

**ACTIVE CONSTRUCTION AND DEMOLITION (C&D) DEBRIS LANDFILL
ANNUAL/QUARTERLY REPORT**

Submit the Annual Report no later than March 1, 2018

- A. This annual 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: Chemung County C&D Landfill			
FACILITY LOCATION ADDRESS: 1488 County Road 60		FACILITY CITY: Elmira	STATE: NY
			ZIP CODE: 14861
FACILITY TOWN: Lowman		FACILITY COUNTY: Chemung	FACILITY PHONE NUMBER: 1-800-CASELLA
FACILITY NYS PLANNING UNIT: (A list of NYS Planning Units can be found at the end of this report): Chemung County			NYSDEC REGION #: 8
360 PERMIT #: 8-0728-00004/00007-0	DATE ISSUED: 09/26/2005	DATE EXPIRES: 09/26/2015	NYS DEC ACTIVITY CODE OR REGISTRATION NUMBER: 08D04
FACILITY CONTACT: Larry Shilling		<input type="checkbox"/> public <input checked="" type="checkbox"/> private	CONTACT PHONE NUMBER: 716-560-7915
			CONTACT FAX NUMBER:
CONTACT EMAIL ADDRESS: larry.shilling@casella.com			
OWNER INFORMATION			
OWNER NAME: Chemung County		OWNER PHONE NUMBER: 607-737-2031	OWNER FAX NUMBER:
OWNER ADDRESS: 203 Lake Street		OWNER CITY: Elmira	STATE: NY
			ZIP CODE: 14901
OWNER CONTACT: Michael Krusen		OWNER CONTACT EMAIL ADDRESS: mkrusen@co.chemung.ny.us	
OPERATOR INFORMATION			
OPERATOR NAME: Chemung Landfill, LLC		<input type="checkbox"/> same as owner	<input type="checkbox"/> public <input checked="" type="checkbox"/> private
PREFERENCES			
Preferred address to receive correspondence: <input checked="" type="checkbox"/> Facility location address <input type="checkbox"/> Owner address <input type="checkbox"/> Other (provide):			
Preferred email address: <input checked="" type="checkbox"/> Facility Contact <input type="checkbox"/> Owner Contact <input type="checkbox"/> Other (provide):			
Preferred individual to receive correspondence: <input checked="" type="checkbox"/> Facility Contact <input type="checkbox"/> Owner Contact <input type="checkbox"/> Other (provide):			
Did you operate in 2017? <input checked="" type="checkbox"/> Yes; Complete this form <input type="checkbox"/> No; Complete and submit Sections 1 and 18. 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?

14,523 Cubic Yards of Airspace

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

1.41 Tons/Cubic Yard

Please do not report units as pounds per cubic yard.

2. Remaining Constructed Capacity

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

242,234 Cubic Yards of Airspace

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

11 Years 9 Months
at 20,500 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

Estimated future disposal

Permit limit

Other (explain): _____

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?

0 Cubic Yards of Airspace

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

0 Years 0 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):

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

Estimated future disposal

Permit limit

Other (explain): N/A

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?

0 _____ 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?

0 _____ Cubic Yards of Airspace

SECTION 3 - PRIMARY LEACHATE

Name of off-site leachate treatment facility(s) utilized: Chemung County WWTP

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.

	PRIMARY LEACHATE COLLECTED (GALLONS)						PRIMARY LEACHATE TREATED OFF SITE (GALLONS)						
	Cell 1 Acres	Cell 2 Acres	Cell 3 Acres	Cell 4 Acres	Cell 5 Acres	Cell 6 Acres	Cell 1 Acres	Cell 2 Acres	Cell 3 Acres	Cell 4 Acres	Cell 5 Acres	Cell 6 Acres	
January	250,496.00						250,496.00						
February	188,459.10						188,459.10						
March	242,863.70						242,863.70						
April	671,075.20						671,075.20						
May	560,093.40	Primary and secondary leachate from the active C&D Landfill (8.66ac.) and the closed Area 3 Landfill (16ac.) is commingled.						560,093.40					
June	254,997.10							254,997.10					
July	180,834.60						180,834.60						
August	128,770.60						128,770.60						
September	88,856.61						88,856.61						
October	115,854.40						115,854.40						
November	346,780.40						346,780.40						
December	114,484.50						114,484.50						
ANNUAL	3,143,565.61						3,143,565.61						

	PRIMARY LEACHATE RECIRCULATED (GALLONS)						PRIMARY LEACHATE TREATED ON SITE (GALLONS)						
	Cell 1 Acres	Cell 2 Acres	Cell 3 Acres	Cell 4 Acres	Cell 5 Acres	Cell 6 Acres	Cell 1 Acres	Cell 2 Acres	Cell 3 Acres	Cell 4 Acres	Cell 5 Acres	Cell 6 Acres	
January													
February													
March													
April													
May													
June		No leachate was recirculated						No leachate was treated on-site.					
July													
August													
September													
October													
November													
December													
ANNUAL													

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:

The requested information is included in the attachments.

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:

The requested information is included in the Quarterly Environmental reports, submitted to the NYSDEC under separate cover.

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

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

Total quantity treated: 3,143,565.61 gal

****This information is proprietary to our business. The information is available at the facility for NYSDEC review.**

SECTION 4 – 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						
Processed C&D						
Other (specify)						
Total ADC						
Total Beneficial Use Determination Materials						

No BUD material was accepted or utilized at the C&D Landfill.

SECTION 5 – CONSTRUCTION & DEMOLITION (CD) DEBRIS DISPOSED

Provide the tonnages of CD debris disposed. Exclude Beneficial Use Determination Material amounts reported in Section 4. DO NOT REPORT IN CUBIC YARDS!

Specify the methods used to measure the quantities disposed and the percentages measured by each method:

100 % Scale Weight _____ % Estimated
 _____ % Truck Count _____ % Other (Specify: _____)

Construction & Demolition (CD) Debris	Weight (tons)
January	1600.10
February	1442.05
March	2791.95
April	2828.90
May	1528.96
June	1924.92
July	2515.84
August	1232.94
September	3218.45
October	1415.79
November	0
December	0
Total Disposed For Year	20499.90
Daily Average (Tons)	99.51

Has the landfill received pulverized C&D debris? _____ Yes • No

If yes, what is the percentage of waste received that is pulverized C&D debris? _____ %

Tipping Fee

Tipping Fee: ** \$/ton

****This information is proprietary to our business. The information is available at the facility for NYSDEC review.**

SECTION 6 – SERVICE AREA OF C&D DEBRIS RECEIVED

Identify the service area of the waste. The Total Tons Received reported below should equal the Total Tons Received in Section 2 (Solid Waste Received). **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 facility 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:

100 % Road _____ % Rail _____ % Water _____ % Other (specify: _____)

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

SERVICE AREA OF C&D DEBRIS 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
Construction & Demolition Debris (mixed)					
		See Attachment			
Other (specify)					
TOTAL RECEIVED (tons):					

SECTION 7 – 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

SECTION 8 - 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?

Financial assurance documents are included in the Chemung MSW Landfill Annual Report submitted separately.

SECTION 9 – 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.

SECTION 10 – 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 11 - 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:

The requested information is included in the Environmental Monitoring Reports, submitted to the NYSDEC under a separate cover.

SECTION 12 - 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:

The requested information is included in the Environmental Monitoring Reports, submitted to the NYSDEC under a separate cover.

SECTION 13 - 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:

The requested information is included in the Environmental Monitoring Reports, submitted to the NYSDEC under a separate cover.

SECTION 14 - 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:

The requested information is included in the Environmental Monitoring Reports, submitted to the NYSDEC under a separate cover. The facility's Annual C&D Settlement Report is included in the attachments.

SECTION 15 - SUMMARIES OF MONITORING DATA

Submit (attached to this form) a summary of the water quality information presented in Sections 12 and 13 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:

The requested information is included in the Environmental Monitoring Reports, submitted to the NYSDEC under a separate cover.

SECTION 16 - SURFACE IMPOUNDMENTS

Does this landfill have a surface impoundment?

Yes No If yes, repeat Sections 11 through 14 above for Quarterly Reports and Section 15 above for Annual report. Attach additional submissions required by this section.

SECTION 17 - 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.

SECTION 18 - 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.

AK
Signature

2-27-18
Date

Andrea Kuntz
Name (Print or Type)

Environmental Analyst
Title (Print or Type)

andrea.kuntz@casella.com
Email (Print or Type)

1488 County Route 60
Address

Elmira
City

NY 14901
State and Zip

(585) 797-4501
Phone Number

ATTACHMENTS: YES NO

Section 3 – Primary Leachate
Annual Leachate Cleaning Logs



932 Sohn Alloway Road
 Lyons, New York 14489
 (315) 871-4420 tel
 (315) 871-4430 fax
 www.jamkocorp.com

Daily Line Cleaning Record

Page: 1 of 3

Project No.: 6176
 Client: Casella Waste Systems

Site Location: Chemung Co Landfill
 Jamko Technician(s): Bade, Brandon

Date: 9/5/17

Weather:

Location Cell / Street	Line Segment MH # to MH #		Pipe Diameter	Pipe Type	Total Length Linear Footage	Total Linear Footage Cleaned	No. of Passes	Water Used Total Gallons	Total Gallons Leachate Vac.
Active C&D LF	C/O-6N	C/O-5N	6"	PVC	358'	358'	1	Jet	N/A
	C/O-5N	C/O-4N	6"	PVC	250'	250'	1	Jet	N/A
	C/O-4N	C/O-3N	6"	PVC	200'	200'	1	Jet	N/A
	C/O-3N	C/O-2N	6"	PVC	200'	200'	1	Jet	N/A
	C/O-2N	C/O-1N	6"	PVC	200'	200'	1	Jet	N/A
	C/O-1N	C/O-0	6"	PVC	250'	250'	1	Jet	N/A
	C/O-6S	C/O-5S	6"	PVC	125'	125'	1	Jet	N/A
	C/O-5S	C/O-4S	6"	PVC	250'	250'	1	Jet	N/A
	C/O-3S	C/O-2F	6"	PVC	200'	200'	1	Jet	N/A
	C/O-2F	C/O-1S	6"	PVC	100'	100'	1	Jet	N/A
	C/O-1S	C/O-0	6"	PVC	375'	375'	1	Jet	N/A
	C/O-0	Pump Station	8"	PVC	200'	200'	1	Jet	N/A
Cell 3B	C/O	MH-6	6"	HDPE	1189'	750'	1	Jet	N/A
Cell 3B	C/O	MH-4	6"	HDPE	1337'	700'	1	Jet	N/A
Cell 3B	C/O	MH-2	6"	HDPE	1496'	170'	1	Jet	N/A
	C/O	Riser House 4	4"	HDPE	350'	350'	1	Jet	N/A
	C/O	Cell 4 Sump	4"	HDPE	Flushed	Flushed	1	1000 gal	N/A
Cell 4B	C/O	Cell 4 Sump	6"	HDPE	614'	614'	1	Jet	N/A
Cell 4A	Cell 4 sideriser	Cell 4 Sump	6"	HDPE	155'	155'	1	Jet	N/A
					Total Cleaned-	5447 LF			

Section 6 – Quantity of Solid Waste Disposal

B. Quantity Disposed by Facility's Service Area

CHEMUNG COUNTY CONSTRUCTION AND DEMOLITION LANDFILL
2017 Facility Service Area

Waste Type	County	State	Tonnage	
Mixed Construction & Demolition Debris	Bronx	NY	9193.4	62.85%
Mixed Construction & Demolition Debris	Broome	NY	450.8	3.08%
Mixed Construction & Demolition Debris	Chemung	NY	963.65	6.59%
Mixed Construction & Demolition Debris	Richmond	NY	59.43	0.41%
Mixed Construction & Demolition Debris	Seneca	NY	32.68	0.22%
Mixed Construction & Demolition Debris	Steuben	NY	22.37	0.15%
Mixed Construction & Demolition Debris	Sullivan	NY	89.32	0.61%
Mixed Construction & Demolition Debris	Tioga	NY	1148.79	7.85%
Mixed Construction & Demolition Debris	Tompkins	NY	758.51	5.19%
Mixed Construction & Demolition Debris	Westchester	NY	656.56	4.49%
Mixed Construction & Demolition Debris		PA	1251.9	8.56%
		TOTAL:	14627.41	100.00%

CHEMUNG COUNTY CONSTRUCTION AND DEMOLITION LANDFILL
2017 Facility Service Area

Waste Type	County	State	Tonnage	
Drill Cuttings		PA	5872.49	100.00%
		TOTAL:	5872.49	100.00%

Section 17 – Permit Reporting Requirements

C&D Landfill Settlement Report

C&D LANDFILL CELLS

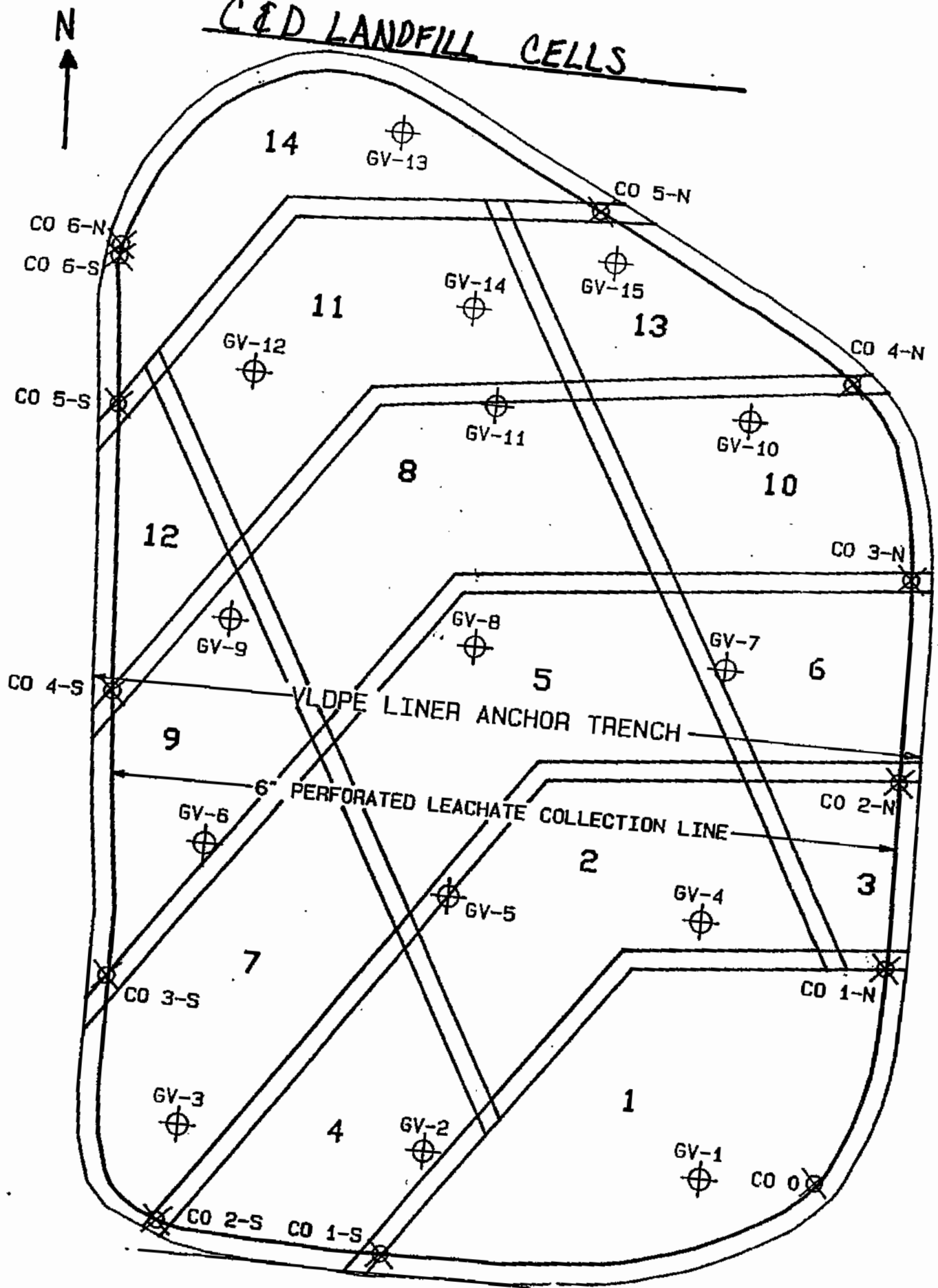


Table 1-1
Chemung County Landfill
C & D Settlement Monitoring

Location	May-93 Settlement (Feet)	May-94 Settlement (Feet)	May-95 Settlement (Feet)	May-96 Settlement (Feet)	Jun-97 Settlement (Feet)	May-98 Settlement (Feet)	May-99 Settlement (Feet)	May-00 Settlement (Feet)	May-01 Settlement (Feet)	May-02 Settlement (Feet)	May-03 Settlement (Feet)	May-04 Settlement (Feet)	May-05 Settlement (Feet)	May-06 Settlement (Feet)
GV- 1	0.79	-0.03	0.44	0.76	0.76	0.64	0.69	0.66	0.57	X	X	2.19	0.29	0.33
GV- 2	0.54	0.67	0.37	1.22	0.89	0.67	0.61	0.54	0.39	0.3	0.25	0.22	0.2	0.15
GV- 3	0.56	0.74	0.41	0.37	0.38	0.24	0.4	0.35	0.93	0.97	X	1.13	0.3	0.22
GV- 4	0.32	0.27	1.32	1.55	1.53	0.82	0.85	0.89	0.68	0.81	0.63	0.46	0.53	0.63
GV- 5	0.4	0.61	0.39	0.5	0.75	1.03	0.66	1.04	0.77	0.72	0.69	0.48	0.46	0.43
GV- 6	0.23	0.34	0.1	0.14	0.13	0.16	0.22	0	0.37	0.22	0.32	0.23	0.22	0.17
GV- 7	0.37	0.46	0.29	0.31	0.47	0.45	0.36	0.64	0.52	0.49	0.76	0.5	0.4	0.71
GV- 8	0.27	0.42	0.26	0.25	0.3	0.35	0.97	0.75	0.58	0.52	0.6	0.55	0.43	1.02
GV- 9	0.16	0.29	0.11	0.13	0.2	0.02	0.09	0.07	0.1	0.07	0.17	0.39	-0.13	0.1
GV- 10	0.13	0.26	0.06	0.08	0.09	0.08	0.07	0.05	0.06	0.05	0.08	0.06	0.07	0.15
GV- 11	0.08	0.18	0.02	0.03	0.04	0.05	0.04	0	0.05	0.03	0.04	0.02	0.06	0.01
GV- 12	0.09	0.18	0.03	0.02	0.04	0.05	0.02	0	0.04	0.02	0.02	0.02	0.05	-0.02
GV- 13	0.07	0.16	0.02	0.01	0.01	0.03	0.03	-0.02	0.04	0.01	0.02	0.01	0.05	-0.02
GV- 14	0.17	0.28	0.08	0.05	0.07	0.09	0.08	0.03	0.05	0.05	0.06	0.05	0.07	0
GV- 15	0.1	0.21	0.08	0.04	0.07	0.05	0.06	0.03	0.04	0.04	0.06	0.04	0.07	0.01
C/O 0	0.42	-0.41	1.34	0.29	0.33	0.25	0.32	0.32	0.34	0.38	0.56	0.37	-0.01	0.81
C/O 1S	0.56	0.69	0.35	0.58	0.47	0.33	0.28	0.25	0.19	0.19	0.51	0.14	0.13	0.13
C/O 2S	0.41	0.54	0.28	0.31	0.24	0.21	0.24	0.24	0.3	0.21	0.33	0.19	0.25	0.2
C/O 3S	0.37	0.48	0.17	0.21	0.21	0.18	0.17	0.2	0.3	0.19	0.19	0.24	0.16	0.11
C/O 4S	0.27	0.34	0.07	0.19	0.15	0.17	0.12	0.11	0.16	0.11	0.09	0.14	0.14	0.13
C/O 5S	0.15	0.24	0.05	0.05	0.08	0.05	0.06	0.01	0.05	0.04	0.03	0.06	0.04	-0.02
C/O 6S	0.1	0.23	0.05	0	0.04	0.04	0.04	0	0.02	0.04	0.01	0.02	0.04	-0.01
C/O 1N	0.37	0.45	0.21	0.27	0.33	0.3	0.34	0.32	0.4	0.58	0.65	0.51	0.4	0.54
C/O 2N	0.32	0.32	0.18	0.17	0.24	0.17	0.22	0.15	0.21	0.26	X	0.71	0.25	0.25
C/O 3N	0.33	0.36	0.21	0.21	0.22	0.18	0.25	0.16	0.19	0.2	0.17	0.2	0.2	0.78
C/O 4N	0.19	0.29	0.11	0.12	0.11	0.13	0.11	0.09	0.1	0.1	0.12	0.11	0.12	0.15
C/O 5N	0.16	0.3	0.08	0.1	0.09	0.09	0.09	0.06	0.07	0.07	0.08	0.06	0.1	0.03
C/O 6N	0.15	0.2	0.03	0.04	0.03	0.04	0.03	0.01	0.02	0.02	0.03	0.03	0.1	0.03

Note: Shaded cells represents settlement data over a period greater than 1-year.

**Table 1-1
Chemung County Landfill
C & D Settlement Monitoring**

Location	Nov-06		May-07		Feb-08		May-08		Jan-09		Jul-09		Dec-09	
	Settlement (Feet)	Pipe Slope (%)	Settlement (Feet)	Pipe Slope (%)	Settlement (Feet)	Pipe Slope (%)	Settlement (Feet)	Pipe Slope (%)	Settlement (Feet)	Pipe Slope (%)	Settlement (Feet)	Pipe Slope (%)	Settlement (Feet)	Pipe Slope (%)
GV- 1	0.21	-	0.32	-	0.08	-	0.23	-	0.37	-	-0.41	-	0.16	-
GV- 2	0.06	-	0.24	-	0.35	-	0.23	-	0.55	-	-0.62	-	0.03	-
GV- 3	0.1	-	0.87	-	0.11	-	0.09	-	0.47	-	-0.37	-	0.04	-
GV- 4	0.19	-	0.62	-	0.20	-	0.08	-	0.42	-	0.28	-	-0.04	-
GV- 5	0.21	-	0.51	-	0.11	-	0.04	-	0.42	-	0.16	-	-0.04	-
GV- 8	0.1	-	0.12	-	0.04	-	0.00	-	0.29	-	-0.17	-	0.07	-
GV- 7	0.31	-	0.18	-	0.17	-	0.12	-	0.40	-	-1.79	-	0.06	-
GV- 8	0.27	-	0.25	-	0.27	-	0.07	-	0.38	-	-0.24	-	-1.14	-
GV- 9	0.06	-	0.01	-	0.01	-	0.01	-	0.27	-	-0.18	-	0.03	-
GV- 10	0.1	-	0.04	-	0.00	-	0.00	-	0.28	-	-0.40	-	0.29	-
GV- 11	0.05	-	-0.02	-	-0.08	-	0.07	-	0.17	-	-0.21	-	-0.03	-
GV- 12	0.05	-	-0.03	-	0.04	-	0.01	-	0.19	-	-0.26	-	0.00	-
GV- 13	0.01	-	0.00	-	-0.08	-	-0.02	-	0.18	-	0.00	-	-0.06	-
GV- 14	0.05	-	0.00	-	-0.14	-	0.04	-	0.23	-	-0.27	-	0.00	-
GV- 15	0.03	-	0.01	-	-0.01	-	-0.02	-	0.25	-	-0.35	-	0.13	-
C/O 0	-0.03	-	0.00	-	0.80	-	0.02	-	0.33	-	-0.18	-	0.04	-
C/O 1S	0.13	1.21%	0.08	NA	0.03	1.471%	0.01	1.47%	0.19	1.512%	-0.06	1.479%	0.82	1.266%
C/O 2S	0.21	2.43%	0.00	2.37%	-0.01	2.393%	0.01	2.39%	-0.14	2.584%	0.21	2.428%	-0.01	2.908%
C/O 3S	0.01	4.26%	0.18	4.22%	0.08	4.174%	0.00	4.18%	0.25	3.995%	-0.13	4.155%	0.06	4.122%
C/O 4S	0.09	3.98%	0.02	3.90%	-0.17	4.013%	0.05	3.99%	0.04	4.084%	-0.06	4.053%	0.02	4.070%
C/O 5S	0.01	3.74%	0.03	3.85%	-0.19	3.855%	0.05	3.86%	0.15	3.809%	-0.19	3.864%	-0.03	3.885%
C/O 6S	0	3.77%	0.04	3.83%	-0.15	3.792%	0.00	3.83%	0.18	3.808%	-0.18	3.800%	-0.07	3.833%
C/O 1N	0	2.00%	0.58	NA	0.02	2.329%	0.15	2.25%	0.32	2.259%	-0.17	2.253%	0.09	2.224%
C/O 2N	0.17	5.39%	0.09	5.48%	0.05	5.462%	0.02	5.53%	0.30	5.538%	-0.19	5.548%	-0.07	5.629%
C/O 3N	0.26	4.10%	-0.06	3.92%	0.07	3.898%	0.00	3.92%	0.35	3.867%	-0.06	3.735%	0.04	3.622%
C/O 4N	0.08	4.24%	0.02	4.31%	0.02	4.339%	-0.07	4.38%	0.38	4.373%	-0.18	4.441%	0.03	4.446%
C/O 5N	0.02	1.80%	0.05	1.88%	-0.01	1.868%	-0.03	1.85%	0.26	1.893%	-0.23	1.913%	-0.07	1.955%
C/O 6N	0.01	2.07%	0.01	2.06%	-0.25	2.112%	0.07	2.09%	0.18	2.108%	-0.18	2.086%	-0.05	2.094%

**Table 1-1
Chemung County Landfill
C & D Settlement Monitoring**

Location	May-10		Nov-10		Jun-11		Nov-11		May-12		Nov-12		Jun-13	
	Settlement (Feet)	Pipe Slope (%)	Settlement (Feet)	Pipe Slope (%)	Settlement (Feet)	Pipe Slope (%)	Settlement (Feet)	Pipe Slope (%)	Settlement (Feet)	Pipe Slope (%)	Settlement (Feet)	Pipe Slope (%)	Settlement (Feet)	Pipe Slope (%)
GV- 1	0.31	-	0.13	-	0.01	-	0.01	-	0.20	-	0.08	-	0.02	=====
GV- 2	0.08	-	0.06	-	0.04	-	-0.01	-	0.08	-	0.07	-	0.06	=====
GV- 3	0.01	-	0.07	-	0.01	-	-0.01	-	0.08	-	0.01	-	0.01	=====
GV- 4	0.06	-	0.61	-	-0.39	-	0.01	-	0.00	-	0.64	-	0.22	=====
GV- 5	0.03	-	0.37	-	-0.14	-	0.01	-	-0.05	-	0.26	-	-0.03	=====
GV- 6	0.00	-	0.00	-	0.00	-	0.00	-	0.10	-	0.01	-	0.02	=====
GV- 7	0.80	-	0.51	-	0.03	-	-0.01	-	0.00	-	0.39	-	0.12	=====
GV- 8	0.00	-	1.81	-	0.22	-	-0.01	-	-	-	0	-	-0.01	=====
GV- 9	-0.05	-	0.01	-	0.00	-	0.01	-	0.22	-	-0.04	-	-0.01	=====
GV- 10	-0.11	-	0.00	-	0.00	-	0.01	-	0.07	-	-0.01	-	0.01	=====
GV- 11	-0.04	-	-0.02	-	0.00	-	-0.01	-	-0.06	-	-0.02	-	-0.03	=====
GV- 12	-0.06	-	-0.04	-	0.00	-	-0.01	-	-0.09	-	-0.01	-	-0.03	=====
GV- 13	-0.09	-	-0.02	-	0.00	-	-0.03	-	-0.10	-	-0.01	-	-0.01	=====
GV- 14	-0.06	-	-0.03	-	0.00	-	0.00	-	-0.09	-	0	-	-0.01	=====
GV- 15	-0.11	-	-0.01	-	0.00	-	0.00	-	-0.10	-	0.01	-	-0.02	=====
C/O 0	-0.01	-	0.07	-	0.00	-	0.01	-	0.08	-	0.05	-	-0.02	=====
C/O 1S	0.00	1.283%	0.01	1.279%	0.00	1.279%	0.01	1.279%	-0.02	1.307%	0.01	1.318%	-0.02	1.318%
C/O 2S	0.02	2.896%	0.02	2.890%	0.01	2.884%	0.03	2.873%	-0.01	2.867%	0.03	2.855%	-0.02	2.855%
C/O 3S	0.01	4.127%	0.03	4.122%	0.02	4.117%	0.01	4.127%	0.05	4.099%	-0.01	4.117%	0.02	4.099%
C/O 4S	0.02	4.066%	0.07	4.048%	0.00	4.057%	0.01	4.057%	-0.03	4.093%	0.03	4.075%	0.12	4.031%
C/O 5S	0.01	3.889%	0.00	3.919%	0.00	3.919%	-0.01	3.928%	0.00	3.915%	-0.07	3.957%	-0.01	4.013%
C/O 6S	0.00	3.842%	0.00	3.842%	0.00	3.842%	0.01	3.825%	-0.15	3.950%	-0.02	3.908%	-0.01	3.908%
C/O 1N	0.00	2.218%	0.06	2.224%	0.00	2.224%	0.01	2.224%	0.04	2.247%	0	1.294%	0	1.282%
C/O 2N	0.07	5.594%	0.07	5.589%	0.02	5.579%	-0.01	5.589%	0.11	5.553%	-0.05	6.426%	0.01	6.421%
C/O 3N	0.03	3.663%	0.09	3.643%	0.00	3.663%	-0.01	3.663%	0.24	3.531%	0.1	3.378%	0.04	3.347%
C/O 4N	0.00	4.463%	0.82	4.051%	0.00	4.051%	0.02	4.034%	-0.20	4.282%	0.06	4.305%	0.02	3.356%
C/O 5N	0.01	1.950%	-0.02	2.298%	0.00	2.298%	0.01	2.302%	-0.07	2.248%	0.01	2.259%	0.01	2.975%
C/O 6N	0.00	2.096%	0.00	2.092%	0.00	2.092%	-0.01	2.096%	-0.13	2.108%	0	2.110%	0.02	2.116%

**Table 1-1
Chemung County Landfill
C & D Settlement Monitoring**

Location	Nov-13		Jun-14		Nov-14		Jun-15		Nov-15		May-16		Nov-16	
	Settlement (Feet)	Pipe Slope (%)	Settlement (Feet)	Pipe Slope (%)	Settlement (Feet)	Pipe Slope (%)	Settlement (Feet)	Pipe Slope (%)	Settlement (Feet)	Pipe Slope (%)	Settlement (Feet)	Pipe Slope (%)	Settlement (Feet)	Pipe Slope (%)
GV- 1	0.04	=====	0.01	=====	0.09	=====	0.02	=====	0.05	=====	-0.05	=====	0.03	=====
GV- 2	0.02	=====	0.02	=====	0.12	=====	0.03	=====	0.07	=====	-0.07	=====	0.01	=====
GV- 3	-0.02	=====	0.04	=====	0.05	=====	0	=====	0.03	=====	-0.01	=====	0.02	=====
GV- 4	0.27	=====	0.04	=====	0.23	=====	0.01	=====	0.16	=====	-0.16	=====	1.03	=====
GV- 5	0.31	=====	0.04	=====	-1.19	=====	0.01	=====	0.23	=====	0	=====	0.03	=====
GV- 6	0.02	=====	0.02	=====	—	=====	—	=====	0.12	=====	-0.13	=====	0.03	=====
GV- 7	0.23	=====	0.02	=====	0.26	=====	0.01	=====	0.32	=====	-0.32	=====	0.02	=====
GV- 8	0.06	=====	0.02	=====	0.2	=====	0.02	=====	—	=====	0	=====	0.04	=====
GV- 9	0.03	=====	0	=====	0.12	=====	0.01	=====	0.06	=====	-0.12	=====	0.02	=====
GV- 10	0.03	=====	-0.02	=====	0.09	=====	-0.01	=====	0.49	=====	0.91	=====	0.08	=====
GV- 11	-0.01	=====	0.02	=====	0.06	=====	0.02	=====	0.82	=====	-0.82	=====	0.07	=====
GV- 12	0.04	=====	0.02	=====	-0.1	=====	0.02	=====	0.03	=====	-0.03	=====	-0.02	=====
GV- 13	-0.03	=====	0.02	=====	-0.1	=====	0	=====	-0.04	=====	0.04	=====	-0.02	=====
GV- 14	0.03	=====	0.01	=====	-0.05	=====	0.02	=====	0.22	=====	-0.22	=====	0.01	=====
GV- 15	-0.02	=====	0.02	=====	0.01	=====	0.02	=====	-0.04	=====	0.04	=====	0.50	=====
C/O 0	-0.05	=====	0.02	=====	0.07	=====	0.02	=====	0.04	=====	-0.08	=====	0.02	=====
C/O 1S	-0.03	1.318%	0.05	1.304%	-0.06	1.340%	0.01	1.340%	-0.02	1.356%	0.02	1.332%	0.03	1.320%
C/O 2S	-0.03	2.855%	0.02	2.873%	0.03	2.821%	0.01	2.821%	0.02	2.785%	-0.02	2.821%	0.03	2.821%
C/O 3S	-0.03	4.099%	0.02	4.099%	1.5	3.408%	0.01	3.408%	-0.01	4.127%	0.05	4.084%	-0.01	4.113%
C/O 4S	-0.03	4.031%	0.02	4.031%	-0.02	4.700%	0.02	4.700%	-0.03	4.044%	0.04	4.045%	-0.01	4.048%
C/O 5S	0.02	4.013%	0.02	3.991%	-0.25	4.089%	0.01	4.089%	-0.08	4.115%	0.08	4.088%	-0.02	4.102%
C/O 6S	-0.02	3.908%	0.01	3.950%	-0.12	3.942%	0	3.842%	-0.04	3.817%	0.04	3.850%	0.02	3.817%
C/O 1N	0.02	1.282%	-0.01	1.259%	0.05	1.271%	0.01	1.271%	0.04	1.278%	-0.04	1.253%	0.02	1.253%
C/O 2N	0.04	6.421%	0.02	6.396%	-0.13	6.487%	0.01	6.487%	0.16	6.426%	-0.16	6.487%	0.02	6.487%
C/O 3N	0.03	3.347%	0	3.378%	0.16	3.082%	0.02	3.082%	0.12	3.112%	-0.12	3.071%	-0.01	3.102%
C/O 4N	1.35	3.356%	0	3.571%	-8.78	8.821%	4.22	8.821%	0.04	3.718%	-0.04	3.695%	-0.03	3.708%
C/O 5N	-0.02	2.975%	0	2.838%	-0.07	-0.780%	0.01	-0.780%	0.02	2.888%	0.02	2.847%	0.01	2.831%
C/O 6N	-0.03	2.116%	0.01	2.116%	-0.09	2.120%	0.01	2.120%	-0.07	2.130%	0.07	2.120%	-0.01	2.124%

Measurements were not utilized for calculating total settlement

Table 1-1
Chemung County Landfill
C & D Settlement Monitoring

Location	May-17		Nov-17		Total Settlement (Feet)
	Settlement (Feet)	Pipe Slope (%)	Settlement (Feet)	Pipe Slope (%)	
GV- 1	-0.01	*****	0.23	*****	10.22
GV- 2	0.01	*****	0.27	*****	8.72
GV- 3	0.00	*****	0.23	*****	8.83
GV- 4	-0.60	*****	0.32	*****	15.49
GV- 5	0.01	*****	0.44	*****	10.67
GV- 6	0.01	*****	0.62	*****	4.12
GV- 7	0.63	*****	0.10	*****	9.28
GV- 8	0.64	*****	0.08	*****	10.20
GV- 9	0.01	*****	0.31	*****	2.56
GV- 10	0.32	*****	0.01	*****	3.47
GV- 11	0.34	*****	0.01	*****	0.93
GV- 12	0.02	*****	0.40	*****	0.70
GV- 13	-0.04	*****	-0.03	*****	-0.01
GV- 14	0.54	*****	0.42	*****	1.79
GV- 15	-0.01	*****	0.04	*****	1.25
C/O 0	0.21	*****	0.05	*****	6.77
C/O 1S	-0.02	1.392%	-0.04	1.416%	5.91
C/O 2S	0.02	2.796%	0.10	2.717%	4.48
C/O 3S	0.01	4.117%	0.07	4.131%	5.37
C/O 4S	-0.01	4.057%	0.18	4.009%	2.56
C/O 5S	0.00	4.098%	-0.05	4.196%	0.37
C/O 6S	-0.01	3.825%	-0.14	3.800%	0.01
C/O 1N	0.01	1.371%	-2.29	2.747%	6.87
C/O 2N	0.01	6.487%	1.77	4.426%	4.01
C/O 3N	0.00	3.112%	0.46	4.449%	5.41
C/O 4N	0.00	3.706%	0.00	5.746%	-0.41
C/O 5N	0.04	2.814%	-0.03	1.825%	1.26
C/O 6N	-0.05	2.142%	-0.12	2.160%	0.11

***** -Measurements were not utilized for calculating total settlement.