/29/17 12:20
Date Received: 09/29/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	1100		A.P.C.U.	250	250	50	-	09/30/17 10:00	121,2120B	JT
Alkalinity, Total	640.		mg CaCO3/L	5.00	NA	2.5	-	10/03/17 09:59	121,2320B	BR
Solids, Total Dissolved	2200		mg/l	20	6.1	2	-	10/04/17 12:30	121,2540C	DW
Nitrogen, Ammonia	15.7		mg/l	0.150	0.048	2	10/06/17 01:00	10/06/17 13:49	44,350.1	JO
Nitrogen, Nitrate	0.26		mg/l	0.10	0.033	1	-	09/30/17 20:20	44,353.2	CW
Nitrogen, Total Kjeldahl	21.6		mg/l	3.00	0.660	10	10/04/17 10:00	10/05/17 21:18	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	420		mg/l	40	11.	4	10/02/17 21:55	10/03/17 00:11	44,410.4	TL
BOD, 5 day	31.		mg/l	10	NA	5	09/30/17 19:30	10/05/17 17:00	121,5210B	JC
Total Organic Carbon	133.		mg/l	10.0	2.28	20	-	10/02/17 07:34	121,5310C	DW
Phenolics, Total	0.11		mg/l	0.030	0.006	1	10/02/17 17:07	10/02/17 22:06	4,420.1	AW
Chromium, Hexavalent	0.005	J	mg/l	0.010	0.003	1	09/30/17 09:00	09/30/17 09:27	1,7196A	JT
Anions by Ion Chromatography - Westborough Lab										
Bromide	4.46		mg/l	1.25	0.245	25	-	10/04/17 01:54	44,300.0	AU
Chloride	751.		mg/l	12.5	2.10	25	-	10/04/17 01:54	44,300.0	AU
Sulfate	2.54		mg/l	1.00	0.160	1	-	10/04/17 01:42	44,300.0	AU

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017

Lab Number: L1734914
Report Date: 12/14/17

SAMPLE RESULTS

Lab ID: L1734914-07
Client ID: SIL.-C
Sample Location: TOWN OF COLONIE, NY
Matrix: Water

Date Collected: 09/29/17 12:30
Date Received: 09/29/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	110		A.P.C.U.	25	25.	5	-	09/30/17 10:00	121,2120B	JT
Alkalinity, Total	628.		mg CaCO3/L	5.00	NA	2.5	-	10/03/17 09:59	121,2320B	BR
Solids, Total Dissolved	840		mg/l	20	6.1	2	-	10/04/17 12:30	121,2540C	DW
Nitrogen, Ammonia	0.880		mg/l	0.075	0.024	1	10/06/17 01:00	10/06/17 13:50	44,350.1	JO
Nitrogen, Nitrate	0.13		mg/l	0.10	0.033	1	-	09/30/17 20:21	44,353.2	CW
Nitrogen, Total Kjeldahl	1.85		mg/l	0.300	0.066	1	10/04/17 10:00	10/05/17 21:19	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	53.		mg/l	10	2.7	1	10/02/17 21:55	10/03/17 00:12	44,410.4	TL
BOD, 5 day	6.4		mg/l	2.0	NA	1	09/30/17 19:30	10/05/17 17:00	121,5210B	JC
Total Organic Carbon	21.4		mg/l	5.00	1.14	10	-	10/02/17 07:34	121,5310C	DW
Phenolics, Total	ND		mg/l	0.030	0.006	1	10/02/17 17:07	10/02/17 22:07	4,420.1	AW
Chromium, Hexavalent	0.003	J	mg/l	0.010	0.003	1	09/30/17 09:00	09/30/17 09:27	1,7196A	JT
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.506		mg/l	0.250	0.049	5	-	10/03/17 21:54	44,300.0	AU
Chloride	87.8		mg/l	2.50	0.420	5	-	10/03/17 21:54	44,300.0	AU
Sulfate	30.1		mg/l	5.00	0.800	5	-	10/03/17 21:54	44,300.0	AU

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017

Lab Number: L1734914
Report Date: 12/14/17

SAMPLE RESULTS

Lab ID: L1734914-08
Client ID: SIL.-D/E
Sample Location: TOWN OF COLONIE, NY
Matrix: Water

Date Collected: 09/29/17 13:00
Date Received: 09/29/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	38		A.P.C.U.	5.0	5.0	1	-	09/30/17 10:00	121,2120B	JT
Alkalinity, Total	582.		mg CaCO3/L	2.00	NA	1	-	10/03/17 09:59	121,2320B	BR
Solids, Total Dissolved	960		mg/l	10	3.1	1	-	10/04/17 12:30	121,2540C	DW
Nitrogen, Ammonia	32.1		mg/l	0.300	0.096	4	10/06/17 01:00	10/06/17 13:52	44,350.1	JO
Nitrogen, Nitrate	12.		mg/l	0.50	0.16	5	-	09/30/17 20:54	44,353.2	CW
Nitrogen, Total Kjeldahl	34.4		mg/l	6.00	1.32	20	10/04/17 10:00	10/05/17 21:23	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	39.		mg/l	10	2.7	1	10/02/17 21:55	10/03/17 00:12	44,410.4	TL
BOD, 5 day	7.3		mg/l	2.0	NA	1	09/30/17 19:30	10/05/17 17:00	121,5210B	JC
Total Organic Carbon	9.74		mg/l	1.00	0.228	2	-	10/02/17 07:34	121,5310C	DW
Phenolics, Total	ND		mg/l	0.030	0.006	1	10/02/17 17:07	10/02/17 22:09	4,420.1	AW
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	09/30/17 09:00	09/30/17 09:28	1,7196A	JT
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.387		mg/l	0.050	0.009	1	-	10/04/17 00:54	44,300.0	AU
Chloride	65.2		mg/l	5.00	0.839	10	-	10/04/17 01:06	44,300.0	AU
Sulfate	235.		mg/l	10.0	1.60	10	-	10/04/17 01:06	44,300.0	AU

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017

Lab Number: L1734914
Report Date: 12/14/17

SAMPLE RESULTS

Lab ID: L1734914-09
Client ID: MW-3
Sample Location: TOWN OF COLONIE, NY
Matrix: Water

Date Collected: 09/29/17 11:00
Date Received: 09/29/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	17		A.P.C.U.	5.0	5.0	1	-	09/30/17 10:00	121,2120B	JT
Alkalinity, Total	487.		mg CaCO3/L	2.00	NA	1	-	10/03/17 09:59	121,2320B	BR
Solids, Total Dissolved	970		mg/l	10	3.1	1	-	10/04/17 12:30	121,2540C	DW
Nitrogen, Ammonia	0.307		mg/l	0.075	0.024	1	10/06/17 01:00	10/06/17 13:54	44,350.1	JO
Nitrogen, Nitrate	2.8		mg/l	0.10	0.033	1	-	09/30/17 21:00	44,353.2	CW
Nitrogen, Total Kjeldahl	0.698		mg/l	0.300	0.066	1	10/04/17 10:00	10/05/17 21:24	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	20.		mg/l	10	2.7	1	10/02/17 21:55	10/03/17 00:12	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	09/30/17 19:30	10/05/17 17:00	121,5210B	JC
Total Organic Carbon	4.29		mg/l	1.00	0.228	2	-	10/02/17 07:34	121,5310C	DW
Phenolics, Total	ND		mg/l	0.030	0.006	1	10/02/17 17:07	10/02/17 22:29	4,420.1	AW
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	09/30/17 09:00	09/30/17 09:28	1,7196A	JT
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.396		mg/l	0.250	0.049	5	-	10/04/17 00:06	44,300.0	AU
Chloride	112.		mg/l	2.50	0.420	5	-	10/04/17 00:06	44,300.0	AU
Sulfate	185.		mg/l	5.00	0.800	5	-	10/04/17 00:06	44,300.0	AU

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017

Lab Number: L1734914
Report Date: 12/14/17

SAMPLE RESULTS

Lab ID: L1734914-10
Client ID: LAGOON
Sample Location: TOWN OF COLONIE, NY
Matrix: Water

Date Collected: 09/29/17 15:30
Date Received: 09/29/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	2700		A.P.C.U.	500	500	100	-	09/30/17 10:00	121,2120B	JT
Alkalinity, Total	4620		mg CaCO3/L	20.0	NA	10	-	10/03/17 09:59	121,2320B	BR
Solids, Total Dissolved	7400		mg/l	100	31.	10	-	10/04/17 12:30	121,2540C	DW
Nitrogen, Ammonia	640.		mg/l	3.75	1.20	50	10/06/17 01:00	10/06/17 13:53	44,350.1	JO
Nitrogen, Nitrate	ND		mg/l	1.0	0.33	10	-	09/30/17 20:28	44,353.2	CW
Nitrogen, Total Kjeldahl	900.		mg/l	15.0	3.30	50	10/04/17 10:00	10/05/17 21:25	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	2400		mg/l	200	54.	20	10/02/17 21:55	10/03/17 00:12	44,410.4	TL
BOD, 5 day	180		mg/l	50	NA	25	09/30/17 19:30	10/05/17 17:00	121,5210B	JC
Total Organic Carbon	627.		mg/l	100	22.8	200	-	10/02/17 07:34	121,5310C	DW
Phenolics, Total	1.2		mg/l	0.030	0.006	1	10/02/17 17:07	10/02/17 22:15	4,420.1	AW
Chromium, Hexavalent	0.036		mg/l	0.010	0.003	1	09/30/17 09:00	09/30/17 09:28	1,7196A	JT
Anions by Ion Chromatography - Westborough Lab										
Bromide	25.7		mg/l	2.50	0.490	50	-	10/04/17 00:42	44,300.0	AU
Chloride	2590		mg/l	125	21.0	250	-	10/05/17 04:13	44,300.0	AU
Sulfate	242.		mg/l	50.0	8.00	50	-	10/04/17 00:42	44,300.0	AU

Project Name: COLONIE LF AREA 5-ROUTINE **Lab Number:** L1734914

Project Number: 22396002.2017 **Report Date:** 12/14/17

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG1046455-1										
Total Organic Carbon	ND		mg/l	0.500	0.114	1	-	09/29/17 08:52	121,5310C	DW
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG1047062-1										
Phenolics, Total	ND		mg/l	0.030	0.006	1	09/29/17 11:35	09/29/17 16:37	4,420.1	AW
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG1047068-1										
Alkalinity, Total	ND		mg CaCO3/L	2.00	NA	1	-	09/29/17 10:04	121,2320B	BR
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG1047256-1										
Nitrogen, Nitrate	ND		mg/l	0.10	0.033	1	-	09/29/17 20:33	44,353.2	MR
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG1047279-1										
BOD, 5 day	ND		mg/l	2.0	NA	1	09/29/17 20:21	10/04/17 21:10	121,5210B	JC
General Chemistry - Westborough Lab for sample(s): 05-10 Batch: WG1047447-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	09/30/17 09:00	09/30/17 09:26	1,7196A	JT
General Chemistry - Westborough Lab for sample(s): 05-07 Batch: WG1047580-1										
Nitrogen, Nitrate	ND		mg/l	0.10	0.033	1	-	09/30/17 19:52	44,353.2	CW
General Chemistry - Westborough Lab for sample(s): 08-10 Batch: WG1047581-1										
Nitrogen, Nitrate	ND		mg/l	0.10	0.033	1	-	09/30/17 19:54	44,353.2	CW
General Chemistry - Westborough Lab for sample(s): 05-10 Batch: WG1047601-1										
BOD, 5 day	ND		mg/l	2.0	NA	1	09/30/17 19:30	10/05/17 17:00	121,5210B	JC
General Chemistry - Westborough Lab for sample(s): 05-10 Batch: WG1047755-1										
Total Organic Carbon	ND		mg/l	0.500	0.114	1	-	10/02/17 07:34	121,5310C	DW
General Chemistry - Westborough Lab for sample(s): 05-10 Batch: WG1048006-1										
Phenolics, Total	ND		mg/l	0.030	0.006	1	10/02/17 17:07	10/02/17 22:02	4,420.1	AW
General Chemistry - Westborough Lab for sample(s): 01-10 Batch: WG1048079-1										
Chemical Oxygen Demand	ND		mg/l	10	2.7	1	10/02/17 21:55	10/03/17 00:09	44,410.4	TL
General Chemistry - Westborough Lab for sample(s): 05-10 Batch: WG1048245-1										
Alkalinity, Total	ND		mg CaCO3/L	2.00	NA	1	-	10/03/17 09:59	121,2320B	BR
General Chemistry - Westborough Lab for sample(s): 01-10 Batch: WG1048634-1										
Solids, Total Dissolved	ND		mg/l	10	3.1	1	-	10/04/17 12:30	121,2540C	DW

Project Name: COLONIE LF AREA 5-ROUTINE **Lab Number:** L1734914

Project Number: 22396002.2017 **Report Date:** 12/14/17

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-10 Batch: WG1048734-1										
Nitrogen, Total Kjeldahl	ND		mg/l	0.300	0.022	1	10/04/17 10:00	10/05/17 21:01	4,351.3/.1 (M)	AT
Anions by Ion Chromatography - Westborough Lab for sample(s): 01-10 Batch: WG1049009-1										
Bromide	ND		mg/l	0.050	0.009	1	-	10/03/17 17:54	44,300.0	AU
Chloride	ND		mg/l	0.500	0.083	1	-	10/03/17 17:54	44,300.0	AU
Sulfate	ND		mg/l	1.00	0.160	1	-	10/03/17 17:54	44,300.0	AU
Anions by Ion Chromatography - Westborough Lab for sample(s): 10 Batch: WG1049478-1										
Bromide	ND		mg/l	0.050	0.009	1	-	10/04/17 17:42	44,300.0	AU
Chloride	ND		mg/l	0.500	0.083	1	-	10/04/17 17:42	44,300.0	AU
Sulfate	ND		mg/l	1.00	0.160	1	-	10/04/17 17:42	44,300.0	AU
General Chemistry - Westborough Lab for sample(s): 01-10 Batch: WG1049481-1										
Nitrogen, Ammonia	ND		mg/l	0.075	0.024	1	10/06/17 01:00	10/06/17 13:16	44,350.1	JO

Lab Control Sample Analysis
Batch Quality Control

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017

Lab Number: L1734914
Report Date: 12/14/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG1046455-2								
Total Organic Carbon	97		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG1047062-2								
Phenolics, Total	94		-		70-130	-		
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG1047068-2								
Alkalinity, Total	105		-		90-110	-		10
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG1047256-2								
Nitrogen, Nitrate	96		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG1047279-2								
BOD, 5 day	103		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 05-10 Batch: WG1047447-2								
Chromium, Hexavalent	92		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 05-07 Batch: WG1047580-2								
Nitrogen, Nitrate	94		-		90-110	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017

Lab Number: L1734914
Report Date: 12/14/17

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 08-10 Batch: WG1047581-2					
Nitrogen, Nitrate	94	-	90-110	-	
General Chemistry - Westborough Lab Associated sample(s): 05-10 Batch: WG1047601-2					
BOD, 5 day	94	-	85-115	-	20
General Chemistry - Westborough Lab Associated sample(s): 05-10 Batch: WG1047755-2					
Total Organic Carbon	96	-	90-110	-	
General Chemistry - Westborough Lab Associated sample(s): 05-10 Batch: WG1048006-2					
Phenolics, Total	87	-	70-130	-	
General Chemistry - Westborough Lab Associated sample(s): 01-10 Batch: WG1048079-2					
Chemical Oxygen Demand	102	-	90-110	-	
General Chemistry - Westborough Lab Associated sample(s): 05-10 Batch: WG1048245-2					
Alkalinity, Total	104	-	90-110	-	10
General Chemistry - Westborough Lab Associated sample(s): 01-10 Batch: WG1048634-2					
Solids, Total Dissolved	106	-	80-120	-	

Lab Control Sample Analysis
Batch Quality Control

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017

Lab Number: L1734914
Report Date: 12/14/17

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-10 Batch: WG1048734-2					
Nitrogen, Total Kjeldahl	97	-	78-122	-	
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-10 Batch: WG1049009-2					
Bromide	92	-	90-110	-	
Chloride	101	-	90-110	-	
Sulfate	108	-	90-110	-	
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 10 Batch: WG1049478-2					
Bromide	90	-	90-110	-	
Chloride	102	-	90-110	-	
Sulfate	109	-	90-110	-	
General Chemistry - Westborough Lab Associated sample(s): 01-10 Batch: WG1049481-2					
Nitrogen, Ammonia	90	-	90-110	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017

Lab Number: L1734914
Report Date: 12/14/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1046455-4 QC Sample: L1734157-20 Client ID: MS Sample												
Total Organic Carbon	1.45	8	10.3	111		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1047062-4 QC Sample: L1734157-20 Client ID: MS Sample												
Phenolics, Total	ND	0.4	0.39	98		-	-		70-130	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1047068-4 QC Sample: L1734815-01 Client ID: MS Sample												
Alkalinity, Total	18.7	100	112	93		-	-		86-116	-		10
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1047256-4 QC Sample: L1734467-26 Client ID: MS Sample												
Nitrogen, Nitrate	ND	4	3.4	85		-	-		83-113	-		6
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1047279-3 QC Sample: L1734467-18 Client ID: MS Sample												
BOD, 5 day	ND	200	160	82		-	-		50-145	-		35
General Chemistry - Westborough Lab Associated sample(s): 05-10 QC Batch ID: WG1047447-4 QC Sample: L1734914-08 Client ID: SIL.-D/E												
Chromium, Hexavalent	ND	0.1	0.085	85		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 05-07 QC Batch ID: WG1047580-4 QC Sample: L1734157-26 Client ID: MS Sample												
Nitrogen, Nitrate	ND	4	3.8	95		-	-		83-113	-		6
General Chemistry - Westborough Lab Associated sample(s): 08-10 QC Batch ID: WG1047581-4 QC Sample: L1734914-08 Client ID: SIL.-D/E												
Nitrogen, Nitrate	12.	4	16	100		-	-		83-113	-		6
General Chemistry - Westborough Lab Associated sample(s): 05-10 QC Batch ID: WG1047601-4 QC Sample: L1735154-01 Client ID: MS Sample												
BOD, 5 day	ND	100	78	78		-	-		50-145	-		35

Matrix Spike Analysis
Batch Quality Control

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017

Lab Number: L1734914
Report Date: 12/14/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery		Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 05-10 QC Batch ID: WG1047755-4 QC Sample: L1734925-02 Client ID: MS Sample											
Total Organic Carbon	7.60	8	15.8	102		-	-		80-120	-	20
General Chemistry - Westborough Lab Associated sample(s): 05-10 QC Batch ID: WG1048006-4 QC Sample: L1734914-08 Client ID: SIL.-D/E											
Phenolics, Total	ND	0.4	0.33	82		-	-		70-130	-	20
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1048079-3 QC Sample: L1734914-02 Client ID: MPI-1D											
Chemical Oxygen Demand	8.1J	47.6	53	**111**	Q	-	-		90-110	-	20
General Chemistry - Westborough Lab Associated sample(s): 05-10 QC Batch ID: WG1048245-4 QC Sample: L1734157-26 Client ID: MS Sample											
Alkalinity, Total	560.	200	763	102		-	-		86-116	-	10
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1048734-4 QC Sample: L1734914-02 Client ID: MPI-1D											
Nitrogen, Total Kjeldahl	0.424	8	8.14	96		-	-		77-111	-	24
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1049009-3 QC Sample: L1734914-07 Client ID: SIL.-C											
Bromide	0.506	2	6.01	**274**	Q	-	-		90-110	-	20
Chloride	87.8	20	104	**88**	Q	-	-		90-110	-	18
Sulfate	30.1	40	70.0	101		-	-		90-110	-	20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 10 QC Batch ID: WG1049478-3 WG1049478-4 QC Sample: L1734467-26 Client ID: MS Sample											
Bromide	0.146	0.4	0.502	**89**	Q	0.505	90		90-110	1	20
Chloride	27.0	4	29.8	**71**	Q	29.9	**74**	Q	90-110	0	18
Sulfate	10.4	8	18.6	102		18.3	99		90-110	2	20

Matrix Spike Analysis
Batch Quality Control

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017

Lab Number: L1734914
Report Date: 12/14/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1049481-4 QC Sample: L1734914-07 Client ID: SIL.-C										
Nitrogen, Ammonia	0.880	4	4.40	**88**	Q	-	-	90-110	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017

Lab Number: L1734914
Report Date: 12/14/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1046455-3 QC Sample: L1734157-20 Client ID: DUP Sample						
Total Organic Carbon	1.45	1.47	mg/l	1		20
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1047062-3 QC Sample: L1734157-20 Client ID: DUP Sample						
Phenolics, Total	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1047068-3 QC Sample: L1734815-01 Client ID: DUP Sample						
Alkalinity, Total	18.7	18.8	mg CaCO3/L	1		10
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1047256-3 QC Sample: L1734467-26 Client ID: DUP Sample						
Nitrogen, Nitrate	ND	ND	mg/l	NC		6
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1047279-4 QC Sample: L1734467-18 Client ID: DUP Sample						
BOD, 5 day	ND	ND	mg/l	NC		35
General Chemistry - Westborough Lab Associated sample(s): 05-10 QC Batch ID: WG1047447-3 QC Sample: L1734914-08 Client ID: SIL.-D/E						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 05-10 QC Batch ID: WG1047455-1 QC Sample: L1734914-10 Client ID: LAGOON						
Color, Apparent	2700	2700	A.P.C.U.	0		
General Chemistry - Westborough Lab Associated sample(s): 05-07 QC Batch ID: WG1047580-3 QC Sample: L1734157-26 Client ID: DUP Sample						
Nitrogen, Nitrate	ND	ND	mg/l	NC		6
General Chemistry - Westborough Lab Associated sample(s): 08-10 QC Batch ID: WG1047581-3 QC Sample: L1734914-08 Client ID: SIL.-D/E						
Nitrogen, Nitrate	12.	12	mg/l	0		6

Lab Duplicate Analysis
Batch Quality Control

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017

Lab Number: L1734914
Report Date: 12/14/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 05-10 QC Batch ID: WG1047601-3 QC Sample: L1735154-01 Client ID: DUP Sample					
BOD, 5 day	ND	ND	mg/l	NC	35
General Chemistry - Westborough Lab Associated sample(s): 05-10 QC Batch ID: WG1047755-3 QC Sample: L1734925-02 Client ID: DUP Sample					
Total Organic Carbon	7.60	7.36	mg/l	3	20
General Chemistry - Westborough Lab Associated sample(s): 05-10 QC Batch ID: WG1048006-3 QC Sample: L1734914-08 Client ID: SIL.-D/E					
Phenolics, Total	ND	ND	mg/l	NC	20
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1048079-4 QC Sample: L1734914-02 Client ID: MPI-1D					
Chemical Oxygen Demand	8.1J	10	mg/l	NC	20
General Chemistry - Westborough Lab Associated sample(s): 05-10 QC Batch ID: WG1048245-3 QC Sample: L1734157-26 Client ID: DUP Sample					
Alkalinity, Total	560.	558	mg CaCO3/L	0	10
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1048634-3 QC Sample: L1734914-01 Client ID: MPI-1S					
Solids, Total Dissolved	1100	1100	mg/l	0	10
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1048734-3 QC Sample: L1734914-02 Client ID: MPI-1D					
Nitrogen, Total Kjeldahl	0.424	0.418	mg/l	1	24
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1049009-4 QC Sample: L1734914-07 Client ID: SIL.-C					
Bromide	0.506	0.518	mg/l	2	20
Chloride	87.8	86.0	mg/l	2	18
Sulfate	30.1	29.5	mg/l	2	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017

Lab Number: L1734914
Report Date: 12/14/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1049481-3 QC Sample: L1734914-05 Client ID: SIL.-A					
Nitrogen, Ammonia	0.994	1.00	mg/l	1	20

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017

Lab Number: L1734914
Report Date: 12/14/17

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B1	Absent
C1	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1734914-01A	Vial H2SO4 preserved	A	NA		4.1	Y	Absent		TOC-5310(28)
L1734914-01B	Vial H2SO4 preserved	A	NA		4.1	Y	Absent		TOC-5310(28)
L1734914-01C	Plastic 120ml unpreserved/No Headspace	A	NA		4.1	Y	Absent		ALK-T-2320(14)
L1734914-01D	Plastic 250ml HNO3 preserved	A	<2	<2	4.1	Y	Absent		CA-TI-PPB(180),CD-6020T-PPB(180),MG-TI-PPB(180),K-6020T-PPB(180),PB-6020T-PPB(180),FE-6020T-PPB(180),NA-6020T-PPB(180),MN-6020T-PPB(180)
L1734914-01E	Plastic 500ml H2SO4 preserved	A	<2	<2	4.1	Y	Absent		TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1734914-01F	Amber 500ml H2SO4 preserved	A	<2	<2	4.1	Y	Absent		NY-TPHENOL-420(28)
L1734914-01G	Plastic 950ml unpreserved	A	7	7	4.1	Y	Absent		SO4-300(28),CL-300(28),BOD-5210(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1734914-02A	Vial H2SO4 preserved	A	NA		4.1	Y	Absent		TOC-5310(28)
L1734914-02B	Vial H2SO4 preserved	A	NA		4.1	Y	Absent		TOC-5310(28)
L1734914-02C	Plastic 120ml unpreserved/No Headspace	A	NA		4.1	Y	Absent		ALK-T-2320(14)
L1734914-02D	Plastic 250ml HNO3 preserved	A	<2	<2	4.1	Y	Absent		CA-TI-PPB(180),CD-6020T-PPB(180),MG-TI-PPB(180),K-6020T-PPB(180),PB-6020T-PPB(180),FE-6020T-PPB(180),NA-6020T-PPB(180),MN-6020T-PPB(180)
L1734914-02E	Plastic 500ml H2SO4 preserved	A	<2	<2	4.1	Y	Absent		TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1734914-02F	Amber 500ml H2SO4 preserved	A	<2	<2	4.1	Y	Absent		NY-TPHENOL-420(28)
L1734914-02G	Plastic 950ml unpreserved	A	7	7	4.1	Y	Absent		SO4-300(28),CL-300(28),BOD-5210(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1734914-03A	Vial H2SO4 preserved	A	NA		4.1	Y	Absent		TOC-5310(28)
L1734914-03B	Vial H2SO4 preserved	A	NA		4.1	Y	Absent		TOC-5310(28)
L1734914-03C	Plastic 120ml unpreserved/No Headspace	A	NA		4.1	Y	Absent		ALK-T-2320(14)

*Values in parentheses indicate holding time in days

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017

Lab Number: L1734914
Report Date: 12/14/17

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1734914-03D	Plastic 250ml HNO3 preserved	A	<2	<2	4.1	Y	Absent		CA-TI-PPB(180),CD-6020T-PPB(180),MG-TI-PPB(180),K-6020T-PPB(180),PB-6020T-PPB(180),FE-6020T-PPB(180),NA-6020T-PPB(180),MN-6020T-PPB(180)
L1734914-03E	Plastic 500ml H2SO4 preserved	A	<2	<2	4.1	Y	Absent		TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1734914-03F	Amber 500ml H2SO4 preserved	A	<2	<2	4.1	Y	Absent		NY-TPHENOL-420(28)
L1734914-03G	Plastic 950ml unpreserved	A	7	7	4.1	Y	Absent		SO4-300(28),CL-300(28),BOD-5210(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1734914-04A	Vial H2SO4 preserved	A	NA		4.1	Y	Absent		TOC-5310(28)
L1734914-04B	Vial H2SO4 preserved	A	NA		4.1	Y	Absent		TOC-5310(28)
L1734914-04C	Plastic 120ml unpreserved/No Headspace	A	NA		4.1	Y	Absent		ALK-T-2320(14)
L1734914-04D	Plastic 250ml HNO3 preserved	A	<2	<2	4.1	Y	Absent		CA-TI-PPB(180),CD-6020T-PPB(180),MG-TI-PPB(180),K-6020T-PPB(180),PB-6020T-PPB(180),FE-6020T-PPB(180),NA-6020T-PPB(180),MN-6020T-PPB(180)
L1734914-04E	Plastic 500ml H2SO4 preserved	A	<2	<2	4.1	Y	Absent		TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1734914-04F	Amber 500ml H2SO4 preserved	A	<2	<2	4.1	Y	Absent		NY-TPHENOL-420(28)
L1734914-04G	Plastic 950ml unpreserved	A	7	7	4.1	Y	Absent		SO4-300(28),CL-300(28),BOD-5210(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1734914-05A	Vial H2SO4 preserved	C1	NA		3.0	Y	Absent		TOC-5310(28)
L1734914-05B	Vial H2SO4 preserved	C1	NA		3.0	Y	Absent		TOC-5310(28)
L1734914-05C	Plastic 120ml unpreserved/No Headspace	C1	NA		3.0	Y	Absent		ALK-T-2320(14)
L1734914-05D	Plastic 250ml HNO3 preserved	C1	<2	<2	3.0	Y	Absent		CA-TI-PPB(180),CD-6020T-PPB(180),MG-TI-PPB(180),K-6020T-PPB(180),PB-6020T-PPB(180),FE-6020T-PPB(180),NA-6020T-PPB(180),MN-6020T-PPB(180)
L1734914-05E	Amber 500ml H2SO4 preserved	C1	<2	<2	3.0	Y	Absent		NY-TPHENOL-420(28)
L1734914-05F	Plastic 500ml H2SO4 preserved	C1	<2	<2	3.0	Y	Absent		TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1734914-05G	Plastic 950ml unpreserved	C1	7	7	3.0	Y	Absent		SO4-300(28),CL-300(28),HEXCR-7196(1),COLOR-A-2120(2),BOD-5210(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1734914-06A	Vial H2SO4 preserved	C1	NA		3.0	Y	Absent		TOC-5310(28)
L1734914-06B	Vial H2SO4 preserved	C1	NA		3.0	Y	Absent		TOC-5310(28)
L1734914-06C	Plastic 120ml unpreserved/No Headspace	C1	NA		3.0	Y	Absent		ALK-T-2320(14)

*Values in parentheses indicate holding time in days

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017

Lab Number: L1734914
Report Date: 12/14/17

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1734914-06D	Plastic 250ml HNO3 preserved	C1	<2	<2	3.0	Y	Absent		CA-TI-PPB(180),CD-6020T-PPB(180),MG-TI-PPB(180),K-6020T-PPB(180),PB-6020T-PPB(180),FE-6020T-PPB(180),NA-6020T-PPB(180),MN-6020T-PPB(180)
L1734914-06E	Amber 500ml H2SO4 preserved	C1	<2	<2	3.0	Y	Absent		NY-TPHENOL-420(28)
L1734914-06F	Plastic 500ml H2SO4 preserved	C1	<2	<2	3.0	Y	Absent		TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1734914-06G	Plastic 950ml unpreserved	C1	7	7	3.0	Y	Absent		SO4-300(28),CL-300(28),HEXCR-7196(1),COLOR-A-2120(2),BOD-5210(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1734914-07A	Vial H2SO4 preserved	C1	NA		3.0	Y	Absent		TOC-5310(28)
L1734914-07B	Vial H2SO4 preserved	C1	NA		3.0	Y	Absent		TOC-5310(28)
L1734914-07C	Plastic 120ml unpreserved/No Headspace	C1	NA		3.0	Y	Absent		ALK-T-2320(14)
L1734914-07D	Plastic 250ml HNO3 preserved	C1	<2	<2	3.0	Y	Absent		CA-TI-PPB(180),CD-6020T-PPB(180),MG-TI-PPB(180),K-6020T-PPB(180),PB-6020T-PPB(180),FE-6020T-PPB(180),NA-6020T-PPB(180),MN-6020T-PPB(180)
L1734914-07E	Amber 500ml H2SO4 preserved	C1	<2	<2	3.0	Y	Absent		NY-TPHENOL-420(28)
L1734914-07F	Plastic 500ml H2SO4 preserved	C1	<2	<2	3.0	Y	Absent		TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1734914-07G	Plastic 950ml unpreserved	C1	7	7	3.0	Y	Absent		SO4-300(28),CL-300(28),HEXCR-7196(1),COLOR-A-2120(2),BOD-5210(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1734914-08A	Vial H2SO4 preserved	C1	NA		3.0	Y	Absent		TOC-5310(28)
L1734914-08B	Vial H2SO4 preserved	C1	NA		3.0	Y	Absent		TOC-5310(28)
L1734914-08C	Plastic 120ml unpreserved/No Headspace	C1	NA		3.0	Y	Absent		ALK-T-2320(14)
L1734914-08D	Plastic 250ml HNO3 preserved	C1	<2	<2	3.0	Y	Absent		CA-TI-PPB(180),CD-6020T-PPB(180),MG-TI-PPB(180),K-6020T-PPB(180),PB-6020T-PPB(180),FE-6020T-PPB(180),NA-6020T-PPB(180),MN-6020T-PPB(180)
L1734914-08E	Amber 500ml H2SO4 preserved	C1	<2	<2	3.0	Y	Absent		NY-TPHENOL-420(28)
L1734914-08F	Plastic 500ml H2SO4 preserved	C1	<2	<2	3.0	Y	Absent		TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1734914-08G	Plastic 950ml unpreserved	C1	7	7	3.0	Y	Absent		SO4-300(28),CL-300(28),HEXCR-7196(1),COLOR-A-2120(2),BOD-5210(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1734914-09A	Vial H2SO4 preserved	B1	NA		4.2	Y	Absent		TOC-5310(28)
L1734914-09B	Vial H2SO4 preserved	B1	NA		4.2	Y	Absent		TOC-5310(28)
L1734914-09C	Plastic 120ml unpreserved/No Headspace	B1	NA		4.2	Y	Absent		ALK-T-2320(14)

*Values in parentheses indicate holding time in days

Project Name: COLONIE LF AREA 5-ROUTINE
Project Number: 22396002.2017

Lab Number: L1734914
Report Date: 12/14/17

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1734914-09D	Plastic 250ml HNO3 preserved	B1	<2	<2	4.2	Y	Absent		CA-TI-PPB(180),CD-6020T-PPB(180),MG-TI-PPB(180),K-6020T-PPB(180),PB-6020T-PPB(180),FE-6020T-PPB(180),NA-6020T-PPB(180),MN-6020T-PPB(180)
L1734914-09E	Amber 500ml H2SO4 preserved	B1	<2	<2	4.2	Y	Absent		NY-TPHENOL-420(28)
L1734914-09F	Plastic 500ml H2SO4 preserved	B1	<2	<2	4.2	Y	Absent		TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1734914-09G	Plastic 950ml unpreserved	B1	7	7	4.2	Y	Absent		SO4-300(28),CL-300(28),HEXCR-7196(1),COLOR-A-2120(2),BOD-5210(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1734914-10A	Vial H2SO4 preserved	B1	NA		4.2	Y	Absent		TOC-5310(28)
L1734914-10B	Vial H2SO4 preserved	B1	NA		4.2	Y	Absent		TOC-5310(28)
L1734914-10C	Plastic 120ml unpreserved/No Headspace	B1	NA		4.2	Y	Absent		ALK-T-2320(14)
L1734914-10D	Plastic 250ml HNO3 preserved	B1	6	<2	4.2	N	Absent		CA-TI-PPB(180),CD-6020T-PPB(180),MG-TI-PPB(180),K-6020T-PPB(180),PB-6020T-PPB(180),FE-6020T-PPB(180),NA-6020T-PPB(180),MN-6020T-PPB(180)
L1734914-10E	Amber 500ml H2SO4 preserved	B1	5	<2	4.2	N	Absent		NY-TPHENOL-420(28)
L1734914-10F	Plastic 500ml H2SO4 preserved	B1	6	<2	4.2	N	Absent		TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1734914-10G	Plastic 950ml unpreserved	B1	7	7	4.2	Y	Absent		SO4-300(28),CL-300(28),HEXCR-7196(1),COLOR-A-2120(2),BOD-5210(2),BR-300(28),NO3-353(2),TDS-2540(7)

*Values in parentheses indicate holding time in days

Project Name:	COLONIE LF AREA 5-ROUTINE	**Lab Number:**	L1734914
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GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

Report Format: DU Report with 'J' Qualifiers

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Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

4 Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.

44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

ALPHA ANALYTICAL

NEW YORK CHAIN OF CUSTODY

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 9/29/17

ALPHA Job #: L1734914

Client Information

Client: ARCADIS
Address: 855 Route 146, Suite 210
Clifton Park, NY 12065
Phone: 518-250-7327
Fax: 518-250-7301
Email: Danielle.giroux@arcadis-us.com

Project Information

Project Name: Colonie Landfill Area 5 - Routine
Project Location:
Project #
(Use Project name as Project #) ☐
Project Manager: Candace Fox
ALPHAQuote #:

Turn-Around Time

Standard ☐ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information

☑ Same as Client Info
PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
☐ NJ ☐ NY
☐ Other: NA

These samples have been previously analyzed by Alpha ☒

Other project specific requirements/comments:

Routine Metals List. *Wet Chem: BOD,TDS,Br,Cl,SO4,NO3*

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	*Wet Chem*	Phenols	NH3,TKN,COD	T-Metals/Hardness	Alk (no headspace)	TOC			Sample Specific Comments	Total Bottles
3/914-01	MPI-1S	9/28	1130	Water	JS	X	X	X	X	X	X			Routine	7
				Water		X	X	X	X	X	X				7
02	MPI-1D		1145	Water		X	X	X	X	X	X				7
				Water		X	X	X	X	X	X				7
03	PPRS Cell D		1100	Water		X	X	X	X	X	X				7
				Water		X	X	X	X	X	X				7
04	Duplicate		1030	Water		X	X	X	X	X	X				7
				Water		X	X	X	X	X	X				7
				Water		X	X	X	X	X	X				7
				Water		X	X	X	X	X	X				7
				Container Type		P	A	P	P	P	V				
				Preservative		A	D	D	C	A	D				

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
Jim Scenna / SEM	9/28/17 1400	[illegible] ALPHA	9/28/17 1730
		[illegible]	9/29/17 0830

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.

Form No: 01-25 (rev. 30-Sept-2013)

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

NEW YORK CHAIN OF CUSTODY

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 9/30/17

ALPHA Job #: L1734914

Client Information
Client: Arcadis U.S. Inc.
Address: 855 Rt. 146
Clifton Park, N.Y.
Phone: 518-250-7325
Fax:
Email: danielle.giroux@arcadis-us.com

Project Information
Project Name: Colonie Landfill
Project Location: Colonie Landfill Area 5
Project #
(Use Project name as Project #) ☑
Project Manager:
ALPHAQuote #:

Turn-Around Time
Standard ☑ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☑ Other

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☑ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☑ Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other: NA

These samples have been previously analyzed by Alpha ☒

Other project specific requirements/comments:
*Metals (Cd,Ca,Fe,Pb,Mg,Mn,K,Na)

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Total Hg Total Metals	Cl,Br,SO4,TDS,NO3,BOD	HEXCR,COLOR	Alkalinity No Headspace	Total Phenol	COD,NH3,TKN	TOC	~~NYTCL 8260~~	Sample Specific Comments	Total Bottles
34914-05	SiL.-A	9/29/17	1200	HQ	JS	X	X	X	X	X	X	X		Routine Pam	
-06	SiL.-B	↓	1220	↓	↓	↑	↑	↑	↑	↑	↓	↑		↓	
-07	SiL.-C		1230												
-08	SiL.-D/E		1300												
-09	MW-3		1100												
-10	Lagoon	↓	1530	↓	↓	↓	↓	↓	↓	↓	↓	↓		↓	

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	P	P	P	P	A	P	V	V
Preservative	C	A	A	A	D	D	D	B

Relinquished By:	Date/Time	Received By:	Date/Time
Jim Scena / SEM	9/29/17 1700	Comodis AAL	9/29/17 17:45
			9/30/17 0125

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.

Form No: 01-25 (rev. 30-Sept-2013)

APPENDIX C

Field Data Summary Forms

SPECIALIZED ENVIRONMENTAL MONITORING

FIELD OBSERVATION LOG
GROUNDWATER SAMPLING RECORD

SITE NAME **Town of Colonie Landfill- Area 5** **DATE** Dec. 5-8, 2017

Colonie, New York Weather cloudy, mild

Samplers Jim Scerra/SEM

Routine parameters

Well Name / ID	**CTM-1**	**CTM-2**	**MW-3**	**Lagoon**	**S. L. - A**	**S. L. -B**
Diameter of Well Casing	2 in	2 in	2 in			
Depth of Well (ft.)	28.36	29.6	18.9			
Depth to Ground Water	27.74	17.35	9.97	NA	NA	NA
Water Column Height (ft.)	0.62	12.25	8.93	NA	NA	NA
Volume Purged	~dry	6	4	NA	NA	NA
Purging/Sampling Method	NS	Bailer	Bailer	dipper bott.	Dipper	Dipper
Sampling Date		5-Dec	7-Dec	8-Dec	7-Dec	7-Dec
Sampling Time		PM	11:00	14:00	13:15	13:30
Observations						
color	NS	clear	clear	Drk Brown	turb -tan	Yellow-gry
sheen		no	no	no	no	no
odor		no	slight	strong	yes	yes
Field Parameters						
Temperature (C)	NS	11.4	11.7	21.6	13.8	11.9
Ph		7.61	7.20	8.30	7.26	7.20
Conductivity in uS		457	640	>4000	1230	1545
Dissolved Oxygen (mg/L)						
Eh (Mv)		200	311	-158	-25	-50
Turbidity (visual / NTU)		10	22	>150	30	33

Comments **All bailers are teflon and dedicated to each well.**

Duplicate collected at MW-3

NS = Not sampled well ~dry

NA= Not applicable

4256 Route 50
Saratoga Springs, NY 12866

518-587-5510 (phone)
518-587-4405 (fax)

SPECIALIZED ENVIRONMENTAL MONITORING

FIELD OBSERVATION LOG
GROUNDWATER SAMPLING RECORD

SITE NAME **Town of Colonie Landfill- Area 5** **DATE** Dec 7 & 8, 2017

Colonie, New York Weather cloudy, mild

Samplers Jim Scerra/SEM

Routine parameters

Well Name / ID	**S.L. - C**	**S.L.-D**	**S.L.-E**	**PPRS**	**MW-1R**	**CW-5**
Diameter of Well Casing	NA	NA	NA	(Cell D)	2.0	2.0
Depth of Well (ft.)					12.2	22
Depth to Ground Water	NA	NA	NA	NA	8.00	11.10
Water Column Height (ft.)						
Volume Purged (gal)					NS	NS
Purging/Sampling Method	Dipper	Dipper	Dipper	direct	teflon bail.	poly bailer
Sampling Date	7-Dec	7-Dec	7-Dec	8-Dec		
Sampling Time	14:00	12:30	12:40	11:00		
Observations						
color	clear	clear	clear	clear		
sheen	no	no	no	no		
odor	slight	no	no	yes		
Field Parameters						
Temperature (C)	11.9	11.3	10.1	17.3		
Ph	7.45	7.26	7.12	7.25		
Conductivity in uS	680	657	933	1160		
Dissolved Oxygen (mg/L)						
Eh (Mv)	-25.0	162	138	-20		
Turbidity (visual / NTU)	15	10	11	14		

Comments

NS= Not Sampled this event

4256 Route 50
Saratoga Springs, NY 12866

518-587-5510 (phone)
518-587-4405 (fax)

SPECIALIZED ENVIRONMENTAL MONITORING

FIELD OBSERVATION LOG
GROUNDWATER SAMPLING RECORD

SITE NAME **Town of Colonie Landfill- Area 5** **DATE** Dec. 5-8, 2017

Colonie, New York Weather Seasonal & cool..

Samplers Jim Scerra page 1 of 3

Routine parameters

Well Name / ID	**MPI-1S**	**MPI-1D**	**MPI-2**	**MPI-3**	**MPI-4S**	**MPI-4D**
Diameter of Well Casing	2 in	2 in	2 in	2 in	2 in	2 in
Depth of Well (ft.)	12.2	24.7	20.4	32.2	22.4	80
Depth to Ground Water	7.86	5.64	10.54	24.70	6.30	35.79
Water Column Height (ft.)	4.34	19.06	9.86	7.50	16.1	44.21
Volume Purged (gal)	1.5	5.5	3.5	3	5.5	7
	draws dwn	draws dwn		draws dwn	draws dwn	draws dwn
Purging/Sampling Method	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer
Sampling Date	7-Dec	7-Dec	5-Dec	5-Dec	5-Dec	6-Dec
Sampling Time	11:40	12:00	14:00	13:20	15:15	11:00
Observations						
color	clear	clear	lt brown	~clear lt tan	clear	clear
sheen	no	no	no	no	no	no
odor	no	no	no	slight	no	no
Field Parameters						
Temperature (C)	10.9	11.5	11.5	12.0	12.6	11.3
Ph	7.44	7.46	7.30	7.25	7.54	7.92
Conductivity in uS	735	502	816	748	268	280
Dissolved Oxygen (mg/L)						
Eh (Mv)	298	-21	232	208	171	204
Turbidity (visual / NTU)	35	11	28	30	11	10

Comments **All bailers are teflon and dedicated to each well.**

4256 Route 50
Saratoga Springs, NY 12866

518-587-5510 (phone)
518-587-4405 (fax)

APPENDIX D

Database of Historical Analytical Data (on disc)

APPENDIX E

Data Validation Report,
Data Validation Services, Inc.

Data Validation Services

120 Cobble Creek Road P.O. Box 208
North Creek, NY 12853

Phone 518-251-4429
harry@frontiernet.net

July 18, 2017

Danielle Giroux
ARCADIS US, Inc.
885 Route 146 Suite 210
Clifton Park, NY 12065

RE: Validation of data packages for the Colonie Area 5 Landfill
Alpha SDG Nos. L1720218

Dear Ms. Giroux:

Review has been completed for the data packages generated by Alpha Analytical, Inc that pertain to samples collected at the Colonie Landfill Area 5 site. Sixteen aqueous samples and a field duplicate were collected between 06/15/17 and 06/23/17 and analyzed for 6 NYCRR Part 360 Baseline parameters. Matrix spikes/duplicates and trip blanks were processed. Methodologies utilized are those of the 1995 NYSDEC ASP/SW846 and ASTM.

Validation of 5% of the samples was required. The sample undergoing full validation is MPI-2. Blanks and spikes were also reviewed. When qualification of unvalidated samples becomes evident during the review of the validated sample and of the QC associated with all samples, it is also denoted within this text. The end-users of the data should consider that verification of reported values for unvalidated samples, and full evaluation for their qualification, have not been performed.

Data validation was performed with guidance from the USEPA CLP National Functional Guidelines for Organic and Inorganic Data Review and the USEPA Region 2 SOPs HW-24 and HW-2. The following items were reviewed:

* Data Completeness
* Custody Documentation
* Holding Times
* Surrogate and Internal Standard Recoveries
* Matrix Spike Recoveries/Duplicate Correlations
* Field Duplicate Correlations
* Preparation/Calibration Blanks
* Laboratory Control Samples (LCSs)
* Calibration/Low Level Standards (Validated Sample)
* ICP Serial Dilution Correlations
* Instrument IDLs
* Method Compliance
* Sample Result Verification (Validated Sample)

Those items showing deficiencies are discussed in the following sections of this report. All others were found to be acceptable as outlined in the above-mentioned validation procedures, and as applicable for the methodology. Unless noted specifically in the following text, reported results of the validated sample are substantiated by the raw data, and generated in compliance with protocol requirements.

In summary, sample processing was primarily conducted with compliance to protocol requirements and with adherence to quality criteria. Results of the Part 360 Baseline parameters in the validated sample are usable either as reported or with minor qualification.

Copies of the laboratory case narrative and the laboratory sample identification summaries are attached to this text, and should be reviewed in conjunction with this report.

Sample Receipt

One of the trip blanks entered on the custody was not received by the laboratory.

Volatile Analyses by 8260C

The following detections are considered external contamination and are to be edited to reflect non-detection ("ND" or "U") at either the reporting limit, or the original concentration, whichever is greater:

- all detections of iodomethane
- all detections of acetone except those in SL-A, SL-B, SL-D/E, and Lagoon

Accuracy and precision evaluations were performed on MPI-4S, and show acceptable recoveries and correlations. The field duplicate correlations between CW-5 and Duplicate are also acceptable.

Holding times were met. Surrogate and internal standard recoveries meet protocol and validation requirements.

Calibration standards responses show outlying responses (RRF<0.05) for iodomethane, the results for which are to be qualified as estimated ("UJ") in all of the samples.

Metals Analyses by 6010C, 6020A, and 7470

The matrix spikes of MPI-4S, S.L.-A, and CTM-2 show acceptable recoveries and correlations with the exception of those for iron (133% and 30%RPD) in MPI-4S. The result for that element in that parent sample is to be qualified as estimated in value ("UJ").

The field duplicate correlations between CW-5 and Duplicate are acceptable.

The ICP serial dilution evaluations were performed on MPI-4S, S.L.-A, and CTM-2, and show acceptable correlations.

The results for boron in MW-1R and MPI-4S are considered external contamination and edited to reflect non-detection ("ND" or "U") due to presence in the associated method blank.

Wet Chemistry Analyses

Review was conducted for method compliance, transcription, calculations, standard and blank acceptability, accuracy and precision, etc., as applicable to each procedure. All associated with validation samples were found acceptable unless noted specifically within this text.

The matrix spike/duplicate evaluations were performed for all analytes on MPI-4S, and show acceptable accuracy and precision, with the exception of the recoveries for bromide (both 79%) and nitrate (82%). The results for those analytes in the parent sample are to be qualified as estimated in value ("UJ").

Numerous additional project matrix spikes were performed, and show acceptable recoveries and correlations, with the exception of the recovery for bromide (82%) in MPI-2. The result for that analytes in the parent sample is to be qualified as estimated in value ("UJ").

The field duplicate correlations between CW-5 and Duplicate are acceptable, with the exception of alkalinity (>±CRDL). The results for that analyte in those two samples are to be qualified as estimated in value ("J").

Please do not hesitate to contact me if questions or comments arise during your review of this report.

Very truly yours,

Judy Harry

Judy Harry

VALIDATION DATA QUALIFIER DEFINITIONS

U	The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected. The associated reported quantitation limit is an estimate and may be inaccurate or imprecise.
NJ	The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.
R	The data are unusable. The analyte may or may not be present.
EMPC	The results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maximum Possible Concentration of the analyte in the sample.

CLIENT and LABORATORY SAMPLE IDs

Project Name: COLONIE LANDFILL AREA 5
Project Number: 22396002.2017

Lab Number: L1720218
Report Date: 07/03/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1720218-01	MPI-4S	WATER	Not Specified	06/15/17 12:15	06/15/17
L1720218-02	MPI-4D	WATER	Not Specified	06/15/17 12:40	06/15/17
L1720218-03	MPI-3	WATER	Not Specified	06/15/17 13:13	06/15/17
L1720218-04	TRIP BLANK	WATER	Not Specified	06/15/17 00:00	06/15/17
L1720218-05	CTM-2	WATER	Not Specified	06/16/17 12:45	06/16/17
L1720218-06	MPI-2	WATER	Not Specified	06/16/17 13:30	06/16/17
L1720218-07	MPI-1S	WATER	Not Specified	06/16/17 14:00	06/16/17
L1720218-08	MPI-1D	WATER	Not Specified	06/16/17 14:15	06/16/17
L1720218-09	MW-3	WATER	Not Specified	06/16/17 14:45	06/16/17
L1720218-10	CW-5	WATER	Not Specified	06/16/17 15:30	06/16/17
L1720218-11	MW-1R	WATER	Not Specified	06/16/17 16:00	06/16/17
L1720218-12	DUPLICATE	WATER	Not Specified	06/16/17 00:00	06/16/17
L1720218-13	S.L.-A	WATER	Not Specified	06/21/17 10:20	06/21/17
L1720218-14	S.L.-B	WATER	Not Specified	06/21/17 10:35	06/21/17
L1720218-15	S.L.-C	WATER	Not Specified	06/21/17 10:45	06/21/17
L1720218-16	S.L.-D/E	WATER	Not Specified	06/21/17 10:00	06/21/17
L1720218-17	LAGOON	WATER	Not Specified	06/21/17 11:15	06/21/17
L1720218-18	TRIP BLANK	WATER	Not Specified	06/21/17 00:00	06/21/17
L1720218-19	LAGOON	WATER	Not Specified	06/22/17 11:30	06/23/17
L1720218-20	PPRS CELL D	WATER	Not Specified	06/23/17 14:30	06/23/17
L1720218-21	TRIP BLANK	WATER	Not Specified	06/23/17 00:00	06/23/17

Arcadis of New York, Inc.

855 Route 146

Suite 210

Clifton Park, New York 12065

Tel 518 250 7300

Fax 518 250 7301

www.arcadis.com

Town of Colonie

1319 Loudon Road

Cohoes, New York, 12047

AREA 6 ENVIRONMENTAL MONITORING REPORT

Fourth Quarter and Annual 2017

February 2018

AREA 6 ENVIRONMENTAL MONITORING QUARTERLY REPORT

Fourth Quarter and Annual 2017

Prepared for:

Waste Connections

Prepared by:

Arcadis of New York, Inc.

855 Route 146

Suite 210

Clifton Park

New York 12065

Tel 518 250 7300

Fax 518 250 7301

Our Ref.:

22396002.2017

Date:

February 2018

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VERSION CONTROL

Issue	Revision No	Date Issued	Page No	Description	Reviewed by

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TABLES

Table 1. Significant Increase Determinations for Each Routine Parameter at Each Well
Table 2A. Summary of Analytical Results at the Area 6 Groundwater Monitoring Wells- March 2017
Table 2B. Summary of Analytical Results at the Area 6 Groundwater Monitoring Wells- June 2017
Table 2C. Summary of Analytical Results at the Area 6 Groundwater Monitoring Wells- September 2017
Table 2D. Summary of Analytical Results at the Area 6 Groundwater Monitoring Wells- December 2017
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Table 5. Sumary of Analytical Results at the Phase I Cells A and B Secondary Leachate
Table 6. Summary of Analytical Results at the Phase I Cells C and D Secondary Leachate
Table 7. Summary of Analytical Results at the Active Leachate Lagoon

FIGURES

Figure 1. Monitoring Well Locations

Figure 2A. Potentiometric Contours (March 2017)

Figure 2B. Potentiometric Contours (June 2017)

Figure 2C. Potentiometric Contours (September 2017)

Figure 2D. Potentiometric Contours (December 2017)

APPENDICES

A Parameter Concentration Graphs

B Laboratory Analytical Summary Reports December 2017

C Field Sampling Data Forms - December 2017 - Specialized Environmental Monitoring, Inc.

D Database of Historical Analytical Data (On Disc)

E Data Validation – Data Validation Services Inc.

1 INTRODUCTION

The Environmental Monitoring and Site Analytical Plan (EMSAP) describes the protocol and procedures to be employed for monitoring groundwater quality upgradient and downgradient of the Area 6 Lateral Landfill Expansion at the Colonie Landfill (Area 6). This annual report was prepared to fulfill the requirements outlined in the EMSAP, which was prepared in conformance with Chapter 6 of the New York Code of Rules and Regulations (6 NYCRR) Part 360, effective October 9, 1993.

As of November 2004, solid waste has been deposited in the Phase I Cell of Area 6. In addition, solid waste has been deposited in the Phase II Cell of Area 6 since the summer of 2012. Eight monitoring wells comprise the monitoring well network in Area 6. Groundwater samples collected quarterly from these wells are analyzed according to methods described in the EMSAP. The groundwater quality in each sampling event is evaluated with respect to the chemical analytical data. As described in the EMSAP, two criteria are used to evaluate the trends and fluctuations of parameter concentrations in the groundwater. The tests employed for these two criteria show gross changes in parameter concentration and exceedances of background water quality and/or water quality standards. These criteria are described below.

The first criterion is the Means Test. Analytical data for parameters detected in individual wells during background water quality sampling were averaged for each parameter and well ($\overline{X}_E$) and a standard deviation (σ_ε) was calculated. The preliminary groundwater sampling results from August of 1993, March of 1994, July and November of 2003, and June and September of 2004 were used as background concentrations. For each sampling round, the Means Test Criterion is tested for each detected parameter in a given well (x) against the sum of the mean of background water quality ($\overline{X}_E$) and three times the background water quality standard deviation ($3\sigma\varepsilon$). If the concentration of the detected parameter exceeds the mean of the background water quality plus three times the background water-quality standard deviation, the criterion is satisfied.

The second criterion is the Water Quality Test. The concentrations of detected parameters are compared to the mean of the background water quality ($\overline{X}_E$). If the detected value (x) exceeds water quality standards of 6 NYCRR Part 701, 702 and 703, then this criterion is satisfied.

The two criteria above are used to determine whether or not a concentration at a particular monitoring well is significantly different from the pre-operational data, which is used, in part, to calculate the criteria. If the concentration of a parameter satisfies either the Means Test or Water Quality Test, a “significant increase” is triggered for that parameter and specifically discussed in the Environmental Monitoring Report for that sampling event. In future sampling events, parameters that trigger “significant increases” are analyzed further to determine the possible trends in concentrations or to determine if the results are anomalous and require further attention.

2 ANALYTICAL DATA REVIEW

In accordance with the Environmental Monitoring and Site Analytical Plan (EMSAP) which is currently being revised to address changes in the Phase II Area 6 design, four water quality monitoring events were conducted in 2017. Samples were collected by Specialized Environmental Monitoring, Inc. during all four quarters and analyzed by Alpha Analytical, Inc. Samples collected in June 2017 were analyzed for 6 NYCRR Part 360 baseline parameters and samples collected in March, September, and December 2017 were analyzed for 6 NYCRR Part 360 routine parameters. Secondary leachate samples were collected from the secondary containment systems in Cells A and B in Phase I and Cells C and D in Phase II during all four sampling events. Leachate samples were collected from the active, primary leachate lagoon during all four sampling events. Discharge water from the Phase I and Phase II pore pressure relief systems (PPRS) were also sampled in all four quarters of 2017. Since no surface water was present in the wetland area located downgradient of Area 6 (sample location SW-3), samples were not collected during any of the 2017 events.

The 2017 analytical data and field measurements of groundwater samples collected from monitoring wells with the prefix “MPI” were statistically evaluated in accordance with the criteria described in Section 1.0. It is important to understand that the statistical identification of a “significant increase” does not necessarily indicate that groundwater standards are exceeded or that groundwater chemistry is appreciably changing. Frequently these statistical identifications are attributable to natural groundwater quality variability, seasonal precipitation and water level trends (wet years versus dry years), changing oxidation-reduction conditions altering the solubility of metals, changing upgradient groundwater quality, or other factors not attributable to the landfill. As stated in Section 1.0, the background concentration data against which the current analytical results are compared, is based upon four sample results at each well. While not a requirement, a larger background dataset could more fully account for natural temporal fluctuations associated with variable precipitation, groundwater levels, etc. and reduce the number of false positives (i.e., identification of a “significant increase” that is not valid). The rationale is that the larger background dataset more accurately reflects the true data population and thus results in a more robust statistical analysis. In short, the use of only four background samples for statistical analysis may result in false positives that do not accurately reflect existing water quality data.

Another factor for consideration are changes in upgradient water quality. The “significant increases” at several downgradient wells are representative of “significant increases” also identified at wells upgradient of the landfill and indicate consistent groundwater. Upgradient data for Area 5 from the MPI-4 well cluster has generally shown consistent concentrations through time. However, upgradient wells for Area 6 show increasing trends for several parameters. Changes in upgradient water quality should also be expected in downgradient wells. It is likely that several “significant increases” observed in the Area 6 downgradient wells represent upgradient changes in water quality.

The following presents the statistical analysis as called for under the current EMSAP, while acknowledging the limitations identified above.

Using the statistical criteria discussed in Section 1.0 and presented in the EMSAP, 21 “significant increases” were calculated at the end of 2017 based on the analytical results of routine parameters of samples collected in December 2017 from the groundwater monitoring network:

- Total Kjeldahl Nitrogen (TKN) at upgradient well PZ-3;
- Calcium, iron, manganese, sodium, chloride, sulfate, and total dissolved solids (TDS) at upgradient well CHA-6I;
- Sodium and sulfate at downgradient well CHA-3I;
- Sodium, ammonia, chloride, and TDS at well CHA-8I; and
- Manganese, sodium, chloride, chemical oxygen demand (COD), nitrate, sulfate, and TKN at well CHA-8S.

“Significant increase” determinations and analytical results for all four sampling events are summarized in Tables 1 through 7 and discussed herein. Concentrations of iron, manganese, sodium, sulfate, TDS, and total phenols were specifically evaluated because they exceeded applicable New York State Department of Environmental Conservation (NYSDEC) groundwater standards during pre-operational sampling. In addition, parameters that currently show “significant increases” in a particular monitoring well when evaluated against the EMSAP criteria are also discussed. Graphs of the concentrations of each parameter that has exceeded NYSDEC GA Standards at a particular well during background sampling are provided in Appendix A. The laboratory analytical summary report is provided in Appendix B and the field sampling data forms are provided in Appendix C.

Analytical results of groundwater samples collected at the Phase I and II monitoring well locations and the Phase I PPRS were statistically evaluated and are discussed in Section 2.2. Analytical results collected at the Phase II PPRS were statistically evaluated for the twelfth time in December 2017. The data collected from the Phase II PPRS in 2013 was used to establish average background concentrations. A statistical analysis is provided in Section 2.2.

A discussion of the analytical results of the secondary leachate and lagoon samples is provided in Section 2.3.

A database of all current and historical analytical results for the Area 6 Lateral Landfill Expansion has been generated. The database is provided as Appendix D and replaces historical summary tables that had been provided in previous quarterly reports.

2.1 Data Usability

An independent, third-party data validator assessed the quality assurance and quality control (QA/QC) of the baseline analytical data from the June 2017 sampling event. The data validation report is provided in Appendix E. The analytical data for the June 2017 sampling event met the requirements of the NYSDEC ASP either as reported or with minor qualifications.

Volatile Organic Compounds

Accuracy and precision evaluations were performed with matrix spikes of PPRS Phase II and show acceptable recoveries and correlations, with the exception of the recoveries for trans-1,4-dichloro-2-butene (60% and 65%). The result for that compound in the parent sample is to be qualified as estimated in value ("UJ"). The results for iodomethane in the samples reported in SDG L1720031 are to be qualified as estimated ("UJ") due to low recoveries (54% to 57%) in the associated laboratory control samples (LCS). The field duplicate evaluation between CHA-8S and Duplicate shows acceptable correlations. Holding times were met, and blanks show no contamination. Surrogate and internal standard recoveries meet protocol and validation requirements. The calibration standards associated with the validated sample MPI-11I and the other samples reported in SDG L1720031 show outlying responses for bromomethane, iodomethane, and bromoform (21%D to 46%D; iodomethane with low RRF <0.05). The results for those compounds in the samples reported in that SDG are to be qualified as estimated ("UJ").

Metals

The detections of antimony in samples reported in SDG 1720031 that are flagged by the laboratory as "J" are to be edited to non-detection ("U" or "ND") at either the originally reported concentration or the reporting limit, whichever is greater, due to presence of that element in the associated blanks. Matrix spike recovery/duplicate correlation evaluations were performed on MPI-11S, CHA-3S, and PPRS Phase II. Recoveries and duplicate correlations are within laboratory and validation guidelines. The field duplicate evaluation between CHA-8S and duplicate shows acceptable correlations. The ICP serial dilution evaluations performed on MPI-11S, CHA-3S, and PPRS Phase II show acceptable correlations.

Leachate Indicator Parameters

Review was conducted for method compliance, transcription, calculations, standard and blank acceptability, accuracy and precision, etc., as applicable to each procedure. All associated with validation samples were found acceptable unless noted specifically within this text. The matrix spike/duplicate evaluations were performed for all analytes on PPRS in Phase II. Recoveries and correlations are within validation guidelines. Numerous additional project matrix spikes were performed, and show acceptable recoveries and correlations, with the exception of the recoveries for bromide, chloride, and sulfate (70% to 79%) in CHA-8I. The results for those analytes in the parent sample are to be qualified as estimated in value ("J"). The field duplicate evaluation between CHA-8S and duplicate shows an outlying correlation for color. The results for that analyte in the parent sample and duplicate are to be qualified as estimated in value ("UJ" or "J").

2.2 Statistical Analysis of 2017 Analytical Data

Volatile Organic Compounds

Samples collected in June 2017 were analyzed for baseline parameters, which includes volatile organic compounds (VOCs). No VOCs were detected above the reporting limits during the baseline event.

Leachate Indicator Parameters

Ammonia –In September 2017 the concentration of ammonia at CHA-8I (0.12 mg/l) triggered a "significant increase". In December 2017 the concentration of ammonia at CHA-8I decreased slightly (0.085 mg/l) but still triggered a "significant increase. "Significant increases" are occasionally triggered at this location; however, these results are within the range of previous results and do not exceed the previous maximum concentration of 0.16 mg/l (December 2012). No ammonia concentrations exceeded the NYSDEC GA Standard of 2 mg/l in 2017.

Chemical Oxygen Demand – COD concentrations triggered "significant increases" at monitoring well CHA-8S during every event in 2017. The COD concentration at CHA-8S has triggered a "significant increase" during the last 16 consecutive quarters, primarily due to a low background concentration (2.03 mg/l). In the first two quarters of 2017 COD concentrations triggered "significant increases" at CHA-8I. In September and December 2017, COD at CHA-8I decreased and did not trigger a "significant increase". In June 2017 the COD concentration at PZ-3 (13 mg/l) triggered a "significant increase" and in September 2017, the COD concentration at PZ-3 increased to a new maximum (80 mg/l) and again triggered a "significant increase". During the last quarter of 2017, COD decreased at PZ-3 and was not detected.

Chloride – Chloride concentrations triggered "significant increases" at monitoring wells CHA-6I, CHA-8I, and CHA-8S during every quarter in 2017. Chloride concentrations at these wells have triggered "significant increases" during every sampling event since the Area 6 Phase II operational sampling began in 2012, primarily due to very low background concentrations in each well. All concentrations were within the range of previous results. None of the chloride concentrations exceeded the NYSDEC GA Standard of 250 mg/l in 2017.

Nitrate –The nitrate concentration at CHA-8S triggered a "significant increase" in all but the second quarter of 2017. These results were within the historical range for this location. All other nitrate concentrations in Area 6 monitoring wells in 2017 were within historical ranges and were significantly less than the NYSDEC GA Standard of 10 mg/l.

Sulfate – In every quarter of 2017, the sulfate concentrations at wells CHA-6I and CHA-8S triggered "significant increases". The 2017 sulfate concentrations at CHA-6I and CHA-8S were consistent with historical results. The sulfate concentration at CHA-6I has exceeded the NYSDEC GA Standard of 250 mg/l during every sampling event in which a significant increase was triggered, and also during background events. The "significant increases" calculated at CHA-8S are typically triggered by satisfying the means test criterion and are consistent with historical results. In December 2017 a "significant increase" was calculated for sulfate at CHA-3I (130 mg/l). The concentration at this location is within the range of previous values at this location.

Total Dissolved Solids – "Significant increases" for TDS have been calculated at upgradient well CHA-6I during every sampling event since operational sampling began in December 2012. The concentration of TDS at CHA-6I increased slightly in each quarter of 2017. In December 2017, the concentration of TDS (990 mg/l) increased from September 2017 (970 mg/l) and triggered a "significant increase". These results were within the range of previous results.

A "significant increase" was also calculated at CHA-8I in September 2017, based on a concentration of 330 mg/l. "Significant increases" are occasionally triggered at CHA-8I by satisfying the means test; however, the results over time appear relatively stable. In December 2017 the concentration of TDS at CHA-8I (360 mg/l) increased slightly and again triggered a "significant increase".

The TDS concentration at MPI-11S in December 2017 (710 mg/l) increased from the September 2017 result (640 mg/l), but was less than the maximum concentration set in March 2017. TDS results at MPI-11S have shown an increasing trend since 2010.

TDS concentrations exceeded the NYSDEC GA Standard of 500 mg/l at CHA-6I and MPI-11S during the December 2017 event. The TDS concentrations in groundwater samples collected from CHA-3S have consistently been greater than at any of the other Area 6 Phase I monitoring wells (typically an order of magnitude greater); however, the volume of water in this well has historically been low, and is occasionally dry, as was the case in December 2017. The high concentration of TDS is likely related to the low volume of water available for sampling.

Total Kjeldahl Nitrogen – Upgradient well PZ-3 triggered significant increases in March, September and December 2017. The December result (522 mg/l) was the lowest result of these three concentrations.

A "significant increase" was calculated at CHA-8S for TKN in December 2017 based on a concentration of 2.78 mg/l. This concentration is within the historical results at CHA-8S. The concentration of TKN at CHA-8S did not trigger a "significant increase" in any other quarters of 2017.

In March 2017 a "significant increase" was calculated at CHA-8I for TKN based on a concentration of 1.05 mg/l. This exceeded the previous maximum concentration of 0.709 mg/l in September 2016. In June 2017 the TKN concentration at CHA-8I (1.32 mg/l) again triggered a "significant increase" and exceeded the March 2017 maximum. In September 2017 the concentration of TKN at CHA-8I decreased to 0.32 mg/l but still triggered a "significant increase". In December 2017 the TKN concentration increased slightly to 0.49 mg/l but did not trigger a "significant increase". The concentration of TKN at this location has been increasing since 2013.

Total Phenols – In March 2017 total phenols were detected at one location, CHA-3I (0.009 mg/l), and did not trigger a "significant increase". In June 2017, the total phenol concentration (estimated by the laboratory with a 'J' qualifier) at PZ-3 (0.02 J mg/l) triggered a "significant increase". In September 2017, the PZ-3 result decreased to a concentration of 0.01 J mg/l but still triggered a "significant increase" by satisfying both the Means and Water Quality tests. In December 2017 concentrations of total phenols did not trigger "significant increases" at any location.

In December 2017, total phenols were detected at CHA-3I at an estimated concentration of 0.01 J mg/l. This concentration exceeded the NYSDEC GA Standard of 0.001 mg/l, which occurs at this location periodically.

Metals

Aluminum- In June 2017 a "significant increase" was calculated for the baseline parameter aluminum at CHA-6I (296 µg/l). This result exceeded the previous maximum concentration of 143 J µg/l in May 2014.

Iron – "Significant increases" were calculated for iron at CHA-6I in all four quarters of 2017. With the exception of MPI-11S, MPI-11I, and MPI-8I, iron concentrations in all Area 6 monitoring wells exceeded the NYSDEC GA Standard of 300 µg/l. During every background sampling event, iron concentrations exceeded the NYSDEC GA Standard at all existing Area 6 monitoring wells, including upgradient monitoring well PZ-3.

Manganese – "Significant increases" were calculated at monitoring well CHA-8S in all quarters in 2017. In December 2017, the manganese concentration at CHA-8S (688 ug/l) was the lowest of all four quarters. All 2017 results were within the range of previous results. Concentrations of manganese at well CHA-6I triggered "significant increases" in June (580.2 µg/l), October (371 µg/l), and December 2017 (364.8 µg/l). These concentrations are consistent with historical results. Every manganese concentration at CHA-6I and CHA-8S that triggered "significant increases" in 2017 also exceeded the NYSDEC GA Standard of 300 mg/l. In December 2017 the manganese concentration at CHA-3I (350.3 µg/l) exceeded the NYSDEC GA Standard for manganese but did not trigger a "significant increase".

Sodium – "Significant increases" were calculated for sodium at CHA-3I, CHA-6I, CHA-8I and CHA-8S in all quarters of 2017. In the Fourth Quarter 2017, "significant increases" were based on the following concentrations: CHA-3I (60,300 ug/l), CHA-6I (54,300 ug/l), CHA-8I (28,500 ug/l), and CHA-8S (29,200 ug/l). These results were within the range of previous concentrations at each location.

Sodium concentrations at all Area 6 monitoring wells (with the exception of PZ-3) exceeded the NYSDEC Standard in each quarter of 2017, which is consistent with previous results. During every pre-operational sampling event, NYSDEC GA Standards were exceeded at CHA-3I, and upgradient well CHA-6I. It is common for these locations to trigger "significant increases" based on satisfying the Water Quality test. All 2017 results were within the range of previous results at each location.

Field Parameters

A "significant increase" had been calculated at PZ-3 for reduction-oxidation potential (Field Eh) during the last 14 quarters, excluding March 2017. In December 2017, Field Eh again triggered a "significant increase" based on a result of 214 millivolts (mV) which is within the historical values for this location. Field parameters are used for general monitoring purposes and no action is required according to the EMSAP.

PPRS Data Analysis

PPRS in Phase I – Analytical results for the PPRS in Phase I of Area 6 are summarized in Table 3. Trigger values for data collected from the Phase I PPRS were calculated prior to the March 2006 sampling event. Background data for this evaluation was based on pre-operational PPRS samples collected between December 2004 and December 2005.

Concentrations of iron, manganese, sodium, total phenols, and TDS triggered "significant increases" during every sampling event in 2017, which is consistent with previous results. In addition, in June 2017, "significant increases" were triggered for the baseline parameters arsenic (0.00555 µg/l), boron (0.5 µg/l), and zinc (0.00609 J µg/l). Routine parameters color (86 color units) and temperature (25.4 ^{o}C) also triggered "significant increases". The baseline results did not exceed the NYSDEC GA Standards, and were within the range of previous results. In December 2017 concentrations of sulfate (1,640 mg/l) and field eH (-20 mV) also triggered "significant increases", which is typical.

PPRS in Phase II - Analytical results for the PPRS in Phase II of Area 6 are summarized in Table 4. A sample was collected from the Phase II PPRS for the 20th time in December 2017 and this data was included in the statistical analyses. Background data for this evaluation was based on PPRS samples collected between February 2013 and December 2013. Overall, the concentrations were similar to the metals and leachate concentrations in PPRS Phase I, with the exception of iron and manganese which were higher in PPRS Phase I than Phase II. Potassium was higher in Phase II than Phase I. The following constituents triggered "significant increases" in all four quarters of 2017, with December 2017 concentrations shown: alkalinity (445 mg/l), ammonia (0.817 mg/l), calcium (454 mg/l), iron (1.51 mg/l), manganese (3.94 mg/l), potassium (13.4 mg/l), sulfate (1,900 mg/l), and TOC (1.15 mg/l). Chloride and hardness triggered "significant increases" in all quarters but March 2017, most recently in December 2017 with concentrations of 13.9 mg/l and 1.898 mg/l, respectively. TKN triggered "significant increases" in September and December 2017 (0.872 mg/l). "Significant increases" were triggered in March 2017 for sodium (84.8 mg/l) and total phenols (0.015 mg/l). New maximum concentrations were set for potassium (13.4 mg/l) and alkalinity (445 mg/l) in December 2017. TDS was at a concentration equal to the previous maximum (2,800 mg/l) in December 2017. These new maximum concentrations exceeded previous maximums for alkalinity in September 2015, potassium in June 2016, and TOC in September 2017. With the exception of potassium, alkalinity and TDS, results for the year at the PPRS in Phase II were within the range of previous concentrations at this location.

Total phenols had triggered a "significant increase" for the first time in May 2015 (7 mg/l) and had been detected for the first time in March 2015 (0.012 J mg/l). In March 2017, total phenols again triggered a "significant increase" at this location (0.015 J mg/l). In June and December 2017 the concentration decreased to more typical levels.

Consistent with previous sampling events, iron, manganese, phenols, sodium, sulfate and TDS concentrations exceeded the respective NYSDEC GA Standards in December 2017.

2.3 Qualitative Data Analysis

Analytical results of samples from the secondary leachate and the leachate lagoon were not included in the statistical analysis. A discussion of the analytical results of the leachate samples is provided below.

Secondary Leachate – Cells A and B: Individual leachate samples were collected from the containment systems in Area 6 Phase I (Cells A and B) during all four quarters of 2017 to evaluate the parameter concentrations in each cell. Composite samples from Cells A and B were collected during the first operational sampling event in December 2004. In 2017, most leachate indicator parameters and metal concentrations were slightly greater, but generally similar in Cell B than in Cell A. Analytical results are provided in Tables 5 and 6.

Since March 2009, sodium concentrations in Cells A and B have generally been higher in comparison to concentrations collected prior to March 2009. Since December 2015, however, sodium in Cell A has decreased.

No VOCs were detected in Cell A or Cell B during the June 2017 baseline event.

The concentrations of calculated hardness (494 mg/l) and sulfate (110 mg/l) in Cell A in December 2017 represent new maximums for this location. However, these results are within the range of previous results.

Secondary Leachate – Cells C and D: Individual leachate samples were collected from the containment systems in Cells C and D in all four quarters of 2017 to evaluate the parameter concentrations in each cell. Analytical results are provided in Table 6. In comparison to Cells A and B, the results from Cells C and D were generally similar.

Benzene (0.64 µg/l) was the only VOC detected in Cell C in the June 2017 baseline event. No VOCs were detected in Cell D in June 2017.

Lagoon: Analytical results for the lagoon sample are summarized in Table 7. As described in the EMSAP, the waste stream from the Area 6 Lateral Landfill Expansion is the same as the waste stream from the existing Area 5 Landfill. A primary leachate sample was collected from the northern lagoon, and is representative of leachate quality in both the Area 5 Landfill and Area 6 Lateral Landfill Expansion. The leachate sampled from the active leachate lagoon is considered representative of the leachate quality in Area 6. In December 2017, a new maximum concentration was set for calcium (594 mg/l), exceeding the previous maximum (360 mg/l – October 2016). A new maximum concentration was also set for sodium (2,080 mg/l), exceeding the previous maximum observed in September 2017 (1810 mg/l). A new maximum has been set for sodium in the last three quarters. The concentrations of all routine leachate parameters and metals were within the range of previous results at this location.

The following VOCs were detected during the June 2017 baseline event:

- 1,2-Dichloroethane (0.62 µg/l)
- 1,4-Dichlorobenzene (1.6 J µg/l)
- 2-Butanone (340 E µg/l)
- 2-Hexanone (1.8 J µg/l)
- 4-Methyl, 2-Pentanone (8.1 µg/l)
- Acetone (440 E µg/l)
- Benzene (2.2 µg/l)
- Chlorobenzene (1.8 J µg/l)
- Cis-1,2-Dichloroethylene (0.72 J µg/l)
- Toluene (1.4 J µg/l)
- Xylene, Total mp (2.3 J µg/l)
- Xylene, Total o (2 J µg/l)

3 GROUNDWATER ELEVATION DATA

Water levels measured in the Area 5 and Area 6 monitoring wells and piezometers in 2017 were used to contour the potentiometric surface as shown on Figures 2A, 2B, 2C, and 2D. Topographic contours provided on these figures are based on aerial photogrammetric data collected in November 2010. Based on the potentiometric contours, groundwater generally flows from west to northeast toward the Mohawk River. Groundwater levels beneath the central portions of the existing landfill and landfill expansion are influenced by the pore pressure relief systems (PPRS) in Area 5, Cells A, B and D, and Area 6, Cells A, B, C and D.

At the end of 2017, the groundwater elevations varied in relation to the average fourth quarter elevations, the September 2017 elevations and the December 2016 elevations. Compared to fourth quarter averages, the groundwater elevations measured in December 2017 were 0.59 feet lower. Compared to the measurements in September 2017, groundwater elevations were on average 0.76 feet lower in December 2017. Compared to the results from the last coincident quarter (December 2016), groundwater elevations were on average 0.36 feet lower. Groundwater elevations recorded during fourth quarter 2017 event represent a slightly lower water table than typical at this site. The greatest fluctuation in 2017 was in CHA-3S, where the elevation in September 2017 was 5.66 feet lower than in June 2017.

4 SUMMARY

In 2017, the number of “significant increases” designated for Area 6 wells was 17 in March, 27 in June, 27 in October and 21 in December. Of those total designations in 2017, 9 were from upgradient monitoring well PZ-3, and 27 were from upgradient well CHA-6I.

The “significant increase” designations at the end of 2017 were based on concentrations of:

- TKN at upgradient well PZ-3;
- Calcium, iron, manganese, sodium, chloride, sulfate, and TDS at upgradient well CHA-6I;
- Sodium and sulfate at downgradient well CHA-3I;
- Sodium, ammonia, chloride, and TDS at well CHA-8I; and
- Manganese, sodium, chloride, COD, nitrate, sulfate, and TKN at well CHA-8S.

Upgradient well PZ-3 is adjacent to a storm water retention basin, which is also upgradient of the Area 6 lateral landfill expansion. It is unlikely that fluctuations in COD, nitrate, total phenols, and TKN concentrations in PZ-3 are related to conditions in the landfill, but direct or indirect effects from the storm water basin cannot be ruled out. Continued quarterly monitoring results, coupled with observed water levels in the basin before sampling events, will be used to evaluate these potential effects.

Wells CHA-8S and CHA-8I are located adjacent to the landfill gas-to-energy facility in the southeastern portion of Area 6. The water level elevation in CHA-8S is higher than other wells in the vicinity and higher than the PPRS elevation, indicating that the observed fluctuations in COD, iron, nitrate and sulfate concentrations are more likely related to conditions local to well cluster CHA-8S/8I versus the Area 6 landfill expansion.

In June 2017, three samples triggered “significant increases” in baseline parameters in the Area 6 monitoring network. CHA-6I triggered one baseline parameter: aluminum (296 µg/l). CHA-8S triggered four baseline parameters: antimony (10.29 µg/l), boron (104 µg/l), cobalt (21.71 µg/l), and nickel (17.73 µg/l). Arsenic (5.55 µg/l) and boron (500 µg/l) also triggered “significant increases” in the June 2017 baseline event at the PPRS in Phase I. The concentration of boron decreased between 2015 and 2016, and also from 2016 to 2017. Prior to 2015, the boron concentration had been increasing at the PPRS in Phase I.

At the end of 2017, the following field parameter triggered a “significant increase”:

- Oxidation-reduction potential (Eh) at PZ-3.

Field parameters are used for general monitoring purposes and no action is required according to the EMSAP.

In 2017, the individual samples collected from the secondary leachate collection systems in Cells A, B, C and D generally contained metal and leachate indicator parameter concentrations less than the corresponding concentrations in the leachate lagoon samples, indicating that the primary leachate is not impacting the secondary leachate system.

Since March 2009, sodium concentrations in the secondary leachate of Cells A and B have generally been greater in comparison to concentrations collected prior to March 2009, and continue to increase. These concentration trends are not apparent in the PPRS samples, and sodium concentrations are generally less than those in the secondary leachate, indicating that there is no evidence of cross-connection between the secondary leachate system and the PPRS.

Leachate analytical results were evaluated qualitatively. In 2017, the parameter concentrations in the lagoon sample were significantly different than those in the individual samples from the secondary leachate collection systems in Cells A, B, C, and D, indicating no cross-contamination between these systems. The geochemistry of the PPRS samples was also significantly different from the leachate samples, indicating that leachate is not affecting water quality in the PPRS.

CONCLUSIONS

At the end of 2017, the total number of “significant increases” (21) was seven less than at the end of 2016 (28). As noted above, many designations were attributed to concentrations at the upgradient wells PZ-3 and CHA-6I; therefore, continued monitoring in accordance with the EMSAP is appropriate for 2018. Throughout 2017, the total number of “significant increases” for routine parameters at the Phase I and II PPRS remained consistent, with the exception of March 2017, during which fewer “significant increases” were calculated than what is typical. Concentrations of baseline parameters triggered two “significant increases” in the Phase I PPRS in June 2017. No concentrations of baseline parameter “significant increases” were triggered at the Phase II PPRS. A majority of the parameters that triggered “significant increases” routinely exceeded the corresponding NYSDEC GA Standards during other operational sampling events. Based on the discussion of the analytical results above, the “significant increases” calculated in 2017 were not considered to be attributable to a potential release from the Area 6 landfill expansion.

The conclusion that the majority of the parameters are stable over the last four years is consistent with the discussion presented in Section 2.0, in which it was stated that the identification of significant increases as currently called for in the EMSAP does not necessarily indicate that groundwater standards are exceeded or that groundwater chemistry is appreciably changing.

TABLES

Table 1
Significant Increase Determinations for Each Routine Parameter at Each Well
Area 6 Monitoring Network, Colonie Landfill

	Fourth Qtr 2004 December 2004	First Qtr 2005 March 2005	Second Qtr 2005 June 2005	Third Qtr 2005 September 2005	Fourth Qtr 2005 December 2005
CHA-2I / PZ-3*	Calcium Alkalinity Total Dissolved Solids Total Hardness	Calcium Alkalinity Total Dissolved Solids Total Hardness Total Phenols	Alkalinity Total Phenols	Calcium Alkalinity Total Phenols	Calcium Alkalinity Total Dissolved Solids Total Phenols
CHA-3S	Well Dry - no sample collected	Well Dry - no sample collected	Well Dry - no sample collected	Well Dry - no sample collected	Not enough data to calculate significant increase designations
CHA-3I	Lead Sodium		Nitrate		Nitrate
CHA-8I					
CHA-8S					
CHA-6I					
PHASE I PPRS					
PHASE II PPRS					

*** PZ-3 replaced**

CHA-2I in June 2008

Table 1
Significant Increase Determinations for Each Routine Parameter at Each Well
Area 6 Monitoring Network, Colonie Landfill

	First Qtr 2006 March 2006	Second Qtr 2006 June 2006	Third Qtr 2006 September 2006	Fourth Qtr 2006 December 2006	First Qtr 2007 March 2007
CHA-2I / PZ-3*	Calcium Alkalinity Total Dissolved Solids Total Phenols	Calcium Lead Alkalinity Total Dissolved Solids Total Hardness Total Phenols	Calcium Lead Alkalinity Total Phenols	Calcium Lead Alkalinity Total Dissolved Solids Total Phenols	No sample collected
CHA-3S	Not enough data to calculate significant increase designations	Not enough data to calculate significant increase designations	Well Dry - no sample collected	Not enough data to calculate significant increase designations	Well Dry - no sample collected
CHA-3I	Sodium BOD5 Specific Conductance	Sodium Specific Conductance	Sodium Nitrate Specific Conductance		Sodium Total Phenols Specific Conductance
CHA-8I					
CHA-8S					
CHA-6I					
PHASE I PPRS	Iron Sodium Manganese TDS	Iron Sodium Manganese Specific Conductance TDS	Iron Sodium Manganese Specific Conductance TDS	Iron Sodium Manganese Specific Conductance TDS	Iron Sodium Sulfate Manganese Specific Conductance TDS
PHASE II PPRS					

*** PZ-3 replaced**

CHA-2I in June 2008

Table 1
Significant Increase Determinations for Each Routine Parameter at Each Well
Area 6 Monitoring Network, Colonie Landfill

	Second Qtr 2007 June 2007	Third Qtr 2007 September 2007	Fourth Qtr 2007 December 2007	First Qtr 2008 March 2008	Second Qtr 2008 June 2008
CHA-2I / PZ-3*	No sample collected	No sample collected	No sample collected	No sample collected	
CHA-3S	Well Dry - no sample collected	Well Dry - no sample collected	Not enough data to calculate significant increase designations	Not enough data to calculate significant increase designations	Well Dry - no sample collected
CHA-3I	Sodium Sulfate Specific Conductance	Sodium Nitrate Nitrate	Sodium Specific Conductance	Sodium Specific Conductance	Sodium Specific Conductance
CHA-8I					
CHA-8S					
CHA-6I					
PHASE I PPRS	Iron Sodium Sulfate Manganese Specific Conductance TDS	Iron Sodium Sulfate Lead Manganese Specific Conductance TDS	Iron Sodium Sulfate Lead Manganese Specific Conductance TDS	Iron Sodium Sulfate Manganese Total Phenols Specific Conductance TDS	Iron Sodium Sulfate Manganese Total Phenols Specific Conductance TDS
PHASE II PPRS					

*** PZ-3 replaced**

CHA-2I in June 2008

Table 1
Significant Increase Determinations for Each Routine Parameter at Each Well
Area 6 Monitoring Network, Colonie Landfill

	Third Qtr 2008 September 2008	Fourth Qtr 2008 December 2008	First Qtr 2009 March 2009	Second Qtr 2009 June 2009
CHA-2I / PZ-3*		COD Nitrate	Iron Nitrate	Nitrate Total Phenols
CHA-3S	Well Dry - no sample collected	Not enough data to calculate significant increase designations	Not enough data to calculate significant increase designations	Not enough data to calculate significant increase designations
CHA-3I	Sodium Specific Conductance	Specific Conductance	Sodium Specific Conductance	Sodium Specific Conductance
CHA-8I				
CHA-8S				
CHA-6I				
PHASE I PPRS	Iron Sodium Sulfate Manganese Specific Conductance TDS	Iron Sodium Sulfate Manganese Specific Conductance TDS	Iron Sodium Lead Manganese Total Phenols Specific Conductance TDS	Iron Sodium Manganese TDS
PHASE II PPRS				

*** PZ-3 replaced**

CHA-2I in June 2008

Table 1
Significant Increase Determinations for Each Routine Parameter at Each Well
Area 6 Monitoring Network, Colonie Landfill

	Third Qtr 2009 September 2009	Fourth Qtr 2009 December 2009	First Qtr 2010 March 2010	Second Qtr 2010 June 2010
CHA-2I / PZ-3*	Iron COD Potassium Chloride Manganese Total Nitrogen	Iron COD Manganese Total Nitrogen Total Phenols	Iron COD Nitrate Manganese Total Nitrogen	Iron COD Nitrate Total Nitrogen
CHA-3S	Well Dry - no sample collected	Not enough data to calculate significant increase designations	Not enough data to calculate significant increase designations	Well Dry - No sample collected
CHA-3I	Specific Conductance	Sodium Specific Conductance	Sodium Specific Conductance	Sodium Nitrate Specific Conductance
CHA-8I				
CHA-8S				
CHA-6I				
PHASE I PPRS	Iron Sodium Manganese Total Phenols Specific Conductance TDS	Iron Sodium Manganese Total Phenols TDS	Ammonia Iron Sodium Sulfate Manganese TDS	Iron Sodium Sulfate Manganese TDS
PHASE II PPRS				

*** PZ-3 replaced**

CHA-2I in June 2008

Table 1
Significant Increase Determinations for Each Routine Parameter at Each Well
Area 6 Monitoring Network, Colonie Landfill

	Third Qtr 2010 September 2010	Fourth Qtr 2010 December 2010	First Qtr 2011 March 2011	Second Qtr 2011 June 2011
CHA-2I / PZ-3*	Aluminum Iron COD Chromium Total Nitrogen Vanadium	COD Nitrate Total Nitrogen	Iron COD Nitrate Manganese Total Nitrogen	Iron
CHA-3S	Well Dry - No sample collected	Not enough data to calculate significant increase designations	Not enough data to calculate significant increase designations	
CHA-3I	Sodium Nitrate Total Phenols	Sodium Sulfate Specific Conductance	Sodium Specific Conductance	Sodium
CHA-8I				
CHA-8S				
CHA-6I				
PHASE I PPRS	Iron Sodium Manganese TDS	Iron Sodium Manganese	Iron Sodium Manganese TDS	Iron Sodium Manganese TDS
PHASE II PPRS				

*** PZ-3 replaced**

CHA-2I in June 2008

Table 1
Significant Increase Determinations for Each Routine Parameter at Each Well
Area 6 Monitoring Network, Colonie Landfill

	Third Qtr 2011 September 2011	Fourth Qtr 2011 December 2011	First Qtr 2012 March 2012	Second Qtr 2012 June 2012
CHA-2I / PZ-3*	Manganese	Bromide Nitrate Total Phenols	Nitrate Field pH	Iron Nitrate
CHA-3S		Not enough data to calculate significant increase designations	Not enough data to calculate significant increase designations	Not enough data to calculate significant increase designations
CHA-3I	Sodium	Sodium Total Phenols	Sodium Nitrate	Sodium Bromide Nitrate
CHA-8I				
CHA-8S				
CHA-6I				
PHASE I PPRS	Iron Sodium Manganese TDS	Bromide Iron Sodium Sulfate Manganese Magnesium Total Phenols TDS	Iron Sodium Manganese Magnesium	Iron Sodium Manganese Magnesium TDS
PHASE II PPRS				

*** PZ-3 replaced**

CHA-2I in June 2008

Table 1
Significant Increase Determinations for Each Routine Parameter at Each Well
Area 6 Monitoring Network, Colonie Landfill

	Third Qtr 2012 Sept 2012	Fourth Qtr 2012 December 2012	First Qtr 2013 February 2013	Second Qtr 2013 May 2013	Third Qtr 2013 August 2013
CHA-2I / PZ-3*	Aluminum Chromium Iron Nitrate Vanadium	Total Phenols Iron Nitrate Field pH	Iron Nitrate COD	Iron Nitrate COD	Iron Nitrate TKN
CHA-3S	Not enough data to calculate significant increase designations	Not enough data to calculate significant increase designations	Not enough data to calculate significant increase designations	Not enough data to calculate significant increase designations	Well Dry - No sample collected
CHA-3I	Sodium	Sodium Sulfate Nitrate	Sodium Nitrate Nitrate	Sodium	Sodium Nitrate Nitrate
CHA-8I		Ammonia Chloride Sodium TDS	Ammonia Chloride Sodium	Ammonia Chloride Sodium	Chloride Sodium
CHA-8S		Iron Manganese Sodium Chloride Nitrate Sulfate	Sodium Chloride Nitrate Sulfate	Iron Manganese Sodium Chloride Nitrate Sulfate COD	Sodium Chloride Nitrate Sulfate
CHA-6I		Calcium Chloride Calculated Hardness Iron Manganese Total Phenols Sodium Sulfate TDS	Calcium Chloride Calculated Hardness Iron Sodium Sulfate TDS	Calcium Chloride Calculated Hardness Iron Manganese Sodium Sulfate TDS	Calcium Chloride Iron Manganese Sulfate TDS
PHASE I PPRS	Arsenic Boron Chromium Iron Sodium Manganese Vanadium TDS	Iron Sodium Manganese Total Phenols	Iron Sodium Manganese Lead	Iron Sodium Manganese Lead	Iron Sodium Manganese Lead
PHASE II PPRS					

*** PZ-3 replaced**

CHA-2I in June 2008

Table 1
Significant Increase Determinations for Each Routine Parameter at Each Well
Area 6 Monitoring Network, Colonie Landfill

	Fourth Qtr 2013 November 2013	First Qtr 2014 March 2014	Second Qtr 2014 May 2014	Third Qtr 2014 September 2014	Fourth Qtr 2014 December 2014
CHA-2I / PZ-3*	Aluminum Chromium Iron Hexavalent Chromium Nitrate Field Eh Vanadium	Iron Nitrate Field Eh Field pH	Nitrate Field Eh	Nitrate TKN COD Field Eh Field Ph	Iron Nitrate TKN TOC Field Eh
CHA-3S	Not enough data to calculate significant increase designations	Not enough data to calculate significant increase designations	Not enough data to calculate significant increase designations	Not enough data to calculate significant increase designations	Not enough data to calculate significant increase designations
CHA-3I	Sodium Nitrate Nitrate	Sodium	Sodium Nitrate	Sulfate Nitrate Specific Conductivity	Sodium Nitrate Phenols Sulfate Specific Conductivity
CHA-8I	Chloride Sodium	Ammonia Chloride Sodium TDS	Chloride Sodium	Sodium Ammonia Chloride TDS	Sodium Chloride Nitrate TDS
CHA-8S	Sodium Chloride Nitrate Sulfate	Iron Lead Sodium Chloride Nitrate Manganese COD	Iron Chloride COD Nitrate Sodium Vanadium	Sodium Chloride COD Nitrate Sulfate	Iron Sodium Chloride COD Nitrate Sulfate
CHA-6I	Calcium Chloride Calculated Hardness Iron Manganese Sodium Sulfate TDS	Calcium Chloride Calculated Hardness Iron Manganese Sodium Sulfate TDS	Calcium Chloride Calculated Hardness Sodium Sulfate TDS	Calcium Chloride Calculated Hardness Iron Manganese Sulfate TDS	Iron Sodium Chloride TDS Sulfate
PHASE I PPRS	Arsenic Boron Chromium Iron Sodium Manganese Silver Zinc Field Eh	Iron Manganese Sodium Field Eh	Iron Manganese Sodium Field Eh Color Arsenic Boron Zinc	Manganese Sodium Ammonia BOD5 COD TKN TOC Field Eh Specific Conductivity	Iron Manganese Calculated Hardness Specific Conductivity
PHASE II PPRS		Alkalinity Iron Chloride Calculated Hardness TOC	Alkalinity Iron Chloride Calculated Hardness Calcium	Calcium Calculated Hardness Iron Manganese Alkalinity Chloride TOC Sulfate	Calcium Iron Manganese Alkalinity Chloride Calculated Hardness TOC Sulfate

*** PZ-3 replaced**

CHA-2I in June 2008

Table 1
Significant Increase Determinations for Each Routine Parameter at Each Well
Area 6 Monitoring Network, Colonie Landfill

	First Qtr 2015 March 2015	Second Qtr 2015 May 2015	Third Qtr 2015 September 2015	Fourth Qtr 2015 December 2015	First Qtr 2016 March 2016	Second Qtr 2016 June 2016
CHA-2I / PZ-3*	Nitrate Phenols COD TKN Field Eh	Nitrate Phenols COD TKN Field Eh Field pH	COD TKN Field Eh	COD Field Eh Nitrate Phenols	COD	COD TKN
CHA-3S	Not enough data to calculate significant increase designations	Not enough data to calculate significant increase designations	Not enough data to calculate significant increase designations	Not enough data to calculate significant increase designations	Not enough data to calculate significant increase designations	Not enough data to calculate significant increase designations
CHA-3I	Specific Conductivity	Specific Conductivity Sodium TDS Phenols	Sodium Field Eh	Field Eh Sodium Nitrate	Sodium	Sodium Nitrate
CHA-8I	Sodium Ammonia Chloride COD	Sodium Ammonia Chloride COD TDS	Sodium Ammonia Chloride TDS	Cadmium Sodium Chloride COD	Chloride Sodium COD	Chloride COD Sodium
CHA-8S	Iron Manganese Sodium Ammonia Chloride COD Nitrate Sulfate TKN	Iron Manganese Sodium COD Nitrate Sulfate	Iron Manganese Sodium COD Nitrate Sulfate	COD Iron Nitrate Sulfate	Chloride COD Nitrate Sulfate	BOD5 Cadmium Chloride COD Hardness Lead Manganese Sodium Sulfate TOC
CHA-6I	Iron Chloride Sulfate TDS	Chloride Sodium Sulfate TDS	Iron Chloride Sodium Manganese Phenols Sulfate TDS Zinc	Chloride Iron Manganese Phenols Sodium Sulfate TDS	Iron Sodium Sulfate TDS	COD Iron Manganese Phenols Sodium Sulfate TDS
PHASE I PPRS	Iron Manganese Sodium	Iron Manganese Calculated Hardness Specific Conductivity	Iron Manganese Sodium Field Eh Arsenic Boron Zinc	Iron Manganese Sodium Field Eh Sulfate	Iron Manganese Sodium COD TOC	Iron Manganese Sodium Sulfate TDS
PHASE II PPRS	Iron Manganese Alkalinity Calculated Hardness Chloride Phenols TOC	Iron Manganese Alkalinity Calculated Hardness Chloride Phenols TOC	Iron Manganese Alkalinity Calculated Hardness Chloride Calcium Nitrate Phenols Sulfate TOC	Iron Alkalinity Chloride Calculated Hardness Manganese TOC Sulfate	Iron Manganese Alkalinity Chloride Hardness Sulfate TOC	Alkalinity Ammonia Calcium Chloride COD Hardness Iron Manganese Sulfate TDS TOC

*** PZ-3 replaced**

CHA-2I in June 2008

Table 1
Significant Increase Determinations for Each Routine Parameter at Each Well
Area 6 Monitoring Network, Colonie Landfill

	Third Qtr 2016 October 2016	Fourth Qtr 2016 December 2016	First Qtr 2017 March 2017	Second Qtr 2017 June 2017	Third Qtr 2017 September 2017	Fourth Qtr 2017 December 2017
CHA-2I / PZ-3*	TKN	COD Iron Manganese Total Phenols TKN Field Eh Field pH		Field Eh COD Phenols TKN	COD Hardness Phenols TKN	Field Eh TKN
CHA-3S	Well Dry - No Sample Collected	Not enough data to calculate significant increase designations	Not enough data to calculate significant increase designations	Not enough data to calculate significant increase designations	Well Dry - No Sample Collected	Not enough data to calculate significant increase designations
CHA-3I	Sodium Nitrate	Sodium Nitrate	Sodium	Field Eh Sodium	Sodium Hardness	Sodium Sulfate
CHA-8I	Manganese Sodium Chloride COD TDS TKN TOC	Ammonia Sodium Chloride COD	Ammonia COD Chloride Sodium TKN	Sodium Chloride COD TKN	Sodium Ammonia Chloride Hardness TDS	Sodium Ammonia Chloride TDS
CHA-8S	Cadmium Iron Manganese Sodium Ammonia Chloride COD Sulfate TDS TKN TOC	Cadmium Boron Manganese Sodium Cobalt Copper Selenium Sulfate Nickel TOC COD Nitrate	Chloride COD Manganese Nitrate Sodium Sulfate	Antimony Boron Cobalt Manganese Nickel Sodium Chloride COD Sulfate	Manganese Sodium Chloride COD Hardness Nitrate Sulfate	Manganese Sodium Chloride COD Nitrate Sulfate TKN
CHA-6I	Calcium Iron Manganese Phenols Sulfate TDS	Boron Iron Sodium Phenols TDS	Chloride Iron Sodium Sulfate TDS	Aluminum Iron Manganese Sodium Chloride Phenols Sulfate TDS	Calcium Iron Manganese Sodium Chloride Hardness Phenols Sulfate TDS	Calcium Iron Manganese Sodium Chloride Sulfate TDS
PHASE I PPRS	Iron Manganese Sodium Sulfate TDS	Arsenic Boron Iron Manganese Total phenols Sodium TDS Color Field Eh Field pH	Iron Manganese Sodium Total Phenols TDS	Field Temperature Arsenic Boron Iron Manganese Sodium Zinc Color Phenols TDS	Field Eh Iron Manganese Sodium Hardness Phenols Sulfate TDS	Field Eh Iron Manganese Sodium Phenols Sulfate TDS
PHASE II PPRS	Alkalinity	Alkalinity Calcium Chloride Hardness Iron Manganese Potassium Sulfate TDS TOC	Alkalinity Sulfate Calcium TDS Sodium Ammonia Total Phenols	Calcium Iron Manganese Potassium Alkalinity Ammonia Chloride Hardness Sulfate TDS TOC TOC	Calcium Iron Manganese Potassium Alkalinity Ammonia Chloride Hardness Sulfate TDS TOC TKN	Calcium Iron Manganese Potassium Alkalinity Ammonia Chloride Hardness Sulfate TDS TKN TOC

*** PZ-3 replaced**

CHA-2I in June 2008

Table 2A
Summary of Analytical Results at the Area 6 Groundwater Monitoring Wells
Area 6 Monitoring Network, Colonie Landfill - March 2017

PARAMETERS	NYSDEC Class GA Standards	PZ-3**	CHA-3S	CHA-3I	MPI-11S***	MPI-11I***	CHA-8S	CHA-8I	CHA-6I
Inorganic Parameters									
Aluminum									
Antimony	3								
Arsenic	25								
Barium	1000								
Beryllium	3								
Boron	1000								
Cadmium	5	0.0599 U	0.0599 U	0.0599 U	0.0599 U	0.0599 U	0.2888	0.2746	0.0599 U
Calcium		63400	128000	61100	107000	37900	36700	38300	135000
Chromium	50								
Cobalt									
Copper	200								
Iron	300	366	1360	2310	145	179	3710	1730	1330
Lead	25	0.4952	0.654 J	0.5057 J	0.343 U	0.4887 J	2.603	4.259	0.5359 J
Magnesium		31400	230000	46500	86200	16200	7310	15400	71800
Manganese	300	20.49	59.11	286.8	5.882	38.5	1413	491.8	25.52
Mercury	0.70								
Nickel	100								
Potassium		1980	2820	3310	1780	3170	2560	1620	5150
Selenium	10								
Silver	50								
Sodium	20000	14600	41800	63100	34100	73900	57400	25700	63100
Thallium	0.50								
Vanadium									
Zinc	2000								
Leachate Indicator Parameters									
Alkalinity as CaCO3	NA	269000	633000	333000	312000	205000	98300	134000	347000
Ammonia	2000	46 J	22 U	291	22 U	22 U	29 J	81	27 J
Biochemical Oxygen Demand	NA	2000 U	5000 U	3600	2000 U	2000 U	3000	2000 U	2000 U
Bromide	2000	10 U	258 U	51 U	10 U	10 U	10 U	10 U	10 U
Chemical Oxygen Demand	NA	8200 J	34000	8200 J	8200 J	8200 J	37000	44000	8200 J
Chloride	250000	2060	27700	2840	24900	2190	102000	24400	50500
Color (units)	NA								
Cyanide	200								
Hardness (mg/L)	NA	287.9	1266	344	621.9	161.5	121.8	159	632
Hexavalent Chromium	50								
Nitrate	10000	700	30 J	160	110	480	320	42 J	41 J
Phenols	1	4 U	4 U	9 J	4 U	4 U	4 U	4 U	4 U
Sulfate	250000	41000	758000	105000	314000	104000	36000	44700	371000
Total Dissolved Solids	500000	320000	1700000	490000	760000	370000	350000	280000	890000
Total Kjeldahl Nitrogen	NA	429	453	462	325	202 J	570	1050	198 J
Total Organic Carbon	NA	1040	3030	650 J	1660	480 J	1770	3230	960 J
Field Parameters									
Temperature (celsius)		7.6	12.1	12	8.6	10.7	7.6	13.6	11.5
pH (su)		7.80	7.50	8.15	7.68	7.81	7.43	7.25	7.41
Specific Conductance (uS)		268	855	353	408	284	265	220	610
Eh (mv)		188	120	94	175	151	204	158	204
Turbidity (VISUAL/ntu)		38	40	21	9	10	38	20	21
Depth to Water (ft bmp)		9.52	13.72	32.95	8.73	12.03	2.23	27.57	7.69

NOTES:
Blank cells indicate sample was not analyzed for this parameter
Concentrations in ug/L unless otherwise noted
U = Analyte not detected; detection limit shown
B = Analyte detected in laboratory blank
J = Estimated by data validator or by the laboratory
** = PZ-3 replaced CHA-2I as the upgradient monitoring well for Area 6
*** = MPI-11S AND MPI-11I replaced MPI-9S and MPI-9I.

Table 2B
Summary of Analytical Results at the Area 6 Groundwater Monitoring Wells
Area 6 Monitoring Network, Colonie Landfill - June 2017

PARAMETERS	NYSDEC Class GA Standards	PZ-3**	CHA-3S	CHA-3I	MPI-11S***	MPI-11I***	CHA-8S	CHA-8I	CHA-6I
Volatile Organic Compounds									
1,1,1,2-Tetrachloroethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,1-Trichloroethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	5	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1-Dichloroethene	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichloropropane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromo-3-Chloropropane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromoethane	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
1,2-Dichlorobenzene	4.7	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	4.7	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-Butanone	50	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Hexanone	50	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-Pentanone	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	50	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acrylonitrile	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromochloromethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromodichloromethane	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	50	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ
Bromomethane	5	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ
Carbon Disulfide	60	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroform	7	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloromethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
cis-1,2-Dichloroethene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
cis-1,3-Dichloropropene	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromomethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Iodomethane	5	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ
Methylene Chloride	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Styrene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Tetrachloroethene	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
trans 1,4-Dichloro-2-Butene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
trans-1,2-Dichloroethene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
trans-1,3-Dichloropropene	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl Acetate	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl Chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes (total) mp	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Xylenes (total) o	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Xylenes, total		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U

NOTES:
Blank cells indicate sample was not analyzed for this parameter
Concentrations in ug/L unless otherwise noted
NS = Not sampled
NM = Not measured
U = Analyte not detected; detection limit shown
B = Analyte detected in laboratory blank
CRDL =Contract required detection limit
E = Estimated by laboratory
J = Estimated by data validator
N = Spiked sample recovery not within control limits
R = Result rejected: poor matrix spike recovery
* LCS or LCSD exceeds control limits
** = PZ-3 replaced CHA-2I as the upgradient monitoring well for Area 6
*** = MPI-9S and MPI-9I were abandoned due to construction activities.
**** = CHA-3S was not sampled due to insufficient water volume, consistent with previous sampling events

Table 2B
Summary of Analytical Results at the Area 6 Groundwater Monitoring Wells
Area 6 Monitoring Network, Colonie Landfill - June 2017

PARAMETERS	NYSDEC Class GA Standards	PZ-3**	CHA-3S	CHA-3I	MPI-11S***	MPI-11I***	CHA-8S	CHA-8I	CHA-6I
Inorganic Parameters									
Aluminum		104	2360	95.3	39	16.8	701	48.6	296
Antimony	3	4 U	4 U	4 U	4 U	4 U	10.29	4 U	4 U
Arsenic	25	0.6	1.13	7.63	0.27 J	5.95	1.64	4.48	1.89
Barium	1000	54.01	79.19	126.6	71.43	60.22	52.86	81.38	32.56
Beryllium	3	0.5 U	0.11 J	0.5 U	0.5 U	0.5 U	2.5 U	0.5 U	0.5 U
Boron	1000	19 J	18 J	210	50	215	104	42	114
Cadmium	5	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.8	0.06 J	0.2 U
Calcium		59600	125000	52400	97500	37800	51700	33800	148000
Chromium	50	0.51 J	3.93	1.53	0.4 J	0.18 J	1.02	1.41	1.02
Cobalt		0.28 J	2.03	0.46 J	0.5 U	0.5 U	21.71	6.3	1.61
Copper	200	1.66	4.37	1.34	0.54 J	0.67 J	11.26	1.26	1.31
Iron	300	245	4740	629	97.6	110	1430	549	1490
Lead	25	1 U	1.33	1 U	1 U	0.38 J	1.11	1.6	0.46 J
Magnesium		28200	209000	38900	82300	16700	9930	12600	80300
Manganese	300	45.19	137	249.5	12.51	103.3	732.5	138.8	580.2
Mercury	0.70	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	100	0.67 J	4.94	1.19 J	0.69 J	2 U	17.73	18.02	2.01
Potassium		2130	3300	3180	1590	3360	2140	1610	4580
Selenium	10	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Silver	50	0.4 U	5.24	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Sodium	20000	14600	40900	59300	31900	66000	47200	24800	46500
Thallium	0.50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vanadium		5 U	4.49 J	5 U	5 U	5 U	1.78 J	5 U	5 U
Zinc	2000	7.19 J	12.57	4.58 J	8.86 J	10 U	16.61	7.55 J	3.95 J
Leachate Indicator Parameters									
Alkalinity as CaCO3	NA	268000	630000	342000	313000	208000	122000	139000	363000
Ammonia	2000	327	75 U	255	75 U	217	75 U	29 J	111
Biochemical Oxygen Demand	NA	12000 B	2000 U	3500	2000 U	2000 U	2000 U	2000 U	2000 U
Bromide	2000	50 U	55	50 U	50 U	50 U	14 J	50 J	67
Chemical Oxygen Demand	NA	13000	43000	4100 J	18000	10000 U	20000	62000	6400 J
Chloride	250000	1560	28200	2720	22500	2000	77300	27300 J	60600
Color (units)	NA	12000	22000	6000	5000	5000 U	95000 J	11000	18000
Cyanide	200	3 J	5 U	5 U	5	5 U	5 U	5 U	3 J
Hardness (mg/L)	NA	252	1310	308	551	150	152	123	639
Hexavalent Chromium	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Nitrate	10000	100	100 U	160	83 J	180	170	36 J	100 U
Phenols	1	20 J	9 J	30 U	13 J	7 J	8 J	30 U	8 J
Sulfate	250000	27500	657000	94500	286000	98300	49700	42200 J	410000
Total Dissolved Solids	500000	290000	1600000	500000	730000	360000	360000	240000	930000
Total Kjeldahl Nitrogen	NA	1320	596	699	2610	486	604	1320	375
Total Organic Carbon	NA	2360	3510	1390	2970	820 J	3060	1950.00	1610
Field Parameters									
Temperature (celsius)		11.3	12.4	12.7	10.3	10.3	15.7	14.1	14.5
pH (su)		7.62	7.50	7.58	7.62	8.14	6.98	7.5	7.14
Specific Conductance (uS)		245	890	350	487	243	270	228	596
Eh (mv)		115	313	291	125	130	242	58	194
Turbidity (VISUAL/ntu)		31	28	17	10	8	30	20	21
Depth to Water (ft bmp)		9.00	17.44	33.13	8.77	11.53	3.62	27.17	7.70

NOTES:
Blank cells indicate sample was not analyzed for this parameter
Concentrations in ug/L unless otherwise noted
U = Analyte not detected; detection limit shown
B = Analyte detected in laboratory blank
J = Estimated by data validator or by the laboratory
** = PZ-3 replaced CHA-2I as the upgradient monitoring well for Area 6
*** = MPI-11S AND MPI-11I replaced MPI-9S and MPI-9I.

Table 2C
Summary of Analytical Results at the Area 6 Groundwater Monitoring Wells
Area 6 Monitoring Network, Colonie Landfill - September 2017

PARAMETERS	NYSDEC Class GA Standards	PZ-3**	CHA-3S	CHA-3I	MPI-11S***	MPI-11I***	CHA-8S	CHA-8I	CHA-6I
Inorganic Parameters									
Aluminum									
Antimony	3								
Arsenic	25								
Barium	1000								
Beryllium	3								
Boron	1000								
Cadmium	5	0.2 U		0.2 U	0.2 U	0.2 U	0.5904	0.1062 J	0.2 U
Calcium		62400		51000	84800	40900	57900	35600	152000
Chromium	50								
Cobalt									
Copper	200								
Iron	300	492		468	37.6 J	133	408	299	1690
Lead	25	0.4583 J		1 U	1 U	1 U	0.4478 J	1.62	0.4499 J
Magnesium		29200		41300	60600	16300	9940	25100	80600
Manganese	300	91.32		219	12.71	93.99	1235	224.6	371
Mercury	0.70								
Nickel	100								
Potassium		2110		3000	1760	3220	1690	1630	4910
Selenium	10								
Silver	50								
Sodium	20000	13400		59300	41400	67500	51300	27400	50400
Thallium	0.50								
Vanadium									
Zinc	2000								
Leachate Indicator Parameters									
Alkalinity as CaCO3	NA	275000		333000	298000	204000	136000	155000	372000
Ammonia	2000	259		205	56 J	138	30 J	120	201
Biochemical Oxygen Demand	NA	5700		2000 U	2000 U	2300	2000 U	2000 U	2000 U
Bromide	2000	50 U		50 U	50 U	50 U	50 U	19 J	50 U
Chemical Oxygen Demand	NA	80000		8100 J	10000 U	10000 U	12000	10000	10000
Chloride	250000	1650		2910	20600	2370	70700	31700	57000
Color (units)	NA								
Cyanide	200								
Hardness (mg/L)	NA	275.9		297.4	461.2	169.2	185.4	192.5	712.7
Hexavalent Chromium	50								
Nitrate	10000	150		160	190	210	230	110	100 U
Phenols	1	12 J		9 J	11 J	9 J	30 U	9 J	10 J
Sulfate	250000	28400		120000	231000	133000	79800	46200	392000
Total Dissolved Solids	500000	320000		480000	640000	360000	350000	330000	970000
Total Kjeldahl Nitrogen	NA	1290		392	228 J	200 J	369	319	802
Total Organic Carbon	NA	1770		1170	1800	850 J	2630	1350.00	1630
Field Parameters									
Temperature (celsius)		14.9		13.4	14.8	13.4	19.5	16	15.8
pH (su)		7.25		7.48	7.47	7.67	6.64	7.24	7.18
Specific Conductance (uS)		247		345	409	274	279	270	615
Eh (mv)		-65		240	197	135	207	98	-14
Turbidity (VISUAL/ntu)		30		32	10	8	40	22	28
Depth to Water (ft bmp)		10.10	23.10	34.15	10.40	12.62	5.65	27.75	7.10

NOTES:
Blank cells indicate sample was not analyzed for this parameter
Concentrations in ug/L unless otherwise noted
U = Analyte not detected; detection limit shown
B = Analyte detected in laboratory blank
J = Estimated by data validator or by the laboratory
** = PZ-3 replaced CHA-2I as the upgradient monitoring well for Area 6
*** = MPI-11S AND MPI-11I replaced MPI-9S and MPI-9I.

Table 2D
Summary of Analytical Results at the Area 6 Groundwater Monitoring Wells
Area 6 Monitoring Network, Colonie Landfill - December 2017

PARAMETERS	NYSDEC Class GA Standards	PZ-3**	CHA-3S	CHA-3I	MPI-11S***	MPI-11I***	CHA-8S	CHA-8I	CHA-6I
Inorganic Parameters									
Aluminum									
Antimony	3								
Arsenic	25								
Barium	1000								
Beryllium	3								
Boron	1000								
Cadmium	5	0.2 U	0.2 U	0.2 U	0.1162 J	0.2 U	0.4784	0.1439 J	0.2 U
Calcium		69300	120000	58200	87200	36800	76500	37100	160000
Chromium	50								
Cobalt									
Copper	200								
Iron	300	592	2240	1340	125	132	1250	287	1990
Lead	25	0.7344 J	0.7355 J	0.4361 J	0.3826 J	0.4159 J	1.353	1.736	0.5244 J
Magnesium		27600	127000	39600	57900	16400	13200	32600	71000
Manganese	300	82.36	187.7	350.3	78.98	68.71	688	199.4	364.8
Mercury	0.70								
Nickel	100								
Potassium		2340	3550	3140	1820	3360	1340	1630	5450
Selenium	10								
Silver	50								
Sodium	20000	15400	62900	60300	38600	66900	29200	28500	54300
Thallium	0.50								
Vanadium									
Zinc	2000								
Leachate Indicator Parameters									
Alkalinity as CaCO3	NA	281000	711000	329000	291000	195000	138000	201000	364000
Ammonia	2000	47 J	115 J	299	31 J	27 J	38 J	85	232
Biochemical Oxygen Demand	NA	2000 U	2000 U	2300	2000 U	2000 U	2000 U	2000 U	2000 U
Bromide	2000	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Chemical Oxygen Demand	NA	10000 U	250000	10000 U	10000 U	10000 U	480000	10000 U	3800 J
Chloride	250000	1600	14400	3040	24300	2520	45900	32600	55900
Color (units)	NA								
Cyanide	200								
Hardness (mg/L)	NA	286.7	820.7	308.7	456.1	159.7	245.5	226.9	692.8
Hexavalent Chromium	50								
Nitrate	10000	390	140	61 J	100 U	410	440	150	100 U
Phenols	1	30 U	30 U	10 J	30 U	30 U	30 U	30 U	30 U
Sulfate	250000	32500	360000	130000	299000	131000	83400	48100	428000
Total Dissolved Solids	500000	350000	1100000	500000	710000	380000	350000	360000	990000
Total Kjeldahl Nitrogen	NA	522	4520	533	400	177 J	2780	488	408
Total Organic Carbon	NA	1200	2510	1390	1640	890 J	2580	1720.00	1320
Field Parameters									
Temperature (celsius)		11.9	11.8	11.0	11.7	11.0	14.7	12.8	13.5
pH (su)		7.47	7.5	7.67	7.51	7.85	7.50	7.74	7.00
Specific Conductance (uS)		267	720.0	349	450	282	263	268	618
Eh (mv)		214	250.0	190	200	35	204	122	25
Turbidity (VISUAL/ntu)		24	44.0	20	10	10	34	20	18
Depth to Water (ft bmp)		12.45	22.83	34.48	11.11	13.38	8.55	29.13	8.20

NOTES:
Blank cells indicate sample was not analyzed for this parameter
Concentrations in ug/L unless otherwise noted
U = Analyte not detected; detection limit shown
B = Analyte detected in laboratory blank
J = Estimated by data validator or by the laboratory
** = PZ-3 replaced CHA-2I as the upgradient monitoring well for Area 6
*** = MPI-11S AND MPI-11I replaced MPI-9S and MPI-9I.

Table 3
Summary of Analytical Results at the Phase I PPRS
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	NYSDEC GA standard (ug/l)	12/20/2004	3/30/2005	6/30/2005	9/27/2005	12/20/2005	3/29/2006*
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	5	5 U	5 U		5 U	5 U	
1,1,1-Trichloroethane	5	5 U	5 U		5 U	5 U	
1,1,2,2-Tetrachloroethane	5	5 U	5 U		5 U	5 U	
1,1,2-Trichloroethane	5	5 U	5 U		5 U	5 U	
1,1-Dichloroethane	5	5 U	5 U		5 U	5 U	
1,1-Dichloroethene	5	5 U	5 U		5 U	5 U	
1,2,3-Trichloropropane	5	5 U	5 U		5 U	5 U	
1,2-Dibromo-3-Chloropropane	5	5 U	5 U		5 U	5 U	
1,2-Dibromoethane	5	5 U	5 U		5 U	5 U	
1,2-Dichlorobenzene	4.7	5 U	5 U		5 U	5 U	
1,2-Dichloroethane	5	5 U	5 U		5 U	5 U	
1,2-Dichloropropane	5	5 U	5 U		5 U	5 U	
1,4-Dichlorobenzene	4.7	5 U	5 U		5 U	5 U	
2-Butanone	50	10 U	10 U		10 UB	10 U	
2-Hexanone	50	10 U	10 U		10 U	10 U	
4-Methyl-2-Pentanone	5	10 U	10 U		10 U	10 U	
Acetone	50	10 U	10 U		10 U	10 U	
Acrylonitrile	5	10 U	10 U		10 U	10 U	
Benzene	1	5 U	5 U		5 U	5 U	
Bromochloromethane	5	5 U	5 U		5 U	5 U	
Bromodichloromethane	50	5 U	5 U		5 U	5 U	
Bromoform	50	5 U	5 U		5 U	5 U	
Bromomethane	5	5 U	5 U		5 U	5 U	
Carbon Disulfide	60	5 U	2.1 J		5 U	1.6 J	
Carbon Tetrachloride	5	5 U	5 U		5 U	5 U	
Chlorobenzene	5	5 U	5 U		5 U	5 U	
Chloroethane	5	5 U	5 U		5 U	5 U	
Chloroform	7	5 U	5 U		5 U	5 U	
Chloromethane	5	5 U	5 U		5 U	5 U	
cis-1,2-Dichloroethylene	5	5 U	5 U		5 U	5 U	
cis-1,3-Dichloropropene	5	5 U	5 U		5 U	5 U	
Dibromochloromethane	50	5 U	5 U		5 U	5 U	
Dibromomethane	5	5 U	5 U		5 U	5 U	
Ethylbenzene	5	5 U	5 U		5 U	5 U	
Iodomethane	5	10 U	10 U		10 U	10 U	
Methylene Chloride	5	5 U	5 U		0.65 JB	5 U	
Styrene	5	5 U	5 U		5 U	5 U	
Tetrachloroethene	5	5 U	5 U		5 U	5 U	
Toluene	5	5 UB	5 U		5 UB	0.56 J	
trans-1,2-Dichloroethylene	5	5 U	5 U		5 U	5 U	
trans-1,3-Dichloropropene	5	5 U	5 U		5 U	5 U	
trans-1,4-Dichloro-2-Butene	5	10 U	10 U		10 U	10 U	
Trichloroethene	5	5 U	5 U		5 U	5 U	
Trichlorofluoromethane	5	5 U	5 U		5 U	5 U	
Vinyl Acetate	5	5 U	5 U		5 U	5 U	
Vinyl Chloride	2	5 U	5 U		5 U	5 U	
Xylene (total)mp	5	5 U	5 U		5 U	5 U	
Xylene (total)o	5	5 U	5 U		5 U	5 U	

NOTES:
Blank cells indicate sample was not analyzed for this parameter
Concentrations in ug/L unless otherwise noted
NA = Not applicable; No standard established
NS = Not sampled
U = Compound not detected; detection limit shown
B = Analyte detected in laboratory blank
J = Estimated concentration less than detection limit

Table 3
Summary of Analytical Results at the Phase I PPRS
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	NYSDEC GA standard (ug/l)	12/20/2004	3/30/2005	6/30/2005	9/27/2005	12/20/2005	3/29/2006*
Inorganic Parameters							
Aluminum	NA	92 U	92 U		92 U	92 U	
Antimony	3	5.4 U	5.4 U		5.4 U	5.4 U	
Arsenic	25	3.9 U	3.9 U		3.9 U	3.9 U	
Barium	1000	37.7	34.2		50.8	57.8	
Beryllium	3	0.54 U	0.54 U		0.54 U	0.54 U	
Boron	1000	124 J	102		216	218	
Cadmium	5	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Calcium	NA	425000	395000	426000	447000	462000	392000
Chromium	50	1.3 U	1.3 U		1.3 U	1.3 U	
Cobalt	NA	1.8 U	1.8 U		11.7	19.7	
Copper	200	4.3 U	4.3 U		4.3 U	44.5	
Iron	300	54 U	54 U	54 U	54 U	682 NJ	1440
Lead	25	3 U	3 U	3 U	3 U	6.7 B	3 U
Magnesium	NA	146000	147000	158000	143000	162000	154000
Manganese	300	890	612	1360	7200	20600	19100
Mercury	0.7	0.07 U	0.07 U		0.07 U	0.07 U	
Nickel	100	5.6 B	5.1 B		22.7	52.9	
Potassium	NA	8890	6890	8950	9250	8050	8340
Selenium	10	5 U	5 U		5.6 B	5 U	
Silver	50	1.1 U	1.1 U		1.1 U	1.1 U	
Sodium	20000	67900 J	55000	65600	66100	66000 J	67200
Thallium	0.5	10 UJ	10 U		10 U	11.1 JB	
Vanadium	NA	1.5 U	1.5 U		1.5 U	1.5 U	
Zinc	2000	11 U	11 U		11 U	11 U	
Leachate Indicator Parameters							
Alkalinity	NA	253000	260000	327000	515000	443000	396000
Ammonia	2000	150	56	110	320	75	160
Biochemical Oxygen Demand	NA	2000 U	3100	6300	6900	1200 B	4300
Bromide	2000	2500 U	2500 U	100 U	83 B	184	109
Chemical Oxygen Demand	NA	3840 B	11400	10000 U	10000 U	4880	4800 B
Chloride	250000	17100	471000	15400	16500	666000	17600
Color (units)	NA	5 U	5 U		5	5	
Cyanide	200	10 U	10 U		10 U	10 U	
Hardness as CaCO3 (mg/L)	NA	1660	1590	1710	1710	1820	1610
Hexavalent Chromium	50	10 U	10 U		10 U	10 U	
Nitrate	10000	2500 U	2500 U	100 U	100 U	100 U	100 U
Phenols	1	5 U	5 U	5 U	5 U	4 B	3 B
Sulfate	250000	1480000	1580000	1680000	1430000	385000	1600000
Sulfide	50	1000 U					
Total Dissolved Solids	500000	2200000	2400000	2600000	2600000	2500000	2500000
Total Kjeldahl Nitrogen	NA	185	359	250	407	704	91.2 B
Total Organic Carbon	NA	1300	1700	2000	1200	1700	1800
Field Parameters							
Temperature (celsius)	NA	NA	12.2	12.2	17	14.7	15.5
pH (su)	NA	7.97	7.13	7.13	6.93	7.51	6.7
Specific Conductance (uS)	NA	1189	1401	1401	1235	1003	2940
Eh (mv)	NA	<-80	<-80	<-80	<-80	<-80	31
Turbidity (VISUAL/ntu)	NA	LOW	LOW	<10	LOW	LOW	LOW

NOTES:
Blank cells indicate sample was not analyzed for this parameter
Concentrations in ug/L unless otherwise noted
NA = Not applicable; No standard established
NS = Not sampled
U = Analyte not detected; detection limit shown
B = Analyte detected in laboratory blank
E = Estimated by laboratory
J = Estimated by data validator
H = Sample was prepped or analyzed outside of holding time
N = Spiked sample recovery not within control limits
R = Result rejected by the data validator

Table 3
Summary of Analytical Results at the Phase I PPRS
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	NYSDEC GA standard (ug/l)	6/19/2006*	9/21/2006*	12/14/2006*	3/28/2007*	7/5/2007*	9/27/2007*
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	5	5 U					5 U
1,1,1-Trichloroethane	5	5 U					5 U
1,1,2,2-Tetrachloroethane	5	5 U					5 U
1,1,2-Trichloroethane	5	5 U					5 U
1,1-Dichloroethane	5	5 U					5 U
1,1-Dichloroethene	5	5 U					5 U
1,2,3-Trichloropropane	5	5 U					5 U
1,2-Dibromo-3-Chloropropane	5	5 U					5 U
1,2-Dibromoethane	5	5 U					5 U
1,2-Dichlorobenzene	4.7	5 U					5 U
1,2-Dichloroethane	5	5 U					5 U
1,2-Dichloropropane	5	5 U					5 U
1,4-Dichlorobenzene	4.7	5 U					5 U
2-Butanone	50	10 U					10 U
2-Hexanone	50	10 U					10 U
4-Methyl-2-Pentanone	5	10 U					10 U
Acetone	50	10 UJ					10 U
Acrylonitrile	5	10 U					10 U
Benzene	1	5 U					5 U
Bromochloromethane	5	5 U					5 U
Bromodichloromethane	50	5 U					5 U
Bromoform	50	5 U					5 U
Bromomethane	5	5 U					5 U
Carbon Disulfide	60	5 U					1 J
Carbon Tetrachloride	5	5 U					5 U
Chlorobenzene	5	5 U					5 U
Chloroethane	5	5 U					5 U
Chloroform	7	5 U					5 U
Chloromethane	5	5 U					5 U
cis-1,2-Dichloroethylene	5	5 U					5 U
cis-1,3-Dichloropropene	5	5 U					5 U
Dibromochloromethane	50	5 U					5 U
Dibromomethane	5	5 U					5 U
Ethylbenzene	5	5 U					5 U
Iodomethane	5	10 UJ					10 UJ
Methylene Chloride	5	5 U					5 U*
Styrene	5	5 U					5 U
Tetrachloroethene	5	5 U					5 U
Toluene	5	5 U					5 U
trans-1,2-Dichloroethylene	5	5 U					5 U
trans-1,3-Dichloropropene	5	5 U					5 U
trans-1,4-Dichloro-2-Butene	5	10 U					10 U
Trichloroethene	5	5 U					5 U
Trichlorofluoromethane	5	5 U					5 UJ*
Vinyl Acetate	5	5 U					5 U
Vinyl Chloride	2	5 U					5 U
Xylene (total)mp	5	5 U					5 U
Xylene (total)o	5	5 U					5 U

NOTES:
Blank cells indicate sample was not analyzed for this parameter
Concentrations in ug/L unless otherwise noted
NA = Not applicable; No standard established
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Table 3
Summary of Analytical Results at the Phase I PPRS
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	NYSDEC GA standard (ug/l)	6/19/2006*	9/21/2006*	12/14/2006*	3/28/2007*	7/5/2007*	9/27/2007*
Inorganic Parameters							
Aluminum	NA	92 U					84 U
Antimony	3	5.4 U					6 U
Arsenic	25	10.9 B					8.6 J
Barium	1000	46					72
Beryllium	3	0.54 U					0.6 U
Boron	1000	214					320
Cadmium	5	1.1 U	0.76 U	0.76 U	0.76 U	1.1 U	1.1 U
Calcium	NA	425000	439000	424000	421000	427000	426000
Chromium	50	1.3 U					1.9 U
Cobalt	NA	12.6					8.3 J
Copper	200	4.3 U					110 J
Iron	300	1440	2000	1680	1300	1400	1900
Lead	25	3 U	7.8 B	3 U	3 U	4.9 U	7.5 J
Magnesium	NA	167000	165000	165000	171000	168000	162000
Manganese	300	19200	18200	18700	16400	14900	14600
Mercury	0.7	0.07 U					0.1 U
Nickel	100	13.3					22
Potassium	NA	8350	8910	7250	8300	9100	7400
Selenium	10	5 UJ					9.8 UJ
Silver	50	1.1 U					1.3 U
Sodium	20000	71200	71900	70700	73800	75800	78800 J
Thallium	0.5	10 UJ					8.1 U
Vanadium	NA	1.5 U					1 U
Zinc	2000	11 U					81
Leachate Indicator Parameters							
Alkalinity	NA	387000	390000	376000	342000	334000	336000
Ammonia	2000	110	120	24 B	180	52	71 J
Biochemical Oxygen Demand	NA	780 B	1700 B	540 B	2000 U	420 J	2000 UNJ
Bromide	2000	106	21 B	92 B	100	100	46 J
Chemical Oxygen Demand	NA	10000 U	1640 B	3430 B	3400 J	10100	6300 J
Chloride	250000	18700	17200	17900	19100	17500	17500
Color (units)	NA	25					25
Cyanide	200	10 UJ					17
Hardness as CaCO3 (mg/L)	NA	1750	1780	1740	1760	1760	1730
Hexavalent Chromium	50	10 U					10 U
Nitrate	10000	100 U	100 U	100 U	38 J	100 U	100 U
Phenols	1	5 U	5 U	5 U	5 U	5 U	5 U
Sulfate	250000	1680000	1620000	1650000	1560000	1670000	1660000
Sulfide	50						
Total Dissolved Solids	500000	2700000	2700000	2600000	2630000	2630000 H	2820000 H
Total Kjeldahl Nitrogen	NA	337	100 U	100 U	430 J	280 J	100 J
Total Organic Carbon	NA	2500	14000	11000	1200	960 J	1000
Field Parameters							
Temperature (celsius)	NA	17	17.5	17.5	17.5	18.2	20.7
pH (su)	NA	6.56	7.1	7.07	7.07	7.06	7.05
Specific Conductance (uS)	NA	2990	3050	2860	2790	2801	2710
Eh (mv)	NA	-3	-15	-3	-43	-41	-70
Turbidity (VISUAL/ntu)	NA	LOW	LOW	LOW	LOW	LOW	LOW

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Table 3
Summary of Analytical Results at the Phase I PPRS
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	NYSDEC GA standard (ug/l)	12/18/2007*	3/31/2008*	7/1/2008*	10/8/2008*	12/29/2008*	3/31/2009
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	5					5 U	
1,1,1-Trichloroethane	5					5 U	
1,1,2,2-Tetrachloroethane	5					5 U	
1,1,2-Trichloroethane	5					5 U	
1,1-Dichloroethane	5					5 U	
1,1-Dichloroethene	5					5 U	
1,2,3-Trichloropropane	5					5 U	
1,2-Dibromo-3-Chloropropane	5					5 U	
1,2-Dibromoethane	5					5 U	
1,2-Dichlorobenzene	4.7					5 U	
1,2-Dichloroethane	5					5 U	
1,2-Dichloropropane	5					5 U	
1,4-Dichlorobenzene	4.7					5 U	
2-Butanone	50					10 U	
2-Hexanone	50					10 U	
4-Methyl-2-Pentanone	5					10 U	
Acetone	50					10 U	
Acrylonitrile	5					10 U	
Benzene	1					5 U	
Bromochloromethane	5					5 U	
Bromodichloromethane	50					5 U	
Bromoform	50					5 U	
Bromomethane	5					5 U	
Carbon Disulfide	60					5 U	
Carbon Tetrachloride	5					5 U	
Chlorobenzene	5					5 U	
Chloroethane	5					5 U	
Chloroform	7					5 U	
Chloromethane	5					5 U*	
cis-1,2-Dichloroethylene	5					5 U	
cis-1,3-Dichloropropene	5					5 U	
Dibromochloromethane	50					5 U	
Dibromomethane	5					5 U	
Ethylbenzene	5					5 U	
Iodomethane	5					10 U *	
Methylene Chloride	5					5 U	
Styrene	5					5 U	
Tetrachloroethene	5					5 U	
Toluene	5					5 U	
trans-1,2-Dichloroethylene	5					5 U	
trans-1,3-Dichloropropene	5					5 U	
trans-1,4-Dichloro-2-Butene	5					10 U	
Trichloroethene	5					5 U	
Trichlorofluoromethane	5					5 U	
Vinyl Acetate	5					5 U	
Vinyl Chloride	2					5 U	
Xylene (total)mp	5					5 U	
Xylene (total)o	5					5 U	

NOTES:
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Concentrations in ug/L unless otherwise noted
NA = Not applicable; No standard established
NS = Not sampled
U = Compound not detected; detection limit shown
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J = Estimated concentration less than detection limit

Table 3
Summary of Analytical Results at the Phase I PPRS
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	NYSDEC GA standard (ug/l)	12/18/2007*	3/31/2008*	7/1/2008*	10/8/2008*	12/29/2008*	3/31/2009
Inorganic Parameters							
Aluminum	NA					500 U	
Antimony	3					40 U	
Arsenic	25					5 J	
Barium	1000					40	
Beryllium	3					10 U	
Boron	1000					420	
Cadmium	5	1.1 U	1.1 U	2.8 U	2.8 U	10 U	1 U
Calcium	NA	413000	454000	380000	391000	414000	444000
Chromium	50					10 U	
Cobalt	NA					8.1 J	
Copper	200					5.6 J	
Iron	300	1800	2400	2100	2500	3100	3800
Lead	25	14	4.9 U	3 U	3 U	10 U	12
Magnesium	NA	165000	173000	157000	153000	157000	154000
Manganese	300	14600	15800	16300	13600	15100	15700
Mercury	0.7					0.2 U	
Nickel	100					6.9 J	
Potassium	NA	8400	9400	8400	11100	10200	10300
Selenium	10					30 U	
Silver	50					10 U	
Sodium	20000	74900	78400	66900	74500	72600	82800
Thallium	0.5					30 U	
Vanadium	NA					10 U	
Zinc	2000					50 U	
Leachate Indicator Parameters							
Alkalinity	NA	355000	388000	408000	361000	381000	409400
Ammonia	2000	54 J	240	89 J	90 J	110	120
Biochemical Oxygen Demand	NA	870 J	1600 J	1700 J	840 J	2900	870 J
Bromide	2000	100 U	86 J	160	120	210	76 J
Chemical Oxygen Demand	NA	2200 J	10000 U	6900 J	10000 U	11500	7500 J
Chloride	250000	18200	18600	21100	22700	22400	20000
Color (units)	NA					25	
Cyanide	200					10 U	
Hardness as CaCO3 (mg/L)	NA	1710	1850	1600	1610	1680	1770
Hexavalent Chromium	50					10 U	
Nitrate	10000	100 U	13 J	100 U	100 U	100 U	100 U
Phenols	1	3 J	6.7	10	5 U	4.3 J	7.2
Sulfate	250000	1610000	1680000	1670000	1670000	1550000	1466000
Sulfide	50						
Total Dissolved Solids	500000	2660000	2610000	2770000	2600000	2530000	2580000
Total Kjeldahl Nitrogen	NA	140 J	120 J	290 J	220 J	250 J	270 J
Total Organic Carbon	NA	950 J	640 J	1200	330 J	1100	350 J
Field Parameters							
Temperature (celsius)	NA	18.5	16	19.6	20.1	19	20
pH (su)	NA	7.07	7.08	7.07	6.49	6.8	7.13
Specific Conductance (uS)	NA	2510	2530	2510	2968	2952	2921
Eh (mv)	NA	-65	-101	-104	-29	13	91
Turbidity (VISUAL/ntu)	NA	LOW	LOW	LOW	LOW	LOW	11

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Table 3
Summary of Analytical Results at the Phase I PPRS
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	NYSDEC GA standard (ug/l)	6/24/2009	10/5/2009	12/17/2009	3/25/2010	6/29/2010	9/29/2010
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	5	5 U					5 U
1,1,1-Trichloroethane	5	5 U					5 U
1,1,2,2-Tetrachloroethane	5	5 U					5 U
1,1,2-Trichloroethane	5	5 U					5 U
1,1-Dichloroethane	5	5 U					5 U
1,1-Dichloroethene	5	5 U					5 U
1,2,3-Trichloropropane	5	5 U					5 U
1,2-Dibromo-3-Chloropropane	5	5 U					5 U
1,2-Dibromoethane	5	5 U					5 U
1,2-Dichlorobenzene	4.7	5 U					5 U
1,2-Dichloroethane	5	5 U					5 U
1,2-Dichloropropane	5	5 U					5 U
1,4-Dichlorobenzene	4.7	5 U					5 U
2-Butanone	50	10 U					10 U
2-Hexanone	50	10 U					10 U
4-Methyl-2-Pentanone	5	10 U					10 U
Acetone	50	5 U					1.4 J
Acrylonitrile	5	10 U					10 U
Benzene	1	5 U					5 U
Bromochloromethane	5	5 U					5 U
Bromodichloromethane	50	5 U					5 U
Bromoform	50	5 U					5 U
Bromomethane	5	5 U					5 U
Carbon Disulfide	60	5 U					1.5 J
Carbon Tetrachloride	5	5 U					5 U
Chlorobenzene	5	5 U					5 U
Chloroethane	5	5 U*					5 U
Chloroform	7	5 U					5 U
Chloromethane	5	5 U					5 U
cis-1,2-Dichloroethylene	5	5 U					5 U
cis-1,3-Dichloropropene	5	5 U					5 U
Dibromochloromethane	50	5 U					5 U
Dibromomethane	5	5 U					5 U
Ethylbenzene	5	5 U					5 U
Iodomethane	5	10 U					10 U
Methylene Chloride	5	5 U					5 U
Styrene	5	5 U					5 U
Tetrachloroethene	5	5 U					5 U
Toluene	5	5 U					5 U
trans-1,2-Dichloroethylene	5	5 U					5 U
trans-1,3-Dichloropropene	5	5 U					5 U
trans-1,4-Dichloro-2-Butene	5	10 U*					10 U
Trichloroethene	5	5 U					5 U
Trichlorofluoromethane	5	5 U					5 U
Vinyl Acetate	5	5 U					5 U
Vinyl Chloride	2	5 U					5 U
Xylene (total)mp	5	5 U					5 U
Xylene (total)o	5	5 U					5 U

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NA = Not applicable; No standard established
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Table 3
Summary of Analytical Results at the Phase I PPRS
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	NYSDEC GA standard (ug/l)	6/24/2009	10/5/2009	12/17/2009	3/25/2010	6/29/2010	9/29/2010
Inorganic Parameters							
Aluminum	NA	250 U					250 U
Antimony	3	15 U					15 U
Arsenic	25	13.8 J					6.4 J
Barium	1000	42.4					41.6
Beryllium	3	5 U					5 U
Boron	1000	477					521
Cadmium	5	5 U	1 U	1 U	1 U	1.0 U	5 U
Calcium	NA	449000	440000	442000	433000	432000	450000
Chromium	50	3.9 J					2.8 J
Cobalt	NA	6.9					4.5 J
Copper	200	8.1 J					10 U
Iron	300	4410	3090	6000	4580	4050	5490
Lead	25	8.7 J	2.5 U	2.5 U	2.5 U	2.5 U	15 U
Magnesium	NA	157000	140000	151000	156000	152000	159000
Manganese	300	17300	10300	19500	14300	14300	13800
Mercury	0.7	NR					0.2 U
Nickel	100	4.9 J					2.1 J
Potassium	NA	7840	11200	10900	11800	8420	10000
Selenium	10	38 U					38 UR
Silver	50	2.9 J					2.2 J
Sodium	20000	77400	74400	78700	83100	72500	80000
Thallium	0.5						15 U
Vanadium	NA	6.1					4.5 J
Zinc	2000	8.9 J					25 U
Leachate Indicator Parameters							
Alkalinity	NA	397000	398000	419000	379000	405000	450000
Ammonia	2000	65 J	110	240	930	200	110
Biochemical Oxygen Demand	NA	720 J N	1500 J	1400 J	900 J	2400	1700 J N
Bromide	2000	60 J	100	50 J	130	100	130
Chemical Oxygen Demand	NA	4300 J	10000 U	13800	5000 J	10000 U	10000 U
Chloride	250000	25200	19000	18300	20100	18700	22200
Color (units)	NA	100					20
Cyanide	200	10 U					10000 UR
Hardness as CaCO3 (mg/L)	NA	1790	1760	1780	1760	1760	1870
Hexavalent Chromium	50	4 J					10 U
Nitrate	10000	25 J	40 J	20 J	21 J	100 U	100 U
Phenols	1	5 U	11	11	5 U	5 U	5 U
Sulfate	250000	1710000	1500000	1540000	1590000	1560000	1540000
Sulfide	50						
Total Dissolved Solids	500000	2580000	2530000 H	2510000	2500000	2590000	2510000
Total Kjeldahl Nitrogen	NA	240 J	420 J	500	320 J	320 J	250 J
Total Organic Carbon	NA	860 J	1000 U	710 J	800 J	1300	1100
Field Parameters							
Temperature (celsius)	NA	28	22.2	21	21.7	22.7	23
pH (su)	NA	7.94	5.5	7.06	7.05	7.08	7.08
Specific Conductance (uS)	NA	473	2799	1692	1416	1457	1294
Eh (mv)	NA	43	-84	11	15	7	-157
Turbidity (VISUAL/ntu)	NA	10	11	19	10	10	10

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Table 3
Summary of Analytical Results at the Phase I PPRS
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	NYSDEC GA standard (ug/l)	12/13/2010	6/30/2011	8/31/2011	12/12/2011	3/21/2012	6/28/2012
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	5		5 U				
1,1,1-Trichloroethane	5		5 U				
1,1,2,2-Tetrachloroethane	5		5 U				
1,1,2-Trichloroethane	5		5 U				
1,1-Dichloroethane	5		5 U				
1,1-Dichloroethene	5		5 U				
1,2,3-Trichloropropane	5		5 U				
1,2-Dibromo-3-Chloropropane	5		5 U				
1,2-Dibromoethane	5		5 U				
1,2-Dichlorobenzene	4.7		5 U				
1,2-Dichloroethane	5		5 U				
1,2-Dichloropropane	5		5 U				
1,4-Dichlorobenzene	4.7		5 U				
2-Butanone	50		10 U				
2-Hexanone	50		10 U				
4-Methyl-2-Pentanone	5		10 U				
Acetone	50		1.6 J				
Acrylonitrile	5		10 U				
Benzene	1		5 U				
Bromochloromethane	5		5 U				
Bromodichloromethane	50		5 U				
Bromoform	50		5 U				
Bromomethane	5		5 U				
Carbon Disulfide	60		5 U				
Carbon Tetrachloride	5		5 U				
Chlorobenzene	5		5 U				
Chloroethane	5		5 U				
Chloroform	7		5 U				
Chloromethane	5		5 U				
cis-1,2-Dichloroethylene	5		5 U				
cis-1,3-Dichloropropene	5		5 U				
Dibromochloromethane	50		5 U				
Dibromomethane	5		5 U				
Ethylbenzene	5		5 U				
Iodomethane	5		10 U				
Methylene Chloride	5		5 U				
Styrene	5		5 U				
Tetrachloroethene	5		5 U				
Toluene	5		5 U				
trans-1,2-Dichloroethylene	5		5 U				
trans-1,3-Dichloropropene	5		5 U				
trans-1,4-Dichloro-2-Butene	5		10 U				
Trichloroethene	5		5 U				
Trichlorofluoromethane	5		5 U				
Vinyl Acetate	5		5 U *				
Vinyl Chloride	2		5 U				
Xylene (total)mp	5		5 U				
Xylene (total)o	5		5 U				

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Concentrations in ug/L unless otherwise noted
NA = Not applicable; No standard established
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Table 3
Summary of Analytical Results at the Phase I PPRS
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	NYSDEC GA standard (ug/l)	12/13/2010	6/30/2011	8/31/2011	12/12/2011	3/21/2012	6/28/2012
Inorganic Parameters							
Aluminum	NA		69.3 J				
Antimony	3		30 U				
Arsenic	25		30 U				
Barium	1000		38.4				
Beryllium	3		10 U				
Boron	1000		442				
Cadmium	5	1 U	10 U	1 U	0.56 J	1 U	0.66 J
Calcium	NA	470000	394000	429000	467000	429000 B	423000
Chromium	50		1.1 J				
Cobalt	NA		4.6 J				
Copper	200		11.3 J				
Iron	300	4170	3530	5720	5400 B	7900	8200
Lead	25	2.5 U	30 U	2.5 U	5 U	5 U	5 U
Magnesium	NA	154000	153000	170000	193000	177000	180000
Manganese	300	12800	12100	12100	12900	13000 B	13200
Mercury	0.7		0.2 U				
Nickel	100		95.3				
Potassium	NA	9060	6670	7890	7300	7600	6600
Selenium	10		76 U				
Silver	50		10 U				
Sodium	20000	78200	73400	75700 B	76700	72700 B	68600
Thallium	0.5		30 U				
Vanadium	NA		8.1 J				
Zinc	2000		19.7 J				
Leachate Indicator Parameters							
Alkalinity	NA	424000	418000 B	425000 B	476000	480000 B	490000 B
Ammonia	2000	310	130	270	100	110	240
Biochemical Oxygen Demand	NA	960 J	2600	2000 U	2000 U	3700	2000 U
Bromide	2000	120	140	150	4900	1000 U	1000 U
Chemical Oxygen Demand	NA	13800	13700	6800 J	10000 U	6600 J	10000 U
Chloride	250000	22000	25300	23100	21900	23000	27400
Color (units)	NA		40				
Cyanide	200		10 U				
Hardness as CaCO3 (mg/L)	NA	1870	1610	1770	1780	1700	960
Hexavalent Chromium	50		10 U				
Nitrate	10000	100 U	100 U	100 U	50 U	50 U	50 U
Phenols	1	5 U	5 U	5 U	10 B	10 U	10 U
Sulfate	250000	1270000	1300000	1480000	1550000	1440000	1290000
Sulfide	50						
Total Dissolved Solids	500000	2450000	2480000 B	2540000	2640000 B	2430000	2540000
Total Kjeldahl Nitrogen	NA	260 J	320 J	240 J	200 U	200 U	280
Total Organic Carbon	NA	2200	1100	610 J	2300	1900	1400
Field Parameters							
Temperature (celsius)	NA	9.8	25.2	22.1	16.5	23	22.5
pH (su)	NA	7.52	6.99	7.31	7.07	4.04	7.06
Specific Conductance (uS)	NA	1420	2.50 ms	2.61 ms	998	837	941
Eh (mv)	NA	-80	132	130.7	-90	-75	-52
Turbidity (VISUAL/ntu)	NA	15	5.26	5.13	11	11	10

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Table 3
Summary of Analytical Results at the Phase I PPRS
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	NYSDEC GA standard (ug/l)	9/26/2012	12/7/2012	2/25/2013	5/28/2013	9/4/2013	11/18/2013
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	5	1 U					1 U
1,1,1-Trichloroethane	5	1 U					1 U
1,1,2,2-Tetrachloroethane	5	1 U					1 U
1,1,2-Trichloroethane	5	1 U					1 U
1,1-Dichloroethane	5	1 U					1 U
1,1-Dichloroethene	5	1 U					1 U
1,2,3-Trichloropropane	5	1 U					1 U
1,2-Dibromo-3-Chloropropane	5	1 U					1 U
1,2-Dibromoethane	5	1 U					1 U
1,2-Dichlorobenzene	4.7	1 U					1 U
1,2-Dichloroethane	5	1 U					1 U
1,2-Dichloropropane	5	1 U					1 U
1,4-Dichlorobenzene	4.7	1 U					1 U
2-Butanone	50	10 U					10 U
2-Hexanone	50	5 U					5 U
4-Methyl-2-Pentanone	5	5 U					5 U
Acetone	50	10 U					10 U
Acrylonitrile	5	5 U					5 U
Benzene	1	1 U					1 U
Bromochloromethane	5	1 U					1 U
Bromodichloromethane	50	1 U					1 U
Bromoform	50	1 U					1 U
Bromomethane	5	1 U					1 U
Carbon Disulfide	60	1 U					1 U
Carbon Tetrachloride	5	1 U					1 U
Chlorobenzene	5	1 U					1 U
Chloroethane	5	1 U					1 U
Chloroform	7	1 U					1 U
Chloromethane	5	1 U					1 U
cis-1,2-Dichloroethylene	5	1 U					
cis-1,3-Dichloropropene	5	1 U					1 U
Dibromochloromethane	50	1 U					1 U
Dibromomethane	5	1 U					1 U
Ethylbenzene	5	1 U					1 U
Iodomethane	5	1 U					1 U
Methylene Chloride	5	1 U					1 U
Styrene	5	1 U					1 U
Tetrachloroethene	5	1 U					1 U
Toluene	5	1 U					1 U
trans-1,2-Dichloroethylene	5	1 U					5 U
trans-1,3-Dichloropropene	5	1 U					1 U
trans-1,4-Dichloro-2-Butene	5	5 U					1 U
Trichloroethene	5	1 U					1 U
Trichlorofluoromethane	5	1 U					1 U
Vinyl Acetate	5	5 U					5 U
Vinyl Chloride	2	1 U					1 U
Xylene (total)mp	5	2 U					2 U
Xylene (total)o	5	1 U					1 U

NOTES:
Blank cells indicate sample was not analyzed for this parameter
Concentrations in ug/L unless otherwise noted
NA = Not applicable; No standard established
NS = Not sampled
U = Compound not detected; detection limit shown
B = Analyte detected in laboratory blank
J = Estimated concentration less than detection limit

Table 3
Summary of Analytical Results at the Phase I PPRS
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	NYSDEC GA standard (ug/l)	9/26/2012	12/7/2012	2/25/2013	5/28/2013	9/4/2013	11/18/2013
Inorganic Parameters							
Aluminum	NA	200 U					200 U
Antimony	3	20 U					20 U
Arsenic	25	10					10.2
Barium	1000	42					45.1
Beryllium	3	2 U					2 U
Boron	1000	550					571
Cadmium	5	1 U	1 U	0.74 J	0.69 J	1 U	1 U
Calcium	NA	404000	408000	380000	372000	378000	411000
Chromium	50	1.7 J B					4.1
Cobalt	NA	3.2 J					1.7 J
Copper	200	3.1 J B					2.6 J
Iron	300	7900	7600	6900	6890	7370	6940
Lead	25	5 U	5 U	4.5 J	4.1 J	4 J	5 U
Magnesium	NA	164000	167000	165000	148000	155000	166000
Manganese	300	11200	11000 B	10500	9300	9970	9440
Mercury	0.7	0.2 U					0.2 U
Nickel	100	2.7 J					2.6 J
Potassium	NA	8300	8600	9100	8730	8300 B	9310
Selenium	10	15 U					15 U
Silver	50	3 U					2.2 J
Sodium	20000	75500	80000	86800	77800	74200 B	81000
Thallium	0.5	20 U					20 U
Vanadium	NA	36					5 U
Zinc	2000	12 B					13.2
Leachate Indicator Parameters							
Alkalinity	NA	475000	430000	476000	471000	471000	420000
Ammonia	2000	190	320	76	150	67	89
Biochemical Oxygen Demand	NA	2000	2000 U	2000 U	2000 U	2900	2000 U
Bromide	2000	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U
Chemical Oxygen Demand	NA	7200 J	12300	11100 B	10000 U	10000 U	10000 U
Chloride	250000	30500	28600	32300	51000	45800	40100
Color (units)	NA	10000					25
Cyanide	200	10 U					10 U
Hardness as CaCO3 (mg/L)	NA	1600	1600	1580	1580	1650	1700
Hexavalent Chromium	50	10 R					10 U
Nitrate	10000	32 J	29 J	27 J	83	50 U	300
Phenols	1	10 U	110 B	10 U	10 U	10 U	10 U
Sulfate	250000	1420000	1320000	1100000	1230000	1250000	1380000
Sulfide	50						
Total Dissolved Solids	500000	2590000	2330000	2300000	2210000	2330000	2250000
Total Kjeldahl Nitrogen	NA	600 UB	370	240	280	390 B	320 U
Total Organic Carbon	NA	630 J	1400	1700	2800	2300	1700
Field Parameters							
Temperature (celsius)	NA	21	19.1	18.5	22.0	22.0	19.0
pH (su)	NA	7.07	7.07	7.10	7.05	7.05	7.09
Specific Conductance (uS)	NA	873	706	652	883	883	675
Eh (mv)	NA	-45	-85	-5	-30	-18	-5
Turbidity (VISUAL/ntu)	NA	10	9	8	11	10	10

NOTES:
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Concentrations in ug/L unless otherwise noted
NA = Not applicable; No standard established
NS = Not sampled
U = Analyte not detected; detection limit shown
B = Analyte detected in laboratory blank
E = Estimated by laboratory
J = Estimated by data validator
H = Sample was prepped or analyzed outside of holding time
N = Spiked sample recovery not within control limits
R = Result rejected by the data validator

Table 3
Summary of Analytical Results at the Phase I PPRS
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	NYSDEC GA standard (ug/l)	3/27/2014	5/23/2014	9/8/2014	12/1/2014	3/4/2015	5/21/2015
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	5		1 U				
1,1,1-Trichloroethane	5		1 U				
1,1,2,2-Tetrachloroethane	5		1 U				
1,1,2-Trichloroethane	5		1 U				
1,1-Dichloroethane	5		1 U				
1,1-Dichloroethene	5		0.71 J				
1,2,3-Trichloropropane	5		1 U				
1,2-Dibromo-3-Chloropropane	5		1 U				
1,2-Dibromoethane	5		1 U				
1,2-Dichlorobenzene	4.7		1 U				
1,2-Dichloroethane	5		1 U				
1,2-Dichloropropane	5		1 U				
1,4-Dichlorobenzene	4.7		1 U				
2-Butanone	50		10 U				
2-Hexanone	50		5 U				
4-Methyl-2-Pentanone	5		5 U				
Acetone	50		10 U				
Acrylonitrile	5		5 U				
Benzene	1		1 U				
Bromochloromethane	5		1 U				
Bromodichloromethane	50		1 U				
Bromoform	50		1 U				
Bromomethane	5		1 U				
Carbon Disulfide	60		1 U				
Carbon Tetrachloride	5		1 U				
Chlorobenzene	5		1 U				
Chloroethane	5		1 U				
Chloroform	7		1 U				
Chloromethane	5		1 U				
cis-1,2-Dichloroethylene	5		1 U				
cis-1,3-Dichloropropene	5		1 U				
Dibromochloromethane	50		1 U				
Dibromomethane	5		1 U				
Ethylbenzene	5		1 U				
Iodomethane	5		1 U				
Methylene Chloride	5		1 U				
Styrene	5		1 U				
Tetrachloroethene	5		1 U				
Toluene	5		1 U				
trans-1,2-Dichloroethylene	5		1 U				
trans-1,3-Dichloropropene	5		1 U				
trans-1,4-Dichloro-2-Butene	5		5 U				
Trichloroethene	5		1 U				
Trichlorofluoromethane	5		1 U				
Vinyl Acetate	5		5 U *				
Vinyl Chloride	2		1 U				
Xylene (total)mp	5		2 U				
Xylene (total)o	5		1 U				

NOTES:
Blank cells indicate sample was not analyzed for this parameter
Concentrations in ug/L unless otherwise noted
NA = Not applicable; No standard established
NS = Not sampled
U = Compound not detected; detection limit shown
B = Analyte detected in laboratory blank
J = Estimated concentration less than detection limit

Table 3
Summary of Analytical Results at the Phase I PPRS
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	NYSDEC GA standard (ug/l)	3/27/2014	5/23/2014	9/8/2014	12/1/2014	3/4/2015	5/21/2015
Inorganic Parameters							
Aluminum	NA		200 U				
Antimony	3		20 U				
Arsenic	25		14.3				
Barium	1000		38.7				
Beryllium	3		2 U				
Boron	1000		588				
Cadmium	5	1 U	1 U	0.05 U	0.2 U	0.2 U	0.2 U
Calcium	NA	367000 B	371000 ^	428000	433000	384000	380000
Chromium	50		4 U				
Cobalt	NA		1.9 J				
Copper	200		10 U				
Iron	300	7000 B	6660	46.2 J	6770	8440	7990
Lead	25	5 U	5 U	0.2 U	1 U	1 U	1000 U
Magnesium	NA	149000 B	148000 ^	166000	156000	150000	140000
Manganese	300	8260 B	8410 ^	9938	9590	8744	9168
Mercury	0.7		0.2 U				
Nickel	100		2.2 J				
Potassium	NA	9360	8610	7360	7800	7730	8860
Selenium	10		15 U				
Silver	50		3 U				
Sodium	20000	87200 B	76300	65700	61200	72200	73600
Thallium	0.5		20 U				
Vanadium	NA		5 U				
Zinc	2000		3.9 J				
Leachate Indicator Parameters							
Alkalinity	NA	450000	454000	566000	470000	473000	456000
Ammonia	2000	160	150	640	203	182	176
Biochemical Oxygen Demand	NA	2000 U	2000	19000	2000 U	2000 U	2000 U
Bromide	2000	1000 U	200	163 U	50 U	50 U	50 U
Chemical Oxygen Demand	NA	8800 J B	13200	41000	10000 U	10000 U	12000
Chloride	250000	33700	34800	40600	37400	31700	35400
Color (units)	NA		40000				
Cyanide	200		10				
Hardness as CaCO3 (mg/L)	NA	1660	1600	1755	1723	1578	1500
Hexavalent Chromium	50		10				
Nitrate	10000	50 U	50	28 J	500 U	500 U	100 U
Phenols	1	10 U	10	9 U	30 U	30 U	30 U
Sulfate	250000	1280000	1210000	1540000	1800000	1330000	1350000
Sulfide	50						
Total Dissolved Solids	500000	2270000	2350000	2300000	2300000	2400000	2400000
Total Kjeldahl Nitrogen	NA	220	480	990	391	363	342
Total Organic Carbon	NA	2200	1200	7160	2310	2650	2460
Field Parameters							
Temperature (celsius)	NA	19.8	19.0	24.0	19.5	20.0	22
pH (su)	NA	7.0	7.0	7.2	7.2	7.2	6.78
Specific Conductance (uS)	NA	542	650	2712	2770	2870	2691
Eh (mv)	NA	-47	-98	-24	-120	-135	-185
Turbidity (VISUAL/ntu)	NA	10	10	11	10	10	10

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NS = Not sampled
U = Analyte not detected; detection limit shown
B = Analyte detected in laboratory blank
E = Estimated by laboratory
J = Estimated by data validator
H = Sample was prepped or analyzed outside of holding time
N = Spiked sample recovery not within control limits
R = Result rejected by the data validator

Table 3
Summary of Analytical Results at the Phase I PPRS
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	NYSDEC GA standard (ug/l)	9/15/2015	12/14/2015	3/28/2016	6/20/2016	10/6/2016	12/7/2016
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	5						2.5 U
1,1,1-Trichloroethane	5	0.7 U					2.5 U
1,1,2,2-Tetrachloroethane	5	0.14 U					0.5 U
1,1,2-Trichloroethane	5	0.5 U					1.5 U
1,1-Dichloroethane	5	0.7 U					2.5 U
1,1-Dichloroethene	5	0.14 U					0.5 U
1,2,3-Trichloropropane	5	NA					2.5 U
1,2-Dibromo-3-Chloropropane	5	0.7 U					2.5 U
1,2-Dibromoethane	5	0.65 U					2 U
1,2-Dichlorobenzene	4.7	0.7 U					2.5 U
1,2-Dichloroethane	5	0.13 U					0.5 U
1,2-Dichloropropane	5	0.13 U					1 U
1,4-Dichlorobenzene	4.7	0.7 U					2.5 U
2-Butanone	50	1.9 U					5 U
2-Hexanone	50	1 U					5 U
4-Methyl-2-Pentanone	5	1 U					5 U
Acetone	50	2.2 U					5 U
Acrylonitrile	5						5 U
Benzene	1	0.16 U					0.5 U
Bromochloromethane	5	0.7 U					2.5 U
Bromodichloromethane	50	0.19 U					0.5 U
Bromoform	50	0.65 U					2 U
Bromomethane	5	0.7 U					2.5 U
Carbon Disulfide	60	1 U					5 U
Carbon Tetrachloride	5	0.13 U					0.5 U
Chlorobenzene	5	0.7 U					2.5 U
Chloroethane	5	0.7 U					2.5 U
Chloroform	7	0.7 U					2.5 U
Chloromethane	5	0.7 U					2.5 U
cis-1,2-Dichloroethylene	5	0.7 U					2.5 U
cis-1,3-Dichloropropene	5	0.14 U					0.5 U
Dibromochloromethane	50	0.15 U					0.5 U
Dibromomethane	5	NA					5 U
Ethylbenzene	5	0.7 U					2.5 U
Iodomethane	5	NA					5 U
Methylene Chloride	5	0.7 U					2.5 U
Styrene	5	0.7 U					2.5 U
Tetrachloroethene	5	0.18 U					0.5 U
Toluene	5	0.7 U					2.5 U
trans-1,2-Dichloroethylene	5	0.7 U					2.5 U
trans-1,3-Dichloropropene	5	0.16 U					2.5 U
trans-1,4-Dichloro-2-Butene	5	NA					0.5 U
Trichloroethene	5	0.18 U					0.5 U
Trichlorofluoromethane	5	0.7 U					2.5 U
Vinyl Acetate	5	NA					5 U
Vinyl Chloride	2	0.07 U					1 U
Xylene (total)mp	5	0.7 U					2.5 U
Xylene (total)o	5	0.7 U					2.5 U

NOTES:
Blank cells indicate sample was not analyzed for this parameter
Concentrations in ug/L unless otherwise noted
NA = Not applicable; No standard established
NS = Not sampled
U = Compound not detected; detection limit shown
B = Analyte detected in laboratory blank
J = Estimated concentration less than detection limit

Table 3
Summary of Analytical Results at the Phase I PPRS
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	NYSDEC GA standard (ug/l)	9/15/2015	12/14/2015	3/28/2016	6/20/2016	10/6/2016	12/7/2016
Inorganic Parameters							
Aluminum	NA	9.45 J					10 U
Antimony	3	0.15 J					4 U
Arsenic	25	5.07					17.5
Barium	1000	38.58					41.1
Beryllium	3	0.15 U					0.5 U
Boron	1000	575					535
Cadmium	5	0.05 U	0.2 U	0.2 U	0.2 U	0.0599 U	0.2 U
Calcium	NA	390000	400000	340000	410000	420000	410000
Chromium	50	0.79 J					0.6 J
Cobalt	NA	0.51					2.5
Copper	200	0.41 J					1 U
Iron	300	7040	7040	3150	10300	8700	11000
Lead	25	0.12 U	1 U	1 U	1 U	0.343 U	1 U
Magnesium	NA	170000	160000	152000	174000	159000	170000
Manganese	300	9024	8100	8041	9004	9080	8301
Mercury	0.7	0.06 U					0.2 U
Nickel	100	1.22					1.8 J
Potassium	NA	6960	7420	8710	9280	8820	8720
Selenium	10	1 U					5 U
Silver	50	0.07 U					0.4 U
Sodium	20000	73400	95100	65200	75700	75900	77500
Thallium	0.5	0.05 U					0.5 U
Vanadium	NA	0.55 U					5 U
Zinc	2000	6.85 J					10 U
Leachate Indicator Parameters							
Alkalinity	NA	473000	459000	469000	448000	453000	474000
Ammonia	2000	174	231	142	237	254	238
Biochemical Oxygen Demand	NA	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U
Bromide	2000	100	50 U	1250 U	94	10 U	127
Chemical Oxygen Demand	NA	10000	12000	29000	12000	18000	13000
Chloride	250000	32600	31900	29600	29300	31000	32900
Color (units)	NA	64					60
Cyanide	200	4 J					5 U
Hardness as CaCO3 (mg/L)	NA	1700	1700	1474	1741		1700
Hexavalent Chromium	50	3 U					10 U
Nitrate	10000	32 J	38 J	30 J	100 U	30 J	100 U
Phenols	1	4 U	30 U	5 J	30 U	9 U	7 J
Sulfate	250000	1410000	1560000	1380000	1970000	1680000	1360000
Sulfide	50						
Total Dissolved Solids	500000	2400000	2400000	2400000	2500000	2500000	2500000
Total Kjeldahl Nitrogen	NA	480	363	283 J	433	576	366
Total Organic Carbon	NA	2970	2590	3270	2350	2200	1620
Field Parameters							
Temperature (celsius)	NA	23	23	22.6	23.6		25.6
pH (su)	NA	6.88	7.01	6.9	7.17		7.08
Specific Conductance (uS)	NA	265	1270	1228	1235		1250
Eh (mv)	NA	-77	-32	-41	-78		-37
Turbidity (VISUAL/ntu)	NA	clear	8	8	9		clear

NOTES:
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E = Estimated by laboratory
J = Estimated by data validator
H = Sample was prepped or analyzed outside of holding time
N = Spiked sample recovery not within control limits
R = Result rejected by the data validator

Table 3
Summary of Analytical Results at the Phase I PPRS
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	NYSDEC GA standard (ug/l)	4/3/2017	6/22/2017	9/29/2017	12/8/2017
Volatile Organic Compounds					
1,1,1,2-Tetrachloroethane	5		2.5 U		
1,1,1-Trichloroethane	5		2.5 U		
1,1,2,2-Tetrachloroethane	5		0.5 U		
1,1,2-Trichloroethane	5		1.5 U		
1,1-Dichloroethane	5		2.5 U		
1,1-Dichloroethene	5		0.5 U		
1,2,3-Trichloropropane	5		2.5 U		
1,2-Dibromo-3-Chloropropane	5		2.5 U		
1,2-Dibromoethane	5		2 U		
1,2-Dichlorobenzene	4.7		2.5 U		
1,2-Dichloroethane	5		0.5 U		
1,2-Dichloropropane	5		1 U		
1,4-Dichlorobenzene	4.7		2.5 U		
2-Butanone	50		5 U		
2-Hexanone	50		5 U		
4-Methyl-2-Pentanone	5		5 U		
Acetone	50		5 U		
Acrylonitrile	5		5 U		
Benzene	1		0.5 U		
Bromochloromethane	5		2.5 U		
Bromodichloromethane	50		0.5 U		
Bromoform	50		2 U		
Bromomethane	5		2.5 U		
Carbon Disulfide	60		5 U		
Carbon Tetrachloride	5		0.5 U		
Chlorobenzene	5		2.5 U		
Chloroethane	5		2.5 U		
Chloroform	7		2.5 U		
Chloromethane	5		2.5 U		
cis-1,2-Dichloroethylene	5		2.5 U		
cis-1,3-Dichloropropene	5		0.5 U		
Dibromochloromethane	50		0.5 U		
Dibromomethane	5		5 U		
Ethylbenzene	5		2.5 U		
Iodomethane	5		2.5 U		
Methylene Chloride	5		2.5 U		
Styrene	5		0.5 U		
Tetrachloroethene	5		2.5 U		
Toluene	5		2.5 U		
trans-1,2-Dichloroethylene	5		2.5 U		
trans-1,3-Dichloropropene	5		0.5 U		
trans-1,4-Dichloro-2-Butene	5		0.5 U		
Trichloroethene	5		2.5 U		
Trichlorofluoromethane	5		5 U		
Vinyl Acetate	5		1 U		
Vinyl Chloride	2		2.5 U		
Xylene (total)mp	5		2.5 U		
Xylene (total)o	5		5 U		

NOTES:
Blank cells indicate sample was not analyzed for this parameter
Concentrations in ug/L unless otherwise noted
NA = Not applicable; No standard established
NS = Not sampled
U = Compound not detected; detection limit shown
B = Analyte detected in laboratory blank
J = Estimated concentration less than detection limit

Table 3
Summary of Analytical Results at the Phase I PPRS
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	NYSDEC GA standard (ug/l)	4/3/2017	6/22/2017	9/29/2017	12/8/2017
Inorganic Parameters					
Aluminum	NA		5.86 J		
Antimony	3		4 U		
Arsenic	25		5.55		
Barium	1000		37.6		
Beryllium	3		0.5 U		
Boron	1000		500		
Cadmium	5	0.0599 U	0.2 U	0.2 U	0.2 U
Calcium	NA	412000	440000	426000	471000
Chromium	50		0.33 J		
Cobalt	NA		0.27 J		
Copper	200		1 U		
Iron	300	9740	10700	10500	11600
Lead	25	0.343 U	1 U	1 U	1 U
Magnesium	NA	160000	159000	162000	153000
Manganese	300	9317	9785	8395	9735
Mercury	0.7		0.2 U		
Nickel	100		0.76 J		
Potassium	NA	8450	8510	8880	8180
Selenium	10		5 U		
Silver	50		0.4 U		
Sodium	20000	82500	81800	81800	75000
Thallium	0.5		0.5 U		
Vanadium	NA		5 U		
Zinc	2000		6.09 J		
Leachate Indicator Parameters					
Alkalinity	NA	463000	454000	450000	491000
Ammonia	2000	288	242	264	385
Biochemical Oxygen Demand	NA	2200	2000 U	2000 U	2000 U
Bromide	2000	515 U	50 U	50 U	500 U
Chemical Oxygen Demand	NA	10000	13000	8100 J	11000
Chloride	250000	29300	32500	36600	34400
Color (units)	NA		86		
Cyanide	200		2 J		
Hardness as CaCO3 (mg/L)	NA	1689	1753	1730	1804
Hexavalent Chromium	50		10 U		
Nitrate	10000	19 U	500 U	100 U	100 U
Phenols	1	17 J	19 J	7 J	12 J
Sulfate	250000	1430000	1400000	1840000	1640000
Sulfide	50				
Total Dissolved Solids	500000	2500000	2600000	2500000	2500000
Total Kjeldahl Nitrogen	NA	369	383	412	460
Total Organic Carbon	NA	1810	1930	2170	1990
Field Parameters					
Temperature (celsius)	NA	27.8	24.5	22.4	22.8
pH (su)	NA	6.94	7.29	7.02	7.09
Specific Conductance (uS)	NA	1250	1201	1198	1300
Eh (mv)	NA	-42	-105	-49	-68
Turbidity (VISUAL/ntu)	NA	7	8	clear	clear

NOTES:
Blank cells indicate sample was not analyzed for this parameter
Concentrations in ug/L unless otherwise noted
NA = Not applicable; No standard established
NS = Not sampled
U = Analyte not detected; detection limit shown
B = Analyte detected in laboratory blank
E = Estimated by laboratory
J = Estimated by data validator
H = Sample was prepped or analyzed outside of holding time
N = Spiked sample recovery not within control limits
R = Result rejected by the data validator

Table 4
Summary of Analytical Results at the Phase II PPRS
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	NYSDEC GA standard (ug/l)	2/25/2013	5/28/2013	9/4/2013	11/18/2013	3/27/2014	5/23/2014
Inorganic Parameters							
Aluminum	NA				200 U		200 U
Antimony	3				20.0 U		20 U
Arsenic	25				10.0 U		10 U
Barium	1000				28.1		28.6
Beryllium	3				2.0 U		2 U
Boron	1000				255		242
Cadmium	5	0.51 J	0.61 J	0.53 J	1.0 U	1 U	1 U
Calcium	NA	350000	361000	363000	381000	337000 B	366000 ^
Chromium	50				1.3 J		4 U
Cobalt	NA				2.3 J		2.5 J
Copper	200				1.7 J		1.9 J
Iron	300	550	687	723	680	680 B	782
Lead	25	5 U	5 U	5 U	5.0 U	5 U	5 U
Magnesium	NA	229000	239000	217000	215000	194000 B	207000 ^
Manganese	300	1800	1820	1780	1660	1440 B	1630 ^
Mercury	0.7				0.20 U		0.2 U
Nickel	100				3.8 J		3.9 J
Potassium	NA	10800	11300	9780 B	9430	8500	8690
Selenium	10				15.0 U		15 U
Silver	50				3.0 U		3 U
Sodium	20000	87600	92300	80100 B	73500	72800 B	69800
Thallium	0.5				20.0 U		20 U
Vanadium	NA				5.0 U		5 U
Zinc	2000				2.9 J		8.6 J
Leachate Indicator Parameters							
Alkalinity	NA	368000	383000	369000	336000	372000	368000
Ammonia	2000	580	750	490	370 J	410	460
Biochemical Oxygen Demand	NA	2000 U	2000 U	2000 U	8200 J	2000 U	2000
Bromide	2000	200 U	200 U	200 U	1000 U	1000 U	1000
Chemical Oxygen Demand	NA	9200 J B	10000 U	10000 U	10000 U	8800 J N	8500
Chloride	250000	17300	17200	3400	14900 J	19000	20200
Color (units)	NA				10.0		10000
Cyanide	200				10 U		10 J
Hardness as CaCO3 (mg/L)	NA	1850	1880	1170	1780	1760	1700
Hexavalent Chromium	50				6.6 UJ		10 J
Nitrate	10000	23 J	33 J	47 J	50 U	50 U	21
Phenols	1	10 U	10 U	10 U	10 U	10 U	10
Sulfate	250000	1370000	1620000	1540000	1580000 J	1470000	1340000
Sulfide	50						
Total Dissolved Solids	500000	2690000	2580000	2520000	2430000	2480000	2500000
Total Kjeldahl Nitrogen	NA	890	1000	720 B	690 UJ	680	490
Total Organic Carbon	NA	1000 U	860 J	1500	940 J	1400	590
Field Parameters							
Temperature (celsius)	NA	16.2	18.8	18.8	18.9	17.6	21.5
pH (su)	NA	7.05	7.02	7.02	7.06	7.0	7.1
Specific Conductance (uS)	NA	672	895	895	677	557	755
Eh (mv)	NA	10	-15	-15	-10	-70	-104
Turbidity (VISUAL/ntu)	NA	11	10	10	8	11	8

NOTES:
Blank cells indicate sample was not analyzed for this parameter
Concentrations in ug/L unless otherwise noted
NA = Not applicable; No standard established
U = Analyte not detected; detection limit shown
B = Analyte detected in laboratory blank
E = Estimated by laboratory
J = Estimated by data validator
H = Sample was prepped or analyzed outside of holding time
N = Spiked sample recovery not within control limits
R = Result rejected by the data validator

Table 4
Summary of Analytical Results at the Phase II PPRS
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	NYSDEC GA standard (ug/l)	9/8/2014	12/1/2014	3/4/2015	5/21/2015	9/15/2015	12/14/2015
Inorganic Parameters							
Aluminum	NA					9.31 J	
Antimony	3					0.48 J	
Arsenic	25					1.23	
Barium	1000					32.32	
Beryllium	3					0.15 U	
Boron	1000					308	
Cadmium	5	0.05 U	0.2 U	0.2 U	200 U	0.05 U	0.2 U
Calcium	NA	464000	386000	353000	360000	370000 J	360000
Chromium	50					0.59 J	
Cobalt	NA					2.98	
Copper	200					0.27 J	
Iron	300	777	784	1030	1010	1090	1100
Lead	25	0.2 U	1 U	1 U	1000 U	0.12 U	1 U
Magnesium	NA	220000	162000	183000	170000	210000 J	200000
Manganese	300	2116	1820	2182	2236	2532	3723
Mercury	0.7					0.06 U	
Nickel	100					3.92	
Potassium	NA	6900	7180	8120	8170	8210	8140
Selenium	10					1 U	
Silver	50					0.07 U	
Sodium	20000	60800	51400	55100	61000	71600	81000
Thallium	0.5					0.05 U	
Vanadium	NA					0.55 U	
Zinc	2000					13.83	
Leachate Indicator Parameters							
Alkalinity	NA	390000	409000	432000	428000	440000 J	424000
Ammonia	2000	335	372	443	469	385	0.328
Biochemical Oxygen Demand	NA	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U
Bromide	2000	163 U	50 U	50 U	50 U	10 UJ	50 U
Chemical Oxygen Demand	NA	5000 J	10000 U	10000 U	10000 U	3500 U	9.3 J
Chloride	250000	22500	23400	17900	18500	17500	13.6
Color (units)	NA					22000	
Cyanide	200					2 J	
Hardness as CaCO3 (mg/L)	NA	2064	1633	1635	1600	1800	1700
Hexavalent Chromium	50					3 U	
Nitrate	10000	21 U	100 U	100 U	100 U	41 J	0.12
Phenols	1	9 U	30 U	12 J	0.007 J	20 J	0.009 J
Sulfate	250000	1800000	1860000	1350000	1420000	1600000	1680
Sulfide	50			0			
Total Dissolved Solids	500000	2300000	2300000	2400000	2400000	2500000	2500000
Total Kjeldahl Nitrogen	NA	530	534	470	605	550	0.433
Total Organic Carbon	NA	4710	1560	1860	1580	1930	1.65
Field Parameters							
Temperature (celsius)	NA	25	23	20.5	26.5	27	25
pH (su)	NA	7.0	7.0	7.0	7.04	6.97	7.03
Specific Conductance (uS)	NA	2700	2740	2860	2650	1314	1260
Eh (mv)	NA	-120	-114	-130	-155	-46	-12
Turbidity (VISUAL/ntu)	NA	9	9	10	10	clear	6

NOTES:
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Concentrations in ug/L unless otherwise noted
NA = Not applicable; No standard established
U = Analyte not detected; detection limit shown
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E = Estimated by laboratory
J = Estimated by data validator
H = Sample was prepped or analyzed outside of holding time
N = Spiked sample recovery not within control limits
R = Result rejected by the data validator

Table 4
Summary of Analytical Results at the Phase II PPRS
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	NYSDEC GA standard (ug/l)	3/28/2016	10/6/2016	12/7/2016	4/3/2017	6/22/2017	9/29/2017	12/8/2017
Inorganic Parameters								
Aluminum	NA			12		9.02 J		
Antimony	3			4 U		1.47 J		
Arsenic	25			2.9		3.78		
Barium	1000			36		32.96		
Beryllium	3			0.5 U		0.5 U		
Boron	1000			458		435		
Cadmium	5	0.2 U	0.0599 U	0.2 U	0.0599 U	0.2 U	0.2 U	0.2 U
Calcium	NA	362000	376000	370000	402000	408000	411000	454000
Chromium	50			0.9 J		0.25 J		
Cobalt	NA			3.5		3.22		
Copper	200			0.5 J		1 U		
Iron	300	1050	1220	1450	1390	1570	1440	1510
Lead	25	1 U	0.343 U	1 U	0.343 U	1 U	1 U	1 U
Magnesium	NA	208000	198000	210000	206000	201000	209000	186000
Manganese	300	3290	3685	4262	3885	4054	4015	3940
Mercury	0.7			0.2 U		0.2 U		
Nickel	100			3.1		2.94		
Potassium	NA	9400	12000	12900	11700	12100	12100	13400
Selenium	10			5 U		5 U		
Silver	50			0.4 U		0.4 U		
Sodium	20000	62400	75100	78700	84800	81900	80900	81200
Thallium	0.5			0.5 U		0.5 U		
Vanadium	NA			5 U		5 U		
Zinc	2000			9.3 J		7.97 J		
Leachate Indicator Parameters								
Alkalinity	NA	433000	426000	436000	440000	431000	432000	445000
Ammonia	2000	442	732	532	689	844	736	817
Biochemical Oxygen Demand	NA	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U
Bromide	2000	1250 U	10 U	50 U	206 U	50 U	50 U	500 U
Chemical Oxygen Demand	NA	4400 J	8500 J	5800 J	3400 J	14600	10000 U	10000 U
Chloride	250000	14000	14300	14200	12400	6400	13800	13900
Color (units)	NA			12		26		
Cyanide	200			5 U		5 J		
Hardness as CaCO3 (mg/L)	NA	1762		1800	1850	1847	1888	1898
Hexavalent Chromium	50			10 U		10 U		
Nitrate	10000	100 U	35 J	100 U	19 U	100 U	100 U	100 U
Phenols	1	30 U	9 U	7 J	15 J	9 J	30 U	7 J
Sulfate	250000	1530000	2110000	1550000	1630000	1600000	2260000	1900000
Sulfide	50							
Total Dissolved Solids	500000	2500000	2600000	2600000	2700000	2800000	2800000	2800000
Total Kjeldahl Nitrogen	NA	645	1010	746	812	796	874	872
Total Organic Carbon	NA	2050	1740	1240	1170	1290	1530	1150
Field Parameters								
Temperature (celsius)	NA	26.5		30.4	29.7	33.6	31.7	30.1
pH (su)	NA	6.99		7.25	7.00	7.38	9.99	7.13
Specific Conductance (uS)	NA	1280		1266	1292	1300	1276	1375
Eh (mv)	NA	-15		-20	-19	-52	-30	-25
Turbidity (VISUAL/ntu)	NA	10		clear	8	10	clear	clear

NOTES:
Blank cells indicate sample was not analyzed for this parameter
Concentrations in ug/L unless otherwise noted
NA = Not applicable; No standard established
U = Analyte not detected; detection limit shown
B = Analyte detected in laboratory blank
E = Estimated by laboratory
J = Estimated by data validator
H = Sample was prepped or analyzed outside of holding time
N = Spiked sample recovery not within control limits
R = Result rejected by the data validator

Table 5
Summary of the Analytical Results at the Phase II Cells A and B Secondary Leachate
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	COMPOSITE 12/20/2004	CELL A 3/30/2005	CELL B 3/30/2005	CELL A 6/30/2005	CELL B 6/30/2005
Volatile Organic Compounds					
1,1,1,2-Tetrachloroethane	5 U				
1,1,1-Trichloroethane	5 U				
1,1,2,2-Tetrachloroethane	5 U				
1,1,2-Trichloroethane	5 U				
1,1-Dichloroethane	5 U				
1,1-Dichloroethene	5 U				
1,2,3-Trichloropropane	5 U				
1,2-Dibromo-3-Chloropropane	5 U				
1,2-Dibromoethane	5 U				
1,2-Dichlorobenzene	5 U				
1,2-Dichloroethane	5 U				
1,2-Dichloropropane	5 U				
1,4-Dichlorobenzene	5 U				
2-Butanone	10 U				
2-Hexanone	10 U				
4-Methyl-2-Pentanone	10 U				
Acetone	10 U				
Acrylonitrile	10 U				
Benzene	5 U				
Bromochloromethane	5 U				
Bromodichloromethane	5 U				
Bromoform	5 U				
Bromomethane	5 U				
Carbon Disulfide	5 U				
Carbon Tetrachloride	5 U				
Chlorobenzene	5 U				
Chloroethane	5 U				
Chloroform	5 U				
Chloromethane	5 U				
cis-1,2-Dichloroethylene	5 U				
cis-1,3-Dichloropropene	5 U				
Dibromochloromethane	5 U				
Dibromomethane	5 U				
Ethylbenzene	5 U				
Iodomethane	10 U				
Methylene Chloride	5 U				
Styrene	5 U				
Tetrachloroethene	5 U				
Toluene	5 UB				
trans-1,2-Dichloroethylene	5 U				
trans-1,3-Dichloropropene	5 U				
trans-1,4-Dichloro-2-Butene	10 U				
Trichloroethene	5 U				
Trichlorofluoromethane	5 U				
Vinyl Acetate	5 U				
Vinyl Chloride	5 U				
Xylene (total)mp	5 U				
Xylene (total)o	5 U				

NOTES:

Blank cells indicate sample was not analyzed for this parameter

Concentrations in ug/L unless otherwise noted

U = Compound not detected; detection limit shown

B = Analyte detected in laboratory blank

* = LCS, LCSD, MS or MSD exceeds the control limit

J = Estimated concentration less than detection limit

Table 5
Summary of the Analytical Results at the Phase II Cells A and B Secondary Leachate
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	COMPOSITE 12/20/2004	CELL A 3/30/2005	CELL B 3/30/2005	CELL A 6/30/2005	CELL B 6/30/2005
Inorganic Parameters					
Aluminum	92 U				
Antimony	5.4 U				
Arsenic	3.9 U				
Barium	144				
Beryllium	0.54 U				
Boron	27 U				
Cadmium	1.1 U	5.5 U	5.5 U	1.1 U	1.1 U
Calcium	182000	162000	280000	198000	189000
Chromium	6.5 B				
Cobalt	5.6 B				
Copper	9 B				
Iron	1020	270 U	4860	128 B	4260
Lead	3 U	15 U	15 U	3 U	3 U
Magnesium	55800	39200	105000	60600	57000
Manganese	3550	1510	6170	7260	5290
Mercury	0.07 U				
Nickel	11.5				
Potassium	929	955 U	1120 B	2160	1450
Selenium	5 U				
Silver	1.1 U				
Sodium	23900 J	16200	25800	21500	19900
Thallium	10 UJ				
Vanadium	1.5				
Zinc	11				
Leachate Indicator Parameters					
Alkalinity	467000	374000	845000	724000	675000
Ammonia	130	120	250	86	190
Biochemical Oxygen Demand	1400	1600 B	14000	2900	3500
Bromide	92	500 U	500 U	81 B	100 U
Chemical Oxygen Demand	3840	14200	13300	4630 B	10000 U
Chloride	6880	37400	13600	6240	5010
Color (units)	10				
Cyanide	10				
Hardness as CaCO3 (mg/L)	684	566	1130	744	707
Hexavalent Chromium	10				
Nitrate	171	500 U	500 U	100 U	100 U
Phenols	5	5 U	5 U	5 U	5 U
Sulfate	235000	214000	333000	55900	67400
Total Dissolved Solids	790000	670000	1300000	790000	740000
Total Kjeldahl Nitrogen	195	244	217	219	214
Total Organic Carbon	2000	3100	2700	1600	1700
Field Parameters					
Temperature (celsius)	NA	11.7	12.2	11.7	11.2
pH (su)	7.81	7.23	7.13	7.23	6.61
Specific Conductance (uS)	655	703	1401	703	1093
Eh (mv)	-25	120	<-80	120	-15
Turbidity (VISUAL/ntu)	LOW	LOW	LOW	<10	15

NOTES:

*CELL A was not sampled during Q3 2013 due to mechanical malfunction.

Blank cells indicate sample was not analyzed for this parameter

Concentrations in ug/L unless otherwise noted

NA = Not applicable

NS = Not sampled

NM = Not measured (analyzed)

U = Analyte not detected; detection limit shown

H = Sample was prepped or analyzed outside of holding time

B = Analyte detected less than CRDL

CRDL =Contract required detection limit

E = Estimated by laboratory

J = Estimated by data validator

N = Spiked sample recovery not within control limits

R = Result rejected due to poor matrix spike recovery

Table 5
Summary of the Analytical Results at the Phase II Cells A and B Secondary Leachate
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	CELL A 9/22/2005	CELL B 9/22/2005	CELL A 12/20/2005	CELL B 12/20/2005	CELL A 3/29/2006	CELL B 3/29/2006
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane			5 U	5 U		
1,1,1-Trichloroethane			5 U	5 U		
1,1,2,2-Tetrachloroethane			5 U	5 U		
1,1,2-Trichloroethane			5 U	5 U		
1,1-Dichloroethane			5 U	0.79 J		
1,1-Dichloroethene			5 U	5 U		
1,2,3-Trichloropropane			5 U	5 U		
1,2-Dibromo-3-Chloropropane			5 U	5 U		
1,2-Dibromoethane			5 U	5 U		
1,2-Dichlorobenzene			5 U	5 U		
1,2-Dichloroethane			5 U	5 U		
1,2-Dichloropropane			5 U	5 U		
1,4-Dichlorobenzene			5 U	5 U		
2-Butanone			10 U	10 U		
2-Hexanone			10 U	10 U		
4-Methyl-2-Pentanone			10 U	10 U		
Acetone			10 U	10 U		
Acrylonitrile			10 U	10 U		
Benzene			5 U	5 U		
Bromochloromethane			5 U	5 U		
Bromodichloromethane			5 U	5 U		
Bromoform			5 U	5 U		
Bromomethane			5 U	5 U		
Carbon Disulfide			5 UJ	5 UJ		
Carbon Tetrachloride			5 U	5 U		
Chlorobenzene			5 U	5 U		
Chloroethane			5 U	5 U		
Chloroform			5 U	5 U		
Chloromethane			5 U	5 U		
cis-1,2-Dichloroethylene			5 U	5 U		
cis-1,3-Dichloropropene			5 U	5 U		
Dibromochloromethane			5 U	5 U		
Dibromomethane			5 U	5 U		
Ethylbenzene			5 U	5 U		
Iodomethane			10 U	10 U		
Methylene Chloride			5 U	5 U		
Styrene			5 U	5 U		
Tetrachloroethene			5 U	5 U		
Toluene			0.78 J	0.36 J		
trans-1,2-Dichloroethylene			5 U	5 U		
trans-1,3-Dichloropropene			5 U	5 U		
trans-1,4-Dichloro-2-Butene			10 U	10 U		
Trichloroethene			5 U	5 U		
Trichlorofluoromethane			5 U	5 U		
Vinyl Acetate			5 U	5 U		
Vinyl Chloride			5 U	5 U		
Xylene (total)mp			5 U	5 U		
Xylene (total)o			5 U	5 U		

NOTES:

Blank cells indicate sample was not analyzed for this parameter

Concentrations in ug/L unless otherwise noted

U = Compound not detected; detection limit shown

B = Analyte detected in laboratory blank

* = LCS, LCSD, MS or MSD exceeds the control limit

J = Estimated concentration less than detection limit

Table 5
Summary of the Analytical Results at the Phase II Cells A and B Secondary Leachate
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	CELL A 9/22/2005	CELL B 9/22/2005	CELL A 12/20/2005	CELL B 12/20/2005	CELL A 3/29/2006	CELL B 3/29/2006
Inorganic Parameters						
Aluminum			92 U	92 U		
Antimony			5.4 U	5.4 U		
Arsenic			3.9 U	5.3 B		
Barium			130	295		
Beryllium			0.54 U	0.54 U		
Boron			28.6 B	34.6 B		
Cadmium	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Calcium	163000	189000	160000	210000	162000	21700
Chromium			1.3 U	1.3 U		
Cobalt			1.8 U	11.7		
Copper			4.3 U	4.3 U		
Iron	12000	5070	54 UJ	7060 NJ	2990	172 B
Lead	3.1 B	3 U	6.2 B	3.6 B	3 U	3 U
Magnesium	34100	52100	35900	67300	46700	1890
Manganese	2830	7110	2810	8520	5080	44.6
Mercury			0.07 U	0.07 U		
Nickel			19.1	14.5		
Potassium	1040	1440	872	1360	1140	5160
Selenium			5 U	5 U		
Silver			1.1 U	1.2 B		
Sodium	14800	22200	14100 J	29800 J	29400	53900
Thallium			10 UJ	10 UJ		
Vanadium			1.5 U	1.5 U		
Zinc			12.9 B	11 U		
Leachate Indicator Parameters						
Alkalinity	553000	655000	535000	697000	556000	783000
Ammonia	670	220	350	160 J	18 B	91
Biochemical Oxygen Demand	3000	3900	570 B	870 B	4600	4900
Bromide	44 B	41 B	100 U	137	80 B	100
Chemical Oxygen Demand	11500	10000 U	21700	10000 U	17500	6700 B
Chloride	4270	4330	6490	6430	6850	6860
Color (units)			75	50		
Cyanide			10 U	10 U		
Hardness as CaCO3 (mg/L)	547	686	547	802	597	620
Hexavalent Chromium			10 U	10 U		
Nitrate	100 U	100 U	100 U	100 U	100 U	100 U
Phenols	5 B	5 U	5	5 U	5 U	5 U
Sulfate	10300	49500	57100	156000 J	44600	195000
Total Dissolved Solids	590000	720000	620000	910000	600000	960000
Total Kjeldahl Nitrogen	389	105	902	253 J	276	865
Total Organic Carbon	3000	1300	1600	520 JB	4200	2900
Field Parameters						
Temperature (celsius)	21	22	14.8	14	15.5	15.1
pH (su)	6.83	6.87	7.73	7.53	6.96	6.77
Specific Conductance (uS)	653	725	561	681	1024	1579
Eh (mv)	<-80	-75	<-80	-80	-49	-12
Turbidity (VISUAL/ntu)	LOW	LOW	LOW	LOW	LOW	LOW

NOTES:

*CELL A was not sampled during Q3 2013 due to mechanical malfunction.

Blank cells indicate sample was not analyzed for this parameter

Concentrations in ug/L unless otherwise noted

NA = Not applicable

NS = Not sampled

NM = Not measured (analyzed)

U = Analyte not detected; detection limit shown

H = Sample was prepped or analyzed outside of holding time

B = Analyte detected less than CRDL

CRDL =Contract required detection limit

E = Estimated by laboratory

J = Estimated by data validator

N = Spiked sample recovery not within control limits

R = Result rejected due to poor matrix spike recovery

Table 5
Summary of the Analytical Results at the Phase II Cells A and B Secondary Leachate
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	CELL A 6/19/2006	CELL B 6/19/2006	CELL A 9/21/2006	CELL B 9/21/2006	CELL A 12/14/2006	CELL B 12/14/2006
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	5 U	5 U				
1,1,1-Trichloroethane	5 U	5 U				
1,1,2,2-Tetrachloroethane	5 U	5 U				
1,1,2-Trichloroethane	5 U	5 U				
1,1-Dichloroethane	5 U	5 U				
1,1-Dichloroethene	5 U	5 U				
1,2,3-Trichloropropane	5 U	5 U				
1,2-Dibromo-3-Chloropropane	5 U	5 U				
1,2-Dibromoethane	5 U	5 U				
1,2-Dichlorobenzene	5 U	5 U				
1,2-Dichloroethane	5 U	5 U				
1,2-Dichloropropane	5 U	5 U				
1,4-Dichlorobenzene	5 U	5 U				
2-Butanone	10 U	10 U				
2-Hexanone	10 U	10 U				
4-Methyl-2-Pentanone	10 U	10 U				
Acetone	10 UJ	10 UJ				
Acrylonitrile	10 U	10 U				
Benzene	5 U	5 U				
Bromochloromethane	5 U	5 U				
Bromodichloromethane	5 U	5 U				
Bromoform	5 U	5 U				
Bromomethane	5 U	5 U				
Carbon Disulfide	5 U	5 U				
Carbon Tetrachloride	5 U	5 U				
Chlorobenzene	5 U	5 U				
Chloroethane	5 U	5 U				
Chloroform	5 U	5 U				
Chloromethane	5 U	5 U				
cis-1,2-Dichloroethylene	5 U	5 U				
cis-1,3-Dichloropropene	5 U	5 U				
Dibromochloromethane	5 U	5 U				
Dibromomethane	5 U	5 U				
Ethylbenzene	5 U	5 U				
Iodomethane	10 UJ	10 UJ				
Methylene Chloride	5 U	5 U				
Styrene	5 U	5 U				
Tetrachloroethene	5 U	5 U				
Toluene	5 U	5 U				
trans-1,2-Dichloroethylene	5 U	5 U				
trans-1,3-Dichloropropene	5 U	5 U				
trans-1,4-Dichloro-2-Butene	10 U	10 U				
Trichloroethene	5 U	5 U				
Trichlorofluoromethane	5 U	5 U				
Vinyl Acetate	5 U	5 U				
Vinyl Chloride	5 U	5 U				
Xylene (total)mp	5 U	5 U				
Xylene (total)o	5 U	5 U				

NOTES:

Blank cells indicate sample was not analyzed for this parameter

Concentrations in ug/L unless otherwise noted

U = Compound not detected; detection limit shown

B = Analyte detected in laboratory blank

* = LCS, LCSD, MS or MSD exceeds the control limit

J = Estimated concentration less than detection limit

Table 5
Summary of the Analytical Results at the Phase II Cells A and B Secondary Leachate
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	CELL A 6/19/2006	CELL B 6/19/2006	CELL A 9/21/2006	CELL B 9/21/2006	CELL A 12/14/2006	CELL B 12/14/2006
Inorganic Parameters						
Aluminum	92 U	92 U				
Antimony	5.4 U	5.4 U				
Arsenic	14.5 B	5.5 B				
Barium	159	167				
Beryllium	0.54 U	0.54 U				
Boron	27 U	27 U				
Cadmium	1.1 U	1.1 U	0.76 U	0.76 U	3.8 U	3.8 U
Calcium	149000	171000	154000	172000	149000	170000
Chromium	1.3 U	1.3 U				
Cobalt	3.6 B	5.2 B				
Copper	254	8 B				
Iron	6820	1650	8880	966	17700	1670
Lead	13.8	10.1	82.4	3 U	15 U	15 U
Magnesium	36900	59100	27800	44400	30100	42000
Manganese	2420	2670	2200	1740	2160	3320
Mercury	0.07 U	0.07 U				
Nickel	20.3	8.4 B				
Potassium	942	1330	1100	1360	750 U	1060 B
Selenium	5 UJ	5 UJ				
Silver	1.1 U	1.1 U				
Sodium	23800	36500	20700	31000	21500	27400
Thallium	10 UJ	10 UJ				
Vanadium	1.5 U	1.5 U				
Zinc	41.9 B	11 U				
Leachate Indicator Parameters						
Alkalinity	750000	625000	495000	566000	506000	615000
Ammonia	350	220	150	130	15 B	110
Biochemical Oxygen Demand	2300	630 B	3200	1700 B	780 B	1100 B
Bromide	99 B	77 B	100 U	100 U	50 B	63 B
Chemical Oxygen Demand	10000 U	4350 B	10000 U	10000 U	9930 B	3760 B
Chloride	6840	7150	3570	3840	3840	4180
Color (units)	75	40				
Cyanide	10 UJ	10 UJ				
Hardness as CaCO3 (mg/L)	524	670	499	612	496	599
Hexavalent Chromium	10 U	10 U				
Nitrate	100 U	100 U	100 U	34 B	31 B	100 U
Phenols	5 U	5 U	5 U	5 U	4 B	5 U
Sulfate	66200	109000	21400	3920000	35400	79000
Total Dissolved Solids	790000	720000	520000	630000	500000	670000
Total Kjeldahl Nitrogen	997	770	264	243	94 B	100 U
Total Organic Carbon	3200	4200	9200	8200	5000	4400
Field Parameters						
Temperature (celsius)	20	20	20	20	19.7	19
pH (su)	6.99	6.71	7.06	7.05	7.06	7.06
Specific Conductance (uS)	1289	1196	842	1056	841	1094
Eh (mv)	55	-23	40	-10	-62	-35
Turbidity (VISUAL/ntu)	LOW	LOW	LOW	LOW	LOW	LOW

NOTES:

*CELL A was not sampled during Q3 2013 due to mechanical malfunction.

Blank cells indicate sample was not analyzed for this parameter

Concentrations in ug/L unless otherwise noted

NA = Not applicable

NS = Not sampled

NM = Not measured (analyzed)

U = Analyte not detected; detection limit shown

H = Sample was prepped or analyzed outside of holding time

B = Analyte detected less than CRDL

CRDL =Contract required detection limit

E = Estimated by laboratory

J = Estimated by data validator

N = Spiked sample recovery not within control limits

R = Result rejected due to poor matrix spike recovery

Table 5
Summary of the Analytical Results at the Phase II Cells A and B Secondary Leachate
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	CELL A 3/28/2007	CELL B 3/28/2007	CELL A 7/5/2007	CELL B 7/5/2007	CELL A 9/27/2007	CELL B 9/27/2007
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane					5 U	5 U
1,1,1-Trichloroethane					5 U	5 U*
1,1,2,2-Tetrachloroethane					5 U	5 U
1,1,2-Trichloroethane					5 U	5 U
1,1-Dichloroethane					5 U	5 U
1,1-Dichloroethene					5 U	5 U
1,2,3-Trichloropropane					5 U	5 U
1,2-Dibromo-3-Chloropropane					5 U	5 U
1,2-Dibromoethane					5 U	5 U
1,2-Dichlorobenzene					5 U	5 U
1,2-Dichloroethane					5 U	5 U
1,2-Dichloropropane					5 U	5 U
1,4-Dichlorobenzene					5 U	5 U
2-Butanone					10 U	10 U
2-Hexanone					10 U	10 U
4-Methyl-2-Pentanone					10 U	10 U
Acetone					10 U	10 U
Acrylonitrile					10 U	10 U
Benzene					0.76 J	0.35 J
Bromochloromethane					5 U	5 U
Bromodichloromethane					5 U	5 U
Bromoform					5 U	5 U
Bromomethane					5 U	5 U
Carbon Disulfide					5 U	5 U
Carbon Tetrachloride					5 U	5 U
Chlorobenzene					5 U	5 U
Chloroethane					5 U	5 U
Chloroform					5 U	5 U
Chloromethane					5 U	5 U
cis-1,2-Dichloroethylene					0.54 J	5 U
cis-1,3-Dichloropropene					5 U	5 U
Dibromochloromethane					5 U	5 U
Dibromomethane					5 U	5 U
Ethylbenzene					5 U	5 U
Iodomethane					10 UJ	10 UJ*
Methylene Chloride					5 U*	5 U*
Styrene					5 U	5 U
Tetrachloroethene					5 U	5 U
Toluene					5 U	5 U
trans-1,2-Dichloroethylene					5 U	5 U
trans-1,3-Dichloropropene					5 U	5 U
trans-1,4-Dichloro-2-Butene					10 U	10 U
Trichloroethene					5 U	5 U
Trichlorofluoromethane					5 UJ*	5 UJ*
Vinyl Acetate					5 U	5 U
Vinyl Chloride					5 U	5 U
Xylene (total)mp					5 U	5 U
Xylene (total)o					5 U	5 U

NOTES:

Blank cells indicate sample was not analyzed for this parameter

Concentrations in ug/L unless otherwise noted

U = Compound not detected; detection limit shown

B = Analyte detected in laboratory blank

* = LCS, LCSD, MS or MSD exceeds the control limit

J = Estimated concentration less than detection limit

Table 5
Summary of the Analytical Results at the Phase II Cells A and B Secondary Leachate
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	CELL A 3/28/2007	CELL B 3/28/2007	CELL A 7/5/2007	CELL B 7/5/2007	CELL A 9/27/2007	CELL B 9/27/2007
Inorganic Parameters						
Aluminum					84 U	84 U
Antimony					6 U	6 U
Arsenic					10 J	5.4 U
Barium					110	190
Beryllium					0.6 U	0.6 U
Boron					27 U	27 U
Cadmium	0.76 U	0.76 U	1.1 U	1.1 U	1.1 U	1.1 U
Calcium	143000	176000	127000	160000	110000	149000
Chromium					1.9 U	1.9 U
Cobalt					2.1 U	2.9 J
Copper					22	110
Iron	3300	430	7000	680	6700	870
Lead	12	3 U	12	4.9 U	37	33 U
Magnesium	27700	47600	22400	40900	18900	33700
Manganese	2000	1300	1700	1900	1600	1800
Mercury					0.1 U	0.1 U
Nickel					760	300
Potassium	850	1200	810	1200	600	1400
Selenium					9.8 UJ	9.8 UJ*
Silver					1.3 U	1.3 U
Sodium	23100	37800	22800	36900	19100 J	32200 J
Thallium					8.1 U	8.6 J
Vanadium					1 U	1 U
Zinc					63	12 U
Leachate Indicator Parameters						
Alkalinity	469000	618000	424000	576000	404000	596000
Ammonia	59	160	200	77	22 J	62 J
Biochemical Oxygen Demand	4000 U	2000 U	1600 J	1600 J	960 JN	1100 JN
Bromide	54 J	72 J	53 J	66 J	110	29 J
Chemical Oxygen Demand	10000 U	7000 J	41200	12000 J	8000 J	9000 J
Chloride	4400	5600	3300	3500	3100	3400
Color (units)					150	20
Cyanide					10 U	10 U
Hardness as CaCO3 (mg/L)	471	635	409	568	353	511
Hexavalent Chromium					10 U	10 U
Nitrate	100 U	46 J	100 U	100 U	100 U	28 J
Phenols	7.9	5 U	5 J	5 U	7.5	3.6 J
Sulfate	48300	113000	20700	75600	13100	58800
Total Dissolved Solids	533000	775000	424000 H	648000 H	396000 H	623000 H
Total Kjeldahl Nitrogen	360 J	210 J	220 J	500 U	340 J	400 J
Total Organic Carbon	1700	1300	1200	970 J	2600	880 J
Field Parameters						
Temperature (celsius)	18	17	20.8	20	21.8	21.4
pH (su)	7.06	7.07	7.08	7.06	7.06	7.07
Specific Conductance (uS)	776	1104	754	1009	704	955
Eh (mv)	-87	-49	-54	-42	10	-5
Turbidity (VISUAL/ntu)	LOW	HIGH	LOW	LOW	LOW	LOW

NOTES:

*CELL A was not sampled during Q3 2013 due to mechanical malfunction.

Blank cells indicate sample was not analyzed for this parameter

Concentrations in ug/L unless otherwise noted

NA = Not applicable

NS = Not sampled

NM = Not measured (analyzed)

U = Analyte not detected; detection limit shown

H = Sample was prepped or analyzed outside of holding time

B = Analyte detected less than CRDL

CRDL =Contract required detection limit

E = Estimated by laboratory

J = Estimated by data validator

N = Spiked sample recovery not within control limits

R = Result rejected due to poor matrix spike recovery

Table 5
Summary of the Analytical Results at the Phase II Cells A and B Secondary Leachate
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	CELL A 12/18/2007	CELL B 12/18/2007	CELL A 3/31/2008	CELL B 3/31/2008	CELL A 7/1/2008	CELL B 7/1/2008
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane						
1,1,1-Trichloroethane						
1,1,2,2-Tetrachloroethane						
1,1,2-Trichloroethane						
1,1-Dichloroethane						
1,1-Dichloroethene						
1,2,3-Trichloropropane						
1,2-Dibromo-3-Chloropropane						
1,2-Dibromoethane						
1,2-Dichlorobenzene						
1,2-Dichloroethane						
1,2-Dichloropropane						
1,4-Dichlorobenzene						
2-Butanone						
2-Hexanone						
4-Methyl-2-Pentanone						
Acetone						
Acrylonitrile						
Benzene						
Bromochloromethane						
Bromodichloromethane						
Bromoform						
Bromomethane						
Carbon Disulfide						
Carbon Tetrachloride						
Chlorobenzene						
Chloroethane						
Chloroform						
Chloromethane						
cis-1,2-Dichloroethylene						
cis-1,3-Dichloropropene						
Dibromochloromethane						
Dibromomethane						
Ethylbenzene						
Iodomethane						
Methylene Chloride						
Styrene						
Tetrachloroethene						
Toluene						
trans-1,2-Dichloroethylene						
trans-1,3-Dichloropropene						
trans-1,4-Dichloro-2-Butene						
Trichloroethene						
Trichlorofluoromethane						
Vinyl Acetate						
Vinyl Chloride						
Xylene (total)mp						
Xylene (total)o						

NOTES:

Blank cells indicate sample was not analyzed for this parameter

Concentrations in ug/L unless otherwise noted

U = Compound not detected; detection limit shown

B = Analyte detected in laboratory blank

* = LCS, LCSD, MS or MSD exceeds the control limit

J = Estimated concentration less than detection limit

Table 5
Summary of the Analytical Results at the Phase II Cells A and B Secondary Leachate
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	CELL A 12/18/2007	CELL B 12/18/2007	CELL A 3/31/2008	CELL B 3/31/2008	CELL A 7/1/2008	CELL B 7/1/2008
Inorganic Parameters						
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Boron						
Cadmium	1.1 U	1.1 U	1.1 U	1.1 U	2.8 U	2.8 U
Calcium	114000	165000	129000	174000	110000	158000
Chromium						
Cobalt						
Copper						
Iron	180	780	1400	530	7700	320
Lead	41	4.9 U	4.9 U	4.9 U	39	3 J
Magnesium	18800	45300	28400	46200	21500	39000
Manganese	1500	2000	2000	2900	1500	1000
Mercury						
Nickel						
Potassium	670	1300	9.9	1200	1200	1600
Selenium						
Silver						
Sodium	21100	46600	27400	43300	26200	47300
Thallium						
Vanadium						
Zinc						
Leachate Indicator Parameters						
Alkalinity	408000	605000	451000	610000	412000	580000
Ammonia	390	76 J	620	460	110	88 J
Biochemical Oxygen Demand	6900	870 J	1500 J	3100	4100	1800 J
Bromide	100 U	100 U	35 J	58 J	65 J	79 J
Chemical Oxygen Demand	25200	2200 J	2900 J	10000 U	20200	5600 J
Chloride	2100	4100	4900	5500	3500	4300
Color (units)						
Cyanide						
Hardness as CaCO3 (mg/L)	362	599	439	625	363	555
Hexavalent Chromium						
Nitrate	100 U	100 U	13 J	13 J	100 U	100 U
Phenols	5.7	5 U	3.9 J	5 U	5.6	5 U
Sulfate	17300	96900	56600	105000	29300	86000
Total Dissolved Solids	419000	720000	520000	726000	436000	679000
Total Kjeldahl Nitrogen	410 J	93 J	500 U	500 U	560	210 J
Total Organic Carbon	1600	1500	860 J	1100	1400	1600
Field Parameters						
Temperature (celsius)	21.3	20.7	17.2	16.1	22.1	23.6
pH (su)	7.08	7.07	7.11	7.07	7.07	7.04
Specific Conductance (uS)	744	968	634	961	687	959
Eh (mv)	15	-11	-88	-92	-117	-144
Turbidity (VISUAL/ntu)	LOW	LOW	LOW	LOW	LOW	LOW

NOTES:

*CELL A was not sampled during Q3 2013 due to mechanical malfunction.

Blank cells indicate sample was not analyzed for this parameter

Concentrations in ug/L unless otherwise noted

NA = Not applicable

NS = Not sampled

NM = Not measured (analyzed)

U = Analyte not detected; detection limit shown

H = Sample was prepped or analyzed outside of holding time

B = Analyte detected less than CRDL

CRDL =Contract required detection limit

E = Estimated by laboratory

J = Estimated by data validator

N = Spiked sample recovery not within control limits

R = Result rejected due to poor matrix spike recovery

Table 5
Summary of the Analytical Results at the Phase II Cells A and B Secondary Leachate
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	CELL A 10/8/2008	CELL B 10/8/2008	CELL A 12/29/2008	CELL B 12/29/2008	CELL A 3/31/2009	CELL B 3/31/2009
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane			5 U	5 U		
1,1,1-Trichloroethane			5 U	5 U		
1,1,2,2-Tetrachloroethane			5 U	5 U		
1,1,2-Trichloroethane			5 U	5 U		
1,1-Dichloroethane			5 U	5 U		
1,1-Dichloroethene			5 U	5 U		
1,2,3-Trichloropropane			5 U	5 U		
1,2-Dibromo-3-Chloropropane			5 U	5 U		
1,2-Dibromoethane			5 U	5 U		
1,2-Dichlorobenzene			5 U	5 U		
1,2-Dichloroethane			5 U	5 U		
1,2-Dichloropropane			5 U	5 U		
1,4-Dichlorobenzene			5 U	5 U		
2-Butanone			10 U	10 U		
2-Hexanone			10 U	10 U		
4-Methyl-2-Pentanone			10 U	10 U		
Acetone			1.1 J	10 U		
Acrylonitrile			10 U	10 U		
Benzene			5 U	5 U		
Bromochloromethane			5 U	5 U		
Bromodichloromethane			5 U	5 U		
Bromoform			5 U	5 U		
Bromomethane			5 U	5 U		
Carbon Disulfide			5 U	5 U		
Carbon Tetrachloride			5 U	5 U		
Chlorobenzene			5 U	5 U		
Chloroethane			5 U	5 U		
Chloroform			5 U	5 U		
Chloromethane			5 U*	5 U*		
cis-1,2-Dichloroethylene			5 U	5 U		
cis-1,3-Dichloropropene			5 U	5 U		
Dibromochloromethane			5 U	5 U		
Dibromomethane			5 U	5 U		
Ethylbenzene			5 U	5 U		
Iodomethane			10 U *	10 U *		
Methylene Chloride			5 U	5 U		
Styrene			5 U	5 U		
Tetrachloroethene			5 U	5 U		
Toluene			5 U	5 U		
trans-1,2-Dichloroethylene			5 U	5 U		
trans-1,3-Dichloropropene			5 U	5 U		
trans-1,4-Dichloro-2-Butene			10 U	10 U		
Trichloroethene			5 U	5 U		
Trichlorofluoromethane			5 U	5 U		
Vinyl Acetate			5 U	5 U		
Vinyl Chloride			5 U	5 U		
Xylene (total)mp			5 U	5 U		
Xylene (total)o			5 U	5 U		

NOTES:

Blank cells indicate sample was not analyzed for this parameter

Concentrations in ug/L unless otherwise noted

U = Compound not detected; detection limit shown

B = Analyte detected in laboratory blank

* = LCS, LCSD, MS or MSD exceeds the control limit

J = Estimated concentration less than detection limit

Table 5
Summary of the Analytical Results at the Phase II Cells A and B Secondary Leachate
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	CELL A 10/8/2008	CELL B 10/8/2008	CELL A 12/29/2008	CELL B 12/29/2008	CELL A 3/31/2009	CELL B 3/31/2009
Inorganic Parameters						
Aluminum			500 U	500 U		
Antimony			40 U	40 U		
Arsenic			20 U	20 U		
Barium			150	180		
Beryllium			10 U	10 U		
Boron			19 J	21 J		
Cadmium	2.8 U	2.8 U	10 U	10 U	1 U	1 U
Calcium	104000	139000	125000	162000	126000	158000
Chromium			10 U	10 U		
Cobalt			10 U	10 U		
Copper			9.8 J	3.7 J		
Iron	2800	700	590	320	2600	200
Lead	3 U	3 U	3.2 J	10 U	23	14
Magnesium	19100	27100	24600	39000	26900	41500
Manganese	1400	1600	100	1100	130	890
Mercury			0.2 U	0.2 U		
Nickel			11	2.7 J		
Potassium	1100	1300	1200	1500	1300	1600
Selenium			30 U	30 U		
Silver			10 U	10 U		
Sodium	30700	38100	31400	49100	37400	63300
Thallium			30 U	30 U		
Vanadium			10 U	10 U		
Zinc			30 J	9.9 J		
Leachate Indicator Parameters						
Alkalinity	379000	539000	430000	596000	483000	612000
Ammonia	240	68 J	100	50 J	42 J	57 J
Biochemical Oxygen Demand	840 J	2000 U	1200 J	3800	1500 J	2000 U
Bromide	30 J	60 J	22 J	54 J	52 J	73 J
Chemical Oxygen Demand	5200 J	2900 J	20800	6000 J	24000	6800 J
Chloride	2700	3300	10400	4700	7700	5400
Color (units)			10	10		
Cyanide			10 U	10 UJ		
Hardness as CaCO3 (mg/L)	338	555	413	565	241	259
Hexavalent Chromium			10 U	10 U		
Nitrate	100 U	100 U	830	100 U	390	100 U
Phenols	5 U	5 U	7.9	6.4	4 J	2.6 J
Sulfate	16600	60500	75200	90100	34000	101000
Total Dissolved Solids	406000	625000	454000	710000	538000	754000
Total Kjeldahl Nitrogen	450 J	500 U	440 J	150 J	380 J	500 U
Total Organic Carbon	1000	660 J	1400	1400	1400	630 J
Field Parameters						
Temperature (celsius)	22.7	21.8	21.4	20.5	22	22
pH (su)	6.49	6.59	7	7	7.19	7.22
Specific Conductance (uS)	785	1136	915	1217	978	1267
Eh (mv)	-9	33	100	61	-27	48
Turbidity (VISUAL/ntu)	LOW	LOW	LOW	LOW	10	9

NOTES:

*CELL A was not sampled during Q3 2013 due to mechanical malfunction.

Blank cells indicate sample was not analyzed for this parameter

Concentrations in ug/L unless otherwise noted

NA = Not applicable

NS = Not sampled

NM = Not measured (analyzed)

U = Analyte not detected; detection limit shown

H = Sample was prepped or analyzed outside of holding time

B = Analyte detected less than CRDL

CRDL =Contract required detection limit

E = Estimated by laboratory

J = Estimated by data validator

N = Spiked sample recovery not within control limits

R = Result rejected due to poor matrix spike recovery

Table 5
Summary of the Analytical Results at the Phase II Cells A and B Secondary Leachate
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	CELL A 6/24/2009	CELL B 6/24/2009	CELL A 10/5/2009	CELL B 10/5/2009	CELL A 12/17/2009	CELL B 12/17/2009
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	5.0 U	5.0 U				
1,1,1-Trichloroethane	5.0 U	5.0 U				
1,1,2,2-Tetrachloroethane	5.0 U	5.0 U				
1,1,2-Trichloroethane	5.0 U	5.0 U				
1,1-Dichloroethane	5.0 U	5.0 U				
1,1-Dichloroethene	5.0 U	5.0 U				
1,2,3-Trichloropropane	5.0 U	5.0 U				
1,2-Dibromo-3-Chloropropane	5.0 U	5.0 U				
1,2-Dibromoethane	5.0 U	5.0 U				
1,2-Dichlorobenzene	5.0 U	5.0 U				
1,2-Dichloroethane	5.0 U	5.0 U				
1,2-Dichloropropane	5.0 U	5.0 U				
1,4-Dichlorobenzene	5.0 U	5.0 U				
2-Butanone	10 U	10 U				
2-Hexanone	10 U	10 U				
4-Methyl-2-Pentanone	10 U	10 U				
Acetone	10 U	3.2 UJ				
Acrylonitrile	10 U	10 U				
Benzene	5.0 U	5.0 U				
Bromochloromethane	5.0 U	5.0 U				
Bromodichloromethane	5.0 U	5.0 U				
Bromoform	5.0 U	5.0 U				
Bromomethane	5.0 U	5.0 U				
Carbon Disulfide	5.0 U	5.0 U				
Carbon Tetrachloride	5.0 U	5.0 U				
Chlorobenzene	5.0 U	5.0 U				
Chloroethane	5.0 U*	5.0 U*				
Chloroform	5.0 U	5.0 U				
Chloromethane	5.0 U	5.0 U				
cis-1,2-Dichloroethylene	5.0 U	5.0 U				
cis-1,3-Dichloropropene	5.0 U	5.0 U				
Dibromochloromethane	5.0 U	5.0 U				
Dibromomethane	5.0 U	5.0 U				
Ethylbenzene	5.0 U	5.0 U				
Iodomethane	10 U	10 U				
Methylene Chloride	5.0 U	5.0 U				
Styrene	5.0 U	5.0 U				
Tetrachloroethene	5.0 U	5.0 U				
Toluene	5.0 U	0.92 J				
trans-1,2-Dichloroethylene	5.0 U	5.0 U				
trans-1,3-Dichloropropene	5.0 U	5.0 U				
trans-1,4-Dichloro-2-Butene	10 U*	10 U*				
Trichloroethene	5.0 U	5.0 U				
Trichlorofluoromethane	5.0 U	5.0 U				
Vinyl Acetate	5.0 U	5.0 U				
Vinyl Chloride	5.0 U	5.0 U				
Xylene (total)mp	5.0 U	5.0 U				
Xylene (total)o	5.0 U	5.0 U				

NOTES:

Blank cells indicate sample was not analyzed for this parameter

Concentrations in ug/L unless otherwise noted

U = Compound not detected; detection limit shown

B = Analyte detected in laboratory blank

* = LCS, LCSD, MS or MSD exceeds the control limit

J = Estimated concentration less than detection limit

Table 5
Summary of the Analytical Results at the Phase II Cells A and B Secondary Leachate
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	CELL A 6/24/2009	CELL B 6/24/2009	CELL A 10/5/2009	CELL B 10/5/2009	CELL A 12/17/2009	CELL B 12/17/2009
Inorganic Parameters						
Aluminum	39.8 J	250 U				
Antimony	15 U	15 U				
Arsenic	5.8 J	15 U				
Barium	169	170				
Beryllium	5 U	5 U				
Boron	24	14 J				
Cadmium	5 U	5 U	1 U	1 U	1 U	1 U
Calcium	127000	154000	123000	151000	123000	156000
Chromium	5 U	5 U				
Cobalt	5 U	0.7 J				
Copper	7.3 J	14.3				
Iron	2210	78 J	1210	406	1520	359
Lead	15 U	15 U	3.2	2.5 U	2.5 U	2.5 U
Magnesium	28100	38000	27500	50500	26100	44700
Manganese	41.9	657	31.2	1330	26.8	1240
Mercury	0.2 U	0.2 U				
Nickel	15.3	16.5 J				
Potassium	1250	1430	1790	1750	1440	1880
Selenium	38 U	38 U				
Silver	5 U	5 U				
Sodium	46000	65100	43100	82400	43300	75200
Thallium	15 U	15 U				
Vanadium	1.1 J	5 U				
Zinc	28	16.6 J				
Leachate Indicator Parameters						
Alkalinity	460000	548000	559000	616000	439000	625000
Ammonia	34 J	39 J	100 U	69 J	76 J	97 J
Biochemical Oxygen Demand	1300 J N	2000 U N	8700	2100	1600 J	3200
Bromide	80 J	59 J	95 J	140	57 J	98 J
Chemical Oxygen Demand	10000 U	6300 J	26600	6800 J	10000 U	5500 J
Chloride	6600	4600	5000	13900	4300	10100
Color (units)	75 J	5				
Cyanide	10000 U	10000 U				
Hardness as CaCO3 (mg/L)	433	541	419	586	413	572
Hexavalent Chromium	2.8 J	10 U				
Nitrate	2100	450	28 J	24 J	1200	23 J
Phenols	22	4.1 J	5.4	2.7 J	5 U	5 U
Sulfate	87900	106000	19500	139000	67900	135000
Total Dissolved Solids	519000	690000	573000 H	790000 H	517000	811000
Total Kjeldahl Nitrogen	110 J	500 U	710	180 J	500 U	200 J
Total Organic Carbon	150 J	1000 U	1100	2300	990 J	2800
Field Parameters						
Temperature (celsius)	24.7	24.5	24.6	24.6	23	20.8
pH (su)	7.68	7.61	7	6.68	7.04	7.05
Specific Conductance (uS)	1034	1220	853	1363	722	979
Eh (mv)	65	57	-124	-62	85	25
Turbidity (VISUAL/ntu)	10	11	10	11	11	21

NOTES:

*CELL A was not sampled during Q3 2013 due to mechanical malfunction.

Blank cells indicate sample was not analyzed for this parameter

Concentrations in ug/L unless otherwise noted

NA = Not applicable

NS = Not sampled

NM = Not measured (analyzed)

U = Analyte not detected; detection limit shown

H = Sample was prepped or analyzed outside of holding time

B = Analyte detected less than CRDL

CRDL =Contract required detection limit

E = Estimated by laboratory

J = Estimated by data validator

N = Spiked sample recovery not within control limits

R = Result rejected due to poor matrix spike recovery

Table 5
Summary of the Analytical Results at the Phase II Cells A and B Secondary Leachate
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	CELL A 3/25/2010	CELL B 3/25/2010	CELL A 6/29/2010	CELL B 6/29/2010	CELL A 9/29/2010	CELL B 9/29/2010
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane					5.0 U	5.0 U
1,1,1-Trichloroethane					5.0 U	5.0 U
1,1,2,2-Tetrachloroethane					5.0 U	5.0 U
1,1,2-Trichloroethane					5.0 U	5.0 U
1,1-Dichloroethane					5.0 U	5.0 U
1,1-Dichloroethene					5.0 U	5.0 U
1,2,3-Trichloropropane					5.0 U	5.0 U
1,2-Dibromo-3-Chloropropane					5.0 U	5.0 U
1,2-Dibromoethane					5.0 U	5.0 U
1,2-Dichlorobenzene					5.0 U	5.0 U
1,2-Dichloroethane					5.0 U	5.0 U
1,2-Dichloropropane					5.0 U	5.0 U
1,4-Dichlorobenzene					5.0 U	5.0 U
2-Butanone					10 U	10 U
2-Hexanone					10 U	10 U
4-Methyl-2-Pentanone					10 U	10 U
Acetone					1.6 J	1.3 J
Acrylonitrile					10 U	10 U
Benzene					5.0 U	5.0 U
Bromochloromethane					5.0 U	5.0 U
Bromodichloromethane					5.0 U	5.0 U
Bromoform					5.0 U	5.0 U
Bromomethane					5.0 U	5.0 U
Carbon Disulfide					5.0 U	5.0 U
Carbon Tetrachloride					5.0 U	5.0 U
Chlorobenzene					5.0 U	5.0 U
Chloroethane					5.0 U	5.0 U
Chloroform					5.0 U	5.0 U
Chloromethane					5.0 U	5.0 U
cis-1,2-Dichloroethylene					5.0 U	5.0 U
cis-1,3-Dichloropropene					5.0 U	5.0 U
Dibromochloromethane					5.0 U	5.0 U
Dibromomethane					5.0 U	5.0 U
Ethylbenzene					5.0 U	5.0 U
Iodomethane					10 U	10 U
Methylene Chloride					5.0 U	5.0 U
Styrene					5.0 U	5.0 U
Tetrachloroethene					5.0 U	5.0 U
Toluene					5.0 U	5.0 U
trans-1,2-Dichloroethylene					5.0 U	5.0 U
trans-1,3-Dichloropropene					5.0 U	5.0 U
trans-1,4-Dichloro-2-Butene					10 U	10 U
Trichloroethene					5.0 U	5.0 U
Trichlorofluoromethane					5.0 U	5.0 U
Vinyl Acetate					5.0 U	5.0 U
Vinyl Chloride					5.0 U	5.0 U
Xylene (total)mp					5.0 U	5.0 U
Xylene (total)o					5.0 U	5.0 U

NOTES:

Blank cells indicate sample was not analyzed for this parameter

Concentrations in ug/L unless otherwise noted

U = Compound not detected; detection limit shown

B = Analyte detected in laboratory blank

* = LCS, LCSD, MS or MSD exceeds the control limit

J = Estimated concentration less than detection limit

Table 5
Summary of the Analytical Results at the Phase II Cells A and B Secondary Leachate
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	CELL A 3/25/2010	CELL B 3/25/2010	CELL A 6/29/2010	CELL B 6/29/2010	CELL A 9/29/2010	CELL B 9/29/2010
Inorganic Parameters						
Aluminum					250 U	250 U
Antimony					15 U	15 U
Arsenic					15 U	4.9 J
Barium					112	138
Beryllium					5 U	5 U
Boron					28.3 J	33.9 J
Cadmium	1 U	1 U	1 U	1 U	5 U	5 U
Calcium	118000	140000	112000	141000	113000	138000
Chromium					5 U	5 U
Cobalt					5 U	1.4 J
Copper					5.9 J	15.7
Iron	515	389	1130	461	84.6 J	609
Lead	2.5 U	2.5 U	2.5 U	2.5 U	15 U	15 U
Magnesium	26000	41900	23700	40700	23800	39100
Manganese	37.7	1730	1950	2210	1790	2410
Mercury					0.2 U	0.2 U
Nickel					18.6	4.6 J
Potassium	1380	1720	1360	1590	1320	1470
Selenium					38 UR	38 UR
Silver					5 U	5 U
Sodium	42800	73200	64100	80000	63800	86000
Thallium					15 U	15 U
Vanadium					2.7 J	3.1 J
Zinc					5.8 J	13.9 J
Leachate Indicator Parameters						
Alkalinity	416000	587000	434000	625000	474000	603000
Ammonia	150	63 J	160	140	190	83 J
Biochemical Oxygen Demand	3600	2000 U	1200 J	750 J	1200 J N	2000 U N
Bromide	73 J	100 U	73 J	98 J	97 J	100 U
Chemical Oxygen Demand	28100	9700 J	21100	10000 U	34600	10000 U
Chloride	3200	5300	2400	5400	5600	6300
Color (units)					5	5
Cyanide					10000 UR	10000 UR
Hardness as CaCO3 (mg/L)	402	522	377	520	380	504
Hexavalent Chromium					10 U	10 U
Nitrate	21 J	21 J	100 U	100 U	100 U	100 U
Phenols	3.4 J	5 U	3.6 J	2.5 J	5 U	5 U
Sulfate	26700	97400	32500	185000	46400	86500
Total Dissolved Solids	531000	720000	517000	732000	522000	680000
Total Kjeldahl Nitrogen	800	140 J	730	71 J	690	120 J
Total Organic Carbon	1400	1400	2200	1700	2000	1600
Field Parameters						
Temperature (celsius)	22.6	22.3	24.8	25	25	25.5
pH (su)	7.05	7.06	7.04	7.08	7.03	7.07
Specific Conductance (uS)	554	875	667	832	650	799
Eh (mv)	55	30	60	16	-44	-161
Turbidity (VISUAL/ntu)	15	11	11	10	11	10

NOTES:

*CELL A was not sampled during Q3 2013 due to mechanical malfunction.

Blank cells indicate sample was not analyzed for this parameter

Concentrations in ug/L unless otherwise noted

NA = Not applicable

NS = Not sampled

NM = Not measured (analyzed)

U = Analyte not detected; detection limit shown

H = Sample was prepped or analyzed outside of holding time

B = Analyte detected less than CRDL

CRDL =Contract required detection limit

E = Estimated by laboratory

J = Estimated by data validator

N = Spiked sample recovery not within control limits

R = Result rejected due to poor matrix spike recovery

Table 5
Summary of the Analytical Results at the Phase II Cells A and B Secondary Leachate
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	CELL A 12/13/2010	CELL B 12/13/2010	CELL A 6/30/2011	CELL B 6/30/2011	CELL A 8/31/2011	CELL B 8/31/2011
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane			5 U	5 U		25 U
1,1,1-Trichloroethane			5 U	5 U		25 U
1,1,2,2-Tetrachloroethane			5 U	5 U		25 U
1,1,2-Trichloroethane			5 U	5 U		25 U
1,1-Dichloroethane			5 U	5 U		25 U
1,1-Dichloroethene			5 U	5 U		25 U
1,2,3-Trichloropropane			5 U	5 U		25 U
1,2-Dibromo-3-Chloropropane			5 U	5 U		25 U
1,2-Dibromoethane			5 U	5 U		25 U
1,2-Dichlorobenzene			5 U	5 U		25 U
1,2-Dichloroethane			5 U	5 U		25 U
1,2-Dichloropropane			5 U	5 U		25 U
1,4-Dichlorobenzene			5 U	5 U		8.6 J
2-Butanone			10 U	10 U		620
2-Hexanone			10 U	1.5 J		50 U
4-Methyl-2-Pentanone			10 U	10 U		33 J
Acetone			10 U	5 U		390
Acrylonitrile			10 U	5 U		50 U
Benzene			5 U	5 U		7.3 J
Bromochloromethane			5 U	5 U		25 U
Bromodichloromethane			5 U	5 U		25 U
Bromoform			5 U	5 U		25 U
Bromomethane			5 U	5 U		25 U
Carbon Disulfide			5 U	5 U		25 U
Carbon Tetrachloride			5 U	5 U		25 U
Chlorobenzene			5 U	5 U		25 U
Chloroethane			5 U	5 U		25 U
Chloroform			5 U	5 U		25 U
Chloromethane			5 U	5 U		25 U
cis-1,2-Dichloroethylene			5 U	5 U		25 U
cis-1,3-Dichloropropene			5 U	5 U		25 U
Dibromochloromethane			5 U	5 U		25 U
Dibromomethane			5 U	10 U		25 U
Ethylbenzene			5 U	5 U		16 J
Iodomethane			10 U	10 U		50 U
Methylene Chloride			5 U	10 U		7.2 J B
Styrene			5 U	5 U		25 U
Tetrachloroethene			5 U	5 U		25 U
Toluene			5 U	5 U		12 J
trans-1,2-Dichloroethylene			5 U	5 U		25 U
trans-1,3-Dichloropropene			5 U	5 U		25 U
trans-1,4-Dichloro-2-Butene			10 U	5 U		50 U
Trichloroethene			5 U	5 U		25 U
Trichlorofluoromethane			5 U	10 U		25 U
Vinyl Acetate			5 U *	5 U		25 U *
Vinyl Chloride			5 U	5 U		25 U
Xylene (total)mp			5 U	5 U *		15 J
Xylene (total)o			5 U	5 U		8.2 J

NOTES:

Blank cells indicate sample was not analyzed for this parameter

Concentrations in ug/L unless otherwise noted

U = Compound not detected; detection limit shown

B = Analyte detected in laboratory blank

* = LCS, LCSD, MS or MSD exceeds the control limit

J = Estimated concentration less than detection limit

Table 5
Summary of the Analytical Results at the Phase II Cells A and B Secondary Leachate
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	CELL A 12/13/2010	CELL B 12/13/2010	CELL A 6/30/2011	CELL B 6/30/2011	CELL A 8/31/2011	CELL B 8/31/2011
Inorganic Parameters						
Aluminum			32.2 J	250 U		
Antimony			15 U	15 U		
Arsenic			15 U	15 U		
Barium			116	147		
Beryllium			5 U	5 U		
Boron			37.9 J ^	45.7 J ^		
Cadmium	1 U	1 U	5 U	5 U	1 U	1.2
Calcium	114000	138000	121000	152000	115000	150000
Chromium			5 U	5 U		
Cobalt			1.4 J	2.8 J		
Copper			109	19.2		
Iron	1230	450	295	771	634	450
Lead	2.5 U	3.7	15 U	15 U	15.2	7.9
Magnesium	26600	39500	29300	49500	28200	49400
Manganese	1670	2490	1450	3700	1530	3710
Mercury			0.2 U	0.2 U		
Nickel			29.7	5.4		
Potassium	1250	1420	1380	1450	1330	1480
Selenium			38 U	38 U		
Silver			5 U	5 U		
Sodium	65300	85800	59600	95500	72600	92600 B
Thallium			15 U	15 U		
Vanadium			3.1 J	3.2 J		
Zinc			54.4	19.3 J		
Leachate Indicator Parameters						
Alkalinity	491000	615000	500000 B	719000 B	574000 B	739000 B
Ammonia	160	210	58 J	140	93 J	120
Biochemical Oxygen Demand	930 J	2000 U	3500	3500	2000 U	900 J
Bromide	170	140	94 J	110	140	150
Chemical Oxygen Demand	33500	10400	19000	14900	12900	10000 U
Chloride	5400	5400	3900	4900	5300	5100
Color (units)			50	20000		
Cyanide			10000 U	10000 U		
Hardness as CaCO3 (mg/L)	394	507	423	583	403	578
Hexavalent Chromium			10 U	10 U		
Nitrate	100 U	100 U	100 U	100 U	100 U	100 U
Phenols	6.3	5 U	2.5 J	5 U	5 U	5 U
Sulfate	40300	93000	67300	104000	104000	112000
Total Dissolved Solids	535000	697000	587000 B	848000 B	765000	806000
Total Kjeldahl Nitrogen	480 J	230 J	500 U	500 U	500 U	500 U
Total Organic Carbon	3100	2400	1300	990 J		1400
Field Parameters						
Temperature (celsius)	14.8	14.3	23.8	24.2	23.1	22.2
pH (su)	7.06	7.05	7.16	6.9	7.33	7.13
Specific Conductance (uS)	1538	1935	872	1195	815	1215
Eh (mv)	-105	55	132.4	132.8	130	132.7
Turbidity (VISUAL/ntu)	20	25	22.6	3.45	14.1	5.43

NOTES:

*CELL A was not sampled during Q3 2013 due to mechanical malfunction.

Blank cells indicate sample was not analyzed for this parameter

Concentrations in ug/L unless otherwise noted

NA = Not applicable

NS = Not sampled

NM = Not measured (analyzed)

U = Analyte not detected; detection limit shown

H = Sample was prepped or analyzed outside of holding time

B = Analyte detected less than CRDL

CRDL =Contract required detection limit

E = Estimated by laboratory

J = Estimated by data validator

N = Spiked sample recovery not within control limits

R = Result rejected due to poor matrix spike recovery

Table 5
Summary of the Analytical Results at the Phase II Cells A and B Secondary Leachate
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	CELL A 12/12/2011	CELL B 12/12/2011	CELL A 3/21/2012	CELL B 3/21/2012	CELL A 6/28/2012	CELL B 6/28/2012
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane						
1,1,1-Trichloroethane						
1,1,2,2-Tetrachloroethane						
1,1,2-Trichloroethane						
1,1-Dichloroethane						
1,1-Dichloroethene						
1,2,3-Trichloropropane						
1,2-Dibromo-3-Chloropropane						
1,2-Dibromoethane						
1,2-Dichlorobenzene						
1,2-Dichloroethane						
1,2-Dichloropropane						
1,4-Dichlorobenzene						
2-Butanone						
2-Hexanone						
4-Methyl-2-Pentanone						
Acetone						
Acrylonitrile						
Benzene						
Bromochloromethane						
Bromodichloromethane						
Bromoform						
Bromomethane						
Carbon Disulfide						
Carbon Tetrachloride						
Chlorobenzene						
Chloroethane						
Chloroform						
Chloromethane						
cis-1,2-Dichloroethylene						
cis-1,3-Dichloropropene						
Dibromochloromethane						
Dibromomethane						
Ethylbenzene						
Iodomethane						
Methylene Chloride						
Styrene						
Tetrachloroethene						
Toluene						
trans-1,2-Dichloroethylene						
trans-1,3-Dichloropropene						
trans-1,4-Dichloro-2-Butene						
Trichloroethene						
Trichlorofluoromethane						
Vinyl Acetate						
Vinyl Chloride						
Xylene (total)mp						
Xylene (total)o						

NOTES:

Blank cells indicate sample was not analyzed for this parameter

Concentrations in ug/L unless otherwise noted

U = Compound not detected; detection limit shown

B = Analyte detected in laboratory blank

* = LCS, LCSD, MS or MSD exceeds the control limit

J = Estimated concentration less than detection limit

Table 5
Summary of the Analytical Results at the Phase II Cells A and B Secondary Leachate
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	CELL A 12/12/2011	CELL B 12/12/2011	CELL A 3/21/2012	CELL B 3/21/2012	CELL A 6/28/2012	CELL B 6/28/2012
Inorganic Parameters						
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Boron						
Cadmium	0.45 J	0.58 J	1 U	1 U	1 U	1 U
Calcium	141000	163000	123000 B	167000 B	127000	147000
Chromium						
Cobalt						
Copper						
Iron	4900 B	1400 B	770	1100	1700	730
Lead	4.4 J	4.9 J	5 U	7	5.4	13
Magnesium	34300	51200	28800	56400	33100	51600
Manganese	2100	5000	1600 B	4900 B	1800	3700
Mercury						
Nickel						
Potassium	1500	1600	1300	1900	1600	1600
Selenium						
Silver						
Sodium	91300	113000	79200 B	144000 B	86600	128000
Thallium						
Vanadium						
Zinc						
Leachate Indicator Parameters						
Alkalinity	609000	735000	480000 B	720000 B	448000	750000 B
Ammonia	92	19 J	20 U	56	18 J	140
Biochemical Oxygen Demand	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U
Bromide	1900	410	680	660	200 U	74 J
Chemical Oxygen Demand	6400 J	10000 U	10000 U	7600 J	10000 U	10000 U
Chloride	5700	5500	5300	6800	5600	6300
Color (units)						
Cyanide						
Hardness as CaCO3 (mg/L)	480	600	460	680	430	620
Hexavalent Chromium						
Nitrate	50 U	50 U	50 U	50 U	3800	50 U
Phenols	12 B	46 B	10 U	10 U	10 U	10 U
Sulfate	90900	126000	75500	199000	89700	151000
Total Dissolved Solids	685000	841000	682000	994000	560000	874000
Total Kjeldahl Nitrogen	200 U	200 U	390	270	570	530
Total Organic Carbon	2900	2700	3100	2800	1600	1800
Field Parameters						
Temperature (celsius)	15.2	15	25	25.8	25	25
pH (su)	7.06	7.04	7.03	7.05	7.05	7.2
Specific Conductance (uS)	1114	1662	585	731	567	770
Eh (mv)	-115	-25	-18	-15	-12	-11
Turbidity (VISUAL/ntu)	32	42	10	10	13	10

NOTES:

*CELL A was not sampled during Q3 2013 due to mechanical malfunction.

Blank cells indicate sample was not analyzed for this parameter

Concentrations in ug/L unless otherwise noted

NA = Not applicable

NS = Not sampled

NM = Not measured (analyzed)

U = Analyte not detected; detection limit shown

H = Sample was prepped or analyzed outside of holding time

B = Analyte detected less than CRDL

CRDL =Contract required detection limit

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J = Estimated by data validator

N = Spiked sample recovery not within control limits

R = Result rejected due to poor matrix spike recovery

Table 5
Summary of the Analytical Results at the Phase II Cells A and B Secondary Leachate
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	CELL A 9/27/2012	CELL B 9/27/2012	CELL A 12/7/2012	CELL B 12/7/2012	CELL A 2/25/2013	CELL B 2/25/2013
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	1 U	1 U				
1,1,1-Trichloroethane	1 U	1 U				
1,1,2,2-Tetrachloroethane	1 U	1 U				
1,1,2-Trichloroethane	1 U	1 U				
1,1-Dichloroethane	1 U	1 U				
1,1-Dichloroethene	1 U	1 U				
1,2,3-Trichloropropane	1 U	1 U				
1,2-Dibromo-3-Chloropropane	1 U	1 U				
1,2-Dibromoethane	1 U	1 U				
1,2-Dichlorobenzene	1 U	1 U				
1,2-Dichloroethane	1 U	1 U				
1,2-Dichloropropane	1 U	1 U				
1,4-Dichlorobenzene	1 U	1 U				
2-Butanone	10 U	10 U				
2-Hexanone	5 U	5 U				
4-Methyl-2-Pentanone	5 U	5 U				
Acetone	10 U	10 U				
Acrylonitrile	5 U	5 U				
Benzene	1 U	1 U				
Bromochloromethane	1 U	1 U				
Bromodichloromethane	1 U	1 U				
Bromoform	1 U	1 U				
Bromomethane	1 U	1 U				
Carbon Disulfide	1 U	1 U				
Carbon Tetrachloride	1 U	1 U				
Chlorobenzene	1 U	1 U				
Chloroethane	1 U	1 U				
Chloroform	1 U	1 U				
Chloromethane	1 U	1 U				
cis-1,2-Dichloroethylene	1 U	1 U				
cis-1,3-Dichloropropene	1 U	1 U				
Dibromochloromethane	1 U	1 U				
Dibromomethane	1 U	1 U				
Ethylbenzene	1 U	1 U				
Iodomethane	1 U	1 U				
Methylene Chloride	1 U	1 U				
Styrene	1 U	1 U				
Tetrachloroethene	1 U	1 U				
Toluene	1 U	1 U				
trans-1,2-Dichloroethylene	1 U	1 U				
trans-1,3-Dichloropropene	1 U	1 U				
trans-1,4-Dichloro-2-Butene	5 U	5 U				
Trichloroethene	1 U	1 U				
Trichlorofluoromethane	1 U	1 U				
Vinyl Acetate	5 U	5 U				
Vinyl Chloride	1 U	1 U				
Xylene (total)mp	2 U	2 U				
Xylene (total)o	1 U	1 U				

NOTES:

Blank cells indicate sample was not analyzed for this parameter

Concentrations in ug/L unless otherwise noted

U = Compound not detected; detection limit shown

B = Analyte detected in laboratory blank

* = LCS, LCSD, MS or MSD exceeds the control limit

J = Estimated concentration less than detection limit

Table 5
Summary of the Analytical Results at the Phase II Cells A and B Secondary Leachate
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	CELL A 9/27/2012	CELL B 9/27/2012	CELL A 12/7/2012	CELL B 12/7/2012	CELL A 2/25/2013	CELL B 2/25/2013
Inorganic Parameters						
Aluminum	200 U	200 U				
Antimony	20 U	20 U				
Arsenic	10 U	10 U				
Barium	140	140				
Beryllium	2 U	2 U				
Boron	39	41				
Cadmium	1 U	1 U	1 U	1 U	1 U	1 U
Calcium	137000	142000	125000	136000	120000	130000
Chromium	1.1 J B	4 U				
Cobalt	4 U	4 U				
Copper	8.2 J B	150 B				
Iron	400	26 J	540	220	630	480
Lead	5 U	19	5 U	5 U	3.5 J	5.7
Magnesium	37500	49200	31300	46700	31400	45500
Manganese	2100	3300	500 B	3100 B	770	3100
Mercury	0.2 U	0.2 U				
Nickel	11	5.3 J				
Potassium	1600	1600	1800	1600	1800	1700
Selenium	15 U	15 U				
Silver	3 U	3 U				
Sodium	92500	118000	83400	118000	88100	125000
Thallium	20 U	20 U				
Vanadium	7	10				
Zinc	8 J B	28 B				
Leachate Indicator Parameters						
Alkalinity	508000	680000	490000	610000	511000 B	626000 B
Ammonia	20 U	82	130	36	57	20 U
Biochemical Oxygen Demand	2000 U	8500	2000 U	2000 U	2000 U	2000 U
Bromide	200 U	200 U	110 J	99 J	140 J	130 J
Chemical Oxygen Demand	9400 J	19500	28100	14300	10400	10000 U
Chloride	4200 J	6300	4700	6000	7800	5600
Color (units)	5000 U	5000				
Cyanide	10 U	10 U				
Hardness as CaCO3 (mg/L)	480	520	380	510	420	500
Hexavalent Chromium	10 U	10 U				
Nitrate	1800	50 U	50 U	50 U	21 J	22 J
Phenols	10 U	10 U	8 J B	6.7 J B	10 U	10 U
Sulfate	98300	146000	58400	125000	86000	107000
Total Dissolved Solids	657000	862000	586000	780000	578000	728000
Total Kjeldahl Nitrogen	500 UB	480 UB	590	260	230	200 U
Total Organic Carbon	2100	700 J	1900	1700	2300	2000
Field Parameters						
Temperature (celsius)	25	25	23	23.5	23.7	23.9
pH (su)	7.02	7.02	7.04	7.06	7.07	7.1
Specific Conductance (uS)	579	683	509	604	456	547
Eh (mv)	-2	-15	-15	-55	-40	-15
Turbidity (VISUAL/ntu)	1	9	10	10	14	9

NOTES:

*CELL A was not sampled during Q3 2013 due to mechanical malfunction.

Blank cells indicate sample was not analyzed for this parameter

Concentrations in ug/L unless otherwise noted

NA = Not applicable

NS = Not sampled

NM = Not measured (analyzed)

U = Analyte not detected; detection limit shown

H = Sample was prepped or analyzed outside of holding time

B = Analyte detected less than CRDL

CRDL =Contract required detection limit

E = Estimated by laboratory

J = Estimated by data validator

N = Spiked sample recovery not within control limits

R = Result rejected due to poor matrix spike recovery

Table 5
Summary of the Analytical Results at the Phase II Cells A and B Secondary Leachate
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	CELL A 5/28/2013	CELL B 5/28/2013	CELL A* 9/4/2013	CELL B 9/4/2013	CELL A 11/18/2013	CELL B 11/18/2013
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane					1 U	1 U
1,1,1-Trichloroethane					1 U	1 U
1,1,2,2-Tetrachloroethane					1 U	1 U
1,1,2-Trichloroethane					1 U	1 U
1,1-Dichloroethane					1 U	1 U
1,1-Dichloroethene					28	20
1,2,3-Trichloropropane					1 U	1 U
1,2-Dibromo-3-Chloropropane					1 U	1 U
1,2-Dibromoethane					1 U	1 U
1,2-Dichlorobenzene					1 U	1 U
1,2-Dichloroethane					1 U	1 U
1,2-Dichloropropane					1 U	1 U
1,4-Dichlorobenzene					1 U	1 U
2-Butanone					10 U	10 U
2-Hexanone					5 U	5 U
4-Methyl-2-Pentanone					5 U	5 U
Acetone					10 U	10 U
Acrylonitrile					5 U	5 U
Benzene					0.8 J	1 U
Bromochloromethane					1 U	1 U
Bromodichloromethane					1 U	1 U
Bromoform					1 U	1 U
Bromomethane					1 U	1 U
Carbon Disulfide					1 U	1 U
Carbon Tetrachloride					1 U	1 U
Chlorobenzene					1 U	1 U
Chloroethane					1 U	1 U
Chloroform					1 U	1 U
Chloromethane					1 U	1 U
cis-1,2-Dichloroethylene					1 U	1 U
cis-1,3-Dichloropropene					1 U	1 U
Dibromochloromethane					1 U	1 U
Dibromomethane					1 U	1 U
Ethylbenzene					1 U	1 U
Iodomethane					1 U	1 U
Methylene Chloride					1 U	1 U
Styrene					1 U	1 U
Tetrachloroethene					1 U	1 U
Toluene					1 U	1 U
trans-1,2-Dichloroethylene					5 U	5 U
trans-1,3-Dichloropropene					1 U	1 U
trans-1,4-Dichloro-2-Butene					1 UJ	1 U
Trichloroethene					1 U	1 U
Trichlorofluoromethane					1 U	1 U
Vinyl Acetate					5 U	5 U
Vinyl Chloride					10	5.7
Xylene (total)mp					2 U	2 U
Xylene (total)o					1 U	1 U

NOTES:

Blank cells indicate sample was not analyzed for this parameter

Concentrations in ug/L unless otherwise noted

U = Compound not detected; detection limit shown

B = Analyte detected in laboratory blank

* = LCS, LCSD, MS or MSD exceeds the control limit

J = Estimated concentration less than detection limit

Table 5
Summary of the Analytical Results at the Phase II Cells A and B Secondary Leachate
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	CELL A 5/28/2013	CELL B 5/28/2013	CELL A* 9/4/2013	CELL B 9/4/2013	CELL A 11/18/2013	CELL B 11/18/2013
Inorganic Parameters						
Aluminum					200 U	200 U
Antimony					20 U	20 U
Arsenic					10 U	10 U
Barium					152	156
Beryllium					2 U	2 U
Boron					39.7	46.8
Cadmium	1 U	0.51 J	NS	1 U	1 U	1 U
Calcium	126000	142000	NS	146000	136000	157000
Chromium					1.4 J	1.6 J
Cobalt					4 U	1.8 J
Copper					142	34.3
Iron	71.8	341	NS	261	601	844
Lead	3.5 J	4.5 J	NS	5 U	32	5 U
Magnesium	32300	47100	NS	49300	36000	55500
Manganese	1560	3260	NS	3780	1680	4020
Mercury					0.2 U	0.2 U
Nickel					19.5	3.6 J
Potassium	1720	1740	NS	1820 B	1850	1990
Selenium					15 U	15 U
Silver					3 U	3 U
Sodium	85200	131000	NS	133000 B	93200	147000
Thallium					20 U	20 U
Vanadium					5 U	5 U
Zinc					61.4	13.8
Leachate Indicator Parameters						
Alkalinity	542000	672000	NS	733000	592000	740000
Ammonia	9.9 J	20 U	NS	20 U	280	18 J
Biochemical Oxygen Demand	2000 U	2000 U	NS	2000 U	2000 U	6500
Bromide	110 J	110 J	NS	110 J	190 J	220 J
Chemical Oxygen Demand	10000 U	10000 U	NS	5500 J	23100	10000 U
Chloride	6800	6900	NS	9100	5300	8900 J
Color (units)					5	15
Cyanide					10 U	10 U
Hardness as CaCO3 (mg/L)	440	510	NS	560	490	625
Hexavalent Chromium					11 U	10 U
Nitrate	36 J	32 J	NS	66	50 U	50 U
Phenols	10 U	10 U	NS	10 U	10 U	10 U
Sulfate	864000	132000	NS	142000	66800	157000
Total Dissolved Solids	648000	804000	NS	894000	670000	922000
Total Kjeldahl Nitrogen	310	220	NS	200 U	1000	200 U
Total Organic Carbon	3200	2400	NS	3500	2500	2900
Field Parameters						
Temperature (celsius)	24	24	NS	24.5	23.5	23
pH (su)	7.03	7.05	NS	7.04	7.08	7.11
Specific Conductance (uS)	604	717	NS	647	501	640
Eh (mv)	-15	-18	NS	-17	14	-8
Turbidity (VISUAL/ntu)	10	10	NS	8	9	6

NOTES:

*CELL A was not sampled during Q3 2013 due to mechanical malfunction.

Blank cells indicate sample was not analyzed for this parameter

Concentrations in ug/L unless otherwise noted

NA = Not applicable

NS = Not sampled

NM = Not measured (analyzed)

U = Analyte not detected; detection limit shown

H = Sample was prepped or analyzed outside of holding time

B = Analyte detected less than CRDL

CRDL =Contract required detection limit

E = Estimated by laboratory

J = Estimated by data validator

N = Spiked sample recovery not within control limits

R = Result rejected due to poor matrix spike recovery

Table 5
Summary of the Analytical Results at the Phase II Cells A and B Secondary Leachate
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	CELL A 3/27/2014	CELL B 3/27/2014	CELL A 5/23/2014	CELL B 5/23/2014	CELL A 9/8/2014	CELL B 9/8/2014
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane			1 U	1 U		
1,1,1-Trichloroethane			1 U	1 U		
1,1,2,2-Tetrachloroethane			1 U	1 U		
1,1,2-Trichloroethane			1 U	1 U		
1,1-Dichloroethane			1 U	0.51 J		
1,1-Dichloroethene			1.6	15		
1,2,3-Trichloropropane			1 U	1 U		
1,2-Dibromo-3-Chloropropane			1 U	1 U		
1,2-Dibromoethane			1 U	1 U		
1,2-Dichlorobenzene			1 U	1 U		
1,2-Dichloroethane			1 U	1 U		
1,2-Dichloropropane			1 U	1 U		
1,4-Dichlorobenzene			1 U	1 U		
2-Butanone			10 U	10 U		
2-Hexanone			5 U	5 U		
4-Methyl-2-Pentanone			5 U	5 U		
Acetone			10 U	10 U		
Acrylonitrile			5 U	5 U		
Benzene			1 U	1 U		
Bromochloromethane			1 U	1 U		
Bromodichloromethane			1 U	1 U		
Bromoform			1 U	1 U		
Bromomethane			1 U	1 U		
Carbon Disulfide			1 U	0.38 J		
Carbon Tetrachloride			1 U	1 U		
Chlorobenzene			1 U	1 U		
Chloroethane			1 U	1 U		
Chloroform			1 U	1 U		
Chloromethane			1 U	1 U		
cis-1,2-Dichloroethylene			1 U	1 U		
cis-1,3-Dichloropropene			1 U	1 U		
Dibromochloromethane			1 U	1 U		
Dibromomethane			1 U	1 U		
Ethylbenzene			1 U	1 U		
Iodomethane			1 U	1 U		
Methylene Chloride			1 U	1 U		
Styrene			1 U	1 U		
Tetrachloroethene			1 U	1 U		
Toluene			1 U	1 U		
trans-1,2-Dichloroethylene			1 U	1 U		
trans-1,3-Dichloropropene			1 U	1 U		
trans-1,4-Dichloro-2-Butene			5 U	5 U		
Trichloroethene			1 U	1 U		
Trichlorofluoromethane			1 U	1 U		
Vinyl Acetate			5 U *	5 U *		
Vinyl Chloride			1.8	7.9		
Xylene (total)mp			2 U	2 U		
Xylene (total)o			1 U	1 U		

NOTES:

Blank cells indicate sample was not analyzed for this parameter

Concentrations in ug/L unless otherwise noted

U = Compound not detected; detection limit shown

B = Analyte detected in laboratory blank

* = LCS, LCSD, MS or MSD exceeds the control limit

J = Estimated concentration less than detection limit

Table 5
Summary of the Analytical Results at the Phase II Cells A and B Secondary Leachate
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	CELL A 3/27/2014	CELL B 3/27/2014	CELL A 5/23/2014	CELL B 5/23/2014	CELL A 9/8/2014	CELL B 9/8/2014
Inorganic Parameters						
Aluminum			200 U	200 U		
Antimony			20 U	20 U		
Arsenic			10 U	10 U		
Barium			97.1	132		
Beryllium			2 U	2 U		
Boron			31.3	41.5		
Cadmium	1 U	1 U	1 U	1 U	0.5 U	0.5 U
Calcium	115000 B	129000 B	96500 ^	134000 ^	121000	144000
Chromium			4 U	4 U		
Cobalt			4 U	1.4 J		
Copper			124	25.6		
Iron	1240 B	867 B	42.9 J	685	1730	836
Lead	5.4	8	23.4	5 U	2.72 J	6.51 J
Magnesium	31800 B	45400 B	21100 ^	44400 ^	12700	48200
Manganese	2560 B	3300 B	1740 ^	3510 ^	1903	3669
Mercury			0.2 U	0.2 U		
Nickel			23.2	1.9 J		
Potassium	1760	1750	1500	1740	1470	1680
Selenium			15 U	15 U		
Silver			3 U	3 U		
Sodium	86800 B	124000 B	52600	109000	66200	120000
Thallium			20 U	20 U		
Vanadium			5 U	5 U		
Zinc			59.3	3.8 J		
Leachate Indicator Parameters						
Alkalinity	529000	686000	407000 B	651000 B	504000	672000
Ammonia	20 U	20 U	20 U	34	244	37 J
Biochemical Oxygen Demand	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U
Bromide	200 U	200 U	200 U	200 U	163 U	163 U
Chemical Oxygen Demand	33800 J	11000 B	6600 J	10700	34000	9500 J
Chloride	4000	17100	2300	8100	3620 J	8250
Color (units)			5000	15000		
Cyanide			10 U	10 U		
Hardness as CaCO3 (mg/L)	470	590	330	540	355	557
Hexavalent Chromium			10 U	10 U		
Nitrate	50 U	50 U	50 U	50 U	22 J	23 J
Phenols	5.9 J	10 U	10 U	10 U	9 U	12 J
Sulfate	78200	115000	43500	89400	65200	147000
Total Dissolved Solids	504000	818000	510000	810000	560000	830000
Total Kjeldahl Nitrogen	2800	200 U	440	370	800	280 J
Total Organic Carbon	2600	4000	2800	2000	11500	9090
Field Parameters						
Temperature (celsius)	25	25.6	22.4	24	27	28
pH (su)	7.18	7.04	7.53	7.03	7.48	7.04
Specific Conductance (uS)	353	479	644	708	1009	1415
Eh (mv)	61	-30	40	-112	-136	-143
Turbidity (VISUAL/ntu)	10	12	11	9	10	10

NOTES:

*CELL A was not sampled during Q3 2013 due to mechanical malfunction.

Blank cells indicate sample was not analyzed for this parameter

Concentrations in ug/L unless otherwise noted

NA = Not applicable

NS = Not sampled

NM = Not measured (analyzed)

U = Analyte not detected; detection limit shown

H = Sample was prepped or analyzed outside of holding time

B = Analyte detected less than CRDL

CRDL =Contract required detection limit

E = Estimated by laboratory

J = Estimated by data validator

N = Spiked sample recovery not within control limits

R = Result rejected due to poor matrix spike recovery

Table 5
Summary of the Analytical Results at the Phase II Cells A and B Secondary Leachate
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	CELL A 12/1/2014	CELL B 12/1/2014	CELL A 3/4/2015	CELL B 3/4/2015	CELL A 5/21/2015	CELL B 5/21/2015
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane						
1,1,1-Trichloroethane						
1,1,2,2-Tetrachloroethane						
1,1,2-Trichloroethane						
1,1-Dichloroethane						
1,1-Dichloroethene						
1,2,3-Trichloropropane						
1,2-Dibromo-3-Chloropropane						
1,2-Dibromoethane						
1,2-Dichlorobenzene						
1,2-Dichloroethane						
1,2-Dichloropropane						
1,4-Dichlorobenzene						
2-Butanone						
2-Hexanone						
4-Methyl-2-Pentanone						
Acetone						
Acrylonitrile						
Benzene						
Bromochloromethane						
Bromodichloromethane						
Bromoform						
Bromomethane						
Carbon Disulfide						
Carbon Tetrachloride						
Chlorobenzene						
Chloroethane						
Chloroform						
Chloromethane						
cis-1,2-Dichloroethylene						
cis-1,3-Dichloropropene						
Dibromochloromethane						
Dibromomethane						
Ethylbenzene						
Iodomethane						
Methylene Chloride						
Styrene						
Tetrachloroethene						
Toluene						
trans-1,2-Dichloroethylene						
trans-1,3-Dichloropropene						
trans-1,4-Dichloro-2-Butene						
Trichloroethene						
Trichlorofluoromethane						
Vinyl Acetate						
Vinyl Chloride						
Xylene (total)mp						
Xylene (total)o						

NOTES:

Blank cells indicate sample was not analyzed for this parameter

Concentrations in ug/L unless otherwise noted

U = Compound not detected; detection limit shown

B = Analyte detected in laboratory blank

* = LCS, LCSD, MS or MSD exceeds the control limit

J = Estimated concentration less than detection limit

Table 5
Summary of the Analytical Results at the Phase II Cells A and B Secondary Leachate
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	CELL A 12/1/2014	CELL B 12/1/2014	CELL A 3/4/2015	CELL B 3/4/2015	CELL A 5/21/2015	CELL B 5/21/2015
Inorganic Parameters						
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Boron						
Cadmium	2 U	2 U	0.2 U	0.2 U	0.2 U	0.2 U
Calcium	120000	138000	118000	140000	120000	140000
Chromium						
Cobalt						
Copper						
Iron	500 U	617	1170	658	692	699
Lead	11.57	10 U	1.559	0.331 J	1.2	0.4 J
Magnesium	34000	55600	11500	50200	30000	43000
Manganese	1954	3701	1976	3142	1549	3052
Mercury						
Nickel						
Potassium	1780	2000	1670	1820	1500	1680
Selenium						
Silver						
Sodium	83200	128000	83600	130000	77900	114000
Thallium						
Vanadium						
Zinc						
Leachate Indicator Parameters						
Alkalinity	534000	664000	531000	715000	570000	704000
Ammonia	326	148	160	87	161	89
Biochemical Oxygen Demand	2100	2000 U	2000 U	2000 U	2000 U	2500
Bromide	50 U	50 U	204	150	165	132
Chemical Oxygen Demand	10000 U	14000	19000	10000 U	30000	10000
Chloride	7220	8820	8160	8060	7300	9060
Color (units)						
Cyanide						
Hardness as CaCO3 (mg/L)	441	574	343	555	440	540
Hexavalent Chromium						
Nitrate	100 U	100 U	500 U	100 U	100 U	100 U
Phenols	30 U	30 U	30 U	23 J	30 U	7 J
Sulfate	90000	176000	70800	146000	77300	142000
Total Dissolved Solids	650000	880000	660000	870000	690000	910000
Total Kjeldahl Nitrogen	676	515	538	739	619	562
Total Organic Carbon	2700	2900	10100	3320	9070	4170
Field Parameters						
Temperature (celsius)	28	26	27	27	27	27
pH (su)	7.4	7.1	7.41	7.11	7.48	7.12
Specific Conductance (uS)	1071	1350	1090	1572	1172	1495
Eh (mv)	-110	-88	-150	-120	-195	-229
Turbidity (VISUAL/ntu)	10	8	10	9	10	9

NOTES:

*CELL A was not sampled during Q3 2013 due to mechanical malfunction.

Blank cells indicate sample was not analyzed for this parameter

Concentrations in ug/L unless otherwise noted

NA = Not applicable

NS = Not sampled

NM = Not measured (analyzed)

U = Analyte not detected; detection limit shown

H = Sample was prepped or analyzed outside of holding time

B = Analyte detected less than CRDL

CRDL =Contract required detection limit

E = Estimated by laboratory

J = Estimated by data validator

N = Spiked sample recovery not within control limits

R = Result rejected due to poor matrix spike recovery

Table 5
Summary of the Analytical Results at the Phase II Cells A and B Secondary Leachate
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	CELL A 9/15/2015	CELL B 9/15/2015	CELL A 12/14/2015	CELL B 12/14/2015	CELL A 3/28/2016	CELL B 3/28/2016
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	NA	NA				
1,1,1-Trichloroethane	0.7 U	0.7 U				
1,1,2,2-Tetrachloroethane	0.14 U	0.14 U				
1,1,2-Trichloroethane	0.5 U	0.5 U				
1,1-Dichloroethane	0.7 U	0.7 U				
1,1-Dichloroethene	0.14 U	0.14 U				
1,2,3-Trichloropropane	NA	NA				
1,2-Dibromo-3-Chloropropane	0.7 U	0.7 U				
1,2-Dibromoethane	0.65 U	0.65 U				
1,2-Dichlorobenzene	0.7 U	0.7 U				
1,2-Dichloroethane	0.13 U	0.13 U				
1,2-Dichloropropane	0.13 U	0.13 U				
1,4-Dichlorobenzene	0.7 U	0.7 U				
2-Butanone	1.9 U	1.9 U				
2-Hexanone	1 U	1 U				
4-Methyl-2-Pentanone	1 U	1 U				
Acetone	1.5 U	1.5 U				
Acrylonitrile	NA	NA				
Benzene	0.22 J	0.16 U				
Bromochloromethane	0.7 U	0.7 U				
Bromodichloromethane	0.19 U	0.19 U				
Bromoform	0.65 U	0.65 U				
Bromomethane	0.7 U	0.7 U				
Carbon Disulfide	1 U	1 U				
Carbon Tetrachloride	0.13 U	0.13 U				
Chlorobenzene	0.7 U	0.7 U				
Chloroethane	0.7 U	0.7 U				
Chloroform	0.7 U	0.7 U				
Chloromethane	0.7 U	0.7 U				
cis-1,2-Dichloroethylene	0.7 U	0.7 U				
cis-1,3-Dichloropropene	0.14 U	0.14 U				
Dibromochloromethane	0.15 U	0.15 U				
Dibromomethane	NA	NA				
Ethylbenzene	0.7 U	0.7 U				
Iodomethane	NA	NA				
Methylene Chloride	0.7 U	0.7 U				
Styrene	0.7 U	0.7 U				
Tetrachloroethene	0.18 U	0.18 U				
Toluene	0.7 U	0.7 U				
trans-1,2-Dichloroethylene	NA	NA				
trans-1,3-Dichloropropene	0.7 U	0.7 U				
trans-1,4-Dichloro-2-Butene	0.16 U	0.16 U				
Trichloroethene	0.18 U	0.18 U				
Trichlorofluoromethane	0.7 U	0.7 U				
Vinyl Acetate	NA	NA				
Vinyl Chloride	0.07 U	0.07 U				
Xylene (total)mp	0.7 U	0.7 U				
Xylene (total)o	0.7 U	0.7 U				

NOTES:

Blank cells indicate sample was not analyzed for this parameter

Concentrations in ug/L unless otherwise noted

U = Compound not detected; detection limit shown

B = Analyte detected in laboratory blank

* = LCS, LCSD, MS or MSD exceeds the control limit

J = Estimated concentration less than detection limit

Table 5
Summary of the Analytical Results at the Phase II Cells A and B Secondary Leachate
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	CELL A 9/15/2015	CELL B 9/15/2015	CELL A 12/14/2015	CELL B 12/14/2015	CELL A 3/28/2016	CELL B 3/28/2016
Inorganic Parameters						
Aluminum	2.94 J	6.16 J				
Antimony	0.21 J	0.21 J				
Arsenic	0.88	2.25				
Barium	134.5	135.6				
Beryllium	0.15 U	0.15 U				
Boron	41	54				
Cadmium	0.06 J	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U
Calcium	130000	140000	140000	130000	117000	122000
Chromium	0.56 J	1.1				
Cobalt	0.09 J	1.32				
Copper	14.97	17.96				
Iron	916	527	656	519	132	547
Lead	1.61	0.56 J	1.4	1.5	1.098	0.9396 J
Magnesium	33000	48000	35000	46000	32200	42900
Manganese	1621	3606	1731	3536	939.7	2440
Mercury	0.06 U	0.06 U				
Nickel	12.26	2.4				
Potassium	1450	1740	1340	1620	1560	1630
Selenium	1 U	1 U				
Silver	0.07 U	0.07 U				
Sodium	108000	145000	122000	161000	80300	114000
Thallium	0.05 U	0.05 U				
Vanadium	0.55 U	0.55 U				
Zinc	24.98	15.89				
Leachate Indicator Parameters						
Alkalinity	598000	708000	644000	710000	617000	712000
Ammonia	945	142	52 J	129	170	126
Biochemical Oxygen Demand	2000 U	2000 U	2000 U	2000 U	2900	2000 U
Bromide	180	169	144	50 U	210	99 J
Chemical Oxygen Demand	31000	7800 J	42000	12000	9300 J	12000
Chloride	6420	8700	6880	8120	8960	8100
Color (units)	25	14				
Cyanide	2 J	1 U				
Hardness as CaCO3 (mg/L)	460	540	480	520	425	481
Hexavalent Chromium	3 U	3 U				
Nitrate	37 J	38 J	31 J	0.023 J	100 U	100 U
Phenols	7 J	8 J	30 U	30 U	30 U	30 U
Sulfate	72400	163000	93400	162000	83800	162000
Total Dissolved Solids	720000	920000	790000	880000	780000	960000
Total Kjeldahl Nitrogen	1640	282 J	1050	300 U	456	584
Total Organic Carbon	3810	3240	5760	3190	4470	3660
Field Parameters						
Temperature (celsius)	25	27	25.5	26	26.6	28
pH (su)	7.12	6.94	7.3	7.1	6.87	6.91
Specific Conductance (uS)	602	703	610	688	581	701
Eh (mv)	-60	-40	46	58	-27	-9
Turbidity (VISUAL/ntu)	clear	clear	7	4	9	10

NOTES:

*CELL A was not sampled during Q3 2013 due to mechanical malfunction.

Blank cells indicate sample was not analyzed for this parameter

Concentrations in ug/L unless otherwise noted

NA = Not applicable

NS = Not sampled

NM = Not measured (analyzed)

U = Analyte not detected; detection limit shown

H = Sample was prepped or analyzed outside of holding time

B = Analyte detected less than CRDL

CRDL =Contract required detection limit

E = Estimated by laboratory

J = Estimated by data validator

N = Spiked sample recovery not within control limits

R = Result rejected due to poor matrix spike recovery

Table 5
Summary of the Analytical Results at the Phase II Cells A and B Secondary Leachate
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	CELL A 6/20/2016	CELL B 6/20/2016	CELL A 10/6/2016	CELL B 10/6/2016	CELL A 12/7/2016	CELL B 12/7/2016
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane					2.5 U	2.5 U
1,1,1-Trichloroethane					2.5 U	2.5 U
1,1,2,2-Tetrachloroethane					0.5 U	0.5 U
1,1,2-Trichloroethane					1.5 U	1.5 U
1,1-Dichloroethane					2.5 U	2.5 U
1,1-Dichloroethene					0.5 U	0.5 U
1,2,3-Trichloropropane					2.5 U	2.5 U
1,2-Dibromo-3-Chloropropane					2.5 U	2.5 U
1,2-Dibromoethane					2 U	2 U
1,2-Dichlorobenzene					2.5 U	2.5 U
1,2-Dichloroethane					0.5 U	0.5 U
1,2-Dichloropropane					1 U	1 U
1,4-Dichlorobenzene					2.5 U	2.5 U
2-Butanone					5 U	5 U
2-Hexanone					5 U	5 U
4-Methyl-2-Pentanone					5 U	5 U
Acetone					5 U	5 U
Acrylonitrile					5 U	5 U
Benzene					0.5 U	0.5 U
Bromochloromethane					2.5 U	2.5 U
Bromodichloromethane					0.5 U	0.5 U
Bromoform					2 U	2 U
Bromomethane					2.5 U	2.5 U
Carbon Disulfide					5 U	5 U
Carbon Tetrachloride					0.5 U	0.5 U
Chlorobenzene					2.5 U	2.5 U
Chloroethane					2.5 U	0.74 J
Chloroform					2.5 U	2.5 U
Chloromethane					2.5 U	2.5 U
cis-1,2-Dichloroethylene					2.5 U	2.5 U
cis-1,3-Dichloropropene					0.5 U	0.5 U
Dibromochloromethane					0.5 U	0.5 U
Dibromomethane					5 U	5 U
Ethylbenzene					2.5 U	2.5 U
Iodomethane					5 U	5 U
Methylene Chloride					2.5 U	2.5 U
Styrene					2.5 U	2.5 U
Tetrachloroethene					0.5 U	0.5 U
Toluene					2.5 U	2.5 U
trans-1,2-Dichloroethylene					2.5 U	2.5 U
trans-1,3-Dichloropropene					2.5 U	2.5 U
trans-1,4-Dichloro-2-Butene					0.5 U	0.5 U
Trichloroethene					0.5 U	0.5 U
Trichlorofluoromethane					2.5 U	2.5 U
Vinyl Acetate					5 U	5 U
Vinyl Chloride					1 U	1 U
Xylene (total)mp					2.5 U	2.5 U
Xylene (total)o					2.5 U	2.5 U

NOTES:

Blank cells indicate sample was not analyzed for this parameter

Concentrations in ug/L unless otherwise noted

U = Compound not detected; detection limit shown

B = Analyte detected in laboratory blank

* = LCS, LCSD, MS or MSD exceeds the control limit

J = Estimated concentration less than detection limit

Table 5
Summary of the Analytical Results at the Phase II Cells A and B Secondary Leachate
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	CELL A 6/20/2016	CELL B 6/20/2016	CELL A 10/6/2016	CELL B 10/6/2016	CELL A 12/7/2016	CELL B 12/7/2016
Inorganic Parameters						
Aluminum					10 U	10 U
Antimony					4 U	4 U
Arsenic					0.8	1.8
Barium					148.6	126.8
Beryllium					0.5 U	0.5 U
Boron					48.2	46.8
Cadmium	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.1 J
Calcium	134000	150000	14000	151000	130000	140000
Chromium					0.6 J	0.5 J
Cobalt					0.5 U	1.5
Copper					13.7	16.2
Iron	1230	494	433	390	747	382
Lead	4.759	0.4929 J	7.278	0.3921 J	4.5	7.7
Magnesium	36300	52100	37700	45900	38000	50000
Manganese	1182	2834	1118	2857	1516	2797
Mercury					0.2 U	0.2 U
Nickel					9.4	4.3
Potassium	1830	1790	1910	1800	1640	1680
Selenium					5 U	5 U
Silver					0.4 U	0.4 U
Sodium	98900	153000	98700	151000	95600	129000
Thallium					0.5 U	0.5 U
Vanadium					5 U	5 U
Zinc					27.6	26
Leachate Indicator Parameters						
Alkalinity	583000	706000	608000	679000	600000	659000
Ammonia	33 J	203	247	108	48 J	35 J
Biochemical Oxygen Demand	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U
Bromide	231	193	189000	133	263	646
Chemical Oxygen Demand	42000	12000	37000	8500 J	68000	13000
Chloride	8070	8200	7750	8480	8360	13200
Color (units)					22	44
Cyanide					5 U	5 U
Hardness as CaCO3 (mg/L)	485	590			490	550
Hexavalent Chromium					10 U	10 U
Nitrate	25 J	19 J	100 U	31 J	100 U	100 U
Phenols	30 U	30 U	30 U	30 J	14 J	7 J
Sulfate	73400	215000	71700	170000	70500	128000
Total Dissolved Solids	730000	970000	750000	980000	720000	880000
Total Kjeldahl Nitrogen	1080	286 J	1520	487	992	298 J
Total Organic Carbon	8790	3020	10100	3360	7130	2460
Field Parameters						
Temperature (celsius)	29	29.4			26.9	28.3
pH (su)	7.67	7.15			7.51	7.07
Specific Conductance (uS)	553	717			558	646
Eh (mv)	132	-26			45	13
Turbidity (VISUAL/ntu)	10	10			clear	clear

NOTES:

*CELL A was not sampled during Q3 2013 due to mechanical malfunction.

Blank cells indicate sample was not analyzed for this parameter

Concentrations in ug/L unless otherwise noted

NA = Not applicable

NS = Not sampled

NM = Not measured (analyzed)

U = Analyte not detected; detection limit shown

H = Sample was prepped or analyzed outside of holding time

B = Analyte detected less than CRDL

CRDL =Contract required detection limit

E = Estimated by laboratory

J = Estimated by data validator

N = Spiked sample recovery not within control limits

R = Result rejected due to poor matrix spike recovery

Table 5
Summary of the Analytical Results at the Phase II Cells A and B Secondary Leachate
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	CELL A 4/3/2017	CELL B 4/3/2017	CELL A 6/22/2017	CELL B 6/22/2017
Volatile Organic Compounds				
1,1,1,2-Tetrachloroethane			2.5 U	2.5 U
1,1,1-Trichloroethane			2.5 U	2.5 U
1,1,2,2-Tetrachloroethane			0.5 U	0.5 U
1,1,2-Trichloroethane			1.5 U	1.5 U
1,1-Dichloroethane			2.5 U	2.5 U
1,1-Dichloroethene			0.5 U	0.5 U
1,2,3-Trichloropropane			2.5 U	2.5 U
1,2-Dibromo-3-Chloropropane			2.5 U	2.5 U
1,2-Dibromoethane			2 U	2 U
1,2-Dichlorobenzene			2.5 U	2.5 U
1,2-Dichloroethane			0.5 U	0.5 U
1,2-Dichloropropane			1 U	1 U
1,4-Dichlorobenzene			2.5 U	2.5 U
2-Butanone			5 U	5 U
2-Hexanone			5 U	5 U
4-Methyl-2-Pentanone			5 U	5 U
Acetone			5 U	5 U
Acrylonitrile			5 U	5 U
Benzene			0.5 U	0.5 U
Bromochloromethane			2.5 U	2.5 U
Bromodichloromethane			0.5 U	0.5 U
Bromoform			2 U	2 U
Bromomethane			2.5 U	2.5 U
Carbon Disulfide			5 U	5 U
Carbon Tetrachloride			0.5 U	0.5 U
Chlorobenzene			2.5 U	2.5 U
Chloroethane			2.5 U	2.5 U
Chloroform			2.5 U	2.5 U
Chloromethane			2.5 U	2.5 U
cis-1,2-Dichloroethylene			2.5 U	2.5 U
cis-1,3-Dichloropropene			0.5 U	0.5 U
Dibromochloromethane			0.5 U	0.5 U
Dibromomethane			5 U	5 U
Ethylbenzene			2.5 U	2.5 U
Iodomethane			5 U	5 U
Methylene Chloride			2.5 U	2.5 U
Styrene			2.5 U	2.5 U
Tetrachloroethene			0.5 U	0.5 U
Toluene			2.5 U	2.5 U
trans-1,2-Dichloroethylene			2.5 U	2.5 U
trans-1,3-Dichloropropene			2.5 U	2.5 U
trans-1,4-Dichloro-2-Butene			0.5 U	0.5 U
Trichloroethene			0.5 U	0.5 U
Trichlorofluoromethane			2.5 U	2.5 U
Vinyl Acetate			5 U	5 U
Vinyl Chloride			1 U	1 U
Xylene (total)mp			2.5 U	2.5 U
Xylene (total)o			2.5 U	2.5 U

NOTES:

Blank cells indicate sample was not analyzed for this parameter

Concentrations in ug/L unless otherwise noted

U = Compound not detected; detection limit shown

B = Analyte detected in laboratory blank

* = LCS, LCSD, MS or MSD exceeds the control limit

J = Estimated concentration less than detection limit

Table 5
Summary of the Analytical Results at the Phase II Cells A and B Secondary Leachate
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	CELL A 4/3/2017	CELL B 4/3/2017	CELL A 6/22/2017	CELL B 6/22/2017
Inorganic Parameters				
Aluminum			4.82 J	4.69 J
Antimony			4 U	4 U
Arsenic			0.46 J	1.51
Barium			135.3	111.5
Beryllium			0.5 U	0.5 U
Boron			39	45
Cadmium	0.0599 U	0.0599 U	0.2 U	0.2 U
Calcium	132000	136000	133000	142000
Chromium			0.2 J	0.18 J
Cobalt			0.5 U	0.92
Copper			4.12	56.36
Iron	1230	479	121	312
Lead	3.087	2.21	1.23	26.71
Magnesium	36700	45800	33000	44700
Manganese	1721	2087	1739	2342
Mercury			0.2 U	0.2 U
Nickel			3.75	3.45
Potassium	1660	1680	1550	1840
Selenium			5 U	5 U
Silver			0.4 U	0.4 U
Sodium	109000	142000	91000	142000
Thallium			0.5 U	0.5 U
Vanadium			5 U	5 U
Zinc			14.51	71.45
Leachate Indicator Parameters				
Alkalinity	579000	667000	575000	687000
Ammonia	47 J	33 J	331	54 J
Biochemical Oxygen Demand	2000 U	2000 U	2000 U	2000 U
Bromide	210 J	168 J	289	224
Chemical Oxygen Demand	32000	80000	11000	11000
Chloride	7510	7690	10600	7950
Color (units)			12	14
Cyanide			5 U	5 U
Hardness as CaCO3 (mg/L)	482	529.3	467.1	540
Hexavalent Chromium			10 U	10 U
Nitrate	19 U	19 U	100 U	100 U
Phenols	8 J	5 J	10 J	21 J
Sulfate	109000	125000	83700	134000
Total Dissolved Solids	770000	870000	740000	860000
Total Kjeldahl Nitrogen	1100	269 J	495	306
Total Organic Carbon	8640	2830	3680	2760
Field Parameters				
Temperature (celsius)	25.3	28.4	-49	-100
pH (su)	7.34	7.12	7.21	7.23
Specific Conductance (uS)	575	651	529	653
Eh (mv)	-21	33	29.1	28.5
Turbidity (VISUAL/ntu)	10	9	9	10

NOTES:

*CELL A was not sampled during Q3 2013 due to mechanical malfunction.

Blank cells indicate sample was not analyzed for this parameter

Concentrations in ug/L unless otherwise noted

NA = Not applicable

NS = Not sampled

NM = Not measured (analyzed)

U = Analyte not detected; detection limit shown

H = Sample was prepped or analyzed outside of holding time

B = Analyte detected less than CRDL

CRDL =Contract required detection limit

E = Estimated by laboratory

J = Estimated by data validator

N = Spiked sample recovery not within control limits

R = Result rejected due to poor matrix spike recovery

Table 5
Summary of the Analytical Results at the Phase II Cells A and B Secondary Leachate
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	CELL A 9/29/2017	CELL B 9/29/2017	CELL A 12/8/2017	CELL B 12/8/2017
Volatile Organic Compounds				
1,1,1,2-Tetrachloroethane				
1,1,1-Trichloroethane				
1,1,2,2-Tetrachloroethane				
1,1,2-Trichloroethane				
1,1-Dichloroethane				
1,1-Dichloroethene				
1,2,3-Trichloropropane				
1,2-Dibromo-3-Chloropropane				
1,2-Dibromoethane				
1,2-Dichlorobenzene				
1,2-Dichloroethane				
1,2-Dichloropropane				
1,4-Dichlorobenzene				
2-Butanone				
2-Hexanone				
4-Methyl-2-Pentanone				
Acetone				
Acrylonitrile				
Benzene				
Bromochloromethane				
Bromodichloromethane				
Bromoform				
Bromomethane				
Carbon Disulfide				
Carbon Tetrachloride				
Chlorobenzene				
Chloroethane				
Chloroform				
Chloromethane				
cis-1,2-Dichloroethylene				
cis-1,3-Dichloropropene				
Dibromochloromethane				
Dibromomethane				
Ethylbenzene				
Iodomethane				
Methylene Chloride				
Styrene				
Tetrachloroethene				
Toluene				
trans-1,2-Dichloroethylene				
trans-1,3-Dichloropropene				
trans-1,4-Dichloro-2-Butene				
Trichloroethene				
Trichlorofluoromethane				
Vinyl Acetate				
Vinyl Chloride				
Xylene (total)mp				
Xylene (total)o				

NOTES:

Blank cells indicate sample was not analyzed for this parameter

Concentrations in ug/L unless otherwise noted

U = Compound not detected; detection limit shown

B = Analyte detected in laboratory blank

* = LCS, LCSD, MS or MSD exceeds the control limit

J = Estimated concentration less than detection limit

Table 5
Summary of the Analytical Results at the Phase II Cells A and B Secondary Leachate
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	CELL A 9/29/2017	CELL B 9/29/2017	CELL A 12/8/2017	CELL B 12/8/2017
Inorganic Parameters				
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium	0.2 U	6.753	0.2 U	0.2 U
Calcium	133000	143000	146000	138000
Chromium				
Cobalt				
Copper				
Iron	309	2960	152	496
Lead	13.86	28.99	3.476	1.985
Magnesium	36200	46700	31300	37600
Manganese	671.7	3046	1406	2415
Mercury				
Nickel				
Potassium	1800	1810	1510	1650
Selenium				
Silver				
Sodium	94800	126000	93800	119000
Thallium				
Vanadium				
Zinc				
Leachate Indicator Parameters				
Alkalinity	562000	636000	611000	650000
Ammonia	24 J	146	198	70 J
Biochemical Oxygen Demand	2000 U	2000 U	2000 U	2000 U
Bromide	259	220	192	135 J
Chemical Oxygen Demand	12000	30000	11000	3800 J
Chloride	8530	8610	7380	7960
Color (units)				
Cyanide				
Hardness as CaCO3 (mg/L)	481.5	549.6	494	500.6
Hexavalent Chromium				
Nitrate	100 U	100 U	100 U	100 U
Phenols	30 U	29 J	30 U	11 J
Sulfate	99000	146000	110000	129000
Total Dissolved Solids	720000	880000	760000	810000
Total Kjeldahl Nitrogen	554	702	365	408
Total Organic Carbon	5940	3640	2810	2540
Field Parameters				
Temperature (celsius)	27.3	28	28.2	28.4
pH (su)	7.68	7.2	7.32	7.29
Specific Conductance (uS)	536	652	585	633
Eh (mv)	-50	-30	-50	22
Turbidity (VISUAL/ntu)	clear	clear	clear	clear

NOTES:

*CELL A was not sampled during Q3 2013 due to mechanical malfunction.

Blank cells indicate sample was not analyzed for this parameter

Concentrations in ug/L unless otherwise noted

NA = Not applicable

NS = Not sampled

NM = Not measured (analyzed)

U = Analyte not detected; detection limit shown

H = Sample was prepped or analyzed outside of holding time

B = Analyte detected less than CRDL

CRDL =Contract required detection limit

E = Estimated by laboratory

J = Estimated by data validator

N = Spiked sample recovery not within control limits

R = Result rejected due to poor matrix spike recovery

Table 6
Summary of the Analytical Results at the Phase II Cells C and D Secondary Leachate
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	CELL C 10/22/2012	CELL D 10/22/2012	CELL C 11/20/2012	CELL D 11/20/2012	CELL C 2/25/2013	CELL D 2/25/2013
Volatile Organic Compounds	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1,1,1,2-Tetrachloroethane			1 U	1 U		
1,1,1-Trichloroethane			1 U	1 U		
1,1,2,2-Tetrachloroethane			1 U	1 U		
1,1,2-Trichloroethane			1 U	1 U		
1,1-Dichloroethane			1 U	0.49 J		
1,1-Dichloroethene			2.9	18		
1,2,3-Trichloropropane			1 U	1 U		
1,2-Dibromo-3-Chloropropane			1 U	1 U		
1,2-Dibromoethane			1 U	1 U		
1,2-Dichlorobenzene			1 U	1 U		
1,2-Dichloroethane			1 U	0.34 J		
1,2-Dichloropropane			1 U	1 U		
1,4-Dichlorobenzene			1 U	1 U		
2-Butanone			10 U	12		
2-Hexanone			5 U	5 U		
4-Methyl-2-Pentanone			5 U	5 U		
Acetone			10 U	12		
Acrylonitrile			5 U	5 U		
Benzene			1 U	1 U		
Bromochloromethane			1 U	1 U		
Bromodichloromethane			1 U	1 U		
Bromoform			1 U	1 U		
Bromomethane			1 U	1 U		
Carbon Disulfide			0.21 J	0.65 J		
Carbon Tetrachloride			1 U	1 U		
Chlorobenzene			1 U	1 U		
Chloroethane			1 U	1 U		
Chloroform			1 U	1 U		
Chloromethane			1 U	1 U		
cis-1,2-Dichloroethylene			1 U	1 U		
cis-1,3-Dichloropropene			1 U	1 U		
Dibromochloromethane			1 U	1 U		
Dibromomethane			1 U	1 U		
Ethylbenzene			1 U	1 U		
Iodomethane			1 U	1 U		
Methylene Chloride			1 U	1 U		
Styrene			1 U	1 U		
Tetrachloroethene			1 U	1 U		
Toluene			1 U	1 U		
trans-1,2-Dichloroethylene			1 U	1 U		
trans-1,3-Dichloropropene			1 U	1 U		
trans-1,4-Dichloro-2-Butene			5 U	5 U		
Trichloroethene			1 U	1 U		
Trichlorofluoromethane			3.9	45		
Vinyl Acetate			5 U	5 U		
Vinyl Chloride			1 U	1 U		
Xylene (total)			2 U	2 U		
Xylene (total)mp			2 U	2 U		
Xylene (total)o			1 U	1 U		

NOTES:
Blank cells indicate sample was not analyzed for this parameter
Concentrations in ug/L unless otherwise noted
U = Compound not detected; detection limit shown
B = Analyte detected in laboratory blank
* = LCS, LCSD, MS or MSD exceeds the control limit
J = Estimated concentration less than detection limit

Table 6
Summary of the Analytical Results at the Phase II Cells C and D Secondary Leachate
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	CELL C 10/22/2012	CELL D 10/22/2012	CELL C 11/20/2012	CELL D 11/20/2012	CELL C 2/25/2013	CELL D 2/25/2013
Inorganic Parameters						
Aluminum			200 U	200 U		
Antimony			20 U	20 U		
Arsenic			10 U	10 U		
Barium			51	200		
Beryllium			2 U	2 U		
Boron			13 J	41		
Cadmium	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Calcium	120000	278000	133000	197000	147000	165000
Chromium			1.1 J	1.9 J		
Cobalt			4 U	8.6		
Copper			10 U	10 U		
Iron	32 J	7400	20 J	4500	21 J	490
Lead	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Magnesium	26200	60800	28400	45500	40200	41900
Manganese	4.9 B	8300 B	1.9 J	6400	5	3000
Mercury			0.2 U	0.2 U		
Nickel			15	9.6 J		
Potassium	1300 B	5400 B	1300	3500	1600	2300
Selenium			15 U	15 U		
Silver			3 U	3 U		
Sodium	26800 B	66900 B	30200	39600	53800	40100
Thallium			20 U	20 U		
Vanadium			5 U	3.1 J		
Zinc			12	4.4 J		
Leachate Indicator Parameters						
Alkalinity as CaCO3 (mg/L)	355000	903000	381000	671000	411000	588000
Ammonia	20 U	6000	20 U	440	20 U	110
Biochemical Oxygen Demand	2000 U	539000 H	2000 U	2000 U	2000 U	2000 U
Bromide	1000 U	200 U	200 U	200 U	100 J	200 U
Chemical Oxygen Demand	21600 B	######## B	10000 U	10,000 U	10000 U	9,800 J B
Chloride	25200	186000	24900	10600	40400	10800
Color (units)			5000	100000		
Cyanide			10 U	10 U		
Hardness as CaCO3 (mg/L)	400	1,040	420	660	560	600
Hexavalent Chromium			10 U	10 U		
Nitrate	60	31 J	41 J	50	23 J	80
Phenols	10.0 U	320	10.0 U	52	10.0 U	10 U
Sulfate	84300	319000	92300	84500	166000	92000
Total Dissolved Solids	586000	1560000	558000	802000	732000	722000
Total Kjeldahl Nitrogen	180 J	12600	520	880	200 U	300
Total Organic Carbon	1000 U	502000	620 J	1800	2600	2200
Field Parameters						
Temperature (celsius)					18.0	18.5
pH (su)					7.11	7.08
Specific Conductance (uS)					492	495
Eh (mv)					10	11
Turbidity (VISUAL/ntu)					8	8

NOTES:
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NA = Not applicable
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H = Sample was prepped or analyzed outside of holding time
B = Analyte detected less than CRDL
CRDL =Contract required detection limit
E = Estimated by laboratory
J = Estimated by data validator
N = Spiked sample recovery not within control limits
R = Result rejected due to poor matrix spike recovery

Table 6
Summary of the Analytical Results at the Phase II Cells C and D Secondary Leachate
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	CELL C 5/28/2013	CELL D 5/28/2013	CELL C 9/4/2013	CELL D 9/4/2013	CELL C 11/18/2013	CELL D 11/18/2013
Volatile Organic Compounds	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1,1,1,2-Tetrachloroethane					1 U	1 U
1,1,1-Trichloroethane					1 U	1 U
1,1,2,2-Tetrachloroethane					1 U	1 U
1,1,2-Trichloroethane					1 U	1 U
1,1-Dichloroethane					1 U	4.5
1,1-Dichloroethene					3.9	62
1,2,3-Trichloropropane					1 U	1 U
1,2-Dibromo-3-Chloropropane					1 U	1 U
1,2-Dibromoethane					1 U	1 U
1,2-Dichlorobenzene					1 U	1 U
1,2-Dichloroethane					1 U	1 U
1,2-Dichloropropane					1 U	1 U
1,4-Dichlorobenzene					1 U	1 U
2-Butanone					10 U	10 U
2-Hexanone					5 U	5 U
4-Methyl-2-Pentanone					5 U	5 U
Acetone					10 U	10 U
Acrylonitrile					5 U	5 U
Benzene					1 U	1 U
Bromochloromethane					1 U	1 U
Bromodichloromethane					1 U	1 U
Bromoform					1 U	1 U
Bromomethane					1 U	1 U
Carbon Disulfide					1 U	1 U
Carbon Tetrachloride					1 U	1 U
Chlorobenzene					1 U	1 U
Chloroethane					1 U	1 U
Chloroform					1 U	1 U
Chloromethane					1 U	1 U
cis-1,2-Dichloroethylene					1 U	1 U
cis-1,3-Dichloropropene					1 U	1 U
Dibromochloromethane					1 U	1 U
Dibromomethane					1 U	1 U
Ethylbenzene					1 U	1 U
Iodomethane					1 U	1 U
Methylene Chloride					1 U	2.3
Styrene					1 U	1 U
Tetrachloroethene					1 U	1 U
Toluene					1 U	1 U
trans-1,2-Dichloroethylene					5 U	5 U
trans-1,3-Dichloropropene					1 U	1 U
trans-1,4-Dichloro-2-Butene					1 U	1 U
Trichloroethene					1 U	1 U
Trichlorofluoromethane					4.1	6.4
Vinyl Acetate					5 U	5 U
Vinyl Chloride					1 U	59
Xylene (total)					2 U	2 U
Xylene (total)mp					2 U	2.0 U
Xylene (total)o					1 U	1.0 U

NOTES:
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Concentrations in ug/L unless otherwise noted
U = Compound not detected; detection limit shown
B = Analyte detected in laboratory blank
* = LCS, LCSD, MS or MSD exceeds the control limit
J = Estimated concentration less than detection limit

Table 6
Summary of the Analytical Results at the Phase II Cells C and D Secondary Leachate
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	CELL C 5/28/2013	CELL D 5/28/2013	CELL C 9/4/2013	CELL D 9/4/2013	CELL C 11/18/2013	CELL D 11/18/2013
Inorganic Parameters						
Aluminum					200 U	200 U
Antimony					20 U	20 U
Arsenic					10 U	12.8
Barium					74	324
Beryllium					2 U	2 U
Boron					19.5 J	77.1
Cadmium	1.0 U	1.0 U	1 U	1 U	1 U	1 U
Calcium	174000	182000	122000	203000	153000	188000
Chromium					1.2 J	2.4 J
Cobalt					4 U	6.6
Copper					2.4 J	1.6 J
Iron	29.8	657	50 U	12100	50 U	7740
Lead	5.0 U	5.0 U	5 U	4.6 J	5 U	5 U
Magnesium	48100	47600	32000	62600	39800	52700
Manganese	4.7	2840	3.4	8570	111	6380
Mercury					0.2 U	0.2 U
Nickel					4.6 J	4 J
Potassium	1780	2220	1380 B	5060 B	1500	3660
Selenium					15 U	15 U
Silver					3 U	3 U
Sodium	69900	42500	48200 B	74200 B	56200	53000
Thallium					20 U	20 U
Vanadium					5 U	5 U
Zinc					8.8 J	2.7 J
Leachate Indicator Parameters						
Alkalinity as CaCO3 (mg/L)	425000	604000	383000	805000	433000	640000
Ammonia	40	130	20 U	690	20 U	390
Biochemical Oxygen Demand	2000 U	2000 U	2000 U	3900	2000 U	2000 U
Bromide	92 J	200 U	200 U	110 J	120 J	130 J
Chemical Oxygen Demand	10,000 U	10,000 U	7,100 J	19,400	10,000 U	6,700 UJ B
Chloride	48000	13100	19600	38700	20100	19800
Color (units)					5	20
Cyanide					10 U	10 U
Hardness as CaCO3 (mg/L)	620	680	450	810	520	740
Hexavalent Chromium					10 U	10 U
Nitrate	750	78	310	60	570	50 U
Phenols	10 U	10 U	10 U	10 U	10 U	10 U
Sulfate	271000	126000	155000	117000	167000	91800
Total Dissolved Solids	854000	757000	586000	1150000	705000	792000
Total Kjeldahl Nitrogen	240	350	270	1800 B	150 UJ	800 U
Total Organic Carbon	2900	2600	1800	7200	1700	3500
Field Parameters						
Temperature (celsius)	20.4	19.4	22.0	21.0	23.0	21.0
pH (su)	7.03	7.06	7.04	7.10	7.07	7.12
Specific Conductance (uS)	646	616	525	716	489	551
Eh (mv)	5	-5	8	-8	6	-10
Turbidity (VISUAL/ntu)	8	10	10	10	7	9

NOTES:
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Concentrations in ug/L unless otherwise noted
NA = Not applicable
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U = Analyte not detected; detection limit shown
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B = Analyte detected less than CRDL
CRDL =Contract required detection limit
E = Estimated by laboratory
J = Estimated by data validator
N = Spiked sample recovery not within control limits
R = Result rejected due to poor matrix spike recovery

Table 6
Summary of the Analytical Results at the Phase II Cells C and D Secondary Leachate
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	CELL C 3/27/2014	CELL D 3/27/2014	CELL C 5/23/2014	CELL D 5/23/2014	CELL C 9/8/2014	CELL D 9/8/2014
Volatile Organic Compounds	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1,1,1,2-Tetrachloroethane			1 U	1 U		
1,1,1-Trichloroethane			1 U	1 U		
1,1,2,2-Tetrachloroethane			1 U	1 U		
1,1,2-Trichloroethane			1 U	1 U		
1,1-Dichloroethane			1 U	2.7		
1,1-Dichloroethene			6.7	35		
1,2,3-Trichloropropane			1 U	1 U		
1,2-Dibromo-3-Chloropropane			1 U	1 U		
1,2-Dibromoethane			1 U	1 U		
1,2-Dichlorobenzene			1 U	1 U		
1,2-Dichloroethane			1 U	1 U		
1,2-Dichloropropane			1 U	1 U		
1,4-Dichlorobenzene			1 U	1 U		
2-Butanone			10 U	10 U		
2-Hexanone			5 U	5 U		
4-Methyl-2-Pentanone			5 U	5 U		
Acetone			10 U	10 U		
Acrylonitrile			5 U	5 U		
Benzene			1 U	1 U		
Bromochloromethane			1 U	1 U		
Bromodichloromethane			1 U	1 U		
Bromoform			1 U	1 U		
Bromomethane			1 U	1 U		
Carbon Disulfide			0.57 J	0.46 J		
Carbon Tetrachloride			1 U	1 U		
Chlorobenzene			1 U	1 U		
Chloroethane			1 U	1 U		
Chloroform			1 U	1 U		
Chloromethane			1 U	1 U		
cis-1,2-Dichloroethylene			1 U	1 U		
cis-1,3-Dichloropropene			1 U	1 U		
Dibromochloromethane			1 U	1 U		
Dibromomethane			1 U	1 U		
Ethylbenzene			1 U	1 U		
Iodomethane			1 U	1 U		
Methylene Chloride			1 U	1 U		
Styrene			1 U	1 U		
Tetrachloroethene			1 U	1 U		
Toluene			1 U	1 U		
trans-1,2-Dichloroethylene			1 U	1 U		
trans-1,3-Dichloropropene			1 U	1 U		
trans-1,4-Dichloro-2-Butene			5 U	5 U		
Trichloroethene			1 U	1 U		
Trichlorofluoromethane			3.8	1 U		
Vinyl Acetate			5 U *	5 U *		
Vinyl Chloride			1 U	14		
Xylene (total)			2 U	2 U		
Xylene (total)mp			1 U	1 U		
Xylene (total)o			2 U	2 U		

NOTES:
Blank cells indicate sample was not analyzed for this parameter
Concentrations in ug/L unless otherwise noted
U = Compound not detected; detection limit shown
B = Analyte detected in laboratory blank
* = LCS, LCSD, MS or MSD exceeds the control limit
J = Estimated concentration less than detection limit

Table 6
Summary of the Analytical Results at the Phase II Cells C and D Secondary Leachate
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	CELL C 3/27/2014	CELL D 3/27/2014	CELL C 5/23/2014	CELL D 5/23/2014	CELL C 9/8/2014	CELL D 9/8/2014
Inorganic Parameters						
Aluminum			200 U	200 U		
Antimony			20 U	20 U		
Arsenic			10 U	8.3 J		
Barium			64.4	203		
Beryllium			2 U	2 U		
Boron			21.4	31.7		
Cadmium	0.26 J	1 U	1 U	1 U	0.5 U	0.5 U
Calcium	132000 B	159000 B	146000	156000 ^	124000	148000
Chromium			4 U	4 U		
Cobalt			4 U	3.2 J		
Copper			2.2 J	10 U		
Iron	27.1 J B	4360 B	36.4 J	4400	130 U	2840
Lead	5 U	5 U	5 U	5 U	2 U	2 U
Magnesium	29200 B	34800 B	32700	34800 ^	10100	24200
Manganese	166 B	4050 B	852	3830 ^	730	2492
Mercury			0.2 U	0.2 U		
Nickel			2.7 J	3.1 J		
Potassium	1570	2460	1530	2230	1230	1820
Selenium			15 U	15 U		
Silver			3 U	3 U		
Sodium	51100 B	45800 B	52900	43300	43600	36000
Thallium			20 U	20 U		
Vanadium			5 U	5 U		
Zinc			3.9 J	1.5 J		
Leachate Indicator Parameters						
Alkalinity as CaCO3 (mg/L)	436000	583000	441000 B	558000	420000	520000
Ammonia	20 U	290	20 U	250	21 U	283
Biochemical Oxygen Demand	2000 U	2000 U	2000 U	2000	2000 U	2000 U
Bromide	200 U	200 U	200 U	200	163 U	163 U
Chemical Oxygen Demand	8,800 J	12,600 B	6200 J	5,600	7300 J	9,500 J
Chloride	12400	11900	20400	15000	8710	15400
Color (units)			5000	20000		
Cyanide			10 U	10 J		
Hardness as CaCO3 (mg/L)	450	570	470	560	352	471
Hexavalent Chromium			10 U	10		
Nitrate	36 J	50 U	50 U	50	21 U	21 U
Phenols	10 U	10 U	160	10	9 U	38
Sulfate	104000	63600	123000	60600	108000	71800
Total Dissolved Solids	564000	660000	654000	686000	530000	590000
Total Kjeldahl Nitrogen	200 U	580	180 J	570	140 J	470
Total Organic Carbon	2200	2300	1300	1900	4930	6300
Field Parameters						
Temperature (celsius)	26.4	25.9	29.0	29.0	33.0	33.0
pH (su)	7.05	7.08	7.04	7.06	7.05	7.04
Specific Conductance (uS)	390	423	625	611	956	1127
Eh (mv)	78	-79	33	-101	-68	-102
Turbidity (VISUAL/ntu)	9	10	12	13	10	11

NOTES:
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NA = Not applicable
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B = Analyte detected less than CRDL
CRDL =Contract required detection limit
E = Estimated by laboratory
J = Estimated by data validator
N = Spiked sample recovery not within control limits
R = Result rejected due to poor matrix spike recovery

Table 6
Summary of the Analytical Results at the Phase II Cells C and D Secondary Leachate
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	CELL C 12/1/2014	CELL D 12/1/2014	CELL C 3/4/2015	CELL D 3/4/2015	CELL C 5/21/2015	CELL D 5/21/2015
Volatile Organic Compounds	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1,1,1,2-Tetrachloroethane						
1,1,1-Trichloroethane						
1,1,2,2-Tetrachloroethane						
1,1,2-Trichloroethane						
1,1-Dichloroethane						
1,1-Dichloroethene						
1,2,3-Trichloropropane						
1,2-Dibromo-3-Chloropropane						
1,2-Dibromoethane						
1,2-Dichlorobenzene						
1,2-Dichloroethane						
1,2-Dichloropropane						
1,4-Dichlorobenzene						
2-Butanone						
2-Hexanone						
4-Methyl-2-Pentanone						
Acetone						
Acrylonitrile						
Benzene						
Bromochloromethane						
Bromodichloromethane						
Bromoform						
Bromomethane						
Carbon Disulfide						
Carbon Tetrachloride						
Chlorobenzene						
Chloroethane						
Chloroform						
Chloromethane						
cis-1,2-Dichloroethylene						
cis-1,3-Dichloropropene						
Dibromochloromethane						
Dibromomethane						
Ethylbenzene						
Iodomethane						
Methylene Chloride						
Styrene						
Tetrachloroethene						
Toluene						
trans-1,2-Dichloroethylene						
trans-1,3-Dichloropropene						
trans-1,4-Dichloro-2-Butene						
Trichloroethene						
Trichlorofluoromethane						
Vinyl Acetate						
Vinyl Chloride						
Xylene (total)						
Xylene (total)mp						
Xylene (total)o						

NOTES:
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Concentrations in ug/L unless otherwise noted
U = Compound not detected; detection limit shown
B = Analyte detected in laboratory blank
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J = Estimated concentration less than detection limit

Table 6
Summary of the Analytical Results at the Phase II Cells C and D Secondary Leachate
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	CELL C 12/1/2014	CELL D 12/1/2014	CELL C 3/4/2015	CELL D 3/4/2015	CELL C 5/21/2015	CELL D 5/21/2015
Inorganic Parameters						
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Boron						
Cadmium	2 U	2 U	0.2 U	0.2 U	0.2 U	0.2 U
Calcium	122000	139000	119000	138000	120000	140000
Chromium						
Cobalt						
Copper						
Iron	500 U	2660	1130	1740	2350	1980
Lead	10 U	10 U	0.572 J	1 U	1 U	1 U
Magnesium	29800	35500	13200	11300	26000	27000
Manganese	704.8	2912	1719	3008	1694	2612
Mercury						
Nickel						
Potassium	1620	2310	509	1300	1430	1770
Selenium						
Silver						
Sodium	46400	35900	47400	18100	54000	40500
Thallium						
Vanadium						
Zinc						
Leachate Indicator Parameters						
Alkalinity as CaCO3 (mg/L)	430000	518000	427000	509000	446000	500000
Ammonia	75 U	294	115	349	61 J	290
Biochemical Oxygen Demand	2100	2000 U	2000 U	2000 U	2000 U	2000 U
Bromide	50 U	50 U	67	63	48 J	66
Chemical Oxygen Demand	10000 U	10,000 U	10000 U	10,000 U	10000	7800 J
Chloride	10300	11300	9380	13200	15000	16400
Color (units)						
Cyanide						
Hardness as CaCO3 (mg/L)	426	494	351	392	420	450
Hexavalent Chromium						
Nitrate	100 U	100 U	22 J	100 U	100 U	100 U
Phenols	30 U	30 U	9 J	97	18 J	7 J
Sulfate	98300	58900	56100	43400	98100	46500
Total Dissolved Solids	540000	590000	540000	620000	530000	580000
Total Kjeldahl Nitrogen	300 U	524	407	484	222 J	532
Total Organic Carbon	2040	2150	4150	2640	2580	2670
Field Parameters						
Temperature (celsius)	31.0	30.0	28.0	27.0	30.5	31
pH (su)	7.05	7.07	7.08	7.10	6.96	6.99
Specific Conductance (uS)	954	1068	957	1070	1030	1043
Eh (mv)	-41	-103	-114	-109	-175	-182
Turbidity (VISUAL/ntu)	9	10	10	10	9	10

NOTES:
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Concentrations in ug/L unless otherwise noted
NA = Not applicable
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Table 6
Summary of the Analytical Results at the Phase II Cells C and D Secondary Leachate
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	CELL C 9/15/2015	CELL D 9/15/2015	CELL C 12/14/2015	CELL D 12/14/2015	CELL C 3/28/2016	CELL D 3/28/2016
Volatile Organic Compounds	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1,1,1,2-Tetrachloroethane	NA	NA				
1,1,1-Trichloroethane	0.7 U	0.7 U				
1,1,2,2-Tetrachloroethane	0.14 U	0.14 U				
1,1,2-Trichloroethane	0.5 U	0.5 U				
1,1-Dichloroethane	0.7 U	1.1 J				
1,1-Dichloroethene	0.14 U	0.14 U				
1,2,3-Trichloropropane	NA	NA				
1,2-Dibromo-3-Chloropropane	0.7 U	0.7 U				
1,2-Dibromoethane	0.65 U	0.65 U				
1,2-Dichlorobenzene	0.7 U	0.7 U				
1,2-Dichloroethane	0.13 U	0.13 U				
1,2-Dichloropropane	0.13 U	0.13 U				
1,4-Dichlorobenzene	0.7 U	0.7 U				
2-Butanone	1.9 U	1.9 U				
2-Hexanone	1 U	1 U				
4-Methyl-2-Pentanone	1 U	1 U				
Acetone	1.5 U	1.5 U				
Acrylonitrile	NA	NA				
Benzene	0.35 J	0.23 J				
Bromochloromethane	0.7 U	0.7 U				
Bromodichloromethane	0.19 U	0.19 U				
Bromoform	0.65 U	0.65 U				
Bromomethane	0.7 U	0.7 U				
Carbon Disulfide	1 U	1 U				
Carbon Tetrachloride	0.13 U	0.13 U				
Chlorobenzene	0.7 U	0.7 U				
Chloroethane	0.7 U	0.7 U				
Chloroform	0.7 U	0.7 U				
Chloromethane	0.7 U	0.7 U				
cis-1,2-Dichloroethylene	0.7 U	0.7 U				
cis-1,3-Dichloropropene	0.14 U	0.14 U				
Dibromochloromethane	0.15 U	0.15 U				
Dibromomethane	NA	NA				
Ethylbenzene	0.7 U	0.7 U				
Iodomethane	NA	NA				
Methylene Chloride	0.7 U	0.7 U				
Styrene	0.7 U	0.7 U				
Tetrachloroethene	0.18 U	0.18 U				
Toluene	U	0.7 U				
trans-1,2-Dichloroethylene	NA	NA				
trans-1,3-Dichloropropene	0.7 U	0.7 U				
trans-1,4-Dichloro-2-Butene	0.16 U	0.16 U				
Trichloroethene	0.18 U	0.18 U				
Trichlorofluoromethane	0.7 U	0.7 U				
Vinyl Acetate	NA	NA				
Vinyl Chloride	0.28 J	0.13 J				
Xylene (total)	1.4	1.4				
Xylene (total)mp	0.7 U	0.7 U				
Xylene (total)o	0.7 U	0.7 U				

NOTES:
Blank cells indicate sample was not analyzed for this parameter
Concentrations in ug/L unless otherwise noted
U = Compound not detected; detection limit shown
B = Analyte detected in laboratory blank
* = LCS, LCSD, MS or MSD exceeds the control limit
J = Estimated concentration less than detection limit

Table 6
Summary of the Analytical Results at the Phase II Cells C and D Secondary Leachate
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	CELL C 9/15/2015	CELL D 9/15/2015	CELL C 12/14/2015	CELL D 12/14/2015	CELL C 3/28/2016	CELL D 3/28/2016
Inorganic Parameters						
Aluminum	3.68 J	1.95 J				
Antimony	0.18 J	0.16 J				
Arsenic	4.18	1.47				
Barium	62.81	150.8				
Beryllium	0.15 U	0.15 U				
Boron	25 J	37				
Cadmium	0.05 U	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U
Calcium	110000	130000	120000	130000	118000	118000
Chromium	1.81	0.95 J				
Cobalt	2.38	0.82				
Copper	0.26 U	0.26 U				
Iron	2430	448	3120	65	2980	38.5 J
Lead	0.12 U	0.12 U	1.6	0.001 U	1 U	1 U
Magnesium	22000	30000	24000	28000	28200	27000
Manganese	1886	2572	2337	2911	1504	2327
Mercury	0.06 U	0.06 U				
Nickel	2.29	1.11				
Potassium	1340	1880	1390	1890	1340	2140
Selenium	1 U	1 U				
Silver	0.07 U	0.07 U				
Sodium	49700	49400	67900	51000	59000	43500
Thallium	0.05 U	0.05 U				
Vanadium	0.65 J	0.55 U				
Zinc	2.75 J	4.37 J				
Leachate Indicator Parameters						
Alkalinity as CaCO3 (mg/L)	416000	517000	440000	502000	464000	505000
Ammonia	129	296	185	289	236	296
Biochemical Oxygen Demand	2000 U	2000 U	2800	2000 U	2000 U	2000 U
Bromide	76	95	44 J	53	60	63
Chemical Oxygen Demand	3500 U	3,500 U	19	6,800 J	12000	12,000
Chloride	12600	17000	15.4	15100	16700	15700
Color (units)	54000	13000				
Cyanide	1 U	1 J				
Hardness as CaCO3 (mg/L)	370000	460000	400	440	410	406
Hexavalent Chromium	3 U	3 U				
Nitrate	30 J	34 J	100 U	100 U	100 U	100 U
Phenols	15 J	17 J	8 J	30 U	12 J	30 U
Sulfate	49200	37800	64100	36500	74400	42300
Total Dissolved Solids	500000	580000	520000	550000	590000	600000
Total Kjeldahl Nitrogen	291 J	508	312	470	368	573
Total Organic Carbon	2670	2750	2400	2380	3130	2860
Field Parameters						
Temperature (celsius)	35.0	32.0	35.0	32.0	27.9	33.0
pH (su)	6.69	6.74	7.10	6.93	6.76	6.88
Specific Conductance (uS)	436	506	470	490	490	486
Eh (mv)	-68	20	-55	129	-48	96
Turbidity (VISUAL/ntu)	clear	clear	5	6	10	10

NOTES:
Blank cells indicate sample was not analyzed for this parameter
Concentrations in ug/L unless otherwise noted
NA = Not applicable
NM = Not measured (analyzed)
U = Analyte not detected; detection limit shown
H = Sample was prepped or analyzed outside of holding time
B = Analyte detected less than CRDL
CRDL =Contract required detection limit
E = Estimated by laboratory
J = Estimated by data validator
N = Spiked sample recovery not within control limits
R = Result rejected due to poor matrix spike recovery

Table 6
Summary of the Analytical Results at the Phase II Cells C and D Secondary Leachate
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	CELL C 6/20/2016	CELL D 6/20/2016	CELL C 10/6/2016	CELL D 10/6/2016	CELL C 12/7/2016	CELL D 12/7/2016
Volatile Organic Compounds	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1,1,1,2-Tetrachloroethane					2.5 U	2.5 U
1,1,1-Trichloroethane					2.5 U	2.5 U
1,1,2,2-Tetrachloroethane					0.5 U	0.5 U
1,1,2-Trichloroethane					1.5 U	1.5 U
1,1-Dichloroethane					2.5 U	2.5 U
1,1-Dichloroethene					0.5 U	0.5 U
1,2,3-Trichloropropane					2.5 U	2.5 U
1,2-Dibromo-3-Chloropropane					2.5 U	2.5 U
1,2-Dibromoethane					2 U	2 U
1,2-Dichlorobenzene					2.5 U	2.5 U
1,2-Dichloroethane					0.15 J	0.5 U
1,2-Dichloropropane					1 U	1 U
1,4-Dichlorobenzene					2.5 U	2.5 U
2-Butanone					5 U	5 U
2-Hexanone					5 U	5 U
4-Methyl-2-Pentanone					5 U	5 U
Acetone					5 U	5 U
Acrylonitrile					5 U	5 U
Benzene					0.67	0.5 U
Bromochloromethane					2.5 U	2.5 U
Bromodichloromethane					0.5 U	0.5 U
Bromoform					2 U	2 U
Bromomethane					2.5 U	2.5 U
Carbon Disulfide					5 U	5 U
Carbon Tetrachloride					0.5 U	0.5 U
Chlorobenzene					2.5 U	2.5 U
Chloroethane					2.5 U	2.5 U
Chloroform					2.5 U	2.5 U
Chloromethane					2.5 U	2.5 U
cis-1,2-Dichloroethylene					2.5 U	2.5 U
cis-1,3-Dichloropropene					0.5 U	0.5 U
Dibromochloromethane					0.5 U	0.5 U
Dibromomethane					5 U	5 U
Ethylbenzene					2.5 U	2.5 U
Iodomethane					5 U	5 U
Methylene Chloride					2.5 U	2.5 U
Styrene					2.5 U	2.5 U
Tetrachloroethene					0.5 U	0.5 U
Toluene					2.5 U	2.5 U
trans-1,2-Dichloroethylene					2.5 U	2.5 U
trans-1,3-Dichloropropene					2.5 U	2.5 U
trans-1,4-Dichloro-2-Butene					0.5 U	0.5 U
Trichloroethene					0.5 U	0.5 U
Trichlorofluoromethane					2.5 U	2.5 U
Vinyl Acetate					5 U	5 U
Vinyl Chloride					0.08 J	1 U
Xylene (total)					5 U	5 U
Xylene (total)mp					2.5 U	2.5 U
Xylene (total)o					2.5 U	2.5 U

NOTES:
Blank cells indicate sample was not analyzed for this parameter
Concentrations in ug/L unless otherwise noted
U = Compound not detected; detection limit shown
B = Analyte detected in laboratory blank
* = LCS, LCSD, MS or MSD exceeds the control limit
J = Estimated concentration less than detection limit

Table 6
Summary of the Analytical Results at the Phase II Cells C and D Secondary Leachate
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	CELL C 6/20/2016	CELL D 6/20/2016	CELL C 10/6/2016	CELL D 10/6/2016	CELL C 12/7/2016	CELL D 12/7/2016
Inorganic Parameters						
Aluminum					11	10 U
Antimony					0.7 J	4 U
Arsenic					9	1.8
Barium					77.2	143.5
Beryllium					0.5 U	0.5 U
Boron					36.4	41.3
Cadmium	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Calcium	127000	135000	120000	134000	120000	130000
Chromium					0.5 J	0.4 J
Cobalt					1.2	0.7
Copper					1 U	1 U
Iron	3630	82	2980	49.1 J	3350	103
Lead	1 U	1 U	1 U	1 U	1 U	1 U
Magnesium	27500	30100	23300	28300	27000	30000
Manganese	1709	2530	1512	2285	1587	2479
Mercury					0.2 U	0.2 U
Nickel					2.1	1 J
Potassium	1700	2210	1780	2140	1690	2140
Selenium					5 U	5 U
Silver					0.4 U	0.4 U
Sodium	62200	53200	55900	47800	61400	51000
Thallium					0.5 U	0.5 U
Vanadium					5 U	5 U
Zinc					6.3 J	5.6 J
Leachate Indicator Parameters						
Alkalinity as CaCO3 (mg/L)	436000	495000	440000	431000	450000	485000
Ammonia	138	343	206	2300	188	266
Biochemical Oxygen Demand	2000 U	2000	2000 U	2000 U	2000 U	2000 U
Bromide	81	90	52	67	89	103
Chemical Oxygen Demand	5400 J	17000	8500 J	8500 J	8200 J	5,800 J
Chloride	26600	16500	10900	17000	19500	15700
Color (units)					44	6
Cyanide					2 J	1 J
Hardness as CaCO3 (mg/L)	430	462			410	450
Hexavalent Chromium					10 U	10 U
Nitrate	100 U	20	32 J	230 J	100 U	100 U
Phenols	15 J	30	30 U	30 U	30 U	30 U
Sulfate	75700	48700	45400	46700	63400	47500
Total Dissolved Solids	590000	590000	580000	640000	550000	550000
Total Kjeldahl Nitrogen	379	528	691	528	409	436
Total Organic Carbon	2740	2400	2400	2210	1700	1520
Field Parameters						
Temperature (celsius)	35.1	34.6			35.7	31.2
pH (su)	6.92	7			6.93	7.01
Specific Conductance (uS)	498	494			475	463
Eh (mv)	-67	67			-46	92
Turbidity (VISUAL/ntu)	10	11			clear	clear

NOTES:
Blank cells indicate sample was not analyzed for this parameter
Concentrations in ug/L unless otherwise noted
NA = Not applicable
NM = Not measured (analyzed)
U = Analyte not detected; detection limit shown
H = Sample was prepped or analyzed outside of holding time
B = Analyte detected less than CRDL
CRDL =Contract required detection limit
E = Estimated by laboratory
J = Estimated by data validator
N = Spiked sample recovery not within control limits
R = Result rejected due to poor matrix spike recovery

Table 6
Summary of the Analytical Results at the Phase II Cells C and D Secondary Leachate
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	CELL C 4/3/2017	CELL D 4/3/2017	CELL C 6/22/2017	CELL D 6/22/2017
Volatile Organic Compounds	ug/L	ug/L	ug/L	ug/L
1,1,1,2-Tetrachloroethane			2.5 U	2.5 U
1,1,1-Trichloroethane			2.5 U	2.5 U
1,1,2,2-Tetrachloroethane			0.5 U	0.5 U
1,1,2-Trichloroethane			1.5 U	1.5 U
1,1-Dichloroethane			2.5 U	2.5 U
1,1-Dichloroethene			0.5 U	0.5 U
1,2,3-Trichloropropane			2.5 U	2.5 U
1,2-Dibromo-3-Chloropropane			2.5 U	2.5 U
1,2-Dibromoethane			2 U	2 U
1,2-Dichlorobenzene			2.5 U	2.5 U
1,2-Dichloroethane			0.5 U	0.5 U
1,2-Dichloropropane			1 U	1 U
1,4-Dichlorobenzene			2.5 U	2.5 U
2-Butanone			5 U	5 U
2-Hexanone			5 U	5 U
4-Methyl-2-Pentanone			5 U	5 U
Acetone			5 U	5 U
Acrylonitrile			5 U	5 U
Benzene			0.64	0.5 U
Bromochloromethane			2.5 U	2.5 U
Bromodichloromethane			0.5 U	0.5 U
Bromoform			2 U	2 U
Bromomethane			2.5 U	2.5 U
Carbon Disulfide			5 U	5 U
Carbon Tetrachloride			0.5 U	0.5 U
Chlorobenzene			2.5 U	2.5 U
Chloroethane			2.5 U	2.5 U
Chloroform			2.5 U	2.5 U
Chloromethane			2.5 U	2.5 U
cis-1,2-Dichloroethylene			2.5 U	2.5 U
cis-1,3-Dichloropropene			0.5 U	0.5 U
Dibromochloromethane			0.5 U	0.5 U
Dibromomethane			5 U	5 U
Ethylbenzene			2.5 U	2.5 U
Iodomethane			5 U	5 U
Methylene Chloride			2.5 U	2.5 U
Styrene			2.5 U	2.5 U
Tetrachloroethene			0.5 U	0.5 U
Toluene			2.5 U	2.5 U
trans-1,2-Dichloroethylene			2.5 U	2.5 U
trans-1,3-Dichloropropene			2.5 U	2.5 U
trans-1,4-Dichloro-2-Butene			0.5 U	0.5 U
Trichloroethene			0.5 U	0.5 U
Trichlorofluoromethane			2.5 U	2.5 U
Vinyl Acetate			5 U	5 U
Vinyl Chloride			1 U	1 U
Xylene (total)			5 U	5 U
Xylene (total)mp			2.5 U	2.5 U
Xylene (total)o			2.5 U	2.5 U

NOTES:
Blank cells indicate sample was not analyzed for this parameter
Concentrations in ug/L unless otherwise noted
U = Compound not detected; detection limit shown
B = Analyte detected in laboratory blank
* = LCS, LCSD, MS or MSD exceeds the control limit
J = Estimated concentration less than detection limit

Table 6
Summary of the Analytical Results at the Phase II Cells C and D Secondary Leachate
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	CELL C 4/3/2017	CELL D 4/3/2017	CELL C 6/22/2017	CELL D 6/22/2017
Inorganic Parameters				
Aluminum			3.36 J	7.79 J
Antimony			4 U	4 U
Arsenic			3.29	1.34
Barium			73.34	130.9
Beryllium			0.5 U	0.5 U
Boron			41	42
Cadmium	0.0599 U	0.0599 U	0.2 U	0.2 U
Calcium	135000	146000	134000	141000
Chromium			0.25 J	0.21 J
Cobalt			0.65	0.4 J
Copper			1 U	1 U
Iron	2700	60	2190	62.9
Lead	0.343 U	0.343 U	1 U	1 U
Magnesium	28600	30100	27800	29300
Manganese	1724	2522	1679	2445
Mercury			0.2 U	0.2 U
Nickel			1.05 J	0.75 J
Potassium	1690	2120	1730	2250
Selenium			5 U	5 U
Silver			0.4 U	0.4 U
Sodium	64300	56200	66800	56700
Thallium			0.5 U	0.5 U
Vanadium			5 U	5 U
Zinc			10 U	10 U
Leachate Indicator Parameters				
Alkalinity as CaCO3 (mg/L)	439000	474000	424000	477000
Ammonia	165	268	256	42 J
Biochemical Oxygen Demand	2000 U	2000 U	2000 U	2000 U
Bromide	81 J	116	100	114
Chemical Oxygen Demand	18000	5800 J	66700	8700 J
Chloride	63400	36700	8700 J	25800
Color (units)			76	5 U
Cyanide			1 J	5 U
Hardness as CaCO3 (mg/L)	455	487.3	450.2	474.1
Hexavalent Chromium			10 U	10 U
Nitrate	19 U	21 J	100 U	100 U
Phenols	4 U		7 J	8 J
Sulfate	70200	64500	67500	64600
Total Dissolved Solids	650000	660000	680000	650000
Total Kjeldahl Nitrogen	359	410	413	264 J
Total Organic Carbon	2680	1810	2860	2290
Field Parameters				
Temperature (celsius)	28.3	31.4	-56	24
pH (su)	6.91	7.02	7.01	7.2
Specific Conductance (uS)	530	510	521	497
Eh (mv)	-21	59	36.9	36
Turbidity (VISUAL/ntu)	10	10	10	10

NOTES:
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Concentrations in ug/L unless otherwise noted
NA = Not applicable
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U = Analyte not detected; detection limit shown
H = Sample was prepped or analyzed outside of holding time
B = Analyte detected less than CRDL
CRDL =Contract required detection limit
E = Estimated by laboratory
J = Estimated by data validator
N = Spiked sample recovery not within control limits
R = Result rejected due to poor matrix spike recovery

Table 6
Summary of the Analytical Results at the Phase II Cells C and D Secondary Leachate
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	CELL C 9/29/2017	CELL D 9/29/2017	CELL C 12/8/2017	CELL D 12/28/2017
Volatile Organic Compounds	ug/L	ug/L	ug/L	ug/L
1,1,1,2-Tetrachloroethane				
1,1,1-Trichloroethane				
1,1,2,2-Tetrachloroethane				
1,1,2-Trichloroethane				
1,1-Dichloroethane				
1,1-Dichloroethene				
1,2,3-Trichloropropane				
1,2-Dibromo-3-Chloropropane				
1,2-Dibromoethane				
1,2-Dichlorobenzene				
1,2-Dichloroethane				
1,2-Dichloropropane				
1,4-Dichlorobenzene				
2-Butanone				
2-Hexanone				
4-Methyl-2-Pentanone				
Acetone				
Acrylonitrile				
Benzene				
Bromochloromethane				
Bromodichloromethane				
Bromoform				
Bromomethane				
Carbon Disulfide				
Carbon Tetrachloride				
Chlorobenzene				
Chloroethane				
Chloroform				
Chloromethane				
cis-1,2-Dichloroethylene				
cis-1,3-Dichloropropene				
Dibromochloromethane				
Dibromomethane				
Ethylbenzene				
Iodomethane				
Methylene Chloride				
Styrene				
Tetrachloroethene				
Toluene				
trans-1,2-Dichloroethylene				
trans-1,3-Dichloropropene				
trans-1,4-Dichloro-2-Butene				
Trichloroethene				
Trichlorofluoromethane				
Vinyl Acetate				
Vinyl Chloride				
Xylene (total)				
Xylene (total)mp				
Xylene (total)o				

NOTES:
Blank cells indicate sample was not analyzed for this parameter
Concentrations in ug/L unless otherwise noted
U = Compound not detected; detection limit shown
B = Analyte detected in laboratory blank
* = LCS, LCSD, MS or MSD exceeds the control limit
J = Estimated concentration less than detection limit

Table 6
Summary of the Analytical Results at the Phase II Cells C and D Secondary Leachate
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	CELL C 9/29/2017	CELL D 9/29/2017	CELL C 12/8/2017	CELL D 12/28/2017
Inorganic Parameters				
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium	0.2 U	0.2 U	0.2 U	0.2 U
Calcium	121000	133000	122000	140000
Chromium				
Cobalt				
Copper				
Iron	1070	93	898	115
Lead	1 U	1 U	1 U	1 U
Magnesium	26100	29600	20000	24800
Manganese	1575	2401	1714	2273
Mercury				
Nickel				
Potassium	1800	2060	1640	2070
Selenium				
Silver				
Sodium	65600	55700	54800	53800
Thallium				
Vanadium				
Zinc				
Leachate Indicator Parameters				
Alkalinity as CaCO3 (mg/L)	438000	474000	436000	500000
Ammonia	264	244	265	200
Biochemical Oxygen Demand	2000 U	2000 U	2000 U	2000 U
Bromide	99	123	75	120
Chemical Oxygen Demand	8100 J	8100 J	8400 J	3800 J
Chloride	29400	27800	18800	27900
Color (units)				
Cyanide				
Hardness as CaCO3 (mg/L)	409.2	454.9	386.4	452.2
Hexavalent Chromium				
Nitrate	100 U	100 U	100 U	100 U
Phenols	30 U	30 U	30 U	30 U
Sulfate	49900	49800	30500	51200
Total Dissolved Solids	570000	600000	530000	620000
Total Kjeldahl Nitrogen	611	450	445	440
Total Organic Carbon	2780	2210	1940	1780
Field Parameters				
Temperature (celsius)	33	33	31.1	31
pH (su)	6.9	6.91	7.19	7.12
Specific Conductance (uS)	467	485	420	485
Eh (mv)	-55	25	-24	27
Turbidity (VISUAL/ntu)	clear	clear	clear	clear

NOTES:
Blank cells indicate sample was not analyzed for this parameter
Concentrations in ug/L unless otherwise noted
NA = Not applicable
NM = Not measured (analyzed)
U = Analyte not detected; detection limit shown
H = Sample was prepped or analyzed outside of holding time
B = Analyte detected less than CRDL
CRDL =Contract required detection limit
E = Estimated by laboratory
J = Estimated by data validator
N = Spiked sample recovery not within control limits
R = Result rejected due to poor matrix spike recovery

Table 7
Summary of Analytical Results at the Active Leachate Lagoon
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	NYSDEC GA standard (ug/l)	12/15/2004	3/30/2005	6/30/2005	9/28/2005	12/19/2005
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	5					1000 U
1,1,1-Trichloroethane	NA					1000 U
1,1,2,2-Tetrachloroethane	5					1000 U
1,1,2-Trichloroethane	NA					1000 U
1,1-Dichloroethane	5					1000 U
1,1-Dichloroethene	5					1000 U
1,2,3-Trichloropropane	NA					1000 U
1,2-Dibromo-3-Chloropropane	5					1000 U
1,2-Dibromoethane	5					1000 U
1,2-Dichlorobenzene	5					1000 U
1,2-Dichloroethane	5					1000 U
1,2-Dichloropropane	5					1000 U
1,4-Dichlorobenzene	5					1000 U
2-Butanone	50					12000
2-Hexanone	50					2000 U
4-Methyl-2-Pentanone	NA					330 J
Acetone	50					7100 J
Acrylonitrile	5					1000 U
Benzene	1					1000 U
Bromodichloromethane	50					1000 U
Bromoform	50					1000 U
Bromomethane	5					1000 U
Carbon Disulfide	NA					1000 U
Carbon Tetrachloride	5					1000 U
Chlorobenzene	5					1000 U
Chloroethane	5					1000 U
Chloroform	7					1000 U
Chloromethane	NA					1000 U
cis-1,2-Dichloroethylene	5					1000 U
cis-1,3-Dichloropropene	5					1000 U
Dibromochloromethane	50					1000 U
Dibromomethane	5					1000 U
Ethylbenzene	5					1000 U
Iodomethane	5					2000 U
Methylene Chloride	NA					670 JB
Styrene	5					1000 U
Tetrachloroethene	5					1000 U
Toluene	5					68 J
trans-1,2-Dichloroethylene	5					1000 U
trans-1,3-Dichloropropene	5					1000 U
trans-1,4-Dichloro-2-Butene	5					2000 U
Trichloroethene	5					1000 U
Trichlorofluoromethane	5					1000 U
Vinyl Acetate	NA					1000 U
Vinyl Chloride	2					1000 U
Xylene (total)mp	5					1000 U
Xylene (total)o	5					1000 U

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Table 7
Summary of Analytical Results at the Active Leachate Lagoon
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	NYSDEC GA standard (ug/l)	12/15/2004	3/30/2005	6/30/2005	9/28/2005	12/19/2005
Inorganic Parameters						
Aluminum	NA					460 U
Antimony	3					27 U
Arsenic	25					46.6 B
Barium	1000					1000
Beryllium	NA					2.7 U
Boron	1000					21600
Cadmium	5	5.5 U	5.5 U	5.5 U	5.5 U	5.5 U
Calcium	NA	152000	241000	422000	223000	154000
Chromium	50					32.3 B
Cobalt	NA					29.7 B
Copper	200					21.5 U
Iron	300	18300	7630	50400	18700 *N	9970
Lead	25	15 U	15 U	15 U	15 U	15.7 B
Magnesium	NA	103000 J	40000	74800	54300	117000
Manganese	300	857	10900	36400	7440	828
Mercury	0.7					0.07 U
Nickel	100					151
Potassium	NA	373000	21100	55300	44900 N	430000 J
Selenium	10					25 U
Silver	50					5.5 U
Sodium	20000	613000 J	93000	173000	135000	732000
Thallium	NA					50 UJ
Vanadium	NA					21.7 B
Zinc						U
Leachate Indicator Parameters						
Alkalinity	NA	2000 U	602000	918000	980000	2000 U
Ammonia	2000	260000	7900	21000	45000	250000
Biochemical Oxygen Demand	NA	38000	>102000	356	74000	>503000
Bromide	2000	2500 U	1000 U	100 U	100 U	7500
Chemical Oxygen Demand	NA	10000	618000	2660000	271000	3320000
Chloride	250000	965000	175000	204000	166000	964000
Color (units)	NA					700
Cyanide	200					2.3 B
Hardness as CaCO3 (mg/L)	NA	805	768	1360	783	868
Hexavalent Chromium	50					10 U
Nitrate	10000	790 B	1000 U	100 U	123	500 U
Phenols	1	14	40	270	160	450
Sulfate	250000	28900	96800	65500	7800	67500
Total Dissolved Solids	500000	3800000	1300000	2400000	1200000	4000000
Total Kjeldahl Nitrogen	NA	316000	18900	38100	46800	389000
Total Organic Carbon	NA	210000	230000	900000	60000	1100000
Field Parameters						
Temperature (celsius)		21	11.8	11.8	24.5	18.9
pH (su)		7.03	6.23	6.23	6.91	7.85
Specific Conductance (uS)		2700	1145	1145	1197	2593
Eh (mv)		<-80	-60	-60	<-80	<-80
Turbidity (ntu)		MED	MED	25	>100	>100

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R = Result rejected due to poor matrix spike recovery
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Table 7
Summary of Analytical Results at the Active Leachate Lagoon
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	3/29/2006	6/21/2006	9/19/2006	12/14/2006	3/28/2007	7/2/2007 and 7/9/2007*
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane		20 U				
1,1,1-Trichloroethane		20 U				
1,1,2,2-Tetrachloroethane		20 U				
1,1,2-Trichloroethane		20 U				
1,1-Dichloroethane		20 U				
1,1-Dichloroethene		20 U				
1,2,3-Trichloropropane		20 U				
1,2-Dibromo-3-Chloropropane		20 U				
1,2-Dibromoethane		20 U				
1,2-Dichlorobenzene		20 U				
1,2-Dichloroethane		20 U				
1,2-Dichloropropane		20 U				
1,4-Dichlorobenzene		20 U				
2-Butanone		380				
2-Hexanone		40 U				
4-Methyl-2-Pentanone		21 J				
Acetone		270 J				
Acrylonitrile		20 U				
Benzene		5.1 J				
Bromodichloromethane		20 U				
Bromoform		20 U				
Bromomethane		20 U				
Carbon Disulfide		20 U				
Carbon Tetrachloride		20 U				
Chlorobenzene		20 U				
Chloroethane		20 U				
Chloroform		20 U				
Chloromethane		20 U				
cis-1,2-Dichloroethylene		20 U				
cis-1,3-Dichloropropene		20 U				
Dibromochloromethane		20 U				
Dibromomethane		20 U				
Ethylbenzene		34				
Iodomethane		40 UJ				
Methylene Chloride		20 U				
Styrene		20 U				
Tetrachloroethene		20 U				
Toluene		9.9 J				
trans-1,2-Dichloroethylene		20 U				
trans-1,3-Dichloropropene		20 U				
trans-1,4-Dichloro-2-Butene		40 U				
Trichloroethene		20 U				
Trichlorofluoromethane		20 U				
Vinyl Acetate		20 U				
Vinyl Chloride		20 UJ				
Xylene (total)mp		29				
Xylene (total)o		12 J				

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Summary of Analytical Results at the Active Leachate Lagoon
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	3/29/2006	6/21/2006	9/19/2006	12/14/2006	3/28/2007	7/2/2007 and 7/9/2007*
Inorganic Parameters						
Aluminum		460 U				
Antimony		27 U				
Arsenic		19.5 UJ				
Barium		751				
Beryllium		2.7 U				
Boron		19200				
Cadmium	5.5 U	5.5 U	3.8 U	3.8 U	3.8 U	5.5 U
Calcium	453000	154000	224000	153000	208000	119000
Chromium		29.3 B				
Cobalt		19.7 B				
Copper		21.5 U				
Iron	54200	7180 N	24200	9180	6800	4400
Lead	15 U	15 U	15 U	15 U	15 U	25 U
Magnesium	160000	89600	129000	99600	82100	91100
Manganese	26000	890	2600	640	2100	480
Mercury		0.07 U				
Nickel		105				
Potassium	318000	344000	352000	391000	288000	429000
Selenium		25 UJ				
Silver		5.5 U				
Sodium	568000	571000	592000	739000	477000	757000
Thallium		50 UJ				
Vanadium		15 B				
Zinc		55 U				
Leachate Indicator Parameters						
Alkalinity	2000 U	2970000	3390000	3140000	1910000	4020000
Ammonia	230000	340000	350000	300000	232000	375000
Biochemical Oxygen Demand	>288000	150000	>94080	140000	324000	325000
Bromide	1420 U	4200	3500	5100	1800	8500
Chemical Oxygen Demand	2210000	147000	132000	623000	463000	863000
Chloride	924000	913000	853000	992000	466000	1180000
Color (units)		800				
Cyanide		2.2 B				
Hardness as CaCO3 (mg/L)	1790	753	1090	793	858	858
Hexavalent Chromium		10 U				
Nitrate	100 U	100 U	500 U	500 U	500 UH	500 U
Phenols	310	100	190	120	190	110
Sulfate	14000	156000	15600	154000	124000	67000
Total Dissolved Solids	4800000	3700000	3900000	4000000	2790000	5060000
Total Kjeldahl Nitrogen	330000	380000	341000	374000	259000	431000
Total Organic Carbon	840000	220000	270000	230000	272000	424000
Field Parameters						
Temperature (celsius)	17.8	23.5	20	19	15.4	18.2
pH (su)	6.91	6.96	6.98	7.08	7.05	7.06
Specific Conductance (uS)	9150	7850	8170	8370	4800	2801
Eh (mv)	<-150	-298	-320	-109	-255	-41
Turbidity (ntu)	HIGH	>100	HIGH	HIGH	HIGH	LOW

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Table 7
Summary of Analytical Results at the Active Leachate Lagoon
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	9/27/2007	12/27/2007	4/3/2008	7/1/2008	9/23/2008	12/17/2008
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	200 U					20 U H
1,1,1-Trichloroethane	200 U *					20 U H
1,1,2,2-Tetrachloroethane	200 U					20 U H
1,1,2-Trichloroethane	200 U					20 U H
1,1-Dichloroethane	200 U					20 U H
1,1-Dichloroethene	200 U					20 U H
1,2,3-Trichloropropane	200 U					20 U H
1,2-Dibromo-3-Chloropropane	200 U					20 U H
1,2-Dibromoethane	200 U					20 U H
1,2-Dichlorobenzene	200 U					20 U H
1,2-Dichloroethane	200 U					20 U H
1,2-Dichloropropane	200 U					20 U H
1,4-Dichlorobenzene	46 J					20 U H
2-Butanone	400 U					21 J H
2-Hexanone	400 U					40 U H
4-Methyl-2-Pentanone	180 J					9.7 J H B
Acetone	400 U					550 H
Acrylonitrile	400 U					40 U H
Benzene	200 U					4.6 J H
Bromodichloromethane	200 U					20 U H
Bromoform	200 U					20 U H
Bromomethane	200 U					20 U H
Carbon Disulfide	200 U					20 U H
Carbon Tetrachloride	200 U					20 U H
Chlorobenzene	7.5 J					20 U H
Chloroethane	200 U					20 U H
Chloroform	200 U					20 U H
Chloromethane	200 U					20 U H
cis-1,2-Dichloroethylene	200 U					20 U H
cis-1,3-Dichloropropene	200 U					20 U H
Dibromochloromethane	200 U					20 U H
Dibromomethane	200 U					16 J H
Ethylbenzene	71 J					40 U H
Iodomethane	400 UJ*					14 J H
Methylene Chloride	200 U					8.4 J H
Styrene	200 U					20 U H
Tetrachloroethene	200 U					12 J H
Toluene	71 J					20 U H
trans-1,2-Dichloroethylene	200 U					20 U H
trans-1,3-Dichloropropene	200 U					20 U H
trans-1,4-Dichloro-2-Butene	400 U					40 U H
Trichloroethene	200 U					20 U H
Trichlorofluoromethane	200 UJ*					20 U H
Vinyl Acetate	200 U					20 U H
Vinyl Chloride	200 U					20 U H
Xylene (total)mp	86 J					450 H
Xylene (total)o	41 J					20 U H

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Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	9/27/2007	12/27/2007	4/3/2008	7/1/2008	9/23/2008	12/17/2008
Inorganic Parameters						
Aluminum	2500 U					420 J
Antimony	250 U					200 U
Arsenic	98 J					92 J
Barium	800					540
Beryllium	25 U					50 U
Boron	23900					8900
Cadmium	50 U	5.5 U	5.5 U	14 U	14 U	50 U
Calcium	101000	207000	166000	118000	150000	201000
Chromium	33 J					56
Cobalt	28 J					20 J
Copper	50 U					34 J
Iron	10700	28700	3700	2700	65600	8000
Lead	50 U	25 U	24 U	15 U	15 U	50 U
Magnesium	78300	81800	89800	83100	81400	71900
Manganese	490	2200	1700	710	1300	2100
Mercury	0.2 U					0.2 U
Nickel	120					89
Potassium	360000	323000	388000	399000	409000	331000
Selenium	150 UJ					22 J
Silver	25 U					50 U
Sodium	707000 J	573000	710000	599000	919000	481000
Thallium	200 U					150 U
Vanadium	18 J					18 J
Zinc	250 U					53 J
Leachate Indicator Parameters						
Alkalinity	3260000	2290000	3090000	2900000	3240000	2130000
Ammonia	345000	190000	279000	312000	347000	257000
Biochemical Oxygen Demand	221000 NJ	62700	160000	86400	250000	126000
Bromide	5500	1400 U	3700	3900	3700	1200
Chemical Oxygen Demand	1000000	636000	666000	859000	963000	744000
Chloride	1040000	720000	977000	1090000	949000	619000
Color (units)	1000					750
Cyanide	2.9 J					10 U
Hardness as CaCO3 (mg/L)	575	855	784	635	710	797
Hexavalent Chromium	10 U					10 U
Nitrate	500 U	100 U	70 J	570	500 U	400
Phenols	410	56	160	80	72	160
Sulfate	95700	263000	82300	155000	141000	366000
Total Dissolved Solids	4200000 H	3440000	3920000	4200000	4440000	3100000
Total Kjeldahl Nitrogen	483000	348000	396000	289000	379000	251000
Total Organic Carbon	260000	247000	260000	272000	272000	234000
Field Parameters						
Temperature (celsius)	23.3	19.1	11.5	30.5		9
pH (su)	7.09	7.04	7.44	7.83		7.14
Specific Conductance (uS)	8300	5810	7070	7270		6375
Eh (mv)	-315	-305	-285	-135		180
Turbidity (ntu)	HIGH	HIGH	HIGH	HIGH		HIGH

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Summary of Analytical Results at the Active Leachate Lagoon
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	3/31/2009	6/24/2009	10/1/2009	12/17/2009	3/25/2010	6/28/2010
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane		50 U				
1,1,1-Trichloroethane		50 U				
1,1,2,2-Tetrachloroethane		50 U				
1,1,2-Trichloroethane		50 U				
1,1-Dichloroethane		50 U				
1,1-Dichloroethene		50 U				
1,2,3-Trichloropropane		50 U				
1,2-Dibromo-3-Chloropropane		50 U				
1,2-Dibromoethane		50 U				
1,2-Dichlorobenzene		50 U				
1,2-Dichloroethane		50 U				
1,2-Dichloropropane		50 U				
1,4-Dichlorobenzene		50 U				
2-Butanone		230				
2-Hexanone		50 U				
4-Methyl-2-Pentanone		100 U				
Acetone		210				
Acrylonitrile		100 U				
Benzene		50 U				
Bromodichloromethane		50 U				
Bromoform		50 U				
Bromomethane		50 U				
Carbon Disulfide		50 U				
Carbon Tetrachloride		50 U				
Chlorobenzene		50 U				
Chloroethane		50 U				
Chloroform		50 U				
Chloromethane		50 U				
cis-1,2-Dichloroethylene		50 U				
cis-1,3-Dichloropropene		50 U				
Dibromochloromethane		50 U				
Dibromomethane		50 U				
Ethylbenzene		8.9 J				
Iodomethane		100 U				
Methylene Chloride		34 J				
Styrene		50 U				
Tetrachloroethene		50 U				
Toluene		50 U				
trans-1,2-Dichloroethylene		50 U				
trans-1,3-Dichloropropene		50 U				
trans-1,4-Dichloro-2-Butene		100 U*				
Trichloroethene		50 U				
Trichlorofluoromethane		50 U				
Vinyl Acetate		50 U				
Vinyl Chloride		50 U				
Xylene (total)mp		18 J				
Xylene (total)o		6.6 J				

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Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	3/31/2009	6/24/2009	10/1/2009	12/17/2009	3/25/2010	6/28/2010
Inorganic Parameters						
Aluminum		196 J				
Antimony		42.8 J				
Arsenic		91 J				
Barium		491 J				
Beryllium		5 U				
Boron		11800 J				
Cadmium	5 U	5 UJ	5 U	5 U	5 U	1 U
Calcium	187000	196000 J	139000	168000	173000	114000
Chromium		78 J				
Cobalt		25 J				
Copper		29.1 J				
Iron	3900	4650 J	6120	8270	7820	4180
Lead	12 U	3.5 J	12.5 U	12.5 U	12.5 U	2.9
Magnesium	101000	95400 J	82200	75000	84500	85400
Manganese	1100	1460 J	1160	1170	1560	643
Mercury		0.2 UJ				
Nickel		122 J				
Potassium	354000	413000 J	447000	373000	375000	524000
Selenium		38 UJ				
Silver		0.45 J				
Sodium	730000	871000 J	953000	698000	727000	1240000
Thallium		15 UJ				
Vanadium		22.1 J				
Zinc		56.3 J				
Leachate Indicator Parameters						
Alkalinity	2700000	2640000	3500000	2510000	2410000	4610000
Ammonia	298000	213000	420000	279000	292000	738000
Biochemical Oxygen Demand	95700	79200 N	147000	100000	78000	885000
Bromide	4900	8.3 J	1200	1300	3000	6400
Chemical Oxygen Demand	587000	761000	964000	738000	739000	2080000
Chloride	771000	989000	1350000	664000	783000	1350000
Color (units)		1750				
Cyanide		5400 J				
Hardness as CaCO3 (mg/L)	883	881	687	729	781	638
Hexavalent Chromium		2.8 J				
Nitrate	500 U	16 J	20	180	250	500 U
Phenols	76	75	71	95	69	940
Sulfate	250000	271000	102000	172000	237000	17100
Total Dissolved Solids	3730000	4160000	4750000	3510000	3300000	5550000
Total Kjeldahl Nitrogen	367000	364000	533000	341000	347000	925000
Total Organic Carbon	221000	284000	353000	252000	242000	628000
Field Parameters						
Temperature (celsius)	18.6	29.5	22	10	13.9	24
pH (su)	7.18	7.86	7.3	7.18	7.51	7.3
Specific Conductance (uS)	4135	8248	8577	5720	5320	12,820
Eh (mv)	40	96	-114	-125	-195	-330
Turbidity (ntu)	>200	>200	MED	>200	295	>200

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PARAMETERS	9/29/2010	12/8/2010	6/30/2011	8/31/2011	12/12/2011	3/21/2012
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	100 U					
1,1,1-Trichloroethane	100 U					
1,1,2,2-Tetrachloroethane	100 U					
1,1,2-Trichloroethane	100 U					
1,1-Dichloroethane	100 U					
1,1-Dichloroethene	100 U					
1,2,3-Trichloropropane	100 U					
1,2-Dibromo-3-Chloropropane	100 U					
1,2-Dibromoethane	100 U					
1,2-Dichlorobenzene	100 U					
1,2-Dichloroethane	100 U					
1,2-Dichloropropane	100 U					
1,4-Dichlorobenzene	100 U					
2-Butanone	1500					
2-Hexanone	200 U					
4-Methyl-2-Pentanone	25 J					
Acetone	1100					
Acrylonitrile	200 U					
Benzene	100 U					
Bromodichloromethane	100 U					
Bromoform	100 U					
Bromomethane	100 U					
Carbon Disulfide	100 U					
Carbon Tetrachloride	100 U					
Chlorobenzene	100 U					
Chloroethane	100 U					
Chloroform	100 U					
Chloromethane	100 U					
cis-1,2-Dichloroethylene	100 U					
cis-1,3-Dichloropropene	100 U					
Dibromochloromethane	100 U					
Dibromomethane	100 U					
Ethylbenzene	18 J					
Iodomethane	NR					
Methylene Chloride	100 U					
Styrene	100 U					
Tetrachloroethene	100 U					
Toluene	14 J					
trans-1,2-Dichloroethylene	100 U					
trans-1,3-Dichloropropene	100 U					
trans-1,4-Dichloro-2-Butene	200 U					
Trichloroethene	100 U					
Trichlorofluoromethane	100 U					
Vinyl Acetate	100 U					
Vinyl Chloride	100 U					
Xylene (total)mp	NR					
Xylene (total)o	NR					

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Table 7
Summary of Analytical Results at the Active Leachate Lagoon
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	9/29/2010	12/8/2010	6/30/2011	8/31/2011	12/12/2011	3/21/2012
Inorganic Parameters						
Aluminum	642 J		361 J			
Antimony	75 U		60 U			
Arsenic	347		121			
Barium	1030		496			
Beryllium	25 U		20 U			
Boron	23400		16500 ^			
Cadmium	25 U	2 U	20 U	1 U	1 U	1 U
Calcium	164000	182000	162000	120000	144000	154000 B
Chromium	296		213			
Cobalt	40.5		27.8			
Copper	34.8 J		7.4 J			
Iron	32800	5440	6300	4950	5200	9700
Lead	75 U	5 U	60 U	3.6	5 U	5 U
Magnesium	94900	79700	78500	38600	34800	75700
Manganese	1330	1440	1360	1270	1700	1700 B
Mercury	0.2 U		0.4 U			
Nickel	199		110			
Potassium	573000	371000	426000	172000	124000	278000
Selenium	190 U		152 U			
Silver	25 U		20 U			
Sodium	1410000	832000	1000000	317000 ^	254000	758000 B
Thallium	75 U		60 U			
Vanadium	88.3		43.6			
Zinc	457		52.1 J			
Leachate Indicator Parameters						
Alkalinity	4920000	3070000	3820000	1130000 B	1050000	2720000 B
Ammonia	706000	367000	456000	112000	112000	518000
Biochemical Oxygen Demand	876000	232000	288000	117000	92700	97300
Bromide	482000	3500	5300	1100	270	200 U
Chemical Oxygen Demand	2920000	1130000	1470000	558000	372000	1210000
Chloride	2730000	942000	1130000	391000	55200	652000
Color (units)	3500		2500			
Cyanide	11.4		10			
Hardness as CaCO3 (mg/L)	801		727	459	500	800
Hexavalent Chromium	120		8.4			
Nitrate	10000 U	100 U	740	100 U	880	50
Phenols	2100	340	410	95	140	470
Sulfate	1160000	166000	84800	153000	10500	87800
Total Dissolved Solids	5590000	4000000	5050000	1780000	1550000	3410000
Total Kjeldahl Nitrogen	919000	522000	682000	187000	110000	395000
Total Organic Carbon	1400000	393000	386000	86400	122000	220000
Field Parameters						
Temperature (celsius)	24.5	20.5			13	20
pH (su)	7.38	7.19			7.03	7.27
Specific Conductance (uS)	9,060	5,620			1,487	3,820
Eh (mv)	-240	-300			-250	-258
Turbidity (ntu)	>200	>200			>200	>100

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NA = Not applicable
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Table 7
Summary of Analytical Results at the Active Leachate Lagoon
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	6/28/2012	9/27/2012	12/7/2012	5/31/2013	9/4/2013	11/15/2013
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane		10 U				40 U
1,1,1-Trichloroethane		10 U				40 U
1,1,2,2-Tetrachloroethane		10 U				40 U
1,1,2-Trichloroethane		10 U				40 U
1,1-Dichloroethane		10 U				40 U
1,1-Dichloroethene		10 U				40 U
1,2,3-Trichloropropane		10 U				40 U
1,2-Dibromo-3-Chloropropane		10 U				40 U
1,2-Dibromoethane		10 U				40 U
1,2-Dichlorobenzene		10 U				40 U
1,2-Dichloroethane		12				40 U
1,2-Dichloropropane		10 U				40 U
1,4-Dichlorobenzene		10 U				40 U
2-Butanone		3500				400 U
2-Hexanone		50 U				200 U
4-Methyl-2-Pentanone		43 J				200 U
Acetone		1700				400 U
Acrylonitrile		50 U				200 U
Benzene		4.7 J				40 U
Bromodichloromethane		10 U				40 U
Bromoform		10 U				40 U
Bromomethane		10 U				40 U
Carbon Disulfide		10 U				40 U
Carbon Tetrachloride		10 U				40 U
Chlorobenzene		10 U				40 U
Chloroethane		10 U				40 U
Chloroform		10 U				40 U
Chloromethane		10 U				40 U
cis-1,2-Dichloroethylene		10 U				40 U
cis-1,3-Dichloropropene		10 U				40 U
Dibromochloromethane		10 U				40 U
Dibromomethane		10 U				40 U
Ethylbenzene		8.2 J				40 U
Iodomethane		10 U				40 U
Methylene Chloride		17				40 U
Styrene		10 U				40 U
Tetrachloroethene		10 U				40 U
Toluene		46				40 U
trans-1,2-Dichloroethylene		10 U				200 U
trans-1,3-Dichloropropene		10 U				40 U
trans-1,4-Dichloro-2-Butene		50 U				40 U
Trichloroethene		10 U				40 U
Trichlorofluoromethane		10 U				40 U
Vinyl Acetate		50 U				200 U
Vinyl Chloride		10 U				40 U
Xylene (total)mp		11 J				80 U
Xylene (total)o		10 U				40 U

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Summary of Analytical Results at the Active Leachate Lagoon
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	6/28/2012	9/27/2012	12/7/2012	5/31/2013	9/4/2013	11/15/2013
Inorganic Parameters						
Aluminum		380				112 J
Antimony		20 U				15.4 J
Arsenic		55				127
Barium		950 B				162
Beryllium		2 U				2 U
Boron		9100 B				18400 B ^
Cadmium	1 U	1 U	1.4	1 U	1 U	1 U
Calcium	150000	360000	252000	208000	246000	155000
Chromium		34				65.5
Cobalt		19				33.3
Copper		6.6 J				13.2
Iron	6600	24600	7700	8660	4450	2840
Lead	5 U	5 U	5 U	7	8.1	9.9
Magnesium	65700	86600	82600	67700	215000	140000
Manganese	4900	17400 B	7900	4630	1220	192
Mercury		0.2 U				0.2 U
Nickel		67				133
Potassium	280000	176000	302000 ^	182000	348000 B	378000
Selenium		11 J				15 U
Silver		3 U				3 U
Sodium	739000	467000	812000	476000	1290000 B	1150000
Thallium		11 J				20 U
Vanadium		19				16.4
Zinc		18				56.7 B
Leachate Indicator Parameters						
Alkalinity	2800000 B	2250000	3020000 B	1450000	3120000	2460000 B
Ammonia	375000	263000	412000	161000	498000	410000
Biochemical Oxygen Demand	167000	689000	461000	556000	595000	64200
Bromide	2800	5000	1800	28000	8300	13200
Chemical Oxygen Demand	912000	1940000	1790000 B	815000	2230000	1019000
Chloride	696000	526000	889000	551000	1660000	1470000
Color (units)		240000				700
Cyanide		7.5 J				10 UJ
Hardness as CaCO3 (mg/L)	840	130	940	810	1860	960
Hexavalent Chromium		20 U				10 U
Nitrate	50 U	50 U	26 J	22 J	50 U	43000
Phenols	350	610	670 B	200	1200	39
Sulfate	29000	4900	57300	195000	147000	529000
Total Dissolved Solids	2970000	3280000	4190000	2410000	5500000	4660000
Total Kjeldahl Nitrogen	363000	208000	449000	159000	421000	347000
Total Organic Carbon	339000	533000	553000	279000	421000	303000
Field Parameters						
Temperature (celsius)	25.1	21	4.1	37.0	23.2	8.9
pH (su)	7.85	7.03	8.09	7.27	7.12	7.82
Specific Conductance (uS)	4,229	3,140	3,590	4,355	4,550	4,280
Eh (mv)	-308	-288	-228	-310	-288	-228
Turbidity (ntu)	>100	>100	>100	>100	>100	

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Table 7
Summary of Analytical Results at the Active Leachate Lagoon
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	3/27/2014	5/27/2014	9/5/2014	12/1/2014	3/4/2015	5/21/2015
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane		40 U *				
1,1,1-Trichloroethane		40 U *				
1,1,2,2-Tetrachloroethane		40 U				
1,1,2-Trichloroethane		40 U				
1,1-Dichloroethane		40 U				
1,1-Dichloroethene		40 U				
1,2,3-Trichloropropane		40 U				
1,2-Dibromo-3-Chloropropane		40 U				
1,2-Dibromoethane		40 U				
1,2-Dichlorobenzene		40 U				
1,2-Dichloroethane		40 U				
1,2-Dichloropropane		40 U				
1,4-Dichlorobenzene		40 U				
2-Butanone		400				
2-Hexanone		200 U				
4-Methyl-2-Pentanone		200 U				
Acetone		340 J				
Acrylonitrile		200 U				
Benzene		40 U				
Bromodichloromethane		40 U *				
Bromoform		40 U				
Bromomethane		40 U				
Carbon Disulfide		40 U				
Carbon Tetrachloride		40 U				
Chlorobenzene		40 U				
Chloroethane		40 U				
Chloroform		40 U				
Chloromethane		40 U				
cis-1,2-Dichloroethylene		40 U				
cis-1,3-Dichloropropene		40 U				
Dibromochloromethane		40 U				
Dibromomethane		40 U				
Ethylbenzene		40 U				
Iodomethane		40 U				
Methylene Chloride		35 J				
Styrene		40 U				
Tetrachloroethene		40 U				
Toluene		40 U				
trans-1,2-Dichloroethylene		40 U				
trans-1,3-Dichloropropene		40 U				
trans-1,4-Dichloro-2-Butene		200 U				
Trichloroethene		40 U				
Trichlorofluoromethane		40 U				
Vinyl Acetate		200 U				
Vinyl Chloride		40 U				
Xylene (total)mp		80 U				
Xylene (total)o		40 U				

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Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	3/27/2014	5/27/2014	9/5/2014	12/1/2014	3/4/2015	5/21/2015
Inorganic Parameters						
Aluminum		151 J				
Antimony		20 U				
Arsenic		87.1				
Barium		686				
Beryllium		2 U				
Boron		18400				
Cadmium	1 U	1 U	0.25 U	0.227	0.19 J	0.14 J
Calcium	161000 B	140000	196000	170000	163000	95000
Chromium		72.4				
Cobalt		26.2				
Copper		4.4 J				
Iron	5150 B	6580	2610	2450	5160	3450
Lead	10 U	3.9 J	3.465 J	5.07	4.456	3.55
Magnesium	90300 B	89800	172000	122000	102000	71000
Manganese	1910 B	1380	2910	2850	2540	660
Mercury		0.2 U				
Nickel		102				
Potassium	268000	394000	421000	281000	321000	266000
Selenium		15 U				
Silver		3 U				
Sodium	770000	1010000	1330000	1000000	880000	844000
Thallium		20 U				
Vanadium		30				
Zinc		7.9 J				
Leachate Indicator Parameters						
Alkalinity	2360000	3720000 B	4150000	2880000	2830000	1670000
Ammonia	361000	510000	550000	444000	418000	200000
Biochemical Oxygen Demand	112000	416000	120000	170000	100000	81000
Bromide	1000	5800	12500	7200	8890	6270
Chemical Oxygen Demand	1220000	1150000	1500000	1000000	1200000	1000000
Chloride	1120000	1040000	2260000	1420000	1460000	1160000
Color (units)		1750000				
Cyanide		11				
Hardness as CaCO3 (mg/L)	960	800	1200	924	829	530
Hexavalent Chromium		50 U				
Nitrate	50	50 U	130 J	100 U	1400	94 U
Phenols	160	490	140	55	180	9 J
Sulfate	259000	86500	452000	670000	308000	222000
Total Dissolved Solids	4020000	5310000	6800000	6900000	4800000	3600000
Total Kjeldahl Nitrogen	351000	485000 B	610000	387000	410000	226000
Total Organic Carbon	251000	587000	494000	490000	353000	249000
Field Parameters						
Temperature (celsius)	19.0	18.0	28.0	19.5	19.5	26.0
pH (su)	7.04	7.55	7.01	7.15	7.15	8.66
Specific Conductance (uS)	3,820	627	>4000	>4000	>4000	>4000
Eh (mv)	-80	-27	-165	-100	-100	-120
Turbidity (ntu)	>200	10	>100	>100	>100	>100

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Summary of Analytical Results at the Active Leachate Lagoon
Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	9/14/2015	12/14/2015	3/28/2016	6/13/2016	10/7/2016
Volatile Organic Compounds					
1,1,1,2-Tetrachloroethane	NA				
1,1,1-Trichloroethane	2.5 U				
1,1,2,2-Tetrachloroethane	0.5 U				
1,1,2-Trichloroethane	1.5 U				
1,1-Dichloroethane	2.5 U				
1,1-Dichloroethene	0.5 U				
1,2,3-Trichloropropane	2.5 U				
1,2-Dibromo-3-Chloropropane	2.5 U				
1,2-Dibromoethane	2 U				
1,2-Dichlorobenzene	2.5 U				
1,2-Dichloroethane	0.33 J				
1,2-Dichloropropane	1 U				
1,4-Dichlorobenzene	1.4 J				
2-Butanone	170				
2-Hexanone	2 J				
4-Methyl-2-Pentanone	16				
Acetone	190				
Acrylonitrile	NA				
Benzene	0.88				
Bromodichloromethane	0.5 U				
Bromoform	2 U				
Bromomethane	2.5 U				
Carbon Disulfide	7.2				
Carbon Tetrachloride	0.5 U				
Chlorobenzene	0.73 J				
Chloroethane	2.5 U				
Chloroform	2.5 U				
Chloromethane	2.5 U				
cis-1,2-Dichloroethylene	2.5 U				
cis-1,3-Dichloropropene	0.5 U				
Dibromochloromethane	0.5 U				
Dibromomethane	NA				
Ethylbenzene	3.8				
Iodomethane	NA				
Methylene Chloride	2.5 U				
Styrene	0.76 J				
Tetrachloroethene	0.5 U				
Toluene	1.5 J				
trans-1,2-Dichloroethylene	2.5 U				
trans-1,3-Dichloropropene	0.5 U				
trans-1,4-Dichloro-2-Butene	NA				
Trichloroethene	0.2 J				
Trichlorofluoromethane	2.5 U				
Vinyl Acetate	NA				
Vinyl Chloride	1 U				
Xylene (total)mp	3.4				
Xylene (total)o	2 J				

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Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	9/14/2015	12/14/2015	3/28/2016	6/13/2016	10/7/2016
Inorganic Parameters					
Aluminum	275 J				
Antimony	5 J				
Arsenic	77.2 J				
Barium	391.2 J				
Beryllium	0.5 UJ				
Boron	15300 J				
Cadmium	0.1 J	0.1 J	1 U	0.735 J	2.259
Calcium	100000 J	190000	178000	170000	360000
Chromium	62.3 J				
Cobalt	16.6 J				
Copper	3.6 J				
Iron	1980 J	5420	6660	6560	20400
Lead	1.8 J	3.6	2.083 J	10.49	81.16
Magnesium	58000 J	77000	97000	95500	126000
Manganese	734.6 J	1910	2153	608.5	2555
Mercury	0.2 UJ				
Nickel	63.3 J				
Potassium	241000 J	398000	300000	310000	318000
Selenium	1 J				
Silver	0.4 UJ				
Sodium	695000 J	1080000	881000	1150000	1150000
Thallium	0.5 UJ				
Vanadium	31.5 J				
Zinc	185.9 J				
Leachate Indicator Parameters					
Alkalinity	2120000	3120000	2560000	1660000	1020
Ammonia	326000	506000	372000	1760	489
Biochemical Oxygen Demand	130000	160000	86000	160000	450
Bromide	6440	9980	8680	17100	19.3
Chemical Oxygen Demand	950000	1500000	1200000	1400000	2300
Chloride	1090000	1540000	1280000	1730000	2230
Color (units)	1200000 U				
Cyanide	4				
Hardness as CaCO3 (mg/L)	490 J	790	844	819.1	
Hexavalent Chromium	10 U				0.19
Nitrate	1000	25 J	1000 U	1000 U	436
Phenols	100	240 J	170	348	0.39
Sulfate	101000	290000	299000	16 J	366
Total Dissolved Solids	3100000	4700000	4000000	493000	6400
Total Kjeldahl Nitrogen	290000	482000	341000	4800000	516
Total Organic Carbon	278000	321000	288000	266000	1420
Field Parameters					
Temperature (celsius)	20.0	12.0	16.6	15.3	
pH (su)	7.86	7.95	7.48	8.33	
Specific Conductance (uS)	>2000	>4000	>4000	>4000	
Eh (mv)	-70	140	-106	15	
Turbidity (ntu)	>150	>150	>100	150	

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Area 6 Monitoring Network, Colonie Landfill

PARAMETERS	12/8/2016	4/3/2017	6/22/2017	9/29/2017	12/8/2017
Volatile Organic Compounds					
1,1,1,2-Tetrachloroethane	2.5 U		2.5 U		
1,1,1-Trichloroethane	2.5 U		2.5 U		
1,1,2,2-Tetrachloroethane	0.5 U		0.5 U		
1,1,2-Trichloroethane	1.5 U		1.5 U		
1,1-Dichloroethane	2.5 U		2.5 U		
1,1-Dichloroethene	0.5 U		0.5 U		
1,2,3-Trichloropropane	2.5 U		2.5 U		
1,2-Dibromo-3-Chloropropane	2.5 U		2.5 U		
1,2-Dibromoethane	2 U		2 U		
1,2-Dichlorobenzene	2.5 U		2.5 U		
1,2-Dichloroethane	0.3 J		0.62		
1,2-Dichloropropane	1 U		1 U		
1,4-Dichlorobenzene	0.81 J		1.6 J		
2-Butanone	82		340 E		
2-Hexanone	2 J		1.8 J		
4-Methyl-2-Pentanone	18		8.1		
Acetone	380 E		440 E		
Acrylonitrile	5 U		5 U		
Benzene	0.92		2.2		
Bromodichloromethane	0.5 U		0.5 U		
Bromoform	2 U		2 U		
Bromomethane	2.5 U		2.5 U		
Carbon Disulfide	5 U		5 U		
Carbon Tetrachloride	0.5 U		0.5 U		
Chlorobenzene	2.5 U		1.8 J		
Chloroethane	2.5 U		2.5 U		
Chloroform	2.5 U		2.5 U		
Chloromethane	2.5 U		2.5 U		
cis-1,2-Dichloroethylene	2.5 U		0.72 J		
cis-1,3-Dichloropropene	0.5 U		0.5 U		
Dibromochloromethane	0.5 U		0.5 U		
Dibromomethane	5 U		5 U		
Ethylbenzene	2 J		4.8		
Iodomethane	5 U		5 U		
Methylene Chloride	2.5 U		2.5 U		
Styrene	2.5 U		2.5 U		
Tetrachloroethene	0.5 U		0.5 U		
Toluene	1.8 J		1.4 J		
trans-1,2-Dichloroethylene	2.5 U		2.5 U		
trans-1,3-Dichloropropene	0.5 U		2.5 U		
trans-1,4-Dichloro-2-Butene	2.5 U		0.5 U		
Trichloroethene	0.5 U		0.5 U		
Trichlorofluoromethane	2.5 U		2.5 U		
Vinyl Acetate	5 U		5 U		
Vinyl Chloride	1 U		0.35 J		
Xylene (total)mp	2 J		2.3 J		
Xylene (total)o	1.1 J		2 J		

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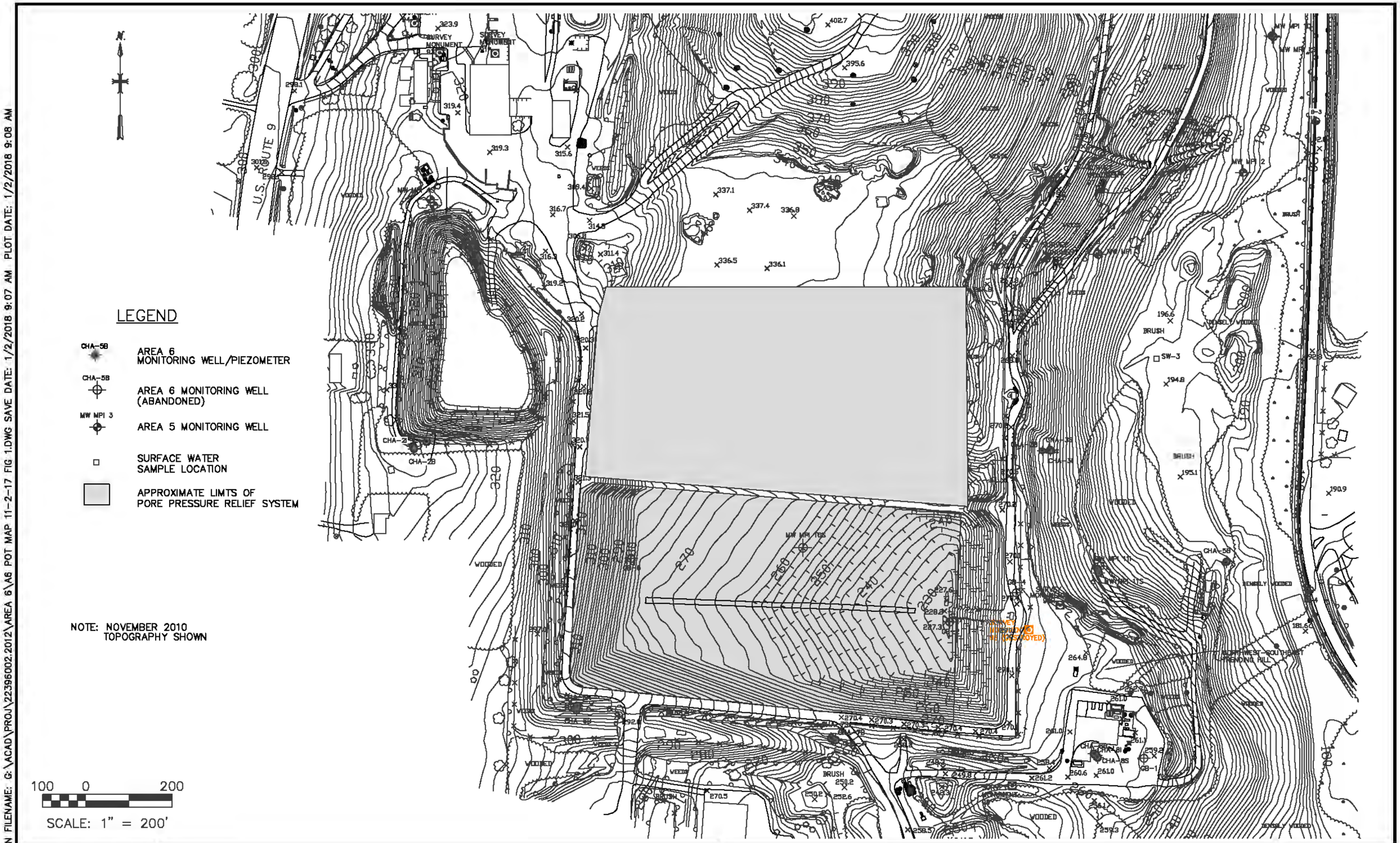
PARAMETERS	12/8/2016	4/3/2017	6/22/2017	9/29/2017	12/8/2017
Inorganic Parameters					
Aluminum	317		254		
Antimony	17.3 J		19.9		
Arsenic	73.7		200.8		
Barium	415.7		693.7		
Beryllium	2.5 U		0.5 U		
Boron	5.2 J		23100		
Cadmium	0.6 J	0.1576 J	0.1 J	1 U	0.319 J
Calcium	15000	176000	189000	185000	594000
Chromium	50.2		136.5		
Cobalt	18.2		29.93		
Copper	16.5		8.09		
Iron	4350	5660	4240	5910	11800
Lead	5.9	2.262	1.9	2.11 J	3.058 J
Magnesium	2200	72600	93400	84400	97300
Manganese	2786	1712	1276	1003	1033
Mercury	0.2 U		0.2 U		
Nickel	69.7		117.3		
Potassium	243000	279000	402000	521000	513000
Selenium	25 U		2.19 J		
Silver	2 U		0.4 U		
Sodium	1050000	1000000	1510000	1810000	2080000
Thallium	2.5 U		0.5 U		
Vanadium	26.3		57.43		
Zinc	48.2 J		39.42		
Leachate Indicator Parameters					
Alkalinity	1670000	2080000	2100000	4620000	4380000
Ammonia	288000	321000	544000	640000	833000
Biochemical Oxygen Demand	93000	54000	380000	180000	200000
Bromide	15300	12300	18900	25700	32800
Chemical Oxygen Demand	220000	840000	1950000	2400000	2000
Chloride	1590000	1400000	2000000	2590000	3290000
Color (units)	6100		1200	2700	
Cyanide	3 J		14		
Hardness as CaCO3 (mg/L)	46	739.3	857.8		1885
Hexavalent Chromium	10 U		10 U	36	
Nitrate	100 U	190 U	1000 U	1000 U	180000
Phenols	1700	23 J	1400	1200	150
Sulfate	416000	246000	203000	242000	222000
Total Dissolved Solids	4200000	3900000	6000000	7400000	4600000
Total Kjeldahl Nitrogen	298000	373000	579000	900000	967000
Total Organic Carbon	201000	214000	727000	627000	548000
Field Parameters					
Temperature (celsius)	13.8	11.6	14	14	21.6
pH (su)	7.81	8.50	8.30	8.30	8.30
Specific Conductance (uS)	1,460	>4000	4000	4000	4000
Eh (mv)	-73	126	26.3	26.3	-158
Turbidity (ntu)	23	>100	150	150	150

NOTES:
Blank cells indicate sample was not analyzed for this parameter
Concentrations in ug/L unless otherwise noted
NA = Not applicable
NM = Not measured (analyzed)
U = Analyte not detected; detection limit shown
B = Analyte detected less than CRDL
CRDL =Contract required detection limit
E = Estimated by laboratory
J = Estimated by data validator
N = Spiked sample recovery not within control limits
R = Result rejected due to poor matrix spike recovery
* = Due to insufficient preservation, metals, ammonia, COD, hardness, phenols, and TKN were resampled on 7/9/2007

FIGURES



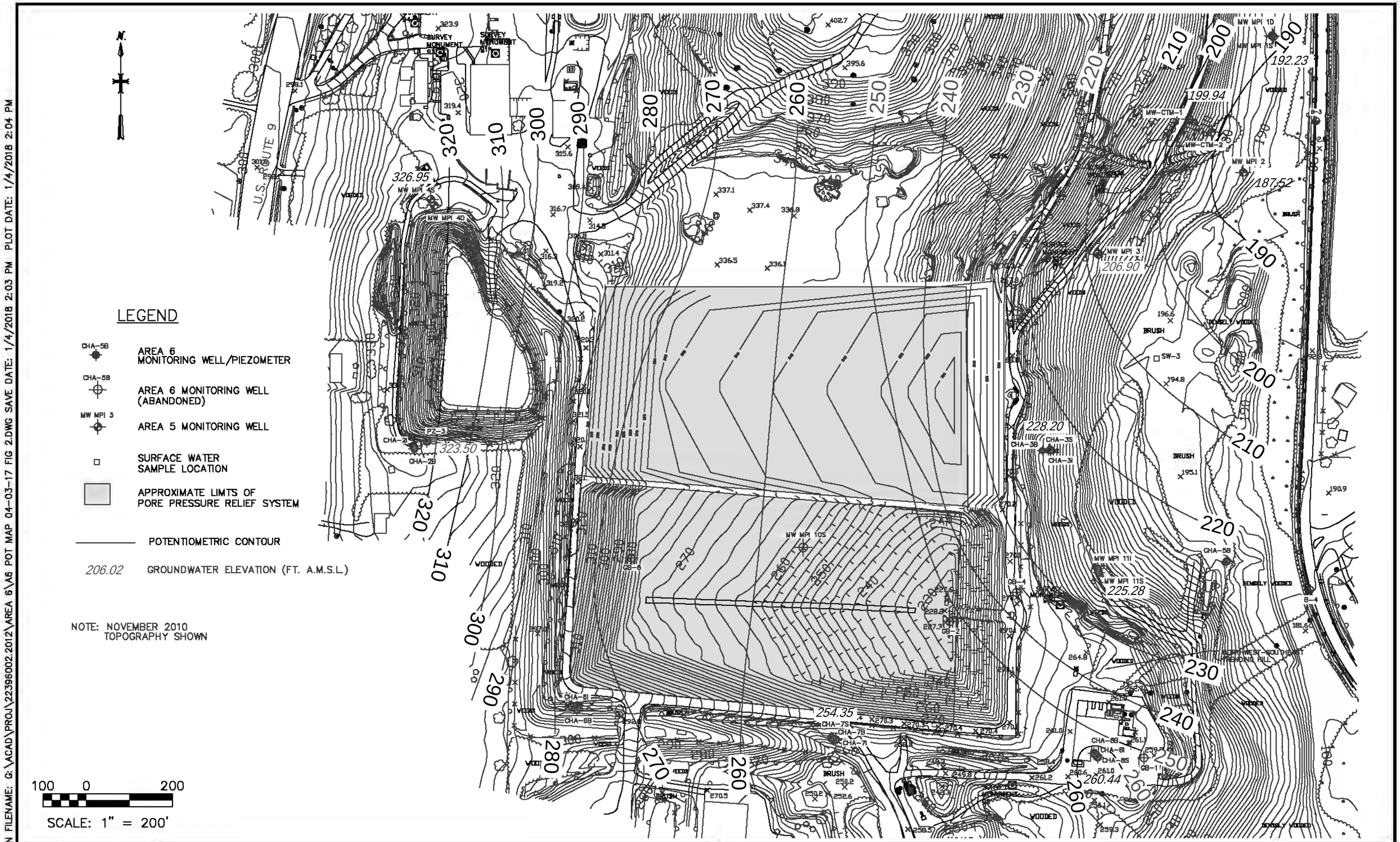
USER: AGIBSON FILENAME: G:\ACAD\PROJ\22396002.2012\AREA 6\A6 POT MAP 11-2-17 FIG 1.DWG SAVE DATE: 1/2/2018 9:07 AM PLOT DATE: 1/2/2018 9:08 AM

ARCADIS

WASTE CONNECTIONS, INC.
COLONIE, NEW YORK
COLONIE LANDFILL MONITORING

AREA 6
MONITORING WELL LOCATIONS
SCALE: AS SHOWN

January 2017
FIGURE 1



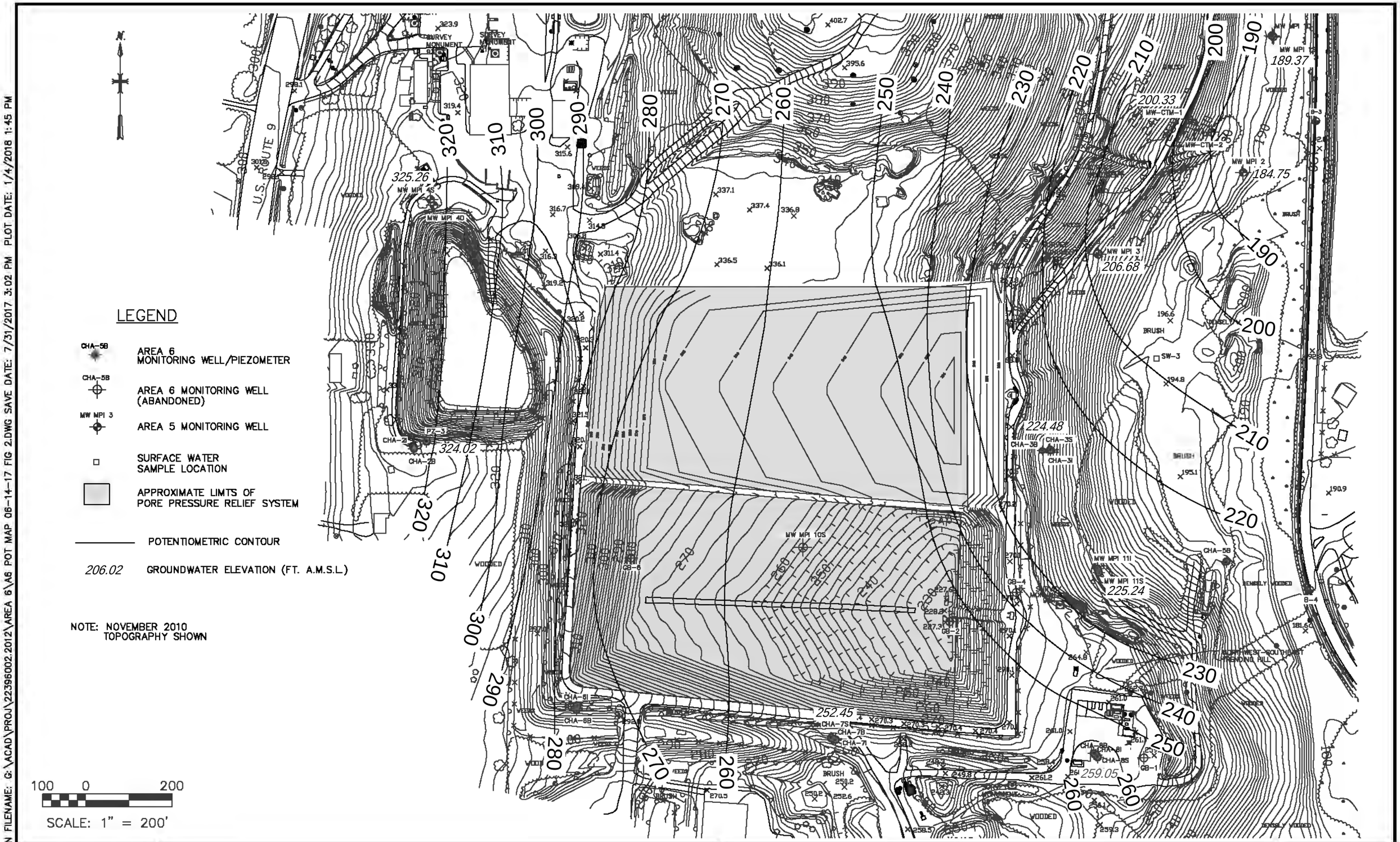
ARCADIS

WASTE CONNECTIONS, INC.
COLONIE, NEW YORK
COLONIE LANDFILL MONITORING

AREA 6
POTENTIOMETRIC CONTOURS (APRIL 3, 2017)
SCALE: AS SHOWN

JULY 2017
FIGURE 2A

USER: AGIBSON FILENAME: G:\ACAD\PROJ\22396002.2012\AREA 6\A6 POT MAP 04-03-17 FIG 2.DWG SAVE DATE: 1/4/2018 2:03 PM PLOT DATE: 1/4/2018 2:04 PM



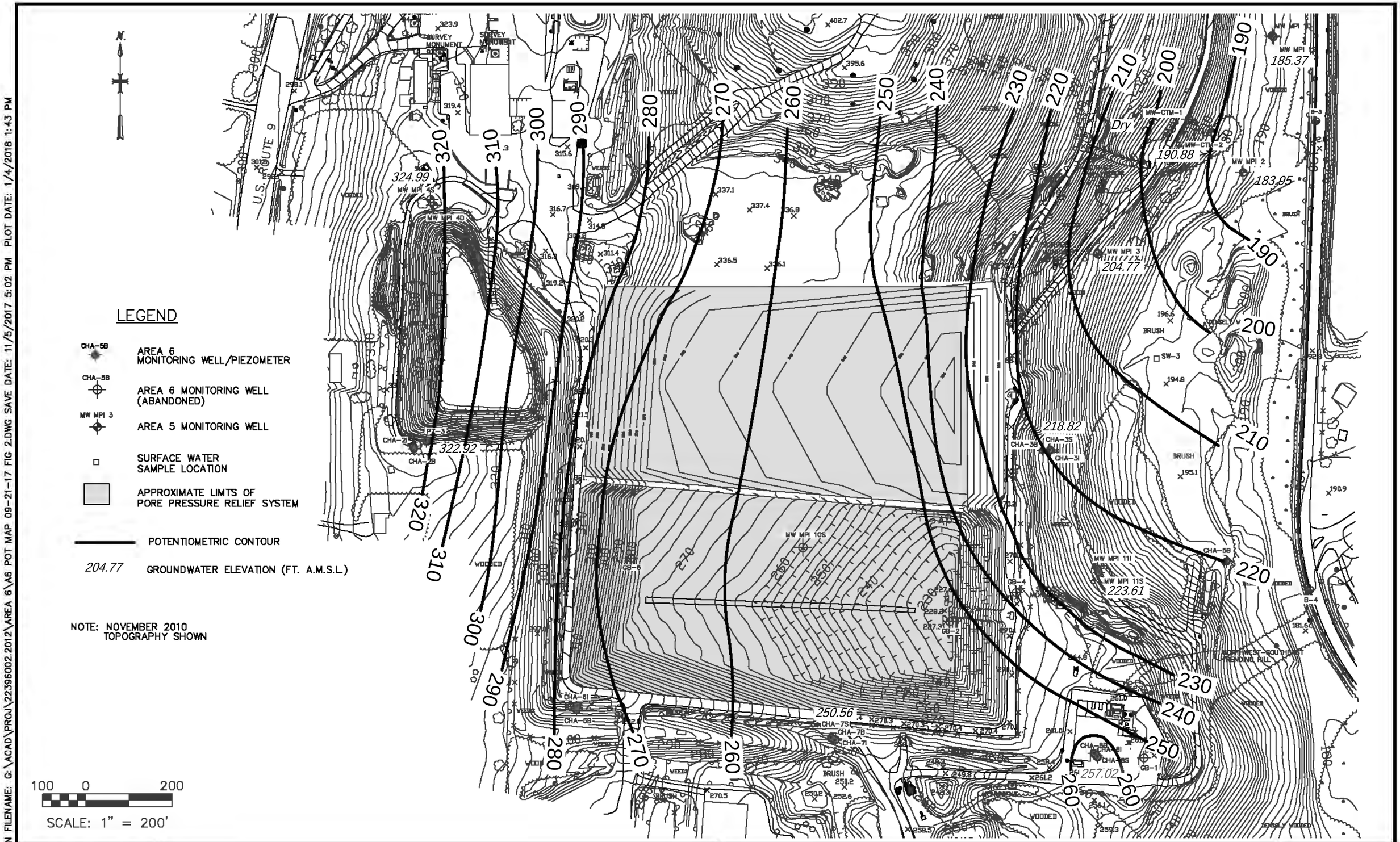
USER: AGIBSON FILENAME: G:\ACAD\PROJ\22396002.2012\AREA 6\A6 POT MAP 06-14-17 FIG 2.DWG SAVE DATE: 7/31/2017 3:02 PM PLOT DATE: 1/4/2018 1:45 PM

ARCADIS

WASTE CONNECTIONS, INC.
COLONIE, NEW YORK
COLONIE LANDFILL MONITORING

AREA 6
POTENTIOMETRIC CONTOURS (JUNE 14, 2017)
SCALE: AS SHOWN

AUGUST 2017
FIGURE 2B



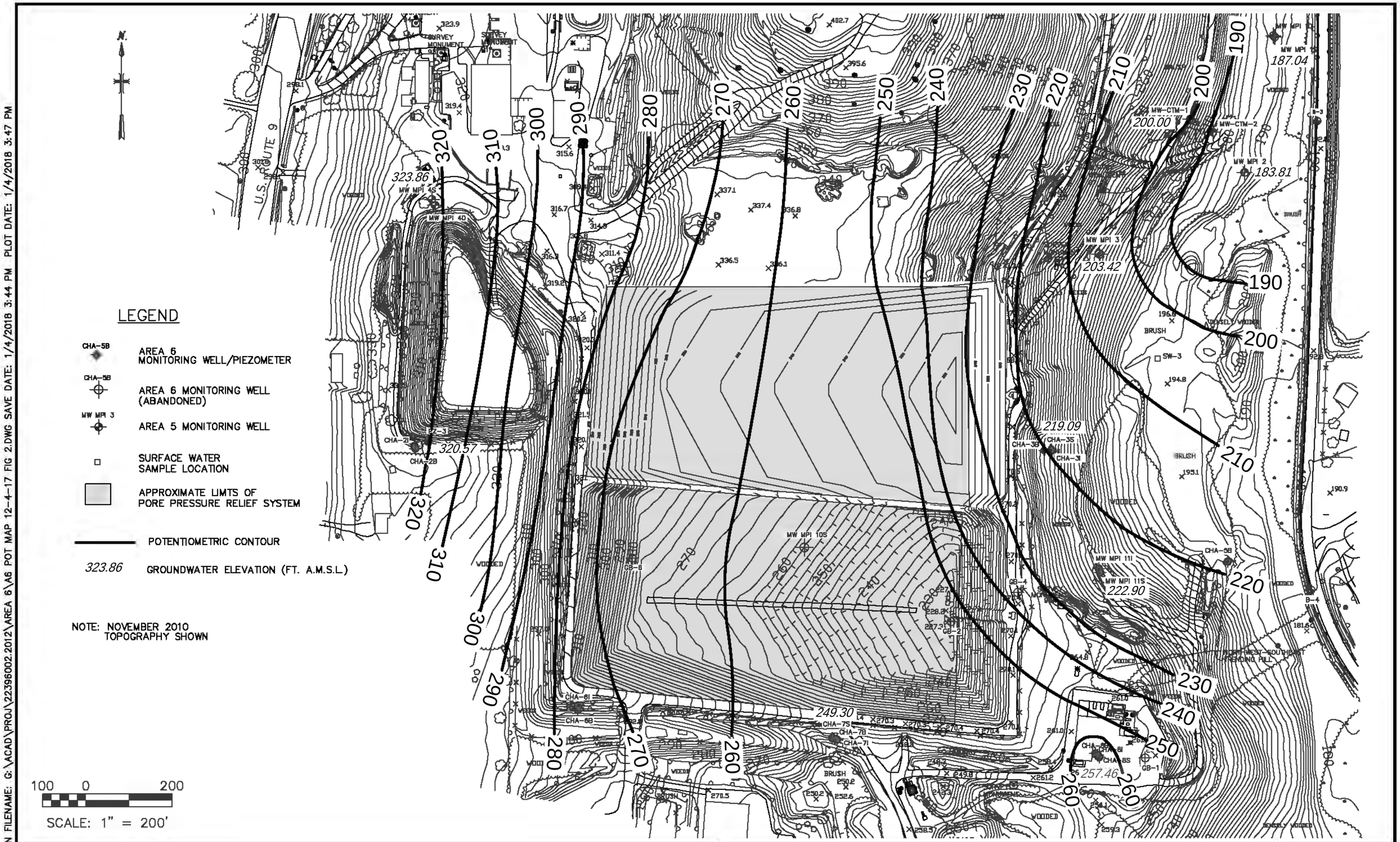
USER: AGIBSON FILENAME: G:\ACAD\PROJ\22396002.2012\AREA 6\A6 POT MAP 09-21-17 FIG 2.DWG SAVE DATE: 11/5/2017 5:02 PM PLOT DATE: 1/4/2018 1:43 PM

ARCADIS

WASTE CONNECTIONS, INC.
COLONIE, NEW YORK
COLONIE LANDFILL MONITORING

AREA 6
POTENTIOMETRIC CONTOURS (SEPTEMBER 19, 2017)
SCALE: AS SHOWN

NOVEMBER 2017
FIGURE 2C



USER: AGIBSON FILENAME: G:\ACAD\PROJ\22396002.2012\AREA 6\A6 POT MAP 12-4-17 FIG 2.DWG SAVE DATE: 1/4/2018 3:44 PM PLOT DATE: 1/4/2018 3:47 PM

ARCADIS

WASTE CONNECTIONS, INC.
COLONIE, NEW YORK
COLONIE LANDFILL MONITORING

AREA 6
POTENTIOMETRIC CONTOURS (December 4, 2017)
SCALE: AS SHOWN

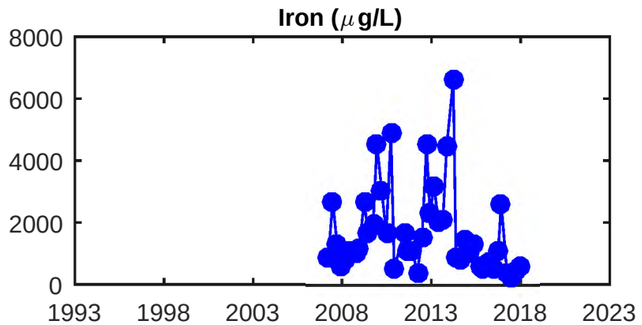
January 2018
FIGURE 2D

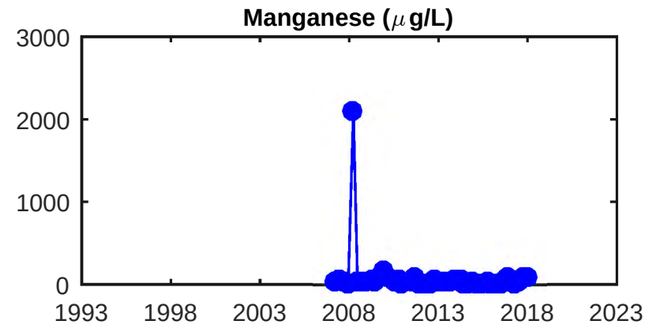
APPENDIX A

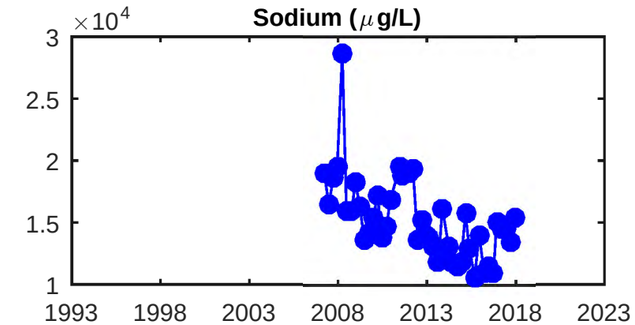
Parameter Concentration Graphs

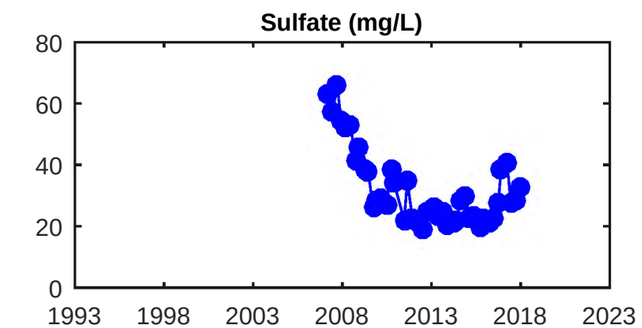
ARCADIS

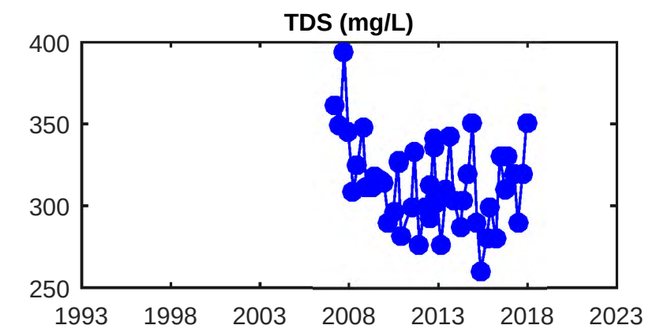
TOWN OF COLONIE LANDFILL - AREA 6
PZ-3

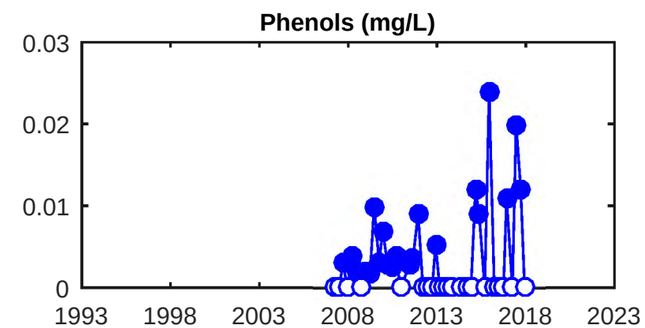


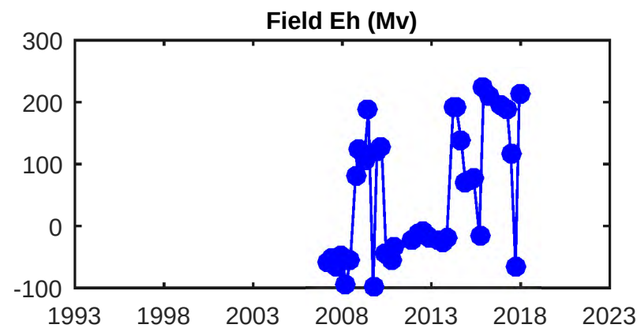


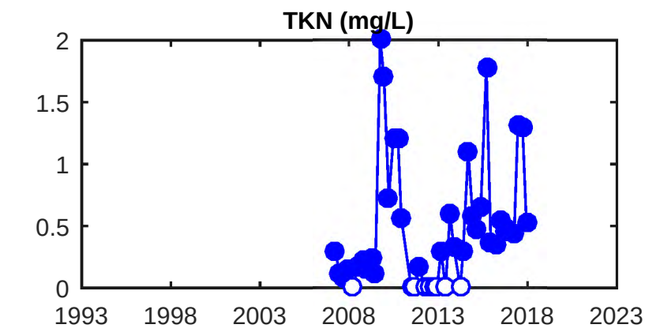








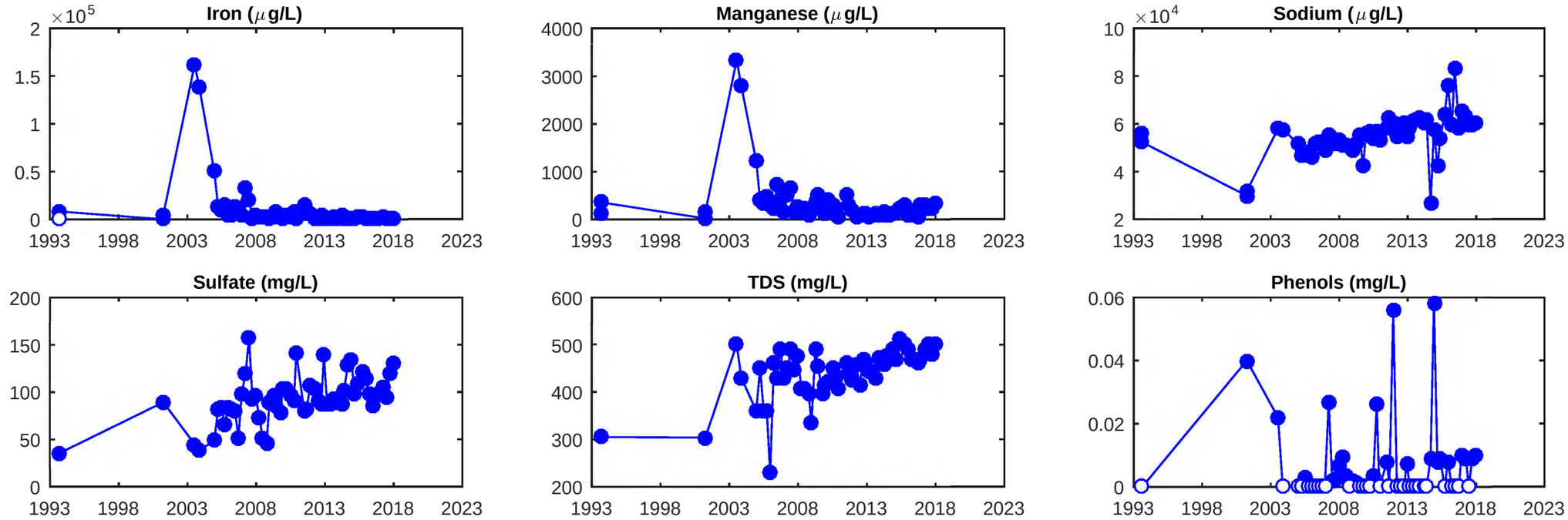




Notes:
1. Filled symbols represent detected results, open circles represent non-detected
2. Non-detected results are represented by a zero value.

ARCADIS

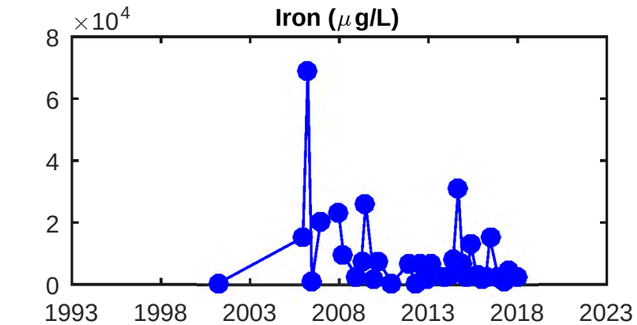
TOWN OF COLONIE LANDFILL - AREA 6
CHA-3I

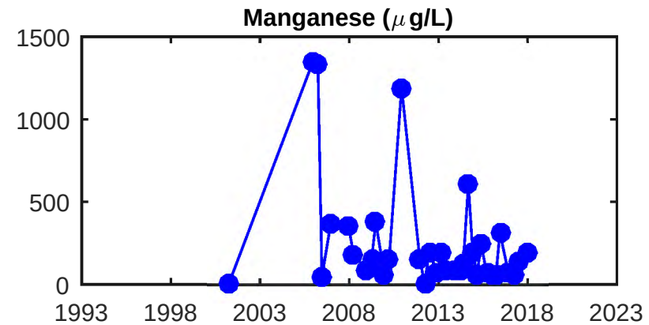


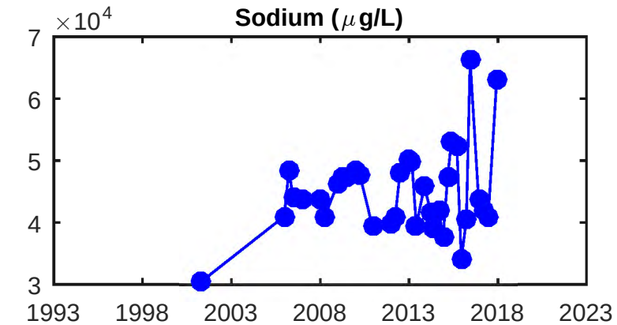
Notes:
1. Filled symbols represent detected results, open circles represent non-detected
2. Non-detected results are represented by a zero value.

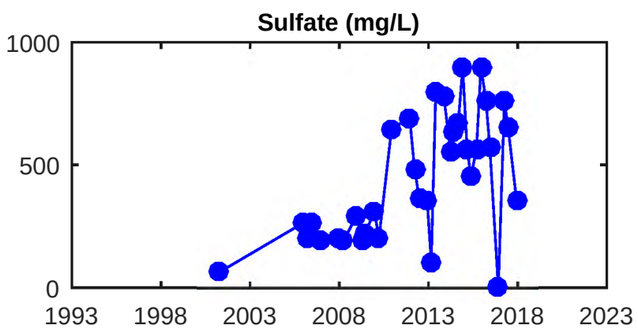
ARCADIS

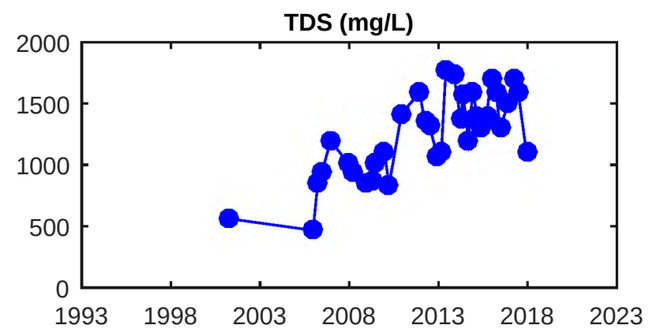
TOWN OF COLONIE LANDFILL - AREA 6
CHA-3S

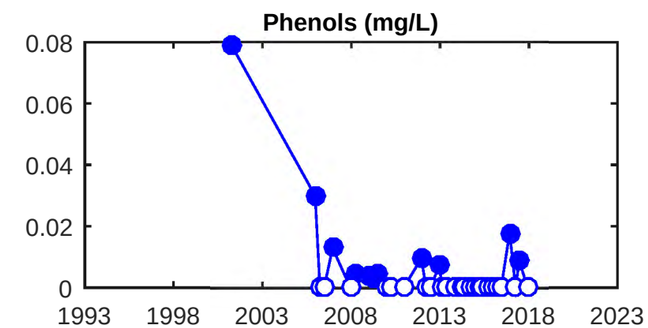


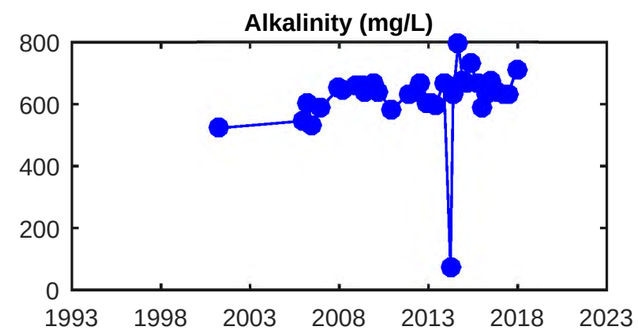


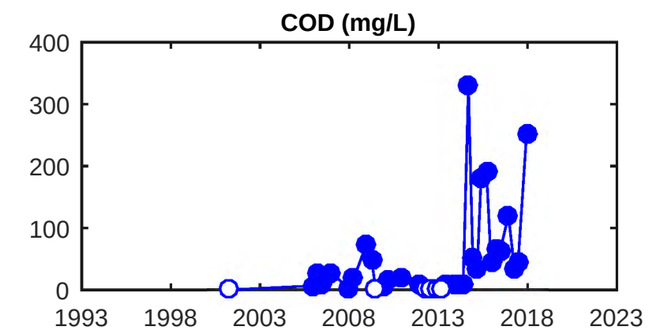








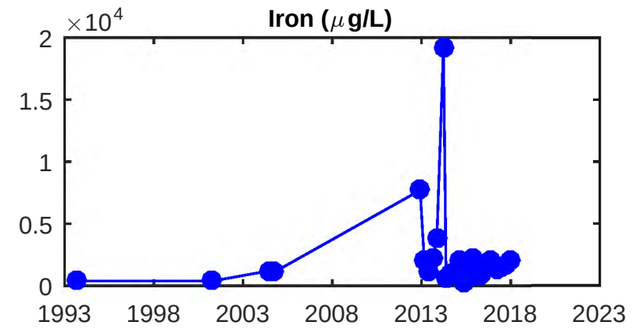


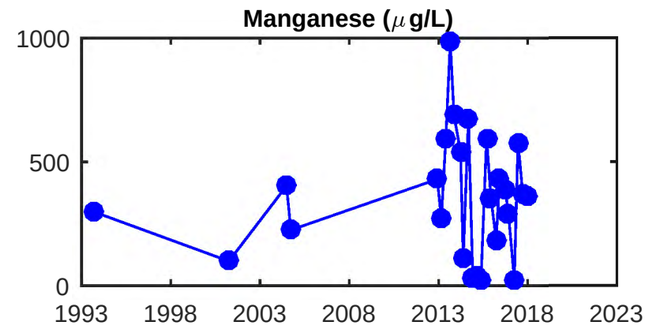


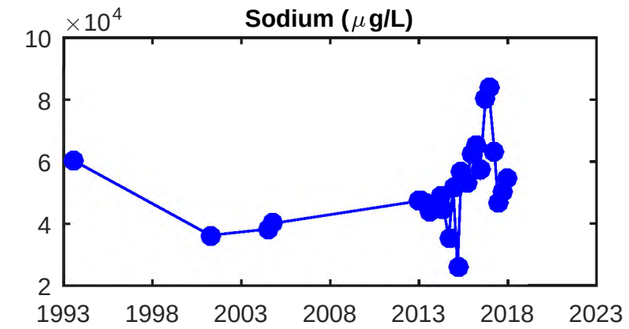
Notes:
1. Filled symbols represent detected results, open circles represent non-detected
2. Non-detected results are represented by a zero value.

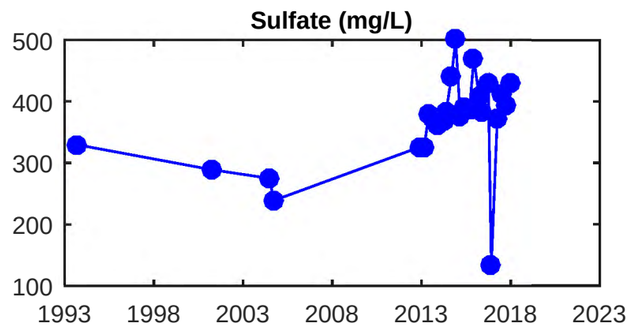
ARCADIS

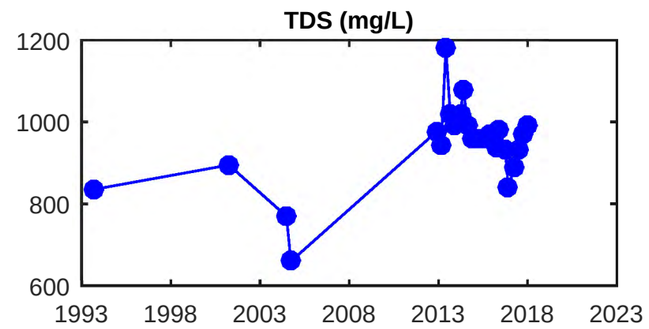
TOWN OF COLONIE LANDFILL - AREA 6
CHA-6I

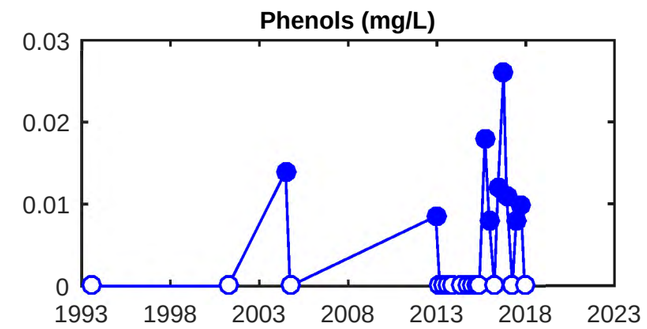


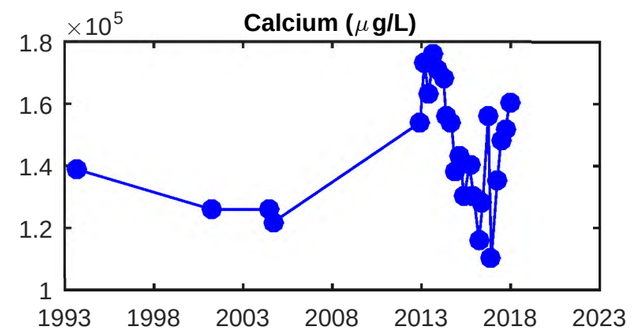


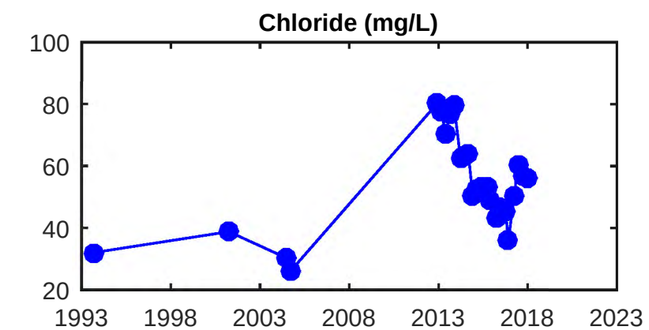








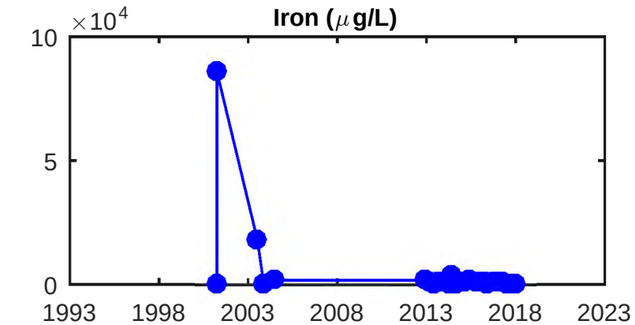


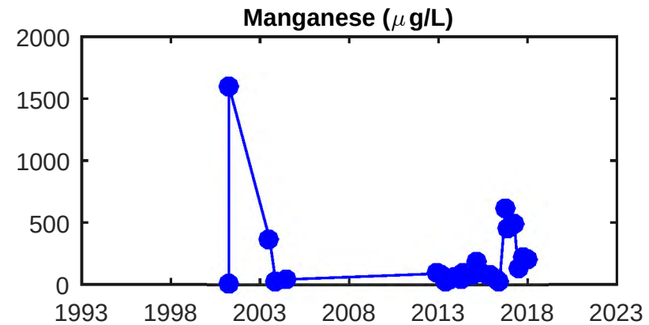


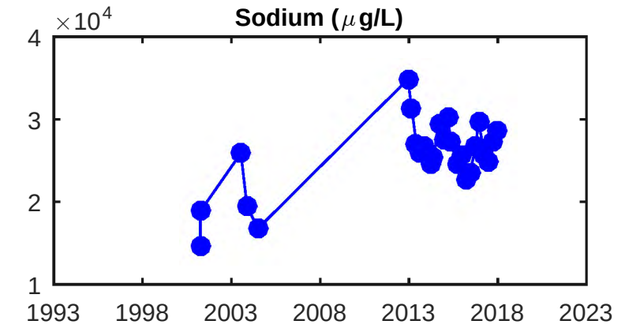
Notes:
1. Filled symbols represent detected results, open circles represent non-detected
2. Non-detected results are represented by a zero value.

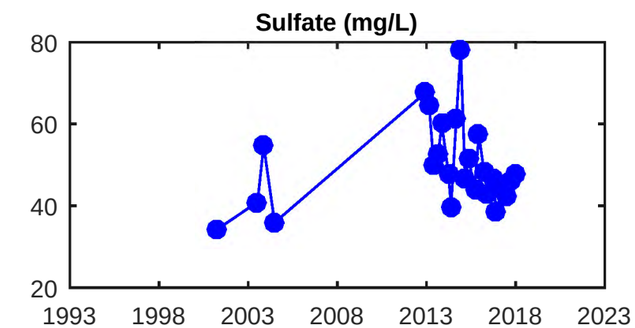
ARCADIS

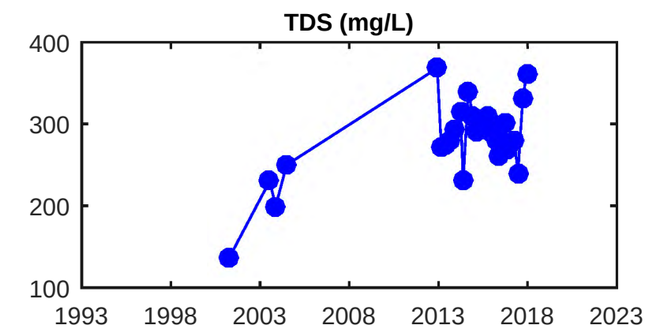
TOWN OF COLONIE LANDFILL - AREA 6
CHA-8I

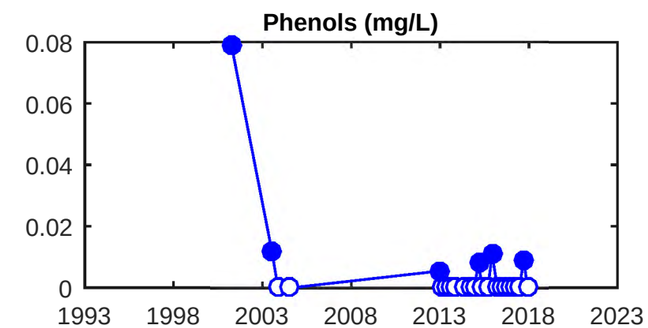


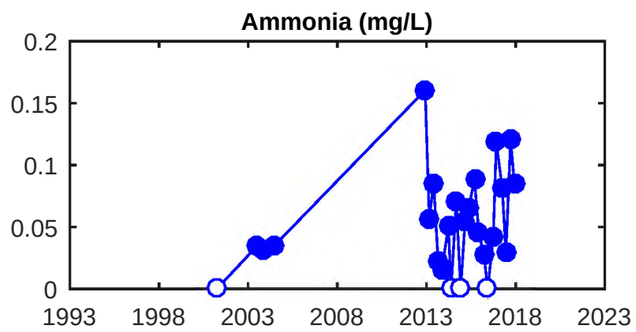


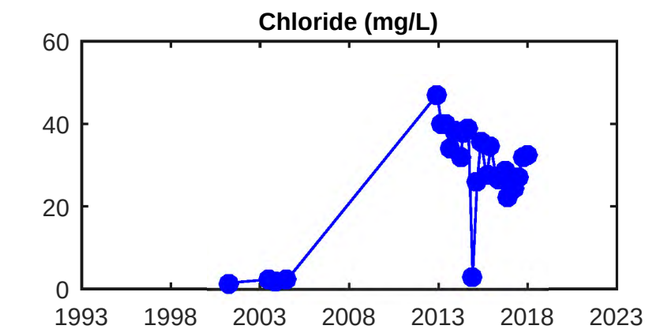








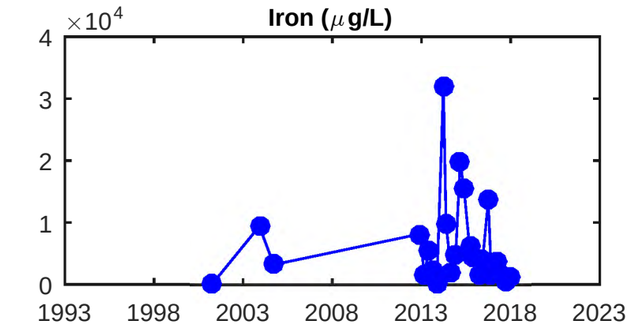


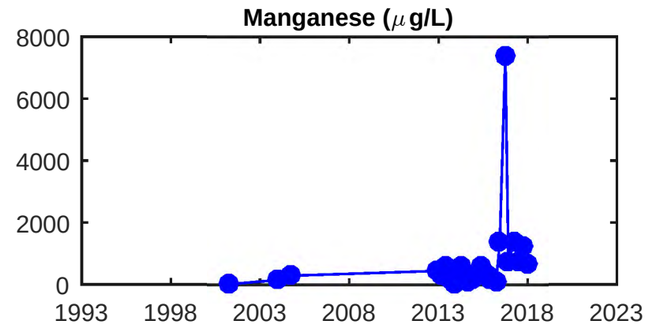


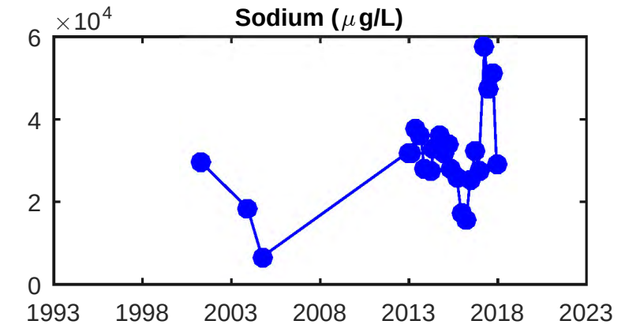
Notes:
1. Filled symbols represent detected results, open circles represent non-detected
2. Non-detected results are represented by a zero value.

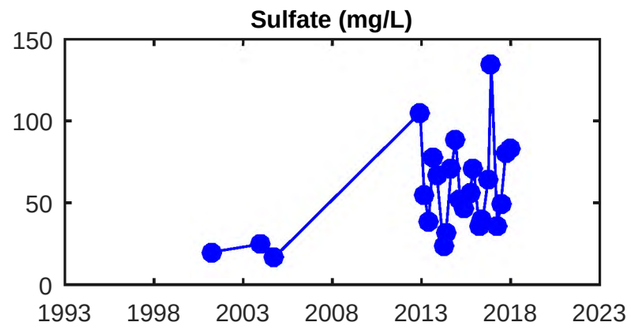
ARCADIS

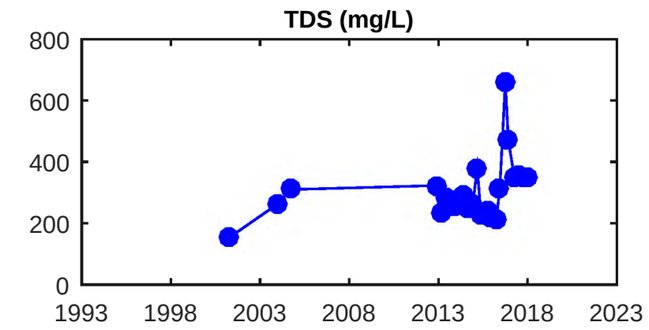
TOWN OF COLONIE LANDFILL - AREA 6
CHA-8S

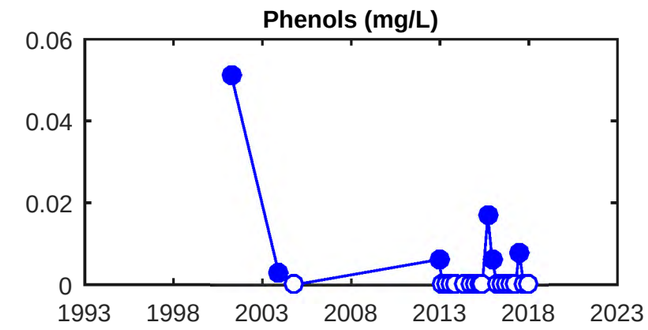


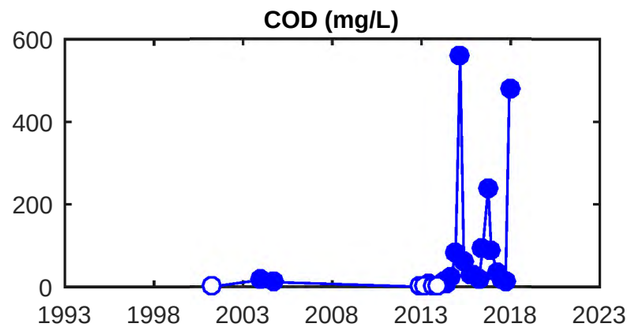


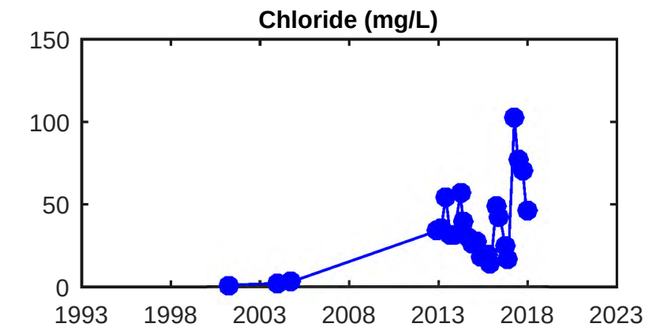


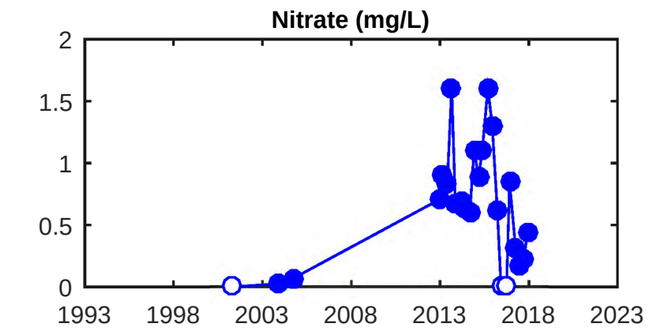


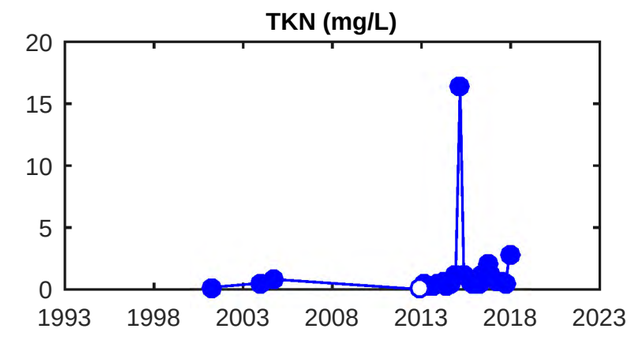








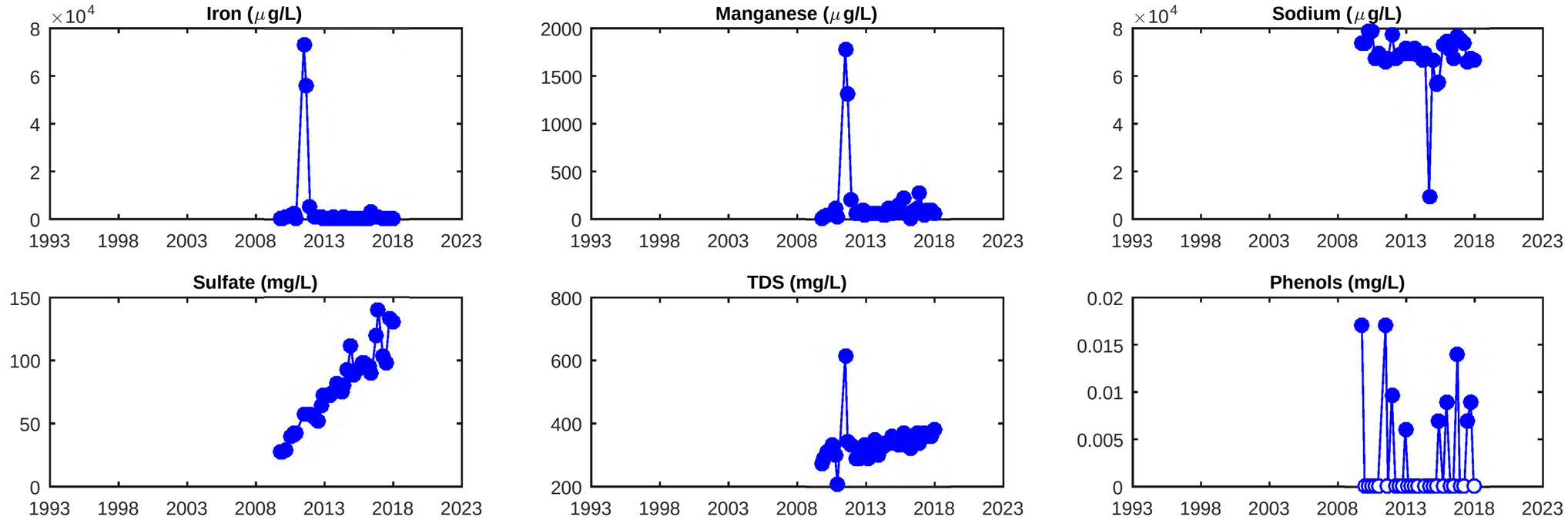




Notes:
1. Filled symbols represent detected results, open circles represent non-detected
2. Non-detected results are represented by a zero value.

ARCADIS

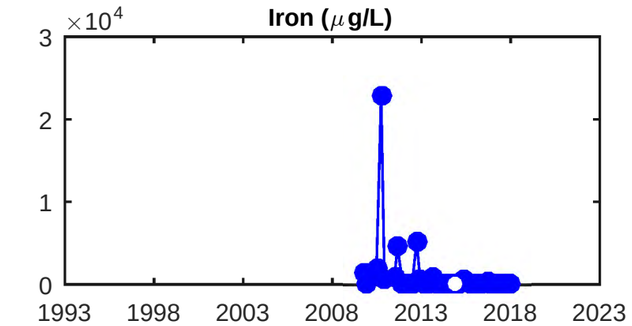
TOWN OF COLONIE LANDFILL - AREA 6
MPI-11I

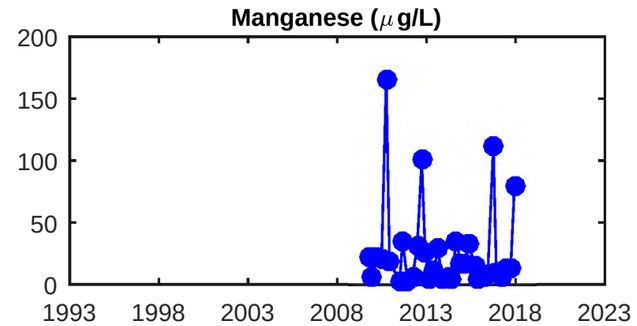


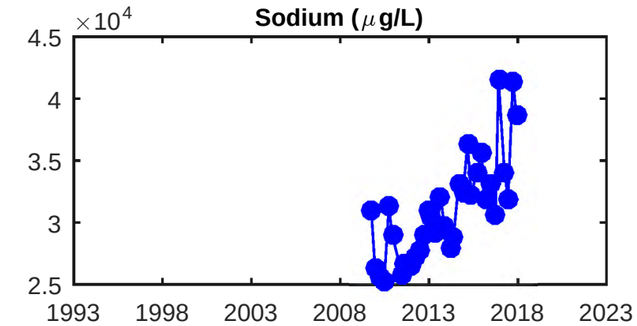
Notes:
1. Filled symbols represent detected results, open circles represent non-detected
2. Non-detected results are represented by a zero value.

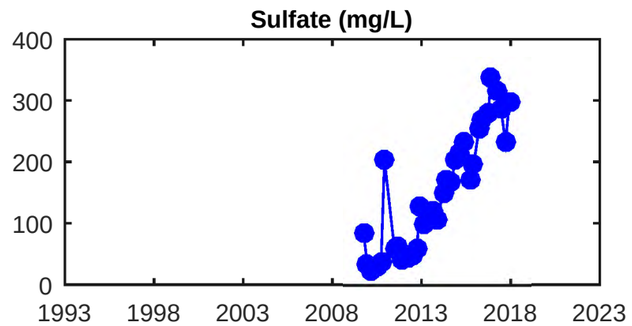
ARCADIS

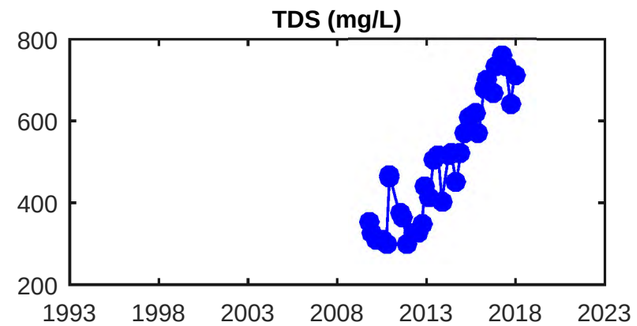
TOWN OF COLONIE LANDFILL - AREA 6
MPI-11S

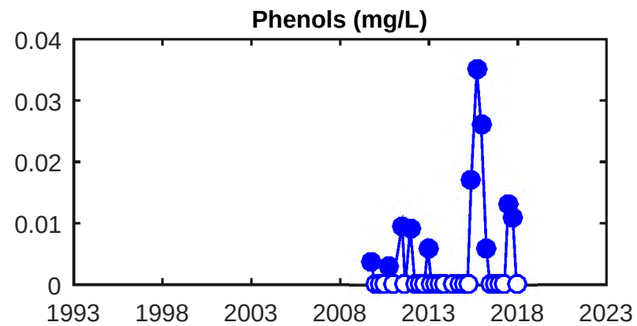












Notes:
1. Filled symbols represent detected results, open circles represent non-detected
2. Non-detected results are represented by a zero value.

APPENDIX B

Laboratory Analytical Summary Reports – December 2017

ANALYTICAL REPORT

Lab Number:	L1744594
Client:	Arcadis U.S, Inc. 855 Route 146, Suite 210 Clifton Park, NY 12065
ATTN:	Danielle Giroux
Phone:	(518) 250-7325
Project Name:	COLONIE LF AREA 6-ROUTINE
Project Number:	22396002.2017
Report Date:	12/15/17

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: COLONIE LF AREA 6-ROUTINE
Project Number: 22396002.2017

Lab Number: L1744594
Report Date: 12/15/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1744594-01	CHA-6I	WATER	Not Specified	12/05/17 11:30	12/05/17
L1744594-02	CHA-3S	WATER	Not Specified	12/05/17 12:15	12/05/17
L1744594-03	CHA-3I	WATER	Not Specified	12/05/17 12:45	12/05/17
L1744594-04	PZ-3	WATER	Not Specified	12/05/17 14:45	12/05/17
L1744594-05	CHA-3S	WATER	Not Specified	12/06/17 12:15	12/06/17
L1744594-06	S.L.-A	WATER	Not Specified	12/08/17 12:10	12/08/17
L1744594-07	S.L.-B	WATER	Not Specified	12/08/17 12:30	12/08/17
L1744594-08	PPRS PHASE I	WATER	Not Specified	12/08/17 12:45	12/08/17
L1744594-09	S.L.-C	WATER	Not Specified	12/08/17 12:55	12/08/17
L1744594-10	S.L.-D	WATER	Not Specified	12/08/17 13:10	12/08/17
L1744594-11	PPRS PHASE II	WATER	Not Specified	12/08/17 13:20	12/08/17

Project Name:	COLONIE LF AREA 6-ROUTINE	**Lab Number:**	L1744594
Project Number:	22396002.2017	**Report Date:**	12/15/17

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	COLONIE LF AREA 6-ROUTINE	**Lab Number:**	L1744594
Project Number:	22396002.2017	**Report Date:**	12/15/17

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Nitrogen, Ammonia

L1744594-02: The sample has an elevated detection limit due to the dilution required by the sample matrix.

Nitrogen, Nitrate

L1744594-06 through -11: The sample was analyzed for Nitrite within the method required holding time. An aliquot of sample was then preserved and analyzed for Nitrate.

Anions by Ion Chromatography

L1744594-07, -08, and -11: The sample has an elevated detection limit for Bromide due to the dilution required by the sample matrix.

The WG1071933-3 MS recovery, performed on L1744594-04, is outside the acceptance criteria for bromide (80%); however, the associated LCS recovery is within criteria. No further action was taken.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Lisa Westerlind

Title: Technical Director/Representative Date: 12/15/17

METALS

Project Name: COLONIE LF AREA 6-ROUTINE **Lab Number:** L1744594

Project Number: 22396002.2017 **Report Date:** 12/15/17

SAMPLE RESULTS

Lab ID: L1744594-01 Date Collected: 12/05/17 11:30

Client ID: CHA-6I Date Received: 12/05/17

Sample Location: Not Specified Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Cadmium, Total	ND		ug/l	0.2000	0.0599	1	12/08/17 11:48	12/12/17 15:26	EPA 3005A	1,6020A	AM
Calcium, Total	160000		ug/l	100.	39.4	1	12/08/17 11:48	12/12/17 15:26	EPA 3005A	1,6020A	AM
Iron, Total	1990		ug/l	50.0	19.1	1	12/08/17 11:48	12/12/17 15:26	EPA 3005A	1,6020A	AM
Lead, Total	0.5244	J	ug/l	1.000	0.3430	1	12/08/17 11:48	12/12/17 15:26	EPA 3005A	1,6020A	AM
Magnesium, Total	71000		ug/l	70.0	24.2	1	12/08/17 11:48	12/12/17 15:26	EPA 3005A	1,6020A	AM
Manganese, Total	364.8		ug/l	1.000	0.4400	1	12/08/17 11:48	12/12/17 15:26	EPA 3005A	1,6020A	AM
Potassium, Total	5450		ug/l	100.	30.9	1	12/08/17 11:48	12/12/17 15:26	EPA 3005A	1,6020A	AM
Sodium, Total	54300		ug/l	100.	29.3	1	12/08/17 11:48	12/12/17 15:26	EPA 3005A	1,6020A	AM
Total Hardness (by calculation) - Mansfield Lab											
Hardness	692800		ug/l	540.0	NA	1	12/08/17 11:48	12/12/17 15:26	EPA 3005A	1,6020A	AM

Project Name: COLONIE LF AREA 6-ROUTINE **Lab Number:** L1744594

Project Number: 22396002.2017 **Report Date:** 12/15/17

SAMPLE RESULTS

Lab ID: L1744594-03 Date Collected: 12/05/17 12:45

Client ID: CHA-3I Date Received: 12/05/17

Sample Location: Not Specified Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Cadmium, Total	ND		ug/l	0.2000	0.0599	1	12/08/17 11:48	12/12/17 15:30	EPA 3005A	1,6020A	AM
Calcium, Total	58200		ug/l	100.	39.4	1	12/08/17 11:48	12/12/17 15:30	EPA 3005A	1,6020A	AM
Iron, Total	1340		ug/l	50.0	19.1	1	12/08/17 11:48	12/12/17 15:30	EPA 3005A	1,6020A	AM
Lead, Total	0.4361	J	ug/l	1.000	0.3430	1	12/08/17 11:48	12/12/17 15:30	EPA 3005A	1,6020A	AM
Magnesium, Total	39600		ug/l	70.0	24.2	1	12/08/17 11:48	12/12/17 15:30	EPA 3005A	1,6020A	AM
Manganese, Total	350.3		ug/l	1.000	0.4400	1	12/08/17 11:48	12/12/17 15:30	EPA 3005A	1,6020A	AM
Potassium, Total	3140		ug/l	100.	30.9	1	12/08/17 11:48	12/12/17 15:30	EPA 3005A	1,6020A	AM
Sodium, Total	60300		ug/l	100.	29.3	1	12/08/17 11:48	12/12/17 15:30	EPA 3005A	1,6020A	AM
Total Hardness (by calculation) - Mansfield Lab											
Hardness	308700		ug/l	540.0	NA	1	12/08/17 11:48	12/12/17 15:30	EPA 3005A	1,6020A	AM

Project Name:	COLONIE LF AREA 6-ROUTINE	**Lab Number:**	L1744594
Project Number:	22396002.2017	**Report Date:**	12/15/17

SAMPLE RESULTS

Lab ID:	L1744594-04	Date Collected:	12/05/17 14:45
Client ID:	PZ-3	Date Received:	12/05/17
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Cadmium, Total	ND		ug/l	0.2000	0.0599	1	12/08/17 11:48	12/12/17 15:34	EPA 3005A	1,6020A	AM
Calcium, Total	69300		ug/l	100.	39.4	1	12/08/17 11:48	12/12/17 15:34	EPA 3005A	1,6020A	AM
Iron, Total	592.		ug/l	50.0	19.1	1	12/08/17 11:48	12/12/17 15:34	EPA 3005A	1,6020A	AM
Lead, Total	0.7344	J	ug/l	1.000	0.3430	1	12/08/17 11:48	12/12/17 15:34	EPA 3005A	1,6020A	AM
Magnesium, Total	27600		ug/l	70.0	24.2	1	12/08/17 11:48	12/12/17 15:34	EPA 3005A	1,6020A	AM
Manganese, Total	82.36		ug/l	1.000	0.4400	1	12/08/17 11:48	12/12/17 15:34	EPA 3005A	1,6020A	AM
Potassium, Total	2340		ug/l	100.	30.9	1	12/08/17 11:48	12/12/17 15:34	EPA 3005A	1,6020A	AM
Sodium, Total	15400		ug/l	100.	29.3	1	12/08/17 11:48	12/12/17 15:34	EPA 3005A	1,6020A	AM
Total Hardness (by calculation) - Mansfield Lab											
Hardness	286700		ug/l	540.0	NA	1	12/08/17 11:48	12/12/17 15:34	EPA 3005A	1,6020A	AM

Project Name: COLONIE LF AREA 6-ROUTINE **Lab Number:** L1744594

Project Number: 22396002.2017 **Report Date:** 12/15/17

SAMPLE RESULTS

Lab ID: L1744594-05 Date Collected: 12/06/17 12:15

Client ID: CHA-3S Date Received: 12/06/17

Sample Location: Not Specified Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Cadmium, Total	ND		ug/l	0.2000	0.0599	1	12/08/17 11:48	12/12/17 17:33	EPA 3005A	1,6020A	AM
Calcium, Total	120000		ug/l	100.	39.4	1	12/08/17 11:48	12/12/17 17:33	EPA 3005A	1,6020A	AM
Iron, Total	2240		ug/l	50.0	19.1	1	12/08/17 11:48	12/12/17 17:33	EPA 3005A	1,6020A	AM
Lead, Total	0.7355	J	ug/l	1.000	0.3430	1	12/08/17 11:48	12/12/17 17:33	EPA 3005A	1,6020A	AM
Magnesium, Total	127000		ug/l	70.0	24.2	1	12/08/17 11:48	12/12/17 17:33	EPA 3005A	1,6020A	AM
Manganese, Total	187.7		ug/l	1.000	0.4400	1	12/08/17 11:48	12/12/17 17:33	EPA 3005A	1,6020A	AM
Potassium, Total	3550		ug/l	100.	30.9	1	12/08/17 11:48	12/12/17 17:33	EPA 3005A	1,6020A	AM
Sodium, Total	62900		ug/l	100.	29.3	1	12/08/17 11:48	12/12/17 17:33	EPA 3005A	1,6020A	AM
Total Hardness (by calculation) - Mansfield Lab											
Hardness	820700		ug/l	540.0	NA	1	12/08/17 11:48	12/12/17 17:33	EPA 3005A	1,6020A	AM

Project Name: COLONIE LF AREA 6-ROUTINE **Lab Number:** L1744594

Project Number: 22396002.2017 **Report Date:** 12/15/17

SAMPLE RESULTS

Lab ID: L1744594-06 Date Collected: 12/08/17 12:10

Client ID: S.L.-A Date Received: 12/08/17

Sample Location: Not Specified Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Cadmium, Total	ND		ug/l	0.2000	0.0599	1	12/12/17 10:50	12/13/17 10:50	EPA 3005A	1,6020A	AM
Calcium, Total	146000		ug/l	100.	39.4	1	12/12/17 10:50	12/13/17 10:50	EPA 3005A	1,6020A	AM
Iron, Total	152.		ug/l	50.0	19.1	1	12/12/17 10:50	12/13/17 10:50	EPA 3005A	1,6020A	AM
Lead, Total	3.476		ug/l	1.000	0.3430	1	12/12/17 10:50	12/13/17 10:50	EPA 3005A	1,6020A	AM
Magnesium, Total	31300		ug/l	70.0	24.2	1	12/12/17 10:50	12/13/17 10:50	EPA 3005A	1,6020A	AM
Manganese, Total	1406.		ug/l	1.000	0.4400	1	12/12/17 10:50	12/13/17 10:50	EPA 3005A	1,6020A	AM
Potassium, Total	1510		ug/l	100.	30.9	1	12/12/17 10:50	12/13/17 10:50	EPA 3005A	1,6020A	AM
Sodium, Total	93800		ug/l	100.	29.3	1	12/12/17 10:50	12/13/17 10:50	EPA 3005A	1,6020A	AM
Total Hardness (by calculation) - Mansfield Lab											
Hardness	494000		ug/l	540.0	NA	1	12/12/17 10:50	12/13/17 10:50	EPA 3005A	1,6020A	AM

Project Name: COLONIE LF AREA 6-ROUTINE **Lab Number:** L1744594

Project Number: 22396002.2017 **Report Date:** 12/15/17

SAMPLE RESULTS

Lab ID: L1744594-07 Date Collected: 12/08/17 12:30

Client ID: S.L.-B Date Received: 12/08/17

Sample Location: Not Specified Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Cadmium, Total	ND		ug/l	0.2000	0.0599	1	12/12/17 10:50	12/13/17 10:54	EPA 3005A	1,6020A	AM
Calcium, Total	138000		ug/l	100.	39.4	1	12/12/17 10:50	12/13/17 10:54	EPA 3005A	1,6020A	AM
Iron, Total	496.		ug/l	50.0	19.1	1	12/12/17 10:50	12/13/17 10:54	EPA 3005A	1,6020A	AM
Lead, Total	1.985		ug/l	1.000	0.3430	1	12/12/17 10:50	12/13/17 10:54	EPA 3005A	1,6020A	AM
Magnesium, Total	37600		ug/l	70.0	24.2	1	12/12/17 10:50	12/13/17 10:54	EPA 3005A	1,6020A	AM
Manganese, Total	2415.		ug/l	1.000	0.4400	1	12/12/17 10:50	12/13/17 10:54	EPA 3005A	1,6020A	AM
Potassium, Total	1650		ug/l	100.	30.9	1	12/12/17 10:50	12/13/17 10:54	EPA 3005A	1,6020A	AM
Sodium, Total	119000		ug/l	100.	29.3	1	12/12/17 10:50	12/13/17 10:54	EPA 3005A	1,6020A	AM
Total Hardness (by calculation) - Mansfield Lab											
Hardness	500600		ug/l	540.0	NA	1	12/12/17 10:50	12/13/17 10:54	EPA 3005A	1,6020A	AM

Project Name: COLONIE LF AREA 6-ROUTINE **Lab Number:** L1744594

Project Number: 22396002.2017 **Report Date:** 12/15/17

SAMPLE RESULTS

Lab ID: L1744594-08 Date Collected: 12/08/17 12:45

Client ID: PPRS PHASE I Date Received: 12/08/17

Sample Location: Not Specified Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Cadmium, Total	ND		ug/l	0.2000	0.0599	1	12/12/17 10:50	12/13/17 10:58	EPA 3005A	1,6020A	AM
Calcium, Total	471000		ug/l	100.	39.4	1	12/12/17 10:50	12/13/17 10:58	EPA 3005A	1,6020A	AM
Iron, Total	11600		ug/l	50.0	19.1	1	12/12/17 10:50	12/13/17 10:58	EPA 3005A	1,6020A	AM
Lead, Total	ND		ug/l	1.000	0.3430	1	12/12/17 10:50	12/13/17 10:58	EPA 3005A	1,6020A	AM
Magnesium, Total	153000		ug/l	70.0	24.2	1	12/12/17 10:50	12/13/17 10:58	EPA 3005A	1,6020A	AM
Manganese, Total	9735.		ug/l	1.000	0.4400	1	12/12/17 10:50	12/13/17 10:58	EPA 3005A	1,6020A	AM
Potassium, Total	8180		ug/l	100.	30.9	1	12/12/17 10:50	12/13/17 10:58	EPA 3005A	1,6020A	AM
Sodium, Total	75000		ug/l	100.	29.3	1	12/12/17 10:50	12/13/17 10:58	EPA 3005A	1,6020A	AM
Total Hardness (by calculation) - Mansfield Lab											
Hardness	1804000		ug/l	540.0	NA	1	12/12/17 10:50	12/13/17 10:58	EPA 3005A	1,6020A	AM

Project Name: COLONIE LF AREA 6-ROUTINE **Lab Number:** L1744594

Project Number: 22396002.2017 **Report Date:** 12/15/17

SAMPLE RESULTS

Lab ID: L1744594-09 Date Collected: 12/08/17 12:55

Client ID: S.L.-C Date Received: 12/08/17

Sample Location: Not Specified Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Cadmium, Total	ND		ug/l	0.2000	0.0599	1	12/12/17 10:50	12/13/17 11:02	EPA 3005A	1,6020A	AM
Calcium, Total	122000		ug/l	100.	39.4	1	12/12/17 10:50	12/13/17 11:02	EPA 3005A	1,6020A	AM
Iron, Total	898.		ug/l	50.0	19.1	1	12/12/17 10:50	12/13/17 11:02	EPA 3005A	1,6020A	AM
Lead, Total	ND		ug/l	1.000	0.3430	1	12/12/17 10:50	12/13/17 11:02	EPA 3005A	1,6020A	AM
Magnesium, Total	20000		ug/l	70.0	24.2	1	12/12/17 10:50	12/13/17 11:02	EPA 3005A	1,6020A	AM
Manganese, Total	1714.		ug/l	1.000	0.4400	1	12/12/17 10:50	12/13/17 11:02	EPA 3005A	1,6020A	AM
Potassium, Total	1640		ug/l	100.	30.9	1	12/12/17 10:50	12/13/17 11:02	EPA 3005A	1,6020A	AM
Sodium, Total	54800		ug/l	100.	29.3	1	12/12/17 10:50	12/13/17 11:02	EPA 3005A	1,6020A	AM
Total Hardness (by calculation) - Mansfield Lab											
Hardness	386400		ug/l	540.0	NA	1	12/12/17 10:50	12/13/17 11:02	EPA 3005A	1,6020A	AM

Project Name: COLONIE LF AREA 6-ROUTINE **Lab Number:** L1744594

Project Number: 22396002.2017 **Report Date:** 12/15/17

SAMPLE RESULTS

Lab ID: L1744594-10 Date Collected: 12/08/17 13:10

Client ID: S.L.-D Date Received: 12/08/17

Sample Location: Not Specified Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Cadmium, Total	ND		ug/l	0.2000	0.0599	1	12/12/17 10:50	12/13/17 11:06	EPA 3005A	1,6020A	AM
Calcium, Total	140000		ug/l	100.	39.4	1	12/12/17 10:50	12/13/17 11:06	EPA 3005A	1,6020A	AM
Iron, Total	115.		ug/l	50.0	19.1	1	12/12/17 10:50	12/13/17 11:06	EPA 3005A	1,6020A	AM
Lead, Total	ND		ug/l	1.000	0.3430	1	12/12/17 10:50	12/13/17 11:06	EPA 3005A	1,6020A	AM
Magnesium, Total	24800		ug/l	70.0	24.2	1	12/12/17 10:50	12/13/17 11:06	EPA 3005A	1,6020A	AM
Manganese, Total	2273.		ug/l	1.000	0.4400	1	12/12/17 10:50	12/13/17 11:06	EPA 3005A	1,6020A	AM
Potassium, Total	2070		ug/l	100.	30.9	1	12/12/17 10:50	12/13/17 11:06	EPA 3005A	1,6020A	AM
Sodium, Total	53800		ug/l	100.	29.3	1	12/12/17 10:50	12/13/17 11:06	EPA 3005A	1,6020A	AM
Total Hardness (by calculation) - Mansfield Lab											
Hardness	452200		ug/l	540.0	NA	1	12/12/17 10:50	12/13/17 11:06	EPA 3005A	1,6020A	AM

Project Name:	COLONIE LF AREA 6-ROUTINE	**Lab Number:**	L1744594
Project Number:	22396002.2017	**Report Date:**	12/15/17

SAMPLE RESULTS

Lab ID:	L1744594-11	Date Collected:	12/08/17 13:20
Client ID:	PPRS PHASE II	Date Received:	12/08/17
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Cadmium, Total	ND		ug/l	0.2000	0.0599	1	12/12/17 10:50	12/13/17 11:11	EPA 3005A	1,6020A	AM
Calcium, Total	454000		ug/l	100.	39.4	1	12/12/17 10:50	12/13/17 11:11	EPA 3005A	1,6020A	AM
Iron, Total	1510		ug/l	50.0	19.1	1	12/12/17 10:50	12/13/17 11:11	EPA 3005A	1,6020A	AM
Lead, Total	ND		ug/l	1.000	0.3430	1	12/12/17 10:50	12/13/17 11:11	EPA 3005A	1,6020A	AM
Magnesium, Total	186000		ug/l	70.0	24.2	1	12/12/17 10:50	12/13/17 11:11	EPA 3005A	1,6020A	AM
Manganese, Total	3940.		ug/l	1.000	0.4400	1	12/12/17 10:50	12/13/17 11:11	EPA 3005A	1,6020A	AM
Potassium, Total	13400		ug/l	100.	30.9	1	12/12/17 10:50	12/13/17 11:11	EPA 3005A	1,6020A	AM
Sodium, Total	81200		ug/l	100.	29.3	1	12/12/17 10:50	12/13/17 11:11	EPA 3005A	1,6020A	AM
Total Hardness (by calculation) - Mansfield Lab											
Hardness	1898000		ug/l	540.0	NA	1	12/12/17 10:50	12/13/17 11:11	EPA 3005A	1,6020A	AM

Project Name: COLONIE LF AREA 6-ROUTINE **Lab Number:** L1744594

Project Number: 22396002.2017 **Report Date:** 12/15/17

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01,03-05 Batch: WG1070561-1										
Cadmium, Total	ND		ug/l	0.2000	0.0599	1	12/08/17 11:48	12/12/17 14:10	1,6020A	AM
Calcium, Total	ND		ug/l	100	39.4	1	12/08/17 11:48	12/12/17 14:10	1,6020A	AM
Iron, Total	ND		ug/l	50.0	19.1	1	12/08/17 11:48	12/12/17 14:10	1,6020A	AM
Lead, Total	ND		ug/l	1.000	0.3430	1	12/08/17 11:48	12/12/17 14:10	1,6020A	AM
Magnesium, Total	ND		ug/l	70.0	24.2	1	12/08/17 11:48	12/12/17 14:10	1,6020A	AM
Manganese, Total	ND		ug/l	1.000	0.4400	1	12/08/17 11:48	12/12/17 14:10	1,6020A	AM
Potassium, Total	ND		ug/l	100	30.9	1	12/08/17 11:48	12/12/17 14:10	1,6020A	AM
Sodium, Total	ND		ug/l	100	29.3	1	12/08/17 11:48	12/12/17 14:10	1,6020A	AM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Hardness (by calculation) - Mansfield Lab for sample(s): 01,03-05 Batch: WG1070561-1										
Hardness	ND		ug/l	540.0	NA	1	12/08/17 11:48	12/12/17 14:10	1,6020A	AM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 06-11 Batch: WG1071647-1										
Cadmium, Total	ND		ug/l	0.2000	0.0599	1	12/12/17 10:50	12/13/17 09:56	1,6020A	AM
Calcium, Total	ND		ug/l	100	39.4	1	12/12/17 10:50	12/13/17 09:56	1,6020A	AM
Iron, Total	ND		ug/l	50.0	19.1	1	12/12/17 10:50	12/13/17 09:56	1,6020A	AM
Lead, Total	ND		ug/l	1.000	0.3430	1	12/12/17 10:50	12/13/17 09:56	1,6020A	AM
Magnesium, Total	ND		ug/l	70.0	24.2	1	12/12/17 10:50	12/13/17 09:56	1,6020A	AM
Manganese, Total	1.180	J	ug/l	2.000	0.4400	1	12/12/17 10:50	12/13/17 09:56	1,6020A	AM
Potassium, Total	ND		ug/l	100	30.9	1	12/12/17 10:50	12/13/17 09:56	1,6020A	AM
Sodium, Total	ND		ug/l	100	29.3	1	12/12/17 10:50	12/13/17 09:56	1,6020A	AM

Project Name: COLONIE LF AREA 6-ROUTINE **Lab Number:** L1744594

Project Number: 22396002.2017 **Report Date:** 12/15/17

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Hardness (by calculation) - Mansfield Lab for sample(s): 06-11 Batch: WG1071647-1										
Hardness	ND		ug/l	540.0	NA	1	12/12/17 10:50	12/13/17 09:56	1,6020A	AM

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis
Batch Quality Control

Project Name: COLONIE LF AREA 6-ROUTINE
Project Number: 22396002.2017

Lab Number: L1744594
Report Date: 12/15/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01,03-05 Batch: WG1070561-2								
Cadmium, Total	100		-		80-120	-		
Calcium, Total	108		-		80-120	-		
Iron, Total	104		-		80-120	-		
Lead, Total	109		-		80-120	-		
Magnesium, Total	112		-		80-120	-		
Manganese, Total	105		-		80-120	-		
Potassium, Total	112		-		80-120	-		
Sodium, Total	111		-		80-120	-		
Total Hardness (by calculation) - Mansfield Lab Associated sample(s): 01,03-05 Batch: WG1070561-2								
Hardness	110		-		80-120	-		
Total Metals - Mansfield Lab Associated sample(s): 06-11 Batch: WG1071647-2								
Cadmium, Total	105		-		80-120	-		
Calcium, Total	113		-		80-120	-		
Iron, Total	108		-		80-120	-		
Lead, Total	113		-		80-120	-		
Magnesium, Total	108		-		80-120	-		
Manganese, Total	109		-		80-120	-		
Potassium, Total	109		-		80-120	-		
Sodium, Total	110		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: COLONIE LF AREA 6-ROUTINE

Project Number: 22396002.2017

Lab Number: L1744594

Report Date: 12/15/17

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Hardness (by calculation) - Mansfield Lab Associated sample(s): 06-11 Batch: WG1071647-2					
Hardness	110	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: COLONIE LF AREA 6-ROUTINE
Project Number: 22396002.2017

Lab Number: L1744594
Report Date: 12/15/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01,03-05 QC Batch ID: WG1070561-3 QC Sample: L1744593-01 Client ID: MS Sample												
Cadmium, Total	ND	51	50.62	99		-	-		75-125	-		20
Calcium, Total	300000	10000	283000	**0**	Q	-	-		75-125	-		20
Iron, Total	410.	1000	1420	101		-	-		75-125	-		20
Lead, Total	0.7642J	510	568.7	112		-	-		75-125	-		20
Magnesium, Total	53700	10000	71300	**176**	Q	-	-		75-125	-		20
Manganese, Total	323.8	500	825.0	100		-	-		75-125	-		20
Potassium, Total	14800	10000	24400	96		-	-		75-125	-		20
Sodium, Total	65700	10000	75700	100		-	-		75-125	-		20
Total Hardness (by calculation) - Mansfield Lab Associated sample(s): 01,03-05 QC Batch ID: WG1070561-3 QC Sample: L1744593-01 Client ID: MS Sample												
Hardness	971100	66200	1000000	**44**	Q	-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 06-11 QC Batch ID: WG1071647-3 QC Sample: L1744593-14 Client ID: MS Sample												
Cadmium, Total	ND	51	53.08	104		-	-		75-125	-		20
Calcium, Total	265000	10000	258000	**0**	Q	-	-		75-125	-		20
Iron, Total	2960	1000	3840	88		-	-		75-125	-		20
Lead, Total	ND	510	581.2	114		-	-		75-125	-		20
Magnesium, Total	94700	10000	117000	**223**	Q	-	-		75-125	-		20
Manganese, Total	1900.	500	2356	91		-	-		75-125	-		20
Potassium, Total	12500	10000	22700	102		-	-		75-125	-		20
Sodium, Total	156000	10000	162000	**60**	Q	-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: COLONIE LF AREA 6-ROUTINE
Project Number: 22396002.2017

Lab Number: L1744594
Report Date: 12/15/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Hardness (by calculation) - Mansfield Lab Associated sample(s): 06-11 QC Batch ID: WG1071647-3 QC Sample: L1744593-14 Client ID: MS Sample									
Hardness	1051000	66200	1127000	115	-	-	75-125	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: COLONIE LF AREA 6-ROUTINE
Project Number: 22396002.2017

Lab Number: L1744594
Report Date: 12/15/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01,03-05 QC Batch ID: WG1070561-4 QC Sample: L1744593-01 Client ID: DUP Sample						
Cadmium, Total	ND	ND	ug/l	NC		20
Calcium, Total	300000	295000	ug/l	2		20
Iron, Total	410.	386	ug/l	6		20
Lead, Total	0.7642J	0.7759J	ug/l	NC		20
Magnesium, Total	53700	53400	ug/l	1		20
Manganese, Total	323.8	318.8	ug/l	2		20
Potassium, Total	14800	14300	ug/l	3		20
Sodium, Total	65700	64800	ug/l	1		20
Total Hardness (by calculation) - Mansfield Lab Associated sample(s): 01,03-05 QC Batch ID: WG1070561-4 QC Sample: L1744593-01 Client ID: DUP Sample						
Hardness	971100	957500	ug/l	1		20
Total Metals - Mansfield Lab Associated sample(s): 06-11 QC Batch ID: WG1071647-4 QC Sample: L1744593-14 Client ID: DUP Sample						
Cadmium, Total	ND	ND	ug/l	NC		20
Calcium, Total	265000	256000	ug/l	3		20
Iron, Total	2960	2880	ug/l	3		20
Lead, Total	ND	ND	ug/l	NC		20
Magnesium, Total	94700	95000	ug/l	0		20
Manganese, Total	1900.	1856	ug/l	2		20
Potassium, Total	12500	12100	ug/l	3		20
Sodium, Total	156000	156000	ug/l	0		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: COLONIE LF AREA 6-ROUTINE
Project Number: 22396002.2017

Lab Number: L1744594
Report Date: 12/15/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Hardness (by calculation) - Mansfield Lab Associated sample(s): 06-11 QC Batch ID: WG1071647-4 QC Sample: L1744593-14 Client ID: DUP Sample					
Hardness	1051000	1032000	ug/l	2	20

INORGANICS
&
MISCELLANEOUS

Project Name: COLONIE LF AREA 6-ROUTINE
Project Number: 22396002.2017

Lab Number: L1744594
Report Date: 12/15/17

SAMPLE RESULTS

Lab ID: L1744594-01
Client ID: CHA-6I
Sample Location: Not Specified
Matrix: Water

Date Collected: 12/05/17 11:30
Date Received: 12/05/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	364.		mg CaCO3/L	2.00	NA	1	-	12/06/17 09:34	121,2320B	BR
Solids, Total Dissolved	990		mg/l	10	3.1	1	-	12/06/17 23:15	121,2540C	CW
Nitrogen, Ammonia	0.232		mg/l	0.075	0.024	1	12/07/17 14:09	12/12/17 21:09	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.033	1	-	12/06/17 20:07	44,353.2	MR
Nitrogen, Total Kjeldahl	0.408		mg/l	0.300	0.066	1	12/07/17 14:00	12/12/17 20:39	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	3.8	J	mg/l	10	2.7	1	12/13/17 22:05	12/14/17 00:35	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	12/06/17 08:20	12/11/17 10:30	121,5210B	TE
Total Organic Carbon	1.32		mg/l	1.00	0.228	2	-	12/07/17 07:28	121,5310C	DW
Phenolics, Total	ND		mg/l	0.030	0.006	1	12/07/17 12:13	12/07/17 15:44	4,420.1	AW
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.009	1	-	12/08/17 19:02	44,300.0	AU
Chloride	55.9		mg/l	12.5	2.10	25	-	12/08/17 19:14	44,300.0	AU
Sulfate	428.		mg/l	25.0	4.00	25	-	12/08/17 19:14	44,300.0	AU

Project Name: COLONIE LF AREA 6-ROUTINE
Project Number: 22396002.2017

Lab Number: L1744594
Report Date: 12/15/17

SAMPLE RESULTS

Lab ID: L1744594-02
Client ID: CHA-3S
Sample Location: Not Specified
Matrix: Water

Date Collected: 12/05/17 12:15
Date Received: 12/05/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	711.		mg CaCO3/L	5.00	NA	2.5	-	12/06/17 09:34	121,2320B	BR
Nitrogen, Ammonia	0.115	J	mg/l	0.150	0.048	2	12/07/17 14:09	12/12/17 21:10	44,350.1	AT
Nitrogen, Total Kjeldahl	4.52		mg/l	0.600	0.132	2	12/07/17 14:00	12/12/17 20:40	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	250		mg/l	40	11.	4	12/13/17 22:05	12/14/17 00:35	44,410.4	TL
Phenolics, Total	ND		mg/l	0.030	0.006	1	12/07/17 12:13	12/07/17 15:45	4,420.1	AW

Project Name: COLONIE LF AREA 6-ROUTINE
Project Number: 22396002.2017

Lab Number: L1744594
Report Date: 12/15/17

SAMPLE RESULTS

Lab ID: L1744594-03
Client ID: CHA-3I
Sample Location: Not Specified
Matrix: Water

Date Collected: 12/05/17 12:45
Date Received: 12/05/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	329.		mg CaCO3/L	2.00	NA	1	-	12/06/17 09:34	121,2320B	BR
Solids, Total Dissolved	500		mg/l	10	3.1	1	-	12/06/17 23:15	121,2540C	CW
Nitrogen, Ammonia	0.299		mg/l	0.075	0.024	1	12/07/17 14:09	12/12/17 21:13	44,350.1	AT
Nitrogen, Nitrate	0.061	J	mg/l	0.10	0.033	1	-	12/06/17 20:09	44,353.2	MR
Nitrogen, Total Kjeldahl	0.533		mg/l	0.300	0.066	1	12/07/17 14:00	12/12/17 20:41	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	2.7	1	12/13/17 22:05	12/14/17 00:36	44,410.4	TL
BOD, 5 day	2.3		mg/l	2.0	NA	1	12/06/17 08:20	12/11/17 10:30	121,5210B	TE
Total Organic Carbon	1.39		mg/l	1.00	0.228	2	-	12/07/17 07:28	121,5310C	DW
Phenolics, Total	0.010	J	mg/l	0.030	0.006	1	12/07/17 12:13	12/07/17 15:46	4,420.1	AW
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.009	1	-	12/08/17 19:26	44,300.0	AU
Chloride	3.04		mg/l	0.500	0.083	1	-	12/08/17 19:26	44,300.0	AU
Sulfate	130.		mg/l	25.0	4.00	25	-	12/08/17 19:38	44,300.0	AU

Project Name: COLONIE LF AREA 6-ROUTINE
Project Number: 22396002.2017

Lab Number: L1744594
Report Date: 12/15/17

SAMPLE RESULTS

Lab ID: L1744594-04
Client ID: PZ-3
Sample Location: Not Specified
Matrix: Water

Date Collected: 12/05/17 14:45
Date Received: 12/05/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	281.		mg CaCO3/L	2.00	NA	1	-	12/06/17 09:34	121,2320B	BR
Solids, Total Dissolved	350		mg/l	10	3.1	1	-	12/06/17 23:15	121,2540C	CW
Nitrogen, Ammonia	0.047	J	mg/l	0.075	0.024	1	12/07/17 14:09	12/12/17 21:14	44,350.1	AT
Nitrogen, Nitrate	0.39		mg/l	0.10	0.033	1	-	12/06/17 20:10	44,353.2	MR
Nitrogen, Total Kjeldahl	0.522		mg/l	0.300	0.066	1	12/07/17 14:00	12/12/17 20:42	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	2.7	1	12/13/17 22:05	12/14/17 00:36	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	12/06/17 08:20	12/11/17 10:30	121,5210B	TE
Total Organic Carbon	1.20		mg/l	1.00	0.228	2	-	12/07/17 07:28	121,5310C	DW
Phenolics, Total	ND		mg/l	0.030	0.006	1	12/07/17 12:13	12/07/17 15:48	4,420.1	AW
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.009	1	-	12/08/17 20:38	44,300.0	AU
Chloride	1.60		mg/l	0.500	0.083	1	-	12/08/17 20:38	44,300.0	AU
Sulfate	32.5		mg/l	1.00	0.160	1	-	12/08/17 20:38	44,300.0	AU

Project Name: COLONIE LF AREA 6-ROUTINE
Project Number: 22396002.2017

Lab Number: L1744594
Report Date: 12/15/17

SAMPLE RESULTS

Lab ID: L1744594-05
Client ID: CHA-3S
Sample Location: Not Specified
Matrix: Water

Date Collected: 12/06/17 12:15
Date Received: 12/06/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Dissolved	1100		mg/l	20	6.1	2	-	12/11/17 21:30	121,2540C	RP
Nitrogen, Nitrate	0.14		mg/l	0.10	0.033	1	-	12/07/17 20:16	44,353.2	MR
BOD, 5 day	ND		mg/l	2.0	NA	1	12/07/17 09:55	12/12/17 09:35	121,5210B	TE
Total Organic Carbon	2.51		mg/l	1.00	0.228	2	-	12/07/17 07:28	121,5310C	DW
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.009	1	-	12/08/17 20:50	44,300.0	AU
Chloride	14.4		mg/l	0.500	0.083	1	-	12/08/17 20:50	44,300.0	AU
Sulfate	360.		mg/l	25.0	4.00	25	-	12/08/17 21:02	44,300.0	AU

Project Name: COLONIE LF AREA 6-ROUTINE
Project Number: 22396002.2017

Lab Number: L1744594
Report Date: 12/15/17

SAMPLE RESULTS

Lab ID: L1744594-06
Client ID: S.L.-A
Sample Location: Not Specified
Matrix: Water

Date Collected: 12/08/17 12:10
Date Received: 12/08/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	611.		mg CaCO3/L	5.00	NA	2.5	-	12/12/17 09:21	121,2320B	BR
Solids, Total Dissolved	760		mg/l	10	3.1	1	-	12/11/17 21:30	121,2540C	RP
Nitrogen, Ammonia	0.198		mg/l	0.075	0.024	1	12/12/17 01:00	12/14/17 21:38	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.033	1	-	12/13/17 22:26	44,353.2	CW
Nitrogen, Total Kjeldahl	0.365		mg/l	0.300	0.066	1	12/11/17 12:30	12/14/17 16:40	4,351.3/.1 (M)	JO
Chemical Oxygen Demand	11.		mg/l	10	2.7	1	12/13/17 22:05	12/14/17 00:36	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	12/09/17 20:55	12/14/17 23:25	121,5210B	RP
Total Organic Carbon	2.81		mg/l	0.500	0.114	1	-	12/10/17 12:00	121,5310C	AG
Phenolics, Total	ND		mg/l	0.030	0.006	1	12/11/17 12:24	12/11/17 15:21	4,420.1	AW
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.192		mg/l	0.050	0.009	1	-	12/12/17 02:22	44,300.0	AU
Chloride	7.38		mg/l	0.500	0.083	1	-	12/12/17 02:22	44,300.0	AU
Sulfate	110.		mg/l	10.0	1.60	10	-	12/13/17 01:23	44,300.0	AU

Project Name: COLONIE LF AREA 6-ROUTINE
Project Number: 22396002.2017

Lab Number: L1744594
Report Date: 12/15/17

SAMPLE RESULTS

Lab ID: L1744594-07
Client ID: S.L.-B
Sample Location: Not Specified
Matrix: Water

Date Collected: 12/08/17 12:30
Date Received: 12/08/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	650.		mg CaCO3/L	5.00	NA	2.5	-	12/12/17 09:21	121,2320B	BR
Solids, Total Dissolved	810		mg/l	10	3.1	1	-	12/11/17 21:30	121,2540C	RP
Nitrogen, Ammonia	0.070	J	mg/l	0.075	0.024	1	12/12/17 01:00	12/14/17 21:41	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.033	1	-	12/13/17 20:49	44,353.2	CW
Nitrogen, Total Kjeldahl	0.408		mg/l	0.300	0.066	1	12/11/17 12:30	12/14/17 16:09	4,351.3/.1 (M)	JO
Chemical Oxygen Demand	3.8	J	mg/l	10	2.7	1	12/13/17 22:05	12/14/17 00:36	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	12/09/17 20:55	12/14/17 23:25	121,5210B	RP
Total Organic Carbon	2.54		mg/l	0.500	0.114	1	-	12/10/17 12:00	121,5310C	AG
Phenolics, Total	0.011	J	mg/l	0.030	0.006	1	12/11/17 12:24	12/11/17 15:23	4,420.1	AW
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.135	J	mg/l	0.250	0.049	5	-	12/12/17 02:34	44,300.0	AU
Chloride	7.96		mg/l	2.50	0.420	5	-	12/12/17 02:34	44,300.0	AU
Sulfate	129.		mg/l	5.00	0.800	5	-	12/12/17 02:34	44,300.0	AU

Project Name: COLONIE LF AREA 6-ROUTINE
Project Number: 22396002.2017

Lab Number: L1744594
Report Date: 12/15/17

SAMPLE RESULTS

Lab ID: L1744594-08
Client ID: PPRS PHASE I
Sample Location: Not Specified
Matrix: Water

Date Collected: 12/08/17 12:45
Date Received: 12/08/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	491.		mg CaCO3/L	2.00	NA	1	-	12/12/17 09:21	121,2320B	BR
Solids, Total Dissolved	2500		mg/l	10	3.1	1	-	12/11/17 21:30	121,2540C	RP
Nitrogen, Ammonia	0.385		mg/l	0.075	0.024	1	12/12/17 01:00	12/14/17 21:42	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.033	1	-	12/13/17 20:50	44,353.2	CW
Nitrogen, Total Kjeldahl	0.460		mg/l	0.300	0.066	1	12/11/17 12:30	12/14/17 16:10	4,351.3/.1 (M)	JO
Chemical Oxygen Demand	11.		mg/l	10	2.7	1	12/13/17 22:05	12/14/17 00:36	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	12/09/17 20:55	12/14/17 23:25	121,5210B	RP
Total Organic Carbon	1.99		mg/l	0.500	0.114	1	-	12/10/17 12:00	121,5310C	AG
Phenolics, Total	0.012	J	mg/l	0.030	0.006	1	12/11/17 12:24	12/11/17 15:26	4,420.1	AW
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.500	0.098	10	-	12/12/17 02:46	44,300.0	AU
Chloride	34.4		mg/l	5.00	0.839	10	-	12/12/17 02:46	44,300.0	AU
Sulfate	1640		mg/l	50.0	8.00	50	-	12/12/17 02:58	44,300.0	AU

Project Name: COLONIE LF AREA 6-ROUTINE
Project Number: 22396002.2017

Lab Number: L1744594
Report Date: 12/15/17

SAMPLE RESULTS

Lab ID: L1744594-09
Client ID: S.L.-C
Sample Location: Not Specified
Matrix: Water

Date Collected: 12/08/17 12:55
Date Received: 12/08/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	436.		mg CaCO3/L	2.00	NA	1	-	12/12/17 09:21	121,2320B	BR
Solids, Total Dissolved	530		mg/l	10	3.1	1	-	12/11/17 21:30	121,2540C	RP
Nitrogen, Ammonia	0.265		mg/l	0.075	0.024	1	12/12/17 01:00	12/14/17 21:43	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.033	1	-	12/13/17 20:51	44,353.2	CW
Nitrogen, Total Kjeldahl	0.445		mg/l	0.300	0.066	1	12/11/17 12:30	12/14/17 16:11	4,351.3/.1 (M)	JO
Chemical Oxygen Demand	8.4	J	mg/l	10	2.7	1	12/13/17 22:05	12/14/17 00:36	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	12/09/17 20:55	12/14/17 23:25	121,5210B	RP
Total Organic Carbon	1.94		mg/l	0.500	0.114	1	-	12/10/17 12:00	121,5310C	AG
Phenolics, Total	ND		mg/l	0.030	0.006	1	12/11/17 12:24	12/11/17 15:28	4,420.1	AW
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.075		mg/l	0.050	0.009	1	-	12/12/17 12:22	44,300.0	AU
Chloride	18.8		mg/l	0.500	0.083	1	-	12/12/17 12:22	44,300.0	AU
Sulfate	30.5		mg/l	1.00	0.160	1	-	12/12/17 12:22	44,300.0	AU

Project Name: COLONIE LF AREA 6-ROUTINE
Project Number: 22396002.2017

Lab Number: L1744594
Report Date: 12/15/17

SAMPLE RESULTS

Lab ID: L1744594-10
Client ID: S.L.-D
Sample Location: Not Specified
Matrix: Water

Date Collected: 12/08/17 13:10
Date Received: 12/08/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	500.		mg CaCO3/L	2.00	NA	1	-	12/12/17 09:21	121,2320B	BR
Solids, Total Dissolved	620		mg/l	10	3.1	1	-	12/11/17 21:30	121,2540C	RP
Nitrogen, Ammonia	0.200		mg/l	0.075	0.024	1	12/12/17 01:00	12/14/17 21:44	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.033	1	-	12/13/17 20:52	44,353.2	CW
Nitrogen, Total Kjeldahl	0.440		mg/l	0.300	0.066	1	12/11/17 12:30	12/14/17 16:12	4,351.3/.1 (M)	JO
Chemical Oxygen Demand	3.8	J	mg/l	10	2.7	1	12/13/17 22:05	12/14/17 00:37	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	12/09/17 20:55	12/14/17 23:25	121,5210B	RP
Total Organic Carbon	1.78		mg/l	0.500	0.114	1	-	12/10/17 12:00	121,5310C	AG
Phenolics, Total	ND		mg/l	0.030	0.006	1	12/11/17 12:24	12/11/17 15:31	4,420.1	AW
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.120		mg/l	0.050	0.009	1	-	12/12/17 03:46	44,300.0	AU
Chloride	27.9		mg/l	0.500	0.083	1	-	12/12/17 03:46	44,300.0	AU
Sulfate	51.2		mg/l	1.00	0.160	1	-	12/12/17 03:46	44,300.0	AU

Project Name: COLONIE LF AREA 6-ROUTINE
Project Number: 22396002.2017

Lab Number: L1744594
Report Date: 12/15/17

SAMPLE RESULTS

Lab ID: L1744594-11
Client ID: PPRS PHASE II
Sample Location: Not Specified
Matrix: Water

Date Collected: 12/08/17 13:20
Date Received: 12/08/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	445.		mg CaCO3/L	2.00	NA	1	-	12/12/17 09:21	121,2320B	BR
Solids, Total Dissolved	2800		mg/l	10	3.1	1	-	12/11/17 21:30	121,2540C	RP
Nitrogen, Ammonia	0.817		mg/l	0.075	0.024	1	12/12/17 17:00	12/13/17 21:30	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.033	1	-	12/13/17 20:54	44,353.2	CW
Nitrogen, Total Kjeldahl	0.872		mg/l	0.300	0.066	1	12/11/17 12:30	12/14/17 16:39	4,351.3/.1 (M)	JO
Chemical Oxygen Demand	ND		mg/l	10	2.7	1	12/13/17 22:05	12/14/17 00:37	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	12/09/17 20:55	12/14/17 23:25	121,5210B	RP
Total Organic Carbon	1.15		mg/l	0.500	0.114	1	-	12/10/17 12:00	121,5310C	AG
Phenolics, Total	0.007	J	mg/l	0.030	0.006	1	12/11/17 12:24	12/11/17 15:33	4,420.1	AW
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.500	0.098	10	-	12/12/17 03:58	44,300.0	AU
Chloride	13.9		mg/l	5.00	0.839	10	-	12/12/17 03:58	44,300.0	AU
Sulfate	1900		mg/l	50.0	8.00	50	-	12/12/17 04:10	44,300.0	AU

Project Name: COLONIE LF AREA 6-ROUTINE **Lab Number:** L1744594

Project Number: 22396002.2017 **Report Date:** 12/15/17

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01,03-04 Batch: WG1069526-1										
BOD, 5 day	ND		mg/l	2.0	NA	1	12/06/17 08:20	12/11/17 10:30	121,5210B	TE
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG1069563-1										
Alkalinity, Total	ND		mg CaCO3/L	2.00	NA	1	-	12/06/17 09:34	121,2320B	BR
General Chemistry - Westborough Lab for sample(s): 01,03-04 Batch: WG1069788-1										
Nitrogen, Nitrate	ND		mg/l	0.10	0.033	1	-	12/06/17 19:09	44,353.2	MR
General Chemistry - Westborough Lab for sample(s): 01,03-04 Batch: WG1069861-1										
Solids, Total Dissolved	ND		mg/l	10	3.1	1	-	12/06/17 23:15	121,2540C	CW
General Chemistry - Westborough Lab for sample(s): 01,03-05 Batch: WG1069943-1										
Total Organic Carbon	ND		mg/l	0.500	0.114	1	-	12/07/17 07:28	121,5310C	DW
General Chemistry - Westborough Lab for sample(s): 05 Batch: WG1069981-1										
BOD, 5 day	ND		mg/l	2.0	NA	1	12/07/17 09:55	12/12/17 09:35	121,5210B	TE
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG1070144-1										
Phenolics, Total	ND		mg/l	0.030	0.006	1	12/07/17 12:13	12/07/17 15:36	4,420.1	AW
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG1070150-1										
Nitrogen, Total Kjeldahl	ND		mg/l	0.300	0.022	1	12/07/17 14:00	12/12/17 20:24	4,351.3/.1 (M)	AT
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG1070151-1										
Nitrogen, Ammonia	ND		mg/l	0.075	0.024	1	12/07/17 14:09	12/12/17 21:01	44,350.1	AT
General Chemistry - Westborough Lab for sample(s): 05 Batch: WG1070252-1										
Nitrogen, Nitrate	ND		mg/l	0.10	0.033	1	-	12/07/17 18:48	44,353.2	MR
General Chemistry - Westborough Lab for sample(s): 06-11 Batch: WG1070988-1										
BOD, 5 day	ND		mg/l	2.0	NA	1	12/09/17 20:55	12/14/17 23:25	121,5210B	RP
General Chemistry - Westborough Lab for sample(s): 06-11 Batch: WG1071027-1										
Total Organic Carbon	ND		mg/l	0.500	0.114	1	-	12/10/17 12:00	121,5310C	AG
General Chemistry - Westborough Lab for sample(s): 05-11 Batch: WG1071116-1										
Solids, Total Dissolved	ND		mg/l	10	3.1	1	-	12/11/17 21:30	121,2540C	RP
General Chemistry - Westborough Lab for sample(s): 06-11 Batch: WG1071269-1										
Nitrogen, Total Kjeldahl	0.098	J	mg/l	0.300	0.022	1	12/11/17 12:30	12/14/17 16:04	4,351.3/.1 (M)	JO

Project Name: COLONIE LF AREA 6-ROUTINE **Lab Number:** L1744594

Project Number: 22396002.2017 **Report Date:** 12/15/17

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 06-11 Batch: WG1071298-1										
Phenolics, Total	ND		mg/l	0.030	0.006	1	12/11/17 12:24	12/11/17 15:19	4,420.1	AW
General Chemistry - Westborough Lab for sample(s): 06-10 Batch: WG1071468-1										
Nitrogen, Ammonia	ND		mg/l	0.075	0.024	1	12/12/17 01:00	12/14/17 20:56	44,350.1	AT
General Chemistry - Westborough Lab for sample(s): 06-11 Batch: WG1071616-1										
Alkalinity, Total	ND		mg CaCO3/L	2.00	NA	1	-	12/12/17 09:21	121,2320B	BR
General Chemistry - Westborough Lab for sample(s): 11 Batch: WG1071706-1										
Nitrogen, Ammonia	ND		mg/l	0.075	0.024	1	12/12/17 17:00	12/13/17 21:24	44,350.1	AT
Anions by Ion Chromatography - Westborough Lab for sample(s): 01,03-05 Batch: WG1071933-1										
Bromide	ND		mg/l	0.050	0.009	1	-	12/08/17 17:50	44,300.0	AU
Chloride	ND		mg/l	0.500	0.083	1	-	12/08/17 17:50	44,300.0	AU
Sulfate	ND		mg/l	1.00	0.160	1	-	12/08/17 17:50	44,300.0	AU
General Chemistry - Westborough Lab for sample(s): 01-04,06-11 Batch: WG1072375-1										
Chemical Oxygen Demand	ND		mg/l	10	2.7	1	12/13/17 22:05	12/14/17 00:34	44,410.4	TL
General Chemistry - Westborough Lab for sample(s): 06-11 Batch: WG1072379-1										
Nitrogen, Nitrate	ND		mg/l	0.10	0.033	1	-	12/13/17 20:22	44,353.2	CW
Anions by Ion Chromatography - Westborough Lab for sample(s): 06-11 Batch: WG1072447-1										
Bromide	ND		mg/l	0.050	0.009	1	-	12/11/17 18:46	44,300.0	AU
Chloride	ND		mg/l	0.500	0.083	1	-	12/11/17 18:46	44,300.0	AU
Sulfate	ND		mg/l	1.00	0.160	1	-	12/11/17 18:46	44,300.0	AU

Lab Control Sample Analysis

Batch Quality Control

Project Name: COLONIE LF AREA 6-ROUTINE

Project Number: 22396002.2017

Lab Number: L1744594

Report Date: 12/15/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01,03-04 Batch: WG1069526-2								
BOD, 5 day	110		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG1069563-2								
Alkalinity, Total	105		-		90-110	-		10
General Chemistry - Westborough Lab Associated sample(s): 01,03-04 Batch: WG1069788-2								
Nitrogen, Nitrate	100		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01,03-04 Batch: WG1069861-2								
Solids, Total Dissolved	106		-		80-120	-		
General Chemistry - Westborough Lab Associated sample(s): 01,03-05 Batch: WG1069943-2								
Total Organic Carbon	96		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 05 Batch: WG1069981-2								
BOD, 5 day	104		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG1070144-2								
Phenolics, Total	78		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: COLONIE LF AREA 6-ROUTINE
Project Number: 22396002.2017

Lab Number: L1744594
Report Date: 12/15/17

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG1070150-2					
Nitrogen, Total Kjeldahl	95	-	78-122	-	
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG1070151-2					
Nitrogen, Ammonia	96	-	90-110	-	20
General Chemistry - Westborough Lab Associated sample(s): 05 Batch: WG1070252-2					
Nitrogen, Nitrate	96	-	90-110	-	
General Chemistry - Westborough Lab Associated sample(s): 06-11 Batch: WG1070988-2					
BOD, 5 day	99	-	85-115	-	20
General Chemistry - Westborough Lab Associated sample(s): 06-11 Batch: WG1071027-2					
Total Organic Carbon	101	-	90-110	-	
General Chemistry - Westborough Lab Associated sample(s): 05-11 Batch: WG1071116-2					
Solids, Total Dissolved	97	-	80-120	-	
General Chemistry - Westborough Lab Associated sample(s): 06-11 Batch: WG1071269-2					
Nitrogen, Total Kjeldahl	90	-	78-122	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: COLONIE LF AREA 6-ROUTINE

Project Number: 22396002.2017

Lab Number: L1744594

Report Date: 12/15/17

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 06-11 Batch: WG1071298-2					
Phenolics, Total	86	-	70-130	-	
General Chemistry - Westborough Lab Associated sample(s): 06-10 Batch: WG1071468-2					
Nitrogen, Ammonia	92	-	90-110	-	20
General Chemistry - Westborough Lab Associated sample(s): 06-11 Batch: WG1071616-2					
Alkalinity, Total	106	-	90-110	-	10
General Chemistry - Westborough Lab Associated sample(s): 11 Batch: WG1071706-2					
Nitrogen, Ammonia	98	-	90-110	-	20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01,03-05 Batch: WG1071933-2					
Bromide	91	-	90-110	-	
Chloride	97	-	90-110	-	
Sulfate	104	-	90-110	-	
General Chemistry - Westborough Lab Associated sample(s): 01-04,06-11 Batch: WG1072375-2					
Chemical Oxygen Demand	100	-	90-110	-	

Lab Control Sample Analysis
Batch Quality Control

Project Name: COLONIE LF AREA 6-ROUTINE
Project Number: 22396002.2017

Lab Number: L1744594
Report Date: 12/15/17

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 06-11 Batch: WG1072379-2					
Nitrogen, Nitrate	102	-	90-110	-	
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 06-11 Batch: WG1072447-2					
Bromide	97	-	90-110	-	
Chloride	96	-	90-110	-	
Sulfate	100	-	90-110	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: COLONIE LF AREA 6-ROUTINE
Project Number: 22396002.2017

Lab Number: L1744594
Report Date: 12/15/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01,03-04 QC Batch ID: WG1069526-4 QC Sample: L1744644-03 Client ID: MS Sample												
BOD, 5 day	ND	100	120	122		-	-		50-145	-		35
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1069563-4 QC Sample: L1744585-02 Client ID: MS Sample												
Alkalinity, Total	385.	100	478	93		-	-		86-116	-		10
General Chemistry - Westborough Lab Associated sample(s): 01,03-04 QC Batch ID: WG1069788-4 QC Sample: L1744644-03 Client ID: MS Sample												
Nitrogen, Nitrate	ND	4	3.6	90		-	-		83-113	-		6
General Chemistry - Westborough Lab Associated sample(s): 01,03-05 QC Batch ID: WG1069943-4 QC Sample: L1744740-01 Client ID: MS Sample												
Total Organic Carbon	0.570	8	8.68	101		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 05 QC Batch ID: WG1069981-4 QC Sample: L1744945-01 Client ID: MS Sample												
BOD, 5 day	32.	200	210	89		-	-		50-145	-		35
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1070144-4 QC Sample: L1744644-03 Client ID: MS Sample												
Phenolics, Total	0.013J	0.4	0.40	100		-	-		70-130	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1070150-4 QC Sample: L1744376-02 Client ID: MS Sample												
Nitrogen, Total Kjeldahl	0.613	8	7.86	90		-	-		77-111	-		24
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1070151-4 QC Sample: L1744593-01 Client ID: MS Sample												
Nitrogen, Ammonia	ND	4	3.76	94		-	-		90-110	-		20
General Chemistry - Westborough Lab Associated sample(s): 05 QC Batch ID: WG1070252-4 QC Sample: L1744755-01 Client ID: MS Sample												
Nitrogen, Nitrate	1.4	4	5.3	98		-	-		83-113	-		6

Matrix Spike Analysis
Batch Quality Control

Project Name: COLONIE LF AREA 6-ROUTINE
Project Number: 22396002.2017

Lab Number: L1744594
Report Date: 12/15/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 06-11 QC Batch ID: WG1070988-4 QC Sample: L1745347-01 Client ID: MS Sample										
BOD, 5 day	ND	100	100	101		-	-	50-145	-	35
General Chemistry - Westborough Lab Associated sample(s): 06-11 QC Batch ID: WG1071027-4 QC Sample: L1744593-06 Client ID: MS Sample										
Total Organic Carbon	3.71	8	12.0	104		-	-	80-120	-	20
General Chemistry - Westborough Lab Associated sample(s): 06-11 QC Batch ID: WG1071269-4 QC Sample: L1744945-01 Client ID: MS Sample										
Nitrogen, Total Kjeldahl	689.	8	711	**275**	Q	-	-	77-111	-	24
General Chemistry - Westborough Lab Associated sample(s): 06-11 QC Batch ID: WG1071298-4 QC Sample: L1744594-09 Client ID: S.L.-C										
Phenolics, Total	ND	0.4	0.33	84		-	-	70-130	-	20
General Chemistry - Westborough Lab Associated sample(s): 06-10 QC Batch ID: WG1071468-4 QC Sample: L1744594-06 Client ID: S.L.-A										
Nitrogen, Ammonia	0.198	4	3.83	91		-	-	90-110	-	20
General Chemistry - Westborough Lab Associated sample(s): 06-11 QC Batch ID: WG1071616-4 QC Sample: L1745247-02 Client ID: MS Sample										
Alkalinity, Total	4.40	100	103	99		-	-	86-116	-	10
General Chemistry - Westborough Lab Associated sample(s): 11 QC Batch ID: WG1071706-4 QC Sample: L1745126-01 Client ID: MS Sample										
Nitrogen, Ammonia	0.779	4	4.60	96		-	-	90-110	-	20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01,03-05 QC Batch ID: WG1071933-3 QC Sample: L1744594-04 Client ID: PZ-3										
Bromide	ND	0.4	0.319	**80**	Q	-	-	90-110	-	20
Chloride	1.60	4	5.82	106		-	-	90-110	-	18
Sulfate	32.5	8	40.3	98		-	-	90-110	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: COLONIE LF AREA 6-ROUTINE
Project Number: 22396002.2017

Lab Number: L1744594
Report Date: 12/15/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04,06-11 QC Batch ID: WG1072375-3 QC Sample: L1744644-03 Client ID: MS Sample										
Chemical Oxygen Demand	3.8J	47.6	55	**116**	Q	-	-	90-110	-	20
General Chemistry - Westborough Lab Associated sample(s): 06-11 QC Batch ID: WG1072379-4 QC Sample: L1745737-01 Client ID: MS Sample										
Nitrogen, Nitrate	38.	4	41	**75**	Q	-	-	83-113	-	6
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 06-11 QC Batch ID: WG1072447-3 QC Sample: L1744637-02 Client ID: MS Sample										
Bromide	ND	0.4	0.319	**80**	Q	-	-	90-110	-	20
Chloride	4.98	4	8.87	97		-	-	90-110	-	18
Sulfate	13.3	8	20.8	94		-	-	90-110	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: COLONIE LF AREA 6-ROUTINE
Project Number: 22396002.2017

Lab Number: L1744594
Report Date: 12/15/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01,03-04 QC Batch ID: WG1069526-3 QC Sample: L1744644-03 Client ID: DUP Sample						
BOD, 5 day	ND	ND	mg/l	NC		35
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1069563-3 QC Sample: L1744585-02 Client ID: DUP Sample						
Alkalinity, Total	385.	378	mg CaCO3/L	2		10
General Chemistry - Westborough Lab Associated sample(s): 01,03-04 QC Batch ID: WG1069788-3 QC Sample: L1744644-03 Client ID: DUP Sample						
Nitrogen, Nitrate	ND	ND	mg/l	NC		6
General Chemistry - Westborough Lab Associated sample(s): 01,03-04 QC Batch ID: WG1069861-3 QC Sample: L1744585-02 Client ID: DUP Sample						
Solids, Total Dissolved	960	1000	mg/l	4		10
General Chemistry - Westborough Lab Associated sample(s): 01,03-05 QC Batch ID: WG1069943-3 QC Sample: L1744740-01 Client ID: DUP Sample						
Total Organic Carbon	0.570	0.630	mg/l	10		20
General Chemistry - Westborough Lab Associated sample(s): 05 QC Batch ID: WG1069981-3 QC Sample: L1744945-01 Client ID: DUP Sample						
BOD, 5 day	32.	28	mg/l	13		35
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1070144-3 QC Sample: L1744644-03 Client ID: DUP Sample						
Phenolics, Total	0.013J	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1070150-3 QC Sample: L1744376-02 Client ID: DUP Sample						
Nitrogen, Total Kjeldahl	0.613	0.528	mg/l	15		24
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1070151-3 QC Sample: L1744593-01 Client ID: DUP Sample						
Nitrogen, Ammonia	ND	0.024J	mg/l	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: COLONIE LF AREA 6-ROUTINE
Project Number: 22396002.2017

Lab Number: L1744594
Report Date: 12/15/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 05 QC Batch ID: WG1070252-3 QC Sample: L1744755-01 Client ID: DUP Sample					
Nitrogen, Nitrate	1.4	1.4	mg/l	0	6
General Chemistry - Westborough Lab Associated sample(s): 06-11 QC Batch ID: WG1070988-3 QC Sample: L1745347-01 Client ID: DUP Sample					
BOD, 5 day	ND	ND	mg/l	NC	35
General Chemistry - Westborough Lab Associated sample(s): 06-11 QC Batch ID: WG1071027-3 QC Sample: L1744593-06 Client ID: DUP Sample					
Total Organic Carbon	3.71	3.96	mg/l	7	20
General Chemistry - Westborough Lab Associated sample(s): 05-11 QC Batch ID: WG1071116-3 QC Sample: L1744594-05 Client ID: CHA-3S					
Solids, Total Dissolved	1100	1100	mg/l	0	10
General Chemistry - Westborough Lab Associated sample(s): 06-11 QC Batch ID: WG1071269-3 QC Sample: L1744945-01 Client ID: DUP Sample					
Nitrogen, Total Kjeldahl	689.	688	mg/l	0	24
General Chemistry - Westborough Lab Associated sample(s): 06-11 QC Batch ID: WG1071298-3 QC Sample: L1744594-09 Client ID: S.L.-C					
Phenolics, Total	ND	0.008J	mg/l	NC	20
General Chemistry - Westborough Lab Associated sample(s): 06-10 QC Batch ID: WG1071468-3 QC Sample: L1744594-06 Client ID: S.L.-A					
Nitrogen, Ammonia	0.198	0.177	mg/l	11	20
General Chemistry - Westborough Lab Associated sample(s): 06-11 QC Batch ID: WG1071616-3 QC Sample: L1745247-01 Client ID: DUP Sample					
Alkalinity, Total	4.20	4.30	mg CaCO3/L	2	10
General Chemistry - Westborough Lab Associated sample(s): 11 QC Batch ID: WG1071706-3 QC Sample: L1745126-01 Client ID: DUP Sample					
Nitrogen, Ammonia	0.779	0.810	mg/l	4	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: COLONIE LF AREA 6-ROUTINE
Project Number: 22396002.2017

Lab Number: L1744594
Report Date: 12/15/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01,03-05 QC Batch ID: WG1071933-4 QC Sample: L1744594-04 Client ID: PZ-3					
Bromide	ND	ND	mg/l	NC	20
Chloride	1.60	1.59	mg/l	1	18
Sulfate	32.5	32.8	mg/l	1	20
General Chemistry - Westborough Lab Associated sample(s): 01-04,06-11 QC Batch ID: WG1072375-4 QC Sample: L1744644-03 Client ID: DUP Sample					
Chemical Oxygen Demand	3.8J	3.8J	mg/l	NC	20
General Chemistry - Westborough Lab Associated sample(s): 06-11 QC Batch ID: WG1072379-3 QC Sample: L1745737-01 Client ID: DUP Sample					
Nitrogen, Nitrate	38.	37	mg/l	3	6
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 06-11 QC Batch ID: WG1072447-4 QC Sample: L1744637-02 Client ID: DUP Sample					
Bromide	ND	ND	mg/l	NC	20
Chloride	4.98	5.02	mg/l	1	18
Sulfate	13.3	12.9	mg/l	3	20

Project Name: COLONIE LF AREA 6-ROUTINE
Project Number: 22396002.2017

Lab Number: L1744594
Report Date: 12/15/17

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
A1	Absent
B	Absent
B1	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1744594-01A	Vial H2SO4 preserved	A	NA		3.5	Y	Absent		TOC-5310(28)
L1744594-01B	Vial H2SO4 preserved	A	NA		3.5	Y	Absent		TOC-5310(28)
L1744594-01C	Plastic 120ml unpreserved/No Headspace	A	NA		3.5	Y	Absent		ALK-T-2320(14)
L1744594-01D	Plastic 250ml HNO3 preserved	A	<2	<2	3.5	Y	Absent		CD-6020T-PPB(180),HARDT-6020-PPB(180),CA-6020T-PPB(180),K-6020T-PPB(180),PB-6020T-PPB(180),FE-6020T-PPB(180),MG-6020T-PPB(180),NA-6020T-PPB(180),MN-6020T-PPB(180)
L1744594-01E	Plastic 500ml H2SO4 preserved	A	<2	<2	3.5	Y	Absent		TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1744594-01F	Amber 500ml H2SO4 preserved	A	<2	<2	3.5	Y	Absent		NY-TPHENOL-420(28)
L1744594-01G	Plastic 950ml unpreserved	A	7	7	3.5	Y	Absent		SO4-300(28),CL-300(28),BOD-5210(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1744594-02A	Plastic 120ml unpreserved/No Headspace	A	NA		3.5	Y	Absent		ALK-T-2320(14)
L1744594-02B	Plastic 500ml H2SO4 preserved	A	<2	<2	3.5	Y	Absent		TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1744594-02C	Amber 500ml H2SO4 preserved	A	<2	<2	3.5	Y	Absent		NY-TPHENOL-420(28)
L1744594-03A	Vial H2SO4 preserved	A	NA		3.5	Y	Absent		TOC-5310(28)
L1744594-03B	Vial H2SO4 preserved	A	NA		3.5	Y	Absent		TOC-5310(28)
L1744594-03C	Plastic 120ml unpreserved/No Headspace	A	NA		3.5	Y	Absent		ALK-T-2320(14)
L1744594-03D	Plastic 250ml HNO3 preserved	A	<2	<2	3.5	Y	Absent		CD-6020T-PPB(180),HARDT-6020-PPB(180),CA-6020T-PPB(180),K-6020T-PPB(180),PB-6020T-PPB(180),FE-6020T-PPB(180),MG-6020T-PPB(180),NA-6020T-PPB(180),MN-6020T-PPB(180)
L1744594-03E	Plastic 500ml H2SO4 preserved	A	<2	<2	3.5	Y	Absent		TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1744594-03F	Amber 500ml H2SO4 preserved	A	<2	<2	3.5	Y	Absent		NY-TPHENOL-420(28)

*Values in parentheses indicate holding time in days

Project Name: COLONIE LF AREA 6-ROUTINE
Project Number: 22396002.2017

Lab Number: L1744594
Report Date: 12/15/17

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1744594-03G	Plastic 950ml unpreserved	A	7	7	3.5	Y	Absent		SO4-300(28),CL-300(28),BOD-5210(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1744594-04A	Vial H2SO4 preserved	A	NA		3.5	Y	Absent		TOC-5310(28)
L1744594-04B	Vial H2SO4 preserved	A	NA		3.5	Y	Absent		TOC-5310(28)
L1744594-04C	Plastic 120ml unpreserved/No Headspace	A	NA		3.5	Y	Absent		ALK-T-2320(14)
L1744594-04D	Plastic 250ml HNO3 preserved	A	<2	<2	3.5	Y	Absent		CD-6020T-PPB(180),HARDT-6020-PPB(180),CA-6020T-PPB(180),K-6020T-PPB(180),PB-6020T-PPB(180),FE-6020T-PPB(180),MG-6020T-PPB(180),NA-6020T-PPB(180),MN-6020T-PPB(180)
L1744594-04E	Plastic 500ml H2SO4 preserved	A	<2	<2	3.5	Y	Absent		TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1744594-04F	Amber 500ml H2SO4 preserved	A	<2	<2	3.5	Y	Absent		NY-TPHENOL-420(28)
L1744594-04G	Plastic 950ml unpreserved	A	7	7	3.5	Y	Absent		SO4-300(28),CL-300(28),BOD-5210(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1744594-05A	Vial H2SO4 preserved	B	NA		5.8	Y	Absent		TOC-5310(28)
L1744594-05B	Vial H2SO4 preserved	B	NA		5.8	Y	Absent		TOC-5310(28)
L1744594-05D	Plastic 250ml HNO3 preserved	B	<2	<2	5.8	Y	Absent		CD-6020T-PPB(180),HARDT-6020-PPB(180),CA-6020T-PPB(180),K-6020T-PPB(180),PB-6020T-PPB(180),FE-6020T-PPB(180),MG-6020T-PPB(180),NA-6020T-PPB(180),MN-6020T-PPB(180)
L1744594-05G	Plastic 950ml unpreserved	B	7	7	5.8	Y	Absent		SO4-300(28),CL-300(28),BOD-5210(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1744594-06A	Vial H2SO4 preserved	B1	NA		2.7	Y	Absent		TOC-5310(28)
L1744594-06B	Vial H2SO4 preserved	B1	NA		2.7	Y	Absent		TOC-5310(28)
L1744594-06C	Plastic 250ml unpreserved/No Headspace	B1	NA		2.7	Y	Absent		ALK-T-2320(14)
L1744594-06D	Plastic 500ml HNO3 preserved	B1	<2	<2	2.7	Y	Absent		CD-6020T-PPB(180),HARDT-6020-PPB(180),CA-6020T-PPB(180),K-6020T-PPB(180),PB-6020T-PPB(180),FE-6020T-PPB(180),MG-6020T-PPB(180),NA-6020T-PPB(180),MN-6020T-PPB(180)
L1744594-06E	Plastic 500ml H2SO4 preserved	B1	<2	<2	2.7	Y	Absent		TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1744594-06F	Amber 500ml H2SO4 preserved	B1	<2	<2	2.7	Y	Absent		NY-TPHENOL-420(28)
L1744594-06G	Plastic 500ml unpreserved	B1	7	7	2.7	Y	Absent		SO4-300(28),CL-300(28),BOD-5210(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1744594-07A	Vial H2SO4 preserved	B1	NA		2.7	Y	Absent		TOC-5310(28)
L1744594-07B	Vial H2SO4 preserved	B1	NA		2.7	Y	Absent		TOC-5310(28)

*Values in parentheses indicate holding time in days

Project Name: COLONIE LF AREA 6-ROUTINE
Project Number: 22396002.2017

Lab Number: L1744594
Report Date: 12/15/17

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1744594-07C	Plastic 250ml unpreserved/No Headspace	B1	NA		2.7	Y	Absent		ALK-T-2320(14)
L1744594-07D	Plastic 500ml HNO3 preserved	B1	<2	<2	2.7	Y	Absent		CD-6020T-PPB(180),HARDT-6020-PPB(180),CA-6020T-PPB(180),K-6020T-PPB(180),PB-6020T-PPB(180),FE-6020T-PPB(180),MG-6020T-PPB(180),NA-6020T-PPB(180),MN-6020T-PPB(180)
L1744594-07E	Plastic 500ml H2SO4 preserved	B1	<2	<2	2.7	Y	Absent		TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1744594-07F	Amber 500ml H2SO4 preserved	B1	<2	<2	2.7	Y	Absent		NY-TPHENOL-420(28)
L1744594-07G	Plastic 500ml unpreserved	B1	7	7	2.7	Y	Absent		SO4-300(28),CL-300(28),BOD-5210(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1744594-08A	Vial H2SO4 preserved	A1	NA		3.2	Y	Absent		TOC-5310(28)
L1744594-08B	Vial H2SO4 preserved	A1	NA		3.2	Y	Absent		TOC-5310(28)
L1744594-08C	Plastic 250ml unpreserved/No Headspace	A1	NA		3.2	Y	Absent		ALK-T-2320(14)
L1744594-08D	Plastic 500ml HNO3 preserved	A1	<2	<2	3.2	Y	Absent		CD-6020T-PPB(180),HARDT-6020-PPB(180),CA-6020T-PPB(180),K-6020T-PPB(180),PB-6020T-PPB(180),FE-6020T-PPB(180),MG-6020T-PPB(180),NA-6020T-PPB(180),MN-6020T-PPB(180)
L1744594-08E	Plastic 500ml H2SO4 preserved	A1	<2	<2	3.2	Y	Absent		TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1744594-08F	Amber 500ml H2SO4 preserved	A1	<2	<2	3.2	Y	Absent		NY-TPHENOL-420(28)
L1744594-08G	Plastic 500ml unpreserved	A1	7	7	3.2	Y	Absent		SO4-300(28),CL-300(28),BOD-5210(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1744594-09A	Vial H2SO4 preserved	B1	NA		2.7	Y	Absent		TOC-5310(28)
L1744594-09B	Vial H2SO4 preserved	B1	NA		2.7	Y	Absent		TOC-5310(28)
L1744594-09C	Plastic 250ml unpreserved/No Headspace	B1	NA		2.7	Y	Absent		ALK-T-2320(14)
L1744594-09D	Plastic 500ml HNO3 preserved	B1	<2	<2	2.7	Y	Absent		CD-6020T-PPB(180),HARDT-6020-PPB(180),CA-6020T-PPB(180),K-6020T-PPB(180),PB-6020T-PPB(180),FE-6020T-PPB(180),MG-6020T-PPB(180),NA-6020T-PPB(180),MN-6020T-PPB(180)
L1744594-09E	Plastic 500ml H2SO4 preserved	B1	<2	<2	2.7	Y	Absent		TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1744594-09F	Amber 500ml H2SO4 preserved	B1	<2	<2	2.7	Y	Absent		NY-TPHENOL-420(28)
L1744594-09G	Plastic 500ml unpreserved	B1	7	7	2.7	Y	Absent		SO4-300(28),CL-300(28),BOD-5210(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1744594-10A	Vial H2SO4 preserved	B1	NA		2.7	Y	Absent		TOC-5310(28)
L1744594-10B	Vial H2SO4 preserved	B1	NA		2.7	Y	Absent		TOC-5310(28)
L1744594-10C	Plastic 250ml unpreserved/No Headspace	B1	NA		2.7	Y	Absent		ALK-T-2320(14)

*Values in parentheses indicate holding time in days

Project Name: COLONIE LF AREA 6-ROUTINE
Project Number: 22396002.2017

Lab Number: L1744594
Report Date: 12/15/17

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1744594-10D	Plastic 500ml HNO3 preserved	B1	<2	<2	2.7	Y	Absent		CD-6020T-PPB(180),HARDT-6020-PPB(180),CA-6020T-PPB(180),K-6020T-PPB(180),PB-6020T-PPB(180),FE-6020T-PPB(180),MG-6020T-PPB(180),NA-6020T-PPB(180),MN-6020T-PPB(180)
L1744594-10E	Plastic 500ml H2SO4 preserved	B1	<2	<2	2.7	Y	Absent		TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1744594-10F	Amber 500ml H2SO4 preserved	B1	<2	<2	2.7	Y	Absent		NY-TPHENOL-420(28)
L1744594-10G	Plastic 500ml unpreserved	B1	7	7	2.7	Y	Absent		SO4-300(28),CL-300(28),BOD-5210(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1744594-11A	Vial H2SO4 preserved	A1	NA		3.2	Y	Absent		TOC-5310(28)
L1744594-11B	Vial H2SO4 preserved	A1	NA		3.2	Y	Absent		TOC-5310(28)
L1744594-11C	Plastic 250ml unpreserved/No Headspace	A1	NA		3.2	Y	Absent		ALK-T-2320(14)
L1744594-11D	Plastic 500ml HNO3 preserved	A1	<2	<2	3.2	Y	Absent		CD-6020T-PPB(180),HARDT-6020-PPB(180),CA-6020T-PPB(180),K-6020T-PPB(180),PB-6020T-PPB(180),FE-6020T-PPB(180),MG-6020T-PPB(180),NA-6020T-PPB(180),MN-6020T-PPB(180)
L1744594-11E	Plastic 500ml H2SO4 preserved	A1	<2	<2	3.2	Y	Absent		TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1744594-11F	Amber 500ml H2SO4 preserved	A1	<2	<2	3.2	Y	Absent		NY-TPHENOL-420(28)
L1744594-11G	Plastic 500ml unpreserved	A1	7	7	3.2	Y	Absent		SO4-300(28),CL-300(28),BOD-5210(2),BR-300(28),NO3-353(2),TDS-2540(7)

*Values in parentheses indicate holding time in days

Project Name:	COLONIE LF AREA 6-ROUTINE	**Lab Number:**	L1744594
Project Number:	22396002.2017	**Report Date:**	12/15/17

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

Report Format: DU Report with 'J' Qualifiers

Project Name:	COLONIE LF AREA 6-ROUTINE	**Lab Number:**	L1744594
Project Number:	22396002.2017	**Report Date:**	12/15/17

Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	COLONIE LF AREA 6-ROUTINE	**Lab Number:**	L1744594
Project Number:	22396002.2017	**Report Date:**	12/15/17

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

4 Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.

44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

ALPHA

Westborough, MA 01581
8 Walkup Dr
TEL 508-898-9220
FAX 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL 508-822-9300
FAX 508-822-3288

NEW YORK CHAIN OF CUSTODY

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 12/6/17

ALPHA Job #: L1711597

Client Information
Client: ARCADIS
Address: 855 Route 146, Suite 210
Clifton Park, NY 12065
Phone: 518-250-7327
Fax: 518-250-7301
Email: Danielle.giroux@arcadis-us.com

Project Information
Project Name: Colonie Landfill Area 5 - Routine
Project Location:
Project #
(Use Project name as Project #) ☐
Project Manager: Candace Fox
ALPHAQuote #:

Turnaround Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☑ Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other: NA

These samples have been previously analyzed by Alpha ☒
Other project specific requirements/comments:
Routine Metals List *Wet Chem: SOD,TDS,Br,Cl,SO4,NO3*
* CHA-3S went dry - Remaining vol will be collected on 12/6
Please specify Metals or TAL:

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date (2017)	Collection Time	Sample Matrix	Sampler's Initials	*Wet Chem*	Phenols	NH3,TKN,COD	T-Metals	Alk (no headspace)	TOC			Sample Specific Comments	
1711597-01	CHA-6I	12-5	1130	Water	JS	X	X	X	X	X	X			Routine P	7
				Water		X	X	X	X	X	X				7
02	CHA-3S *	12-5	1215	Water		[redacted]	X	X	[redacted]	X	[redacted]				7
				Water		X	X	X	X	X	X				7
03	CHA-3I	12-5	1245	Water		X	X	X	X	X	X				7
				Water		X	X	X	X	X	X				7
04	PZ-3	12-5	1445	Water		X	X	X	X	X	X				7
				Water		X	X	X	X	X	X				7
				Water		X	X	X	X	X	X				7
				Water		X	X	X	X	X	X				7
				Container Type		P	A	P	P	P	V				
				Preservative		A	D	D	C	A	D				

Preservative Code: A = None, B = HCl, C = HNO_3, D = H_2SO_4, E = NaOH, F = MeOH, G = $NaHSO_4$, H = $Na_2S_2O_3$, K/E = Zn Ac/NaOH, O = Other

Container Code: P = Plastic, A = Amber Glass, V = Vial, G = Glass, B = Bacteria Cup, C = Cube, O = Other, E = Encore, D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
Jim Scena/SEM	12/5/17 1600	[illegible]	12/5/17 1600
[illegible]	12/5/17 1600		

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.

Form No: 01-25 (rev. 30-Sept-2013)

ALPHA

Westborough, MA 01581
8 Walkup Dr.
TEL 508-898-9220
FAX 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL 508-822-9300
FAX 508-822-3288

NEW YORK CHAIN OF CUSTODY

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd. Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 12/7/17

ALPHA Job #: L1744594

Client Information

Client: Arcadis U.S. Inc.
Address: 855 Rt. 146
Clifton Park, N.Y.
Phone: 518-250-7325
Fax:
Email: danielle.giroux@arcadis-us.com

Project Information

Project Name:
Project Location: Colonie Landfill Area 6
Project #
(Use Project name as Project #) ✓
Project Manager:
ALPHAQuote #:

Turn-Around Time

Standard ✓ Due Date
Rush (only if pre approved) ☐ # of Days

Deliverables

☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☑ Other

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☑ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information

☑ Same as Client Info
PO #

Disposal Site Information

Please identify below location of applicable disposal facilities

Disposal Facility:
☐ NJ ☐ NY
☐ Other NA

These samples have been previously analyzed by Alpha ☒

Other project specific requirements/comments:

Remaining Vol. of CHA-35

Please specify Metals or TAL

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Total Metals	Cl, Br, SO4, TDS, NO3, BOD		Alkalinity No Headspace	Total Phenol	COD, NH3, TKN	TOC		Sample Specific Comments
44594 05	CHA-35	12/6/17	1215	GW	JS	1	1					2		Routine P.

ALPHA

NEW YORK CHAIN OF CUSTODY

Westborough, MA 01581
8 Walkup Dr.
TEL 508-898-9220
FAX 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL 508-822-9300
FAX 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 12/9/17 ~~12/8/17~~

ALPHA Job # L1744594

Client Information

Client: Arcadis U.S. Inc.
Address: 855 Rt. 146
Clifton Park, N.Y.
Phone: 518-250-7325
Fax:
Email: danielle.groux@arcadis-us.com

Project Information

Project Name:
Project Location: Colonie Landfill Area 6
Project #:
(Use Project name as Project #) ☑
Project Manager:
ALPHAQuote #:

Turn-Around Time

Standard ☑ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☑ Other

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☑ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information

☒ Same as Client info
PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
☐ NJ ☐ NY
☐ Other NA

These samples have been previously analyzed by Alpha ☑

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date (2017)	Collection Time	Sample Matrix	Sampler's Initials	Total Metals	Cl,Br,SO4,TDS,NO3,BOD		Alkalinity No Headspace	Total Phenol	COD,NH3,TKN	TOC		Sample Specific Comments
44594-06	S.L.-A	12/8	1210	AQ	JS	✓	✓		✓	✓	✓	✓		Routine Parm
-07	S.L.-B	↓	1230	↓	↓	↓	↓		↓	↓	↓	↓		↓
-08	PPRS Phase I	↓	1245	↓	↓	↓	↓		↓	↓	↓	↓		↓
-09	S.L.-C	↓	1255	↓	↓	↓	↓		↓	↓	↓	↓		↓
-10	S.L.-D	↓	1310	↓	↓	↓	↓		↓	↓	↓	↓		↓
-11	PPRS Phase II	↓	1320	↓	↓	↓	↓		↓	↓	↓	↓		↓

Sample Filtration

☐ Done
☐ Lab to do

Preservation

☐ Lab to do

(Please Specify below)

Preservative Code:
A = None
B = HCl
C = HNO3
D = H2SO4
E = NaOH
F = MeOH
G = NaHSO4
H = Na2S2O3
K/E = Zn Ac/NaOH
O = Other

Container Code:
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No. MA935
Mansfield: Certification No. MA018

Container Type	P	P		P	A	P	V	
Preservative	C	A		A	D	D	D	

Relinquished By:	Date/Time	Received By:	Date/Time
Jim Sewa / SEM	12/8/17 1600	[illegible]	12/8/17 1600
[illegible]	12/8/17 1650	[illegible]	12/9/17 0940

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S [illegible]

Form No. 01-25 (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L1744427
Client:	Arcadis U.S, Inc. 855 Route 146, Suite 210 Clifton Park, NY 12065
ATTN:	Danielle Giroux
Phone:	(518) 250-7325
Project Name:	COLONIE LANDFILL AREA 6
Project Number:	22396002.2017
Report Date:	01/16/18

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: COLONIE LANDFILL AREA 6
Project Number: 22396002.2017

Lab Number: L1744427
Report Date: 01/16/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1744427-01	MPI-11S	WATER	COLONIE, NY	12/04/17 11:30	12/04/17
L1744427-02	MPI-11I	WATER	COLONIE, NY	12/04/17 12:00	12/04/17
L1744427-03	CHA-8S	WATER	COLONIE, NY	12/04/17 10:30	12/04/17
L1744427-04	CHA-8I	WATER	COLONIE, NY	12/04/17 11:00	12/04/17
L1744427-05	DUPLICATE (AREA 6)	WATER	COLONIE, NY	12/04/17 00:00	12/04/17

Project Name:	COLONIE LANDFILL AREA 6	**Lab Number:**	L1744427
Project Number:	22396002.2017	**Report Date:**	01/16/18

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	COLONIE LANDFILL AREA 6	**Lab Number:**	L1744427
Project Number:	22396002.2017	**Report Date:**	01/16/18

Case Narrative (continued)

Report Revision

January 16, 2018: This report includes the results of the Hardness analysis performed on L1744427-01 through -05.

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Nitrogen, Total Kjeldahl

The WG1069402-3 Laboratory Duplicate RPD (26%), performed on L1744427-01, is above the acceptance criteria; however, the sample and duplicate results are less than five times the reporting limit. Therefore, the RPD is valid.

Total Organic Carbon

L1744427-02: The sample has an elevated detection limit due to the dilution required by the sample matrix.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Cristin Walker

Title: Technical Director/Representative

Date: 01/16/18

METALS

Project Name: COLONIE LANDFILL AREA 6 **Lab Number:** L1744427

Project Number: 22396002.2017 **Report Date:** 01/16/18

SAMPLE RESULTS

Lab ID: L1744427-01 Date Collected: 12/04/17 11:30

Client ID: MPI-11S Date Received: 12/04/17

Sample Location: COLONIE, NY Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Cadmium, Total	0.1162	J	ug/l	0.2000	0.0599	1	12/05/17 12:50	12/07/17 17:11	EPA 3005A	1,6020A	AM
Calcium, Total	87200		ug/l	100.	39.4	1	12/05/17 12:50	12/07/17 17:11	EPA 3005A	1,6020A	AM
Iron, Total	125.		ug/l	50.0	19.1	1	12/05/17 12:50	12/07/17 17:11	EPA 3005A	1,6020A	AM
Lead, Total	0.3826	J	ug/l	1.000	0.3430	1	12/05/17 12:50	12/07/17 17:11	EPA 3005A	1,6020A	AM
Magnesium, Total	57900		ug/l	70.0	24.2	1	12/05/17 12:50	12/07/17 17:11	EPA 3005A	1,6020A	AM
Manganese, Total	78.98		ug/l	1.000	0.4400	1	12/05/17 12:50	12/07/17 17:11	EPA 3005A	1,6020A	AM
Potassium, Total	1820		ug/l	100.	30.9	1	12/05/17 12:50	12/07/17 17:11	EPA 3005A	1,6020A	AM
Sodium, Total	38600		ug/l	100.	29.3	1	12/05/17 12:50	12/07/17 17:11	EPA 3005A	1,6020A	AM
Total Hardness (by calculation) - Mansfield Lab											
Hardness	456100		ug/l	540.0	NA	1	12/05/17 12:50	12/07/17 17:11	EPA 3005A	1,6020A	AM

Project Name:	COLONIE LANDFILL AREA 6	**Lab Number:**	L1744427
Project Number:	22396002.2017	**Report Date:**	01/16/18

SAMPLE RESULTS

Lab ID:	L1744427-02	Date Collected:	12/04/17 12:00
Client ID:	MPI-11I	Date Received:	12/04/17
Sample Location:	COLONIE, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Cadmium, Total	ND		ug/l	0.2000	0.0599	1	12/05/17 12:50	12/07/17 17:15	EPA 3005A	1,6020A	AM
Calcium, Total	36800		ug/l	100.	39.4	1	12/05/17 12:50	12/07/17 17:15	EPA 3005A	1,6020A	AM
Iron, Total	132.		ug/l	50.0	19.1	1	12/05/17 12:50	12/07/17 17:15	EPA 3005A	1,6020A	AM
Lead, Total	0.4159	J	ug/l	1.000	0.3430	1	12/05/17 12:50	12/07/17 17:15	EPA 3005A	1,6020A	AM
Magnesium, Total	16400		ug/l	70.0	24.2	1	12/05/17 12:50	12/07/17 17:15	EPA 3005A	1,6020A	AM
Manganese, Total	68.71		ug/l	1.000	0.4400	1	12/05/17 12:50	12/07/17 17:15	EPA 3005A	1,6020A	AM
Potassium, Total	3360		ug/l	100.	30.9	1	12/05/17 12:50	12/07/17 17:15	EPA 3005A	1,6020A	AM
Sodium, Total	66900		ug/l	100.	29.3	1	12/05/17 12:50	12/07/17 17:15	EPA 3005A	1,6020A	AM
Total Hardness (by calculation) - Mansfield Lab											
Hardness	159700		ug/l	540.0	NA	1	12/05/17 12:50	12/07/17 17:15	EPA 3005A	1,6020A	AM

Project Name: COLONIE LANDFILL AREA 6 **Lab Number:** L1744427

Project Number: 22396002.2017 **Report Date:** 01/16/18

SAMPLE RESULTS

Lab ID: L1744427-03 Date Collected: 12/04/17 10:30

Client ID: CHA-8S Date Received: 12/04/17

Sample Location: COLONIE, NY Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Cadmium, Total	0.4784		ug/l	0.2000	0.0599	1	12/05/17 12:50	12/07/17 17:19	EPA 3005A	1,6020A	AM
Calcium, Total	76500		ug/l	100.	39.4	1	12/05/17 12:50	12/07/17 17:19	EPA 3005A	1,6020A	AM
Iron, Total	1250		ug/l	50.0	19.1	1	12/05/17 12:50	12/07/17 17:19	EPA 3005A	1,6020A	AM
Lead, Total	1.353		ug/l	1.000	0.3430	1	12/05/17 12:50	12/07/17 17:19	EPA 3005A	1,6020A	AM
Magnesium, Total	13200		ug/l	70.0	24.2	1	12/05/17 12:50	12/07/17 17:19	EPA 3005A	1,6020A	AM
Manganese, Total	688.0		ug/l	1.000	0.4400	1	12/05/17 12:50	12/07/17 17:19	EPA 3005A	1,6020A	AM
Potassium, Total	1340		ug/l	100.	30.9	1	12/05/17 12:50	12/07/17 17:19	EPA 3005A	1,6020A	AM
Sodium, Total	29200		ug/l	100.	29.3	1	12/05/17 12:50	12/07/17 17:19	EPA 3005A	1,6020A	AM
Total Hardness (by calculation) - Mansfield Lab											
Hardness	245500		ug/l	540.0	NA	1	12/05/17 12:50	12/07/17 17:19	EPA 3005A	1,6020A	AM

Project Name:	COLONIE LANDFILL AREA 6	**Lab Number:**	L1744427
Project Number:	22396002.2017	**Report Date:**	01/16/18

SAMPLE RESULTS

Lab ID:	L1744427-04	Date Collected:	12/04/17 11:00
Client ID:	CHA-8I	Date Received:	12/04/17
Sample Location:	COLONIE, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Cadmium, Total	0.1439	J	ug/l	0.2000	0.0599	1	12/05/17 12:50	12/07/17 17:23	EPA 3005A	1,6020A	AM
Calcium, Total	37100		ug/l	100.	39.4	1	12/05/17 12:50	12/07/17 17:23	EPA 3005A	1,6020A	AM
Iron, Total	287.		ug/l	50.0	19.1	1	12/05/17 12:50	12/07/17 17:23	EPA 3005A	1,6020A	AM
Lead, Total	1.736		ug/l	1.000	0.3430	1	12/05/17 12:50	12/07/17 17:23	EPA 3005A	1,6020A	AM
Magnesium, Total	32600		ug/l	70.0	24.2	1	12/05/17 12:50	12/07/17 17:23	EPA 3005A	1,6020A	AM
Manganese, Total	199.4		ug/l	1.000	0.4400	1	12/05/17 12:50	12/07/17 17:23	EPA 3005A	1,6020A	AM
Potassium, Total	1630		ug/l	100.	30.9	1	12/05/17 12:50	12/07/17 17:23	EPA 3005A	1,6020A	AM
Sodium, Total	28500		ug/l	100.	29.3	1	12/05/17 12:50	12/07/17 17:23	EPA 3005A	1,6020A	AM
Total Hardness (by calculation) - Mansfield Lab											
Hardness	226900		ug/l	540.0	NA	1	12/05/17 12:50	12/07/17 17:23	EPA 3005A	1,6020A	AM

Project Name:	COLONIE LANDFILL AREA 6	**Lab Number:**	L1744427
Project Number:	22396002.2017	**Report Date:**	01/16/18

SAMPLE RESULTS

Lab ID:	L1744427-05	Date Collected:	12/04/17 00:00
Client ID:	DUPLICATE (AREA 6)	Date Received:	12/04/17
Sample Location:	COLONIE, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Cadmium, Total	0.1020	J	ug/l	0.2000	0.0599	1	12/05/17 12:50	12/07/17 20:42	EPA 3005A	1,6020A	AM
Calcium, Total	37100		ug/l	100.	39.4	1	12/05/17 12:50	12/07/17 20:42	EPA 3005A	1,6020A	AM
Iron, Total	403.		ug/l	50.0	19.1	1	12/05/17 12:50	12/07/17 20:42	EPA 3005A	1,6020A	AM
Lead, Total	1.666		ug/l	1.000	0.3430	1	12/05/17 12:50	12/07/17 20:42	EPA 3005A	1,6020A	AM
Magnesium, Total	31700		ug/l	70.0	24.2	1	12/05/17 12:50	12/07/17 20:42	EPA 3005A	1,6020A	AM
Manganese, Total	190.3		ug/l	1.000	0.4400	1	12/05/17 12:50	12/07/17 20:42	EPA 3005A	1,6020A	AM
Potassium, Total	1620		ug/l	100.	30.9	1	12/05/17 12:50	12/07/17 20:42	EPA 3005A	1,6020A	AM
Sodium, Total	27100		ug/l	100.	29.3	1	12/05/17 12:50	12/07/17 20:42	EPA 3005A	1,6020A	AM
Total Hardness (by calculation) - Mansfield Lab											
Hardness	223200		ug/l	540.0	NA	1	12/05/17 12:50	12/07/17 20:42	EPA 3005A	1,6020A	AM

Project Name: COLONIE LANDFILL AREA 6 **Lab Number:** L1744427

Project Number: 22396002.2017 **Report Date:** 01/16/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-05 Batch: WG1069200-1										
Cadmium, Total	ND		ug/l	0.2000	0.0599	1	12/05/17 12:50	12/07/17 16:52	1,6020A	AM
Calcium, Total	ND		ug/l	100	39.4	1	12/05/17 12:50	12/07/17 16:52	1,6020A	AM
Iron, Total	ND		ug/l	50.0	19.1	1	12/05/17 12:50	12/07/17 16:52	1,6020A	AM
Lead, Total	ND		ug/l	1.000	0.3430	1	12/05/17 12:50	12/07/17 16:52	1,6020A	AM
Magnesium, Total	ND		ug/l	70.0	24.2	1	12/05/17 12:50	12/07/17 16:52	1,6020A	AM
Manganese, Total	ND		ug/l	1.000	0.4400	1	12/05/17 12:50	12/07/17 16:52	1,6020A	AM
Potassium, Total	ND		ug/l	100	30.9	1	12/05/17 12:50	12/07/17 16:52	1,6020A	AM
Sodium, Total	30.9	J	ug/l	100	29.3	1	12/05/17 12:50	12/07/17 16:52	1,6020A	AM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Hardness (by calculation) - Mansfield Lab for sample(s): 01-05 Batch: WG1069200-1										
Hardness	ND		ug/l	540.0	NA	1	12/05/17 12:50	12/07/17 16:52	1,6020A	AM

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis
Batch Quality Control

Project Name: COLONIE LANDFILL AREA 6
Project Number: 22396002.2017
Lab Number: L1744427
Report Date: 01/16/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1069200-2								
Cadmium, Total	107		-		80-120	-		
Calcium, Total	106		-		80-120	-		
Iron, Total	117		-		80-120	-		
Lead, Total	105		-		80-120	-		
Magnesium, Total	111		-		80-120	-		
Manganese, Total	107		-		80-120	-		
Potassium, Total	108		-		80-120	-		
Sodium, Total	112		-		80-120	-		
Total Hardness (by calculation) - Mansfield Lab Associated sample(s): 01-05 Batch: WG1069200-2								
Hardness	109		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: COLONIE LANDFILL AREA 6
Project Number: 22396002.2017
Lab Number: L1744427
Report Date: 01/16/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1069200-3 QC Sample: L1744300-01 Client ID: MS Sample												
Cadmium, Total	3.478	51	56.88	105		-	-		75-125	-		20
Calcium, Total	92300	10000	104000	117		-	-		75-125	-		20
Iron, Total	6180	1000	6250	**7**	Q	-	-		75-125	-		20
Lead, Total	18.13	510	567.4	108		-	-		75-125	-		20
Magnesium, Total	12100	10000	22600	105		-	-		75-125	-		20
Manganese, Total	1854.	500	2307	91		-	-		75-125	-		20
Potassium, Total	3670	10000	14500	108		-	-		75-125	-		20
Sodium, Total	39700	10000	49800	101		-	-		75-125	-		20
Total Hardness (by calculation) - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1069200-3 QC Sample: L1744300-01 Client ID: MS Sample												
Hardness	280300	66200	351700	108		-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: COLONIE LANDFILL AREA 6
Project Number: 22396002.2017

Lab Number: L1744427
Report Date: 01/16/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1069200-4 QC Sample: L1744300-01 Client ID: DUP Sample						
Iron, Total	6180	5200	ug/l	17		20
Sodium, Total	39700	38800	ug/l	2		20

INORGANICS
&
MISCELLANEOUS

Project Name: COLONIE LANDFILL AREA 6
Project Number: 22396002.2017

Lab Number: L1744427
Report Date: 01/16/18

SAMPLE RESULTS

Lab ID: L1744427-01
Client ID: MPI-11S
Sample Location: COLONIE, NY
Matrix: Water

Date Collected: 12/04/17 11:30
Date Received: 12/04/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	291.		mg CaCO3/L	2.00	NA	1	-	12/05/17 10:04	121,2320B	BR
Solids, Total Dissolved	710		mg/l	10	3.1	1	-	12/05/17 12:20	121,2540C	SD
Nitrogen, Ammonia	0.031	J	mg/l	0.075	0.024	1	12/05/17 16:30	12/07/17 00:44	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.033	1	-	12/05/17 19:27	44,353.2	MR
Nitrogen, Total Kjeldahl	0.400		mg/l	0.300	0.066	1	12/06/17 01:30	12/07/17 22:31	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	2.7	1	12/07/17 21:55	12/08/17 00:02	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	12/05/17 20:50	12/10/17 15:00	121,5210B	RP
Total Organic Carbon	1.64		mg/l	1.00	0.228	2	-	12/05/17 09:31	121,5310C	AG
Phenolics, Total	ND		mg/l	0.030	0.006	1	12/05/17 11:46	12/05/17 14:36	4,420.1	AW
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.009	1	-	12/06/17 20:34	44,300.0	AU
Chloride	24.3		mg/l	0.500	0.083	1	-	12/06/17 20:34	44,300.0	AU
Sulfate	299.		mg/l	10.0	1.60	10	-	12/07/17 00:59	44,300.0	AU

Project Name: COLONIE LANDFILL AREA 6
Project Number: 22396002.2017

Lab Number: L1744427
Report Date: 01/16/18

SAMPLE RESULTS

Lab ID: L1744427-02
Client ID: MPI-11I
Sample Location: COLONIE, NY
Matrix: Water

Date Collected: 12/04/17 12:00
Date Received: 12/04/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	195.		mg CaCO3/L	2.00	NA	1	-	12/05/17 10:04	121,2320B	BR
Solids, Total Dissolved	380		mg/l	10	3.1	1	-	12/05/17 12:20	121,2540C	SD
Nitrogen, Ammonia	0.027	J	mg/l	0.075	0.024	1	12/05/17 16:30	12/07/17 00:45	44,350.1	AT
Nitrogen, Nitrate	0.41		mg/l	0.10	0.033	1	-	12/05/17 19:31	44,353.2	MR
Nitrogen, Total Kjeldahl	0.177	J	mg/l	0.300	0.066	1	12/06/17 01:30	12/07/17 22:34	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	2.7	1	12/07/17 21:55	12/08/17 00:02	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	12/05/17 20:50	12/10/17 15:00	121,5210B	RP
Total Organic Carbon	0.890	J	mg/l	1.00	0.228	2	-	12/05/17 09:31	121,5310C	AG
Phenolics, Total	ND		mg/l	0.030	0.006	1	12/05/17 11:46	12/05/17 14:38	4,420.1	AW
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.009	1	-	12/06/17 20:46	44,300.0	AU
Chloride	2.52		mg/l	0.500	0.083	1	-	12/06/17 20:46	44,300.0	AU
Sulfate	131.		mg/l	10.0	1.60	10	-	12/07/17 01:11	44,300.0	AU

Project Name: COLONIE LANDFILL AREA 6
Project Number: 22396002.2017

Lab Number: L1744427
Report Date: 01/16/18

SAMPLE RESULTS

Lab ID: L1744427-03
Client ID: CHA-8S
Sample Location: COLONIE, NY
Matrix: Water

Date Collected: 12/04/17 10:30
Date Received: 12/04/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	138.		mg CaCO3/L	2.00	NA	1	-	12/05/17 10:04	121,2320B	BR
Solids, Total Dissolved	350		mg/l	10	3.1	1	-	12/05/17 12:20	121,2540C	SD
Nitrogen, Ammonia	0.038	J	mg/l	0.075	0.024	1	12/05/17 16:30	12/07/17 00:46	44,350.1	AT
Nitrogen, Nitrate	0.44		mg/l	0.10	0.033	1	-	12/05/17 19:32	44,353.2	MR
Nitrogen, Total Kjeldahl	2.78		mg/l	1.50	0.330	5	12/06/17 01:30	12/07/17 22:35	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	480		mg/l	100	27.	10	12/07/17 21:55	12/08/17 00:02	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	12/05/17 20:50	12/10/17 15:00	121,5210B	RP
Total Organic Carbon	2.58		mg/l	1.00	0.228	2	-	12/05/17 09:31	121,5310C	AG
Phenolics, Total	ND		mg/l	0.030	0.006	1	12/05/17 11:46	12/05/17 14:39	4,420.1	AW
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.009	1	-	12/06/17 20:58	44,300.0	AU
Chloride	45.9		mg/l	0.500	0.083	1	-	12/06/17 20:58	44,300.0	AU
Sulfate	83.4		mg/l	1.00	0.160	1	-	12/06/17 20:58	44,300.0	AU

Project Name: COLONIE LANDFILL AREA 6
Project Number: 22396002.2017

Lab Number: L1744427
Report Date: 01/16/18

SAMPLE RESULTS

Lab ID: L1744427-04
Client ID: CHA-8I
Sample Location: COLONIE, NY
Matrix: Water

Date Collected: 12/04/17 11:00
Date Received: 12/04/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	201.		mg CaCO3/L	2.00	NA	1	-	12/05/17 10:04	121,2320B	BR
Solids, Total Dissolved	360		mg/l	10	3.1	1	-	12/05/17 12:20	121,2540C	SD
Nitrogen, Ammonia	0.085		mg/l	0.075	0.024	1	12/05/17 16:30	12/07/17 00:47	44,350.1	AT
Nitrogen, Nitrate	0.15		mg/l	0.10	0.033	1	-	12/05/17 19:33	44,353.2	MR
Nitrogen, Total Kjeldahl	0.488		mg/l	0.300	0.066	1	12/06/17 01:30	12/07/17 22:38	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	2.7	1	12/07/17 21:55	12/08/17 00:03	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	12/05/17 20:50	12/10/17 15:00	121,5210B	RP
Total Organic Carbon	1.72		mg/l	1.00	0.228	2	-	12/05/17 09:31	121,5310C	AG
Phenolics, Total	ND		mg/l	0.030	0.006	1	12/05/17 11:46	12/05/17 14:40	4,420.1	AW
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.009	1	-	12/06/17 21:10	44,300.0	AU
Chloride	32.6		mg/l	0.500	0.083	1	-	12/06/17 21:10	44,300.0	AU
Sulfate	48.1		mg/l	1.00	0.160	1	-	12/06/17 21:10	44,300.0	AU

Project Name: COLONIE LANDFILL AREA 6
Project Number: 22396002.2017

Lab Number: L1744427
Report Date: 01/16/18

SAMPLE RESULTS

Lab ID: L1744427-05
Client ID: DUPLICATE (AREA 6)
Sample Location: COLONIE, NY
Matrix: Water

Date Collected: 12/04/17 00:00
Date Received: 12/04/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	196.		mg CaCO3/L	2.00	NA	1	-	12/05/17 10:04	121,2320B	BR
Solids, Total Dissolved	320		mg/l	10	3.1	1	-	12/05/17 12:20	121,2540C	SD
Nitrogen, Ammonia	0.120		mg/l	0.075	0.024	1	12/05/17 16:30	12/07/17 00:48	44,350.1	AT
Nitrogen, Nitrate	0.12		mg/l	0.10	0.033	1	-	12/05/17 19:35	44,353.2	MR
Nitrogen, Total Kjeldahl	0.327		mg/l	0.300	0.066	1	12/06/17 01:30	12/07/17 22:39	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	2.7	1	12/07/17 21:55	12/08/17 00:03	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	12/05/17 20:50	12/10/17 15:00	121,5210B	RP
Total Organic Carbon	1.77		mg/l	1.00	0.228	2	-	12/05/17 09:31	121,5310C	AG
Phenolics, Total	ND		mg/l	0.030	0.006	1	12/05/17 11:46	12/05/17 14:42	4,420.1	AW
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.009	1	-	12/06/17 21:22	44,300.0	AU
Chloride	31.4		mg/l	0.500	0.083	1	-	12/06/17 21:22	44,300.0	AU
Sulfate	47.3		mg/l	1.00	0.160	1	-	12/06/17 21:22	44,300.0	AU

Project Name: COLONIE LANDFILL AREA 6 **Lab Number:** L1744427

Project Number: 22396002.2017 **Report Date:** 01/16/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG1069069-1										
Solids, Total Dissolved	ND		mg/l	10	3.1	1	-	12/05/17 12:20	121,2540C	SD
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG1069072-1										
Total Organic Carbon	ND		mg/l	0.500	0.114	1	-	12/05/17 09:31	121,5310C	AG
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG1069095-1										
Alkalinity, Total	ND		mg CaCO3/L	2.00	NA	1	-	12/05/17 10:04	121,2320B	BR
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG1069175-1										
Nitrogen, Ammonia	ND		mg/l	0.075	0.024	1	12/05/17 16:30	12/07/17 00:32	44,350.1	AT
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG1069179-1										
Phenolics, Total	ND		mg/l	0.030	0.006	1	12/05/17 11:46	12/05/17 14:22	4,420.1	AW
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG1069300-1										
Nitrogen, Nitrate	ND		mg/l	0.10	0.033	1	-	12/05/17 18:51	44,353.2	MR
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG1069364-1										
BOD, 5 day	ND		mg/l	2.0	NA	1	12/05/17 20:50	12/10/17 15:00	121,5210B	RP
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG1069402-1										
Nitrogen, Total Kjeldahl	ND		mg/l	0.300	0.022	1	12/06/17 01:30	12/07/17 22:27	4,351.3/.1 (M)	AT
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG1070272-1										
Chemical Oxygen Demand	ND		mg/l	10	2.7	1	12/07/17 21:55	12/07/17 23:59	44,410.4	TL
Anions by Ion Chromatography - Westborough Lab for sample(s): 01-05 Batch: WG1070790-1										
Bromide	ND		mg/l	0.050	0.009	1	-	12/06/17 17:58	44,300.0	AU
Chloride	ND		mg/l	0.500	0.083	1	-	12/06/17 17:58	44,300.0	AU
Sulfate	ND		mg/l	1.00	0.160	1	-	12/06/17 17:58	44,300.0	AU

Lab Control Sample Analysis
Batch Quality Control

Project Name: COLONIE LANDFILL AREA 6
Project Number: 22396002.2017

Lab Number: L1744427
Report Date: 01/16/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG1069069-2								
Solids, Total Dissolved	92		-		80-120	-		
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG1069072-2								
Total Organic Carbon	98		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG1069095-2								
Alkalinity, Total	105		-		90-110	-		10
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG1069175-2								
Nitrogen, Ammonia	96		-		90-110	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG1069179-2								
Phenolics, Total	80		-		70-130	-		
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG1069300-2								
Nitrogen, Nitrate	102		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG1069364-2								
BOD, 5 day	99		-		85-115	-		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: COLONIE LANDFILL AREA 6

Project Number: 22396002.2017

Lab Number: L1744427

Report Date: 01/16/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG1069402-2					
Nitrogen, Total Kjeldahl	96	-	78-122	-	
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG1070272-2					
Chemical Oxygen Demand	96	-	90-110	-	
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-05 Batch: WG1070790-2					
Bromide	99	-	90-110	-	
Chloride	104	-	90-110	-	
Sulfate	106	-	90-110	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: COLONIE LANDFILL AREA 6
Project Number: 22396002.2017

Lab Number: L1744427
Report Date: 01/16/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1069072-4 QC Sample: L1744376-02 Client ID: MS Sample												
Total Organic Carbon	0.750	4	4.70	99		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1069095-4 QC Sample: L1744340-02 Client ID: MS Sample												
Alkalinity, Total	181.	100	277	96		-	-		86-116	-		10
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1069175-4 QC Sample: L1744376-02 Client ID: MS Sample												
Nitrogen, Ammonia	0.431	4	4.29	96		-	-		90-110	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1069179-4 QC Sample: L1744250-02 Client ID: MS Sample												
Phenolics, Total	ND	0.4	0.38	94		-	-		70-130	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1069300-4 QC Sample: L1744427-01 Client ID: MPI-11S												
Nitrogen, Nitrate	ND	4	3.7	92		-	-		83-113	-		6
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1069364-4 QC Sample: L1744427-05 Client ID: DUPLICATE (AREA 6)												
BOD, 5 day	ND	100	84	84		-	-		50-145	-		35
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1069402-4 QC Sample: L1744427-01 Client ID: MPI-11S												
Nitrogen, Total Kjeldahl	0.400	8	7.76	92		-	-		77-111	-		24
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1070272-3 QC Sample: L1744376-02 Client ID: MS Sample												
Chemical Oxygen Demand	ND	47.6	50	105		-	-		90-110	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: COLONIE LANDFILL AREA 6
Project Number: 22396002.2017
Lab Number: L1744427
Report Date: 01/16/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery		Recovery Limits	RPD	RPD Limits
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1070790-3 WG1070790-4 QC Sample: L1744250-02 Client ID: MS Sample											
Bromide	ND	0.4	0.346	**87**	Q	0.345	**86**	Q	90-110	0	20
Chloride	14.7	4	18.6	95		18.6	95		90-110	0	18
Sulfate	14.5	8	22.9	105		23.2	109		90-110	1	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: COLONIE LANDFILL AREA 6
Project Number: 22396002.2017

Lab Number: L1744427
Report Date: 01/16/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1069069-3 QC Sample: L1744219-01 Client ID: DUP Sample						
Solids, Total Dissolved	150	150	mg/l	0		10
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1069072-3 QC Sample: L1744376-02 Client ID: DUP Sample						
Total Organic Carbon	0.750	0.750	mg/l	0		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1069095-3 QC Sample: L1744340-01 Client ID: DUP Sample						
Alkalinity, Total	198.	200	mg CaCO3/L	1		10
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1069175-3 QC Sample: L1744376-02 Client ID: DUP Sample						
Nitrogen, Ammonia	0.431	0.434	mg/l	1		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1069179-3 QC Sample: L1744250-02 Client ID: DUP Sample						
Phenolics, Total	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1069300-3 QC Sample: L1744427-01 Client ID: MPI-11S						
Nitrogen, Nitrate	ND	ND	mg/l	NC		6
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1069364-3 QC Sample: L1744427-05 Client ID: DUPLICATE (AREA 6)						
BOD, 5 day	ND	ND	mg/l	NC		35
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1069402-3 QC Sample: L1744427-01 Client ID: MPI-11S						
Nitrogen, Total Kjeldahl	0.400	0.309	mg/l	**26**	Q	24
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1070272-4 QC Sample: L1744376-02 Client ID: DUP Sample						
Chemical Oxygen Demand	ND	ND	mg/l	NC		20

Project Name: COLONIE LANDFILL AREA 6
Project Number: 22396002.2017

Lab Number: L1744427
Report Date: 01/16/18

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1744427-01A	Vial H2SO4 preserved	A	NA		2.5	Y	Absent		TOC-5310(28)
L1744427-01B	Vial H2SO4 preserved	A	NA		2.5	Y	Absent		TOC-5310(28)
L1744427-01C	Plastic 120ml unpreserved/No Headspace	A	NA		2.5	Y	Absent		ALK-T-2320(14)
L1744427-01D	Plastic 250ml HNO3 preserved	A	<2	<2	2.5	Y	Absent		CD-6020T-PPB(180),CA-6020T-PPB(180),K-6020T-PPB(180),PB-6020T-PPB(180),FE-6020T-PPB(180),MG-6020T-PPB(180),NA-6020T-PPB(180),MN-6020T-PPB(180)
L1744427-01E	Plastic 500ml H2SO4 preserved	A	<2	<2	2.5	Y	Absent		TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1744427-01F	Amber 500ml H2SO4 preserved	A	<2	<2	2.5	Y	Absent		NY-TPHENOL-420(28)
L1744427-01G	Plastic 950ml unpreserved	A	7	7	2.5	Y	Absent		SO4-300(28),CL-300(28),BOD-5210(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1744427-02A	Vial H2SO4 preserved	A	NA		2.5	Y	Absent		TOC-5310(28)
L1744427-02B	Vial H2SO4 preserved	A	NA		2.5	Y	Absent		TOC-5310(28)
L1744427-02C	Plastic 120ml unpreserved/No Headspace	A	NA		2.5	Y	Absent		ALK-T-2320(14)
L1744427-02D	Plastic 250ml HNO3 preserved	A	<2	<2	2.5	Y	Absent		CD-6020T-PPB(180),CA-6020T-PPB(180),K-6020T-PPB(180),PB-6020T-PPB(180),FE-6020T-PPB(180),MG-6020T-PPB(180),NA-6020T-PPB(180),MN-6020T-PPB(180)
L1744427-02E	Plastic 500ml H2SO4 preserved	A	<2	<2	2.5	Y	Absent		TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1744427-02F	Amber 500ml H2SO4 preserved	A	<2	<2	2.5	Y	Absent		NY-TPHENOL-420(28)
L1744427-02G	Plastic 950ml unpreserved	A	7	7	2.5	Y	Absent		SO4-300(28),CL-300(28),BOD-5210(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1744427-03A	Vial H2SO4 preserved	A	NA		2.5	Y	Absent		TOC-5310(28)
L1744427-03B	Vial H2SO4 preserved	A	NA		2.5	Y	Absent		TOC-5310(28)
L1744427-03C	Plastic 120ml unpreserved/No Headspace	A	NA		2.5	Y	Absent		ALK-T-2320(14)
L1744427-03D	Plastic 250ml HNO3 preserved	A	<2	<2	2.5	Y	Absent		CD-6020T-PPB(180),CA-6020T-PPB(180),K-6020T-PPB(180),PB-6020T-PPB(180),FE-6020T-PPB(180),MG-6020T-PPB(180),NA-6020T-PPB(180),MN-6020T-PPB(180)

*Values in parentheses indicate holding time in days

Project Name: COLONIE LANDFILL AREA 6
Project Number: 22396002.2017

Lab Number: L1744427
Report Date: 01/16/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1744427-03E	Plastic 500ml H2SO4 preserved	A	<2	<2	2.5	Y	Absent		TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1744427-03F	Amber 500ml H2SO4 preserved	A	<2	<2	2.5	Y	Absent		NY-TPHENOL-420(28)
L1744427-03G	Plastic 950ml unpreserved	A	7	7	2.5	Y	Absent		SO4-300(28),CL-300(28),BOD-5210(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1744427-04A	Vial H2SO4 preserved	A	NA		2.5	Y	Absent		TOC-5310(28)
L1744427-04B	Vial H2SO4 preserved	A	NA		2.5	Y	Absent		TOC-5310(28)
L1744427-04C	Plastic 120ml unpreserved/No Headspace	A	NA		2.5	Y	Absent		ALK-T-2320(14)
L1744427-04D	Plastic 250ml HNO3 preserved	A	<2	<2	2.5	Y	Absent		CD-6020T-PPB(180),CA-6020T-PPB(180),K-6020T-PPB(180),PB-6020T-PPB(180),FE-6020T-PPB(180),MG-6020T-PPB(180),NA-6020T-PPB(180),MN-6020T-PPB(180)
L1744427-04E	Plastic 500ml H2SO4 preserved	A	<2	<2	2.5	Y	Absent		TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1744427-04F	Amber 500ml H2SO4 preserved	A	<2	<2	2.5	Y	Absent		NY-TPHENOL-420(28)
L1744427-04G	Plastic 950ml unpreserved	A	7	7	2.5	Y	Absent		SO4-300(28),CL-300(28),BOD-5210(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1744427-05A	Vial H2SO4 preserved	A	NA		2.5	Y	Absent		TOC-5310(28)
L1744427-05B	Vial H2SO4 preserved	A	NA		2.5	Y	Absent		TOC-5310(28)
L1744427-05C	Plastic 120ml unpreserved/No Headspace	A	NA		2.5	Y	Absent		ALK-T-2320(14)
L1744427-05D	Plastic 250ml HNO3 preserved	A	<2	<2	2.5	Y	Absent		CD-6020T-PPB(180),CA-6020T-PPB(180),K-6020T-PPB(180),PB-6020T-PPB(180),FE-6020T-PPB(180),MG-6020T-PPB(180),NA-6020T-PPB(180),MN-6020T-PPB(180)
L1744427-05E	Plastic 500ml H2SO4 preserved	A	<2	<2	2.5	Y	Absent		TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1744427-05F	Amber 500ml H2SO4 preserved	A	<2	<2	2.5	Y	Absent		NY-TPHENOL-420(28)
L1744427-05G	Plastic 950ml unpreserved	A	7	7	2.5	Y	Absent		SO4-300(28),CL-300(28),BOD-5210(2),BR-300(28),NO3-353(2),TDS-2540(7)

*Values in parentheses indicate holding time in days

Project Name:	COLONIE LANDFILL AREA 6	**Lab Number:**	L1744427
Project Number:	22396002.2017	**Report Date:**	01/16/18

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

Report Format: DU Report with 'J' Qualifiers

Project Name:	COLONIE LANDFILL AREA 6	**Lab Number:**	L1744427
Project Number:	22396002.2017	**Report Date:**	01/16/18

Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	COLONIE LANDFILL AREA 6	**Lab Number:**	L1744427
Project Number:	22396002.2017	**Report Date:**	01/16/18

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

4 Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.

44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

ALPHA

NEW YORK CHAIN OF CUSTODY

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 12/5/17

ALPHA Job #: L1744427

Client Information

Client: ARCADIS
Address: 855 Route 146, Suite 210
Clifton Park, NY 12065
Phone: 518-250-7327
Fax: 518-250-7301
Email: Danielle.giroux@arcadis-us.com

Project Information

Project Name: Colonie Landfill Area 6 - Routine
Project Location:
Project #:
(Use Project name as Project #) ☐
Project Manager: Candace Fox
ALPHAQuote #:

Turn-Around Time

Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information

☑ Same as Client Info
PO #:

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
☐ NJ ☐ NY
☐ Other: NA

These samples have been previously analyzed by Alpha ☒

Other project specific requirements/comments:

Routine Metals List: "Wet Chem: BOD,TDS,Br,Cl,SO4,NO3"

Please specify Metals or TAL:

Sample Filtration

☐ Done
☐ Lab to do

Preservation

☐ Lab to do

(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date (2017)	Collection Time	Sample Matrix	Sampler's Initials	*Wet Chem*	Phenols	NH3,TKN,COD	T-Metals	Alk (no headspace)	TOC			Sample Specific Comments	
944[illegible]	MPI-11S	12/4	1130	Water		X	X	X	X	X	X			Routine P.	7
[illegible]	MPI-11I		1200	Water		X	X	X	X	X	X				7
				Water		X	X	X	X	X	X				7
[illegible]	CHA-8S		1030	Water		X	X	X	X	X	X				7
[illegible]	CHA-8I		1100	Water		X	X	X	X	X	X				7
				Water		X	X	X	X	X	X				7
[illegible]	Duplicate (Area 6)		—	Water		X	X	X	X	X	X				7
				Water		X	X	X	X	X	X				7
				Water		X	X	X	X	X	X				7
				Water		X	X	X	X	X	X				7
				Container Type		P	A	P	P	P	V				
				Preservative		A	D	D	C	A	D				

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code:
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No. MA935
Mansfield: Certification No. MA015

Relinquished By:	Date/Time	Received By:	Date/Time
Jim Sciria/SEM	12/4/17 1400	[illegible]	12/4/17 1350
[illegible]	12/4/17 1410	[illegible]	12/5/17 2015

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.

Form No: 01-25 (rev. 30-Sept-2013)

APPENDIX C

Field Sampling Data Forms – Specialized Environmental Monitoring, Inc.

SPECIALIZED ENVIRONMENTAL MONITORING

FIELD OBSERVATION LOG
GROUNDWATER SAMPLING RECORD

SITE NAME **Town of Colonie Landfill - Area 6** **DATE** December 4-8, 2017

Colonie, New York Weather mostly dry and seasonal

Samplers Jim Scerra/SEM page 1 of 3

Routine scan

Well Name / ID	**CHA-8S**	**CHA-8I**	**CHA-8B**	**CHA-3S**	**CHA-3I**	**CHA-3B**
Diameter of Well Casing	2 in	2 in	2 in	2 in	2 in	2 in
Depth of Well (ft.)	11.58	52.07	65.45	24.24	59.40	67.95
Depth to Ground Water	8.55	29.13	43.59	22.83	34.48	38.20
Water Column Height (ft.)	3.03	22.94	21.86	1.41	24.92	29.75
Volume Purged (gal)	1	5.5	NS	0.5	6.5	NS
	draws dwn	draws dwn		~>dry	draws dwn	
Purging/Sampling Method	Bailer	Bailer		Bailer	Bailer	
Sampling Date	4-Dec	4-Dec		5-Dec	5-Dec	
Sampling Time	10:30	11:00		12:15	12:45	
Observations						
color	clear~brn	clear		clear~grey	lt grey	
sheen	no	no		no	no	
odor	no	no		no	no	
Field Parameters						
Temperature (C)	14.7	12.8		11.8	11.0	
Ph	7.50	7.74		7.50	7.67	
Conductivity in uS	263	268		720	349	
Dissolved Oxygen (mg/L)						
Eh (Mv)	204	122		250	190	
Turbidity (visual / NTU)	34	20		44	20	

Comments

NS = Not sampled.

Duplicate collected at CHA-8I

4256 Route 50
Saratoga Springs, New York 12866

518-587-5510 (phone)
518-587-4405 (fax)

SPECIALIZED ENVIRONMENTAL MONITORING

FIELD OBSERVATION LOG
GROUNDWATER SAMPLING RECORD

SITE NAME **Town of Colonie Landfill - Area 6** **DATE** December 4-8, 2017

Colonie, New York Weather Dry & seasonal temps

Samplers Jim Scerra/SEM page 2 of 3

Routine scan

Well Name / ID	**MPI-11S**	**MPI-11-I**	**CHA-7S**	**CHA-7I**	**CHA-7B**	
Diameter of Well Casing	2 in	2 in	2 in	2 in	2 in	
Depth of Well (ft.)	27.08	39.45				
Depth to Ground Water	11.11	13.38	15.64	23.15	19.55	
Water Column Height (ft.)	15.97	26.07				
Volume Purged	6	8.5				
	draws dwn	draws dwn				
Purging/Sampling Method	Bailer	Bailer	NS	NS	NS	
Sampling Date	4-Dec	4-Dec				
Sampling Time	11:30	12:00				
Observations						
color	clear	clear				
sheen	no	no				
odor	no	no				
Field Parameters						
Temperature (C)	11.7	11.0				
Ph	7.51	7.85				
Conductivity in uS	450	282				
Dissolved Oxygen (mg/L)						
Eh (Mv)	200	35				
Turbidity (visual / NTU)	10	10				

Comments

4256 Route 50
Saratoga Springs, New York 12866

518-587-5510 (phone)
518-587-4405 (fax)

SPECIALIZED ENVIRONMENTAL MONITORING

FIELD OBSERVATION LOG
GROUNDWATER SAMPLING RECORD

SITE NAME **Town of Colonie Landfill - Area 6** **DATE** Dec. 4-8, 2017

Colonie, New York Weather dry, seasonal

Samplers Jim Scerra/SEM page 3 of 3

Routine scan

Well Name / ID	**CHA-6I**	**CHA-6B**	**CHA-2I**	**CHA-2B**	**PZ-3**	**CHA-5B**
Diameter of Well Casing	2 in	2 in	2 in	2 in	2 in	2 in
Depth of Well (ft.)	40.8	52.9	68.50	85.6	23.6	19.63
Depth to Ground Water	8.20	10.33	22.70	49.70	12.45	5.15
Water Column Height (ft.)	32.60	42.57	45.80	35.93	11.15	14.48
Volume Purged (Gal)	6.5				4.5	
	drws dwn				drws dwn	
Purging/Sampling Method	HDPE	NS	NS	NS	Bailer	NS
Sampling Date	5-Dec				5-Dec	
Sampling Time	11:30				14:45	
Observations						
color	clear				clear~grey	
sheen	no				no	
odor	no				no	
Field Parameters						
Temperature (C)	13.5				11.9	
Ph	7.00				7.47	
Conductivity in uS	618				267	
Dissolved Oxygen (mg/L)						
Eh (Mv)	25				214	
Turbidity (visual / NTU)	18				24	

Comments

4256 Route 50
Saratoga Springs, New York 12866

518-587-5510 (phone)
518-587-4405 (fax)

SPECIALIZED ENVIRONMENTAL MONITORING

FIELD OBSERVATION LOG
GROUNDWATER SAMPLING RECORD

SITE NAME **Town of Colonie Landfill - Area 6** **DATE** Dec 8, 2017

Colonie, New York Weather Sunny & cold

Samplers Jim Scerra/SEM page 1 of 1

Routine scan Area 6

Well Name / ID	**Phase I**	**Phase 11**	**SL-A**	**SL-B**	**SL-C**	**SL-D**
Diameter of Well Casing	PPRS	PPRS				
Depth of Well (ft.)						
Depth to Ground Water						
Water Column Height (ft.)						
Volume Purged						
Purging/Sampling Method	direct	direct	direct	direct	direct	direct
Sampling Date	8-Dec	8-Dec	8-Dec	8-Dec	8-Dec	8-Dec
Sampling Time	12:45	13:20	12:10	12:30	12:55	13:10
Observations						
color	clear	clear	clear	clear	clear	clear
sheen	no	no	no	no	no	no
odor	no	no	no	no	no	no
Field Parameters						
Temperature (C)	22.8	30.1	28.2	28.4	31.1	31.0
Ph	7.09	7.13	7.32	7.29	7.19	7.12
Conductivity in uS	1300	1375	585	633	420	485
Dissolved Oxygen (mg/L)						
Eh (Mv)	-68	-25	-50	22	-24	27
Turbidity (visual / NTU)	clear	clear	clear	clear	clear	clear

Comments

All turbidity readings <10 NTU

4256 Route 50
Saratoga Springs, New York 12866

518-587-5510 (phone)
518-587-4405 (fax)

APPENDIX D

Database of Historical Analytical Data (On Disc)

APPENDIX E

Data Validation – Data Validation Services, Inc.

Data Validation Services

120 Cobble Creek Road P.O. Box 208
North Creek, NY 12853

Phone 518-251-4429
harry@frontiernet.net

July 19, 2017

Danielle Giroux
ARCADIS US, Inc.
885 Route 146 Suite 210
Clifton Park, NY 12065

RE: Validation of data packages for the Colonie Area 6 Landfill
Alpha Analytical SDG Nos. L1720031 and L1721376

Dear Ms. Giroux:

Review has been completed for the data package generated by TestAmerica Laboratories (TAL) that pertains to samples collected at the Colonie Landfill Area 6 site. Fourteen aqueous samples and a field duplicate collected between 06/14/17 and 06/22/17, and analyzed for 6 NYCRR Part 360 Baseline parameters. Matrix spikes/duplicates and trip blanks were processed. Methodologies utilized are those of the 1995 NYSDEC ASP/SW846 and ASTM.

Validation of 5% of the samples was required. The sample undergoing full validation is MPI-11I. Blanks and spikes were also reviewed. When qualification of unvalidated samples becomes evident during the review of the validated sample and of the QC associated with all samples, it is also denoted within this text. The end-users of the data should consider that verification of reported values for unvalidated samples, and full evaluation for their qualification, have not been performed.

Data validation was performed with guidance from the USEPA CLP National Functional Guidelines for Organic and Inorganic Data Review and the USEPA SOPs HW-24 and HW-6. The following items were reviewed:

* Data Completeness
* Custody Documentation
* Holding Times
* Surrogate and Internal Standard Recoveries
* Matrix Spike Recoveries/Duplicate Correlations
* Field Duplicate Correlations
* Preparation/Calibration Blanks
* Laboratory Control Samples (LCSs)
* Calibration/Low Level Standards (Validated Sample)
* ICP Serial Dilution Correlations
* Instrument IDLs
* Method Compliance
* Sample Result Verification (Validated Sample)

Those items showing deficiencies are discussed in the following sections of this report. All others were found to be acceptable as outlined in the above-mentioned validation procedures, and as applicable for the methodology. Unless noted specifically in the following text, reported results of the validated sample are substantiated by the raw data, and generated in compliance with protocol requirements.

In summary, sample processing was primarily conducted with compliance to protocol requirements and with adherence to quality criteria. Sample results are usable as reported, or usable with minor qualification as estimated, or with edit to non-detection.

Copies of the laboratory case narratives and the laboratory sample summaries are attached to this text, and should be reviewed in conjunction with this report.

Volatile Analyses by 8260C

Accuracy and precision evaluations were performed with matrix spikes of PPRS-PHASE-II, and show acceptable recoveries and correlations, with the exception of the recoveries for trans-1,4-dichloro-2-butene (60% and 65%). The result for that compound in the parent sample is to be qualified as estimated in value ("UJ").

The results for iodomethane in the samples reported in SDG L1720031 are to be qualified as estimated ("UJ") due to low recoveries (54% to 57%) in the associated LCSs.

The field duplicate evaluation between CHA-8S and Duplicate shows acceptable correlations.

Holding times were met, and blanks show no contamination. Surrogate and internal standard recoveries meet protocol and validation requirements.

The calibration standards associated with the validated sample MPI-11I and the other samples reported in SDG L1720031 show outlying responses for bromomethane, iodomethane, and bromoform (21%D to 46%D; iodomethane with low RRF<0.05). The results for those compounds in the samples reported in that SDG are to be qualified as estimated ("UJ").

Metals Analyses by 6010C, 6020, and 7470

The detections of antimony in samples reported in SDG L1720031 that are flagged by the laboratory as "J" are to be edited to non-detection ("U" or "ND") at either the originally reported concentration or the reporting limit, whichever is greater, due to presence of that element in the associated blanks.

Matrix spike recovery/duplicate correlation evaluations were performed on MPI-11S, CHA-3S, and PPRS-PHASE-II. Recoveries and duplicate correlations are within laboratory and validation guidelines.

The field duplicate evaluation between CHA-8S and Duplicate shows acceptable correlations.

The ICP serial dilution evaluations performed on MPI-11S, CHA-3S, and PPRS-PHASE-II show acceptable correlations.

Wet Chemistry Analyses

Review was conducted for method compliance, transcription, calculations, standard and blank acceptability, accuracy and precision, etc., as applicable to each procedure. All associated with validation samples were found acceptable unless noted specifically within this text.

The matrix spike/duplicate evaluations were performed for all analytes on PPRS in PHASE 2. Recoveries and correlations are within validation guidelines.

Numerous additional project matrix spikes were performed, and show acceptable recoveries and correlations, with the exception of the recoveries for bromide, chloride, and sulfate (70% to 79%) in CHA-8I. The results for those analytes in the parent sample are to be qualified as estimated in value ("J").

The field duplicate evaluation between CHA-8S and Duplicate shows an outlying correlation for color. The results for that analyte in the parent sample and duplicate are to be qualified as estimated in value ("UJ" or "J").

Please do not hesitate to contact me if questions or comments arise during your review of this report.

Very truly yours,

Judy Harry

VALIDATION DATA QUALIFIER DEFINITIONS

U	The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected. The associated reported quantitation limit is an estimate and may be inaccurate or imprecise.
NJ	The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.
R	The data are unusable. The analyte may or may not be present.
EMPC	The results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maximum Possible Concentration of the analyte in the sample.

CLIENT and LABORATORY SAMPLE IDs

Project Name: COLONIE LANDFILL AREA 6
Project Number: 22396002.2017

Lab Number: L1720031
Report Date: 06/29/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1720031-01	MPI-11S	WATER	Not Specified	06/14/17 12:30	06/14/17
L1720031-02	MPI-11I	WATER	Not Specified	06/14/17 13:15	06/14/17
L1720031-03	CHA-8S	WATER	Not Specified	06/14/17 13:45	06/14/17
L1720031-04	CHA-8I	WATER	Not Specified	06/14/17 14:15	06/14/17
L1720031-05	CHA-6I	WATER	Not Specified	06/14/17 15:00	06/14/17
L1720031-06	PZ-3	WATER	Not Specified	06/14/17 16:15	06/14/17
L1720031-07	DUP. (AREA 6)	WATER	Not Specified	06/14/17 00:00	06/14/17
L1720031-08	TRIP BLANK	WATER	Not Specified	06/14/17 00:00	06/14/17
L1720031-09	CHA-3S	WATER	Not Specified	06/15/17 11:15	06/15/17
L1720031-10	CHA-3I	WATER	Not Specified	06/15/17 11:30	06/15/17

Project Name: COLONIE LANDFILL AREA 6
Project Number: 22396002.2017

Lab Number: L1721376
Report Date: 06/29/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1721376-01	S.L.-A	WATER	Not Specified	06/22/17 10:00	06/22/17
L1721376-02	S.L.-B	WATER	Not Specified	06/22/17 10:15	06/22/17
L1721376-03	PPRS-PHASE I	WATER	Not Specified	06/22/17 10:30	06/22/17
L1721376-04	S.L.-C	WATER	Not Specified	06/22/17 10:45	06/22/17
L1721376-05	S.L.-D	WATER	Not Specified	06/22/17 11:00	06/22/17
L1721376-06	PPRS.-PHASE II	WATER	Not Specified	06/22/17 11:15	06/22/17
L1721376-07	TRIP BLANK	WATER	Not Specified	06/22/17 00:00	06/22/17

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