MSW, INDUSTRIAL OR ASH LANDFILL ANNUAL/QUARTERLY REPORT

Submit the Annual Report no later than March 1, 2019.

A. **This annual/quarterly report is for the year of operation from January 01, 2018 to December 31, 2018**

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

SECTION 1 – FACILITY INFORMATION

FACILITY INFORMATION

FACILITY NAME: Delaware County Solid Waste Management Center - C&D Landfill

FACILITY LOCATION ADDRESS:	FACILITY CITY:	STATE:	ZIP CODE:
32230 State Hwy 10	Walton	NY	13856

FACILITY TOWN:	FACILITY COUNTY:	FACILITY PHONE NUMBER:
Walton	Delaware	607-865-5805

FACILITY NYS PLANNING UNIT: **(A list of NYS Planning Units can be found at the end of this report).** Delaware County

NYSDEC REGION #: 4

360 PERMIT #:	DATE ISSUED:	DATE EXPIRES:	NYS DEC ACTIVITY CODE OR REGISTRATION NUMBER:
4-1256-00040/00004	10 June 2014	1 June 2019	13-D-01

FACILITY CONTACT:	☒ public ☐ private	CONTACT PHONE NUMBER:	CONTACT FAX NUMBER:
Tyson Robb		607-832-5800	607-746-7212

CONTACT EMAIL ADDRESS: tyson.robb@co.delaware.ny.us

OWNER INFORMATION

OWNER NAME:	OWNER PHONE NUMBER:	OWNER FAX NUMBER:
Delaware County	607-832-5800	607-746-7212

OWNER ADDRESS:	OWNER CITY:	STATE:	ZIP CODE:
PO Box 311	Delhi	NY	13753

OWNER CONTACT:	OWNER CONTACT EMAIL ADDRESS:
Tyson Robb	tyson.robb@co.delaware.ny.us

OPERATOR INFORMATION

OPERATOR NAME: ☐ *same as owner* Andrew Tompkins — ☒ public ☐ private

PREFERENCES

Preferred address to receive correspondence:	☐ *Facility location address*	☒ *Owner address*
☐ *Other (provide):*		
Preferred email address:	☐ *Facility Contact*	☒ *Owner Contact*
☐ *Other (provide):*		
Preferred individual to receive correspondence:	☐ *Facility Contact*	☒ *Owner Contact*
☐ *Other (provide):*		

Did you operate in 2018? ☒ 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?

   23255.4 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?

   1.05 Tons/Cubic Yard

2. Remaining Constructed Capacity

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

   87253.6 Cubic Yards of Airspace

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

   2 Years 2.2 Months

   at 40548.12 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):

   x 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 3.a?

   0 Years 0 Months

   at 0 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): not applicable

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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?

1,000,000 Cubic Yards of Airspace

SECTION 3 - PRIMARY LEACHATE

Name of off-site leachate treatment facility s utilized: Three

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.

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	PRIMARY LEACHATE COLLECTED (GALLONS)						PRIMARY LEACHATE TREATED OFF SITE (GALLONS)					
	Cell 1 6.5 Acres	Cell 2 4.6 Acres	Cell 3 7.1 Acres	Cell 4 7.9 Acres	Cell 5 9.7 Acres	Cell 6 3.5 Acres	Cell 1 6.5 Acres	Cell 2 4.6 Acres	Cell 3 7.1 Acres	Cell 4 7.9 Acres	Cell 5 9.7 Acres	Cell 6 3.5 Acres
January	na	0	24,237	44,346	144,597	67,530	na	0	24,237	44,346	144,597	67,530
February	na	0	18,553	61,888	139,229	64,094	na	0	18,553	61,888	139,229	64,094
March	na	0	18,220	61,620	173,085	68,073	na	0	18,220	61,620	173,085	68,073
April	na	0	18,950	42,630	182,073	62,872	na	0	18,950	42,630	182,073	62,872
May	na	0	17,929	22,542	160,548	76,804	na	0	17,929	22,542	160,548	76,804
June	na	0	17,887	12,432	136,532	64,654	na	0	17,887	12,432	136,532	64,654
July	na	0	21,553	35,150	269,987	123,476	na	0	21,553	35,150	569,987	123,476
August	na	0	19,402	108,712	96,233	121,832	na	0	19,402	108,712	96,233	131,832
September	na	0	25,477	39,618	17,319	102,376	na	0	25,477	39,618	17,319	102,376
October	na	0	24,763	68,962	15,123	117,839	na	0	24,763	68,962	15,123	117,839
November	na	0	23,705	50,466	11,366	129,746	na	0	23,705	50,466	11,366	129,746
December	na	0	25,196	26,688	5,492	114,445	na	0	25,196	26,688	5,492	114,445
ANNUAL	na	0	255,873	575,024	1,351,586	1,113,742	na	0	255,873	575,024	1,351,586	1,113,742

	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												
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:

see attached copies of annual work reports for leachate line clearing and inspection

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 attached leachate and groundwater monitoring EMSAP reports

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 attached leachate and groundwater monitoring EMSAP reports

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

Leachate Cost: (including transportation if appropriate) during the calendar year for leachate treatment: $ $181,796.89

Total quantity treated: 5,420,411 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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	SECONDARY LEACHATE COLLECTED (GALLONS)						SECONDARY LEACHATE TREATED OFF SITE (GALLONS)					
	Cell 1 6.5 Acres	Cell 2 4.6 Acres	Cell 3 7.1 Acres	Cell 4 7.9 Acres	Cell 5 9.7 Acres	Cell 6 3.5 Acres	Cell 1 6.5 Acres	Cell 2 4.6 Acres	Cell 3 7.1 Acres	Cell 4 7.9 Acres	Cell 5 9.7 Acres	Cell 6 3.5 Acres
January	na	na	1,155	0	304	270	na	na	1,155	0	304	270
February	na	na	912	454	210	292	na	na	912	454	210	292
March	na	na	799	0	206	140	na	na	799	0	206	140
April	na	na	1,977	0	198	253	na	na	1,977	0	198	253
May	na	na	2,231	0	155	28	na	na	2,231	0	155	28
June	na	na	857	0	241	48	na	na	857	0	241	48
July	na	na	1,594	116	1,621	239	na	na	1,594	116	1,621	239
August	na	na	2,234	0	912	52	na	na	2,234	0	912	52
September	na	na	1,897	0	513	848	na	na	1,897	0	513	848
October	na	na	4,318	712	733	709	na	na	4,318	712	733	709
November	na	na	4,737	0	1,309	252	na	na	4,737	0	1,309	252
December	na	na	1,610	0	20	161	na	na	1,610	0	20	161
ANNUAL	na	na	24,321	828	5,108	2,261	na	na	24,321	828	5,108	2,261

	SECONDARY LEACHATE RECIRCULATED (GALLONS)						SECONDARY 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												
July												
August												
September												
October												
November												
December												
ANNUAL												

SECTION 5 – BENEFICIAL USE DETERMINATION MATERIALS AND ALTERNATIVE OPERATING COVER MATERIALS

For each type of waste material that the Department has approved for use as alternative operating cover (AOC), intermediate cover, or other landfill material, provide the annual weight in tons, use (i.e., operating 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						
Contaminated Soil	503.12	AOC	Delaware County	Delaware Cour	NY	Delaware County Solid Waste Management Center, Walton NY
Foundry Sand						
Glass	433.85	AOC	Delaware County	Delaware Cour	NY	Delaware County Solid Waste Management Center, Walton NY
Industrial Waste (specify)						
MSW Ash						
Wood Ash	112.62	AOC	Delaware County	Delaware Cour	NY	Delaware County Solid Waste Management Center, Walton NY
Paper Mill Sludge						
Processed C&D						
Waste Tire-Derived Aggregate /						
Waste Tires						
Other (specify)						
Net in house soil/C&D blend	6,118.39	AOC	Delaware County	Delaware Cour	NY	Delaware County Solid Waste Management Center, Walton NY
Total AOC						
Total Beneficial Use Determination Materials						

Percent Alternative Operating Cover (AOC) Calculation

AOC Calculations: Total Tons AOC/Total Tons Waste Disposed x 100 = 34%

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

100 % 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	0	0	0	5.513	5.513	5.513	0.153
Ash (Coal)	0	0	0	0	0	0	0
Ash (MSW Energy Recovery)	17.82	17.82	17.82	0	0	0	0
Construction & Demolition Debris (mixed)	0	0	0	0	0	0	0
Industrial Waste (Including Industrial Process Sludges)	0	0	0	0	0	0	0
Mixed Municipal Solid Waste (Residential, Institutional & Commercial)	72.9	72.9	72.9	127.7	127.7	127.7	152.55
Oil/Gas Drilling Waste	0	0	0	0	0	0	0
Petroleum Contaminated Soil	8.32	8.32	8.32	36.9	36.9	36.9	5.38
Sewage Treatment Plant Sludge	164.82	164.82	164.82	202.32	202.32	202.32	138.14
Treated Regulated Medical Waste	0	0	0	0	0	0	0
Emergency Authorization Waste (Storm Debris)	0	0	0	0	0	0	0
Other (specify) Whey	181.91	181.91	181.91	188.76	188.76	188.16	147.48
compost & MRF residuals	881.99	881.99	881.9	1019.41	1019.41	1019.41	1147.06
Total Tons Disposed	1327.76	1327.76	1327.76	1580.60	1580.60	1580.60	1590.76

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	200	0.153	0.153	0	0	0	17.00	0.06
Ash (Coal)	na	0	0	0	0	0	0	0
Ash (MSW Energy Recovery)	22	0	0	19.72	19.72	19.72	112.62	0.43
Construction & Demolition Debris (mixed)	na	0	0	0	0	0	0	0
Industrial Waste (Including Industrial Process Sludges)	na	0	0	0	0	0	0	0
Mixed Municipal Solid Waste (Residential, Institutional & Commercial)	0	152.55	152.55	460.44	460.44	460.44	2440.97	11.16
Oil/Gas Drilling Waste	na	0	0	0	0	0	0	0
Petroleum Contaminated Soil	30	5.38	5.38	117.12	117.12	117.12	503.12	1.91
Sewage Treatment Plant Sludge	varies	138.14	138.14	323.97	323.97	323.97	2487.75	9.42
Treated Regulated Medical Waste	na	0	0	0	0	0	0	0
Emergency Authorization Waste (Storm Debris)	na	0	0	0	0	0	0	0
Other Whey (cheese)	0	147.48	147.48	64.85	64.85	64.85	1749.03	6.63
compost & MRF residuals	0	1147.06	1147.06	790.90	790.90	790.90	11518.10	43.63
Total Tons Disposed		1,590.75	1,590.75	1,777.0	1,777.0	1,777.0	18,828.59	73.24

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SECTION 7 – SERVICE AREA OF SOLID WASTE RECEIVED

Please identify where the waste is coming from. The total tons received reported below should equal the total tons received in Section 6 Solid Waste Disposed). DO NOT REPORT IN CUBIC YARDS!

- If the waste ***WAS*** received from another solid waste management facility, please write in the name *and* address of the facility along with the appropriate state, county and planning unit/municipality.
- If the waste ***WAS NOT*** received from another solid waste management facility, please write in "***Direct Haul***" along with the appropriate state, county and planning unit/municipality where the waste was generated.

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 All

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	Direct Haul	NY	Delaware County	Delaware County	17.00
Ash (Coal)					
Ash (MSW Energy Recovery)	Direct Haul	NY	Delaware County	Delaware County	112.62
Construction & Demolition Debris (mixed)					

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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)					
Mixed Municipal Solid Waste (Residential, Institutional & Commercial)	Direct Haul	NY	Delaware County	Delaware County	2440.97
Oil/Gas Drilling Waste					
Petroleum Contaminated Soil	Direct Haul	NY	Delaware County	Delaware County	503.12
Sewage Treatment Plant Sludge	Direct Haul	NY	Delaware County	Delaware County	2487.75
Treated Regulated Medical Waste (TRMW)*					
Emergency Authorization Waste (Storm Debris)					
Other (specify)	Direct Haul - Whey	NY	Delaware County	Delaware County	1749.03
Compost & MRF Residuals	Direct Haul	NY	Delaware County	Delaware County	11518.10
				TOTAL RECEIVED (tons):	18,828.59

List generators that provide you Certificates of Treatment forms and quantities of TRMW from each na

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

Please identify where the recyclable materials are coming from. DO NOT REPORT IN CUBIC YARDS!

- If the materials ***WERE*** received from another solid waste management facility, please write in the name and address of the facility along with the appropriate state, county and planning unit/municipality.
- If the materials ***WERE NOT*** received from another solid waste management facility, please write in "***Direct Haul***" along with the appropriate state, county and planning unit/municipality where the recyclables were generated.

Specify transport method, list type of material s and percentages of total waste transported by each:

100 % Road: Waste Type(s : All _____ % Rail: Waste Type(s :_____

_____% Water: Waste Type(s :_____ _____% Other (specify: _____): Waste Type(s :_____

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	Delaware County	Delaware County	1901.80
Commingled Paper (all grades)	Direct Haul	NY	Delaware County	Delaware County	1321.84
Single Stream (total)					
Brush, Branches, Trees, & Stumps	Direct Haul	NY	Delaware County	Delaware County	69.38
Food Scraps					
Yard Waste (curbside)					
Other (specify) MSW to compost	Direct Haul	NY	Delaware County	Delaware County	19,509.74
WWTP to compost	Direct Haul	NY	Delaware County	Delaware County	3,565.15
				TOTAL RECEIVED (tons):	26367.91

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:

100 % 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)	Delaware County Solid Waste Management Center - Recycling Center	NY	Delaware County	Delaware County	1321.84
Corrugated Cardboard	Delaware County Solid Waste Management Center - Recycling Center	NY	Delaware County	Delaware County	600.71
Junk Mail					
Magazines					
Newspaper					
Office Paper					
Paperboard / Boxboard					
Other Paper (specify)					
				TOTAL PAPER RECOVERED (tons):	1922.55

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	Delaware County Solid Waste Management Center - Recycling Center	NY	Delaware County	Delaware County	433.85
Industrial Scrap Glass					
Other Glass (specify)					
				TOTAL GLASS RECOVERED (tons):	433.85

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)	Delaware County Solid Waste Management Center - Recycling Center	NY	Delaware County	Delaware County	953.06
Bulk Metal (from CD debris)					
Enameled Appliances / White Goods	Delaware County Solid Waste Management Center - Recycling Center	NY	Delaware County	Delaware County	13.7
Industrial Scrap Metal					
Tin & Aluminum Containers	Delaware County Solid Waste Management Center - Recycling Center	NY	Delaware County	Delaware County	98.99
Other Metal (specify)					
				TOTAL METAL RECOVERED (tons):	1065.8

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)	Delaware County Solid Waste Management Center - Recycling Center	NY	Delaware County	Delaware County	197.48
PET (plastic #1)	Delaware County Solid Waste Management Center - Recycling Center	NY	Delaware County	Delaware County	74.57
HDPE (plastic #2)	Delaware County Solid Waste Management Center - Recycling Center	NY	Delaware County	Delaware County	91.39
Other Rigid Plastics (#3 - #7)	Delaware County Solid Waste Management Center - Recycling Center	NY	Delaware County	Delaware County	21.26
Industrial Scrap Plastic					
Plastic Film & Bags	Delaware County Solid Waste Management Center - Recycling Center	NY	Delaware County	Delaware County	17.43
Other Plastics (specify)					
				TOTAL PLASTIC RECOVERED (tons):	402.13

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)					
Other (specify)					
TOTAL MIXED MATERIAL RECOVERED (tons): _____					

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	Delaware County Solid Waste Management Center - Recycling Center	NY	Delaware County	Delaware County	167.73
Textiles	Delaware County Solid Waste Management Center - Recycling Center	NY	Delaware County	Delaware County	6.85
Brush, Branches, Trees, & Stumps	Delaware County Solid Waste Management Center - Compost Facility	NY	Delaware County	Delaware County	69.38
Food Scraps					
Yard Waste (curbside)					
Other (specify)					
MSW to compost	Delaware County Solid Waste Management Center - Compost Facility	NY	Delaware County	Delaware County	19,509.74
WWTP biosolids to compost	Delaware County Solid Waste Management Center - Compost Facility	NY	Delaware County	Delaware County	3,565.15
				TOTAL MISCELLANEOUS MATERIAL RECOVERED (tons):	

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

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 _____ and Model _____ 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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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
2007 to 2018	14,557.30	108.74	112.62	0	1.88	0	21,048.16	200,648	236,364	Cell 6
2000 to 2007	175426	4	21661	0	19	17156	33757	0	248023	Cell 5
1993 to 2000									180000	Cell 4/4e
1987 to 1993									189000	Cell 3
1983 to 1987									94500	Cell 2
1977 to 1983									133000	Cell 1
WIP Cumulative Total										

Overall in place volume 255,746 cubic yards

Method for determining waste composition, if known. on site truck scale records and survey data

Explain if closed landfills are included above Cells 1, 2, 3, 4/4e are permanently closed, Cell 5 in interim closure, only Cell 6 is active at present

Waste Summary by Landfill Section

Provide waste in place information for all landfill sections.

Number of landfill sections: 6

Original* section used (years from 1977 to 1983

Section Footprint 6.5 acres

Capped with approved final cover system Yes ■ No ____

Percent capped 100

Waste in Place: 133000 Tons 380000 Cubic Yards, if known

Next* section used (years from 1983 to 1987

Section Footprint 4.6 acres

Capped with approved final cover system Yes ■ No ____

Percent capped 100

Waste in Place: 94500 Tons 270000 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: 12

Total landfill footprint acreage 42.9

Total landfill acreage from which gas is collected 24.7

Landfill sections from which gas is collected 3, 4/4e, 5

Landfill acreage from which gas is collected for energy recovery 0

Measured Methane Generation Rate*, k 0.04

Measured Potential Methane Generation Capacity , L_o 43 m^3/Mg

NMOC Concentration* 600 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: DCEC Waste to Energy (decommissioned)

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 1 Enclosed Flare _____

Please report units in cubic feet

Quantity of Gas Collected and Flared Annually 676200 cubic feet
Flare Hours of Operation per Year 112.7 hours/year
Methane Percentage in Landfill Gas before flaring 50 %
Methane Destruction efficiency _____ %

Candlestick Flares:

Number of Candlestick Flares _____
Estimate of Gas Flared Candlestick Flare _____ cubic feet

Gas To Energy

Please report units in cubic feet

Number of Internal Combustion Engines: _____

Quantity of Gas collected for Internal Combustion Engine Annually _____ cubic feet
Methane Destruction efficiency _____ %
Methane Percentage in Landfill Gas before combustion _____ %
Utility Company Receiving Electricity _____

Gas Processed for Use (Other than gas to electricity)

Quantity of Gas Collected for Processing _____ 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 Tyson Robb Phone # (607)832-5800

Contact e-mail address tyson.robb@co.delaware.ny.us Fax # (607)746-7212

Operation and maintenance cost for calendar year: $0.05/kwh

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:

Landfill gas recovery facility was decommissioned in 2012 due to insufficient methane volumes

Year landfill opened: 1977 Anticipated landfill closure date: 2060

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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:

see attached leachate and groundwater monitoring EMSAP reports

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						
February						
March						
April						
May						
June						
July						
August						
September						
October						
November						
December						
ANNUAL TOTAL						

Provide where applicable.

Normal Weekdays of Operation _____ Normal Hours of Operation_____

Electricity Generated and used/marketed offsite _____KWH
Electricity Generated and used onsite _____ KWH
Gas Processed and used/marketed offsite _____ cubic feet
Gas Processed and used onsite _____ cubic feet

Describe the collection, storage, treatment and disposal techniques used in managing the condensate:

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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?

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.

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 attached leachate and groundwater monitoring EMSAP reports

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 attached leachate and groundwater monitoring EMSAP reports

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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 attached leachate and groundwater monitoring EMSAP reports

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 attached leachate and groundwater monitoring EMSAP reports

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 attached leachate and groundwater monitoring EMSAP reports

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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SECTION 22 - SIGNATURE AND DATE BY OWNER OR OPERATOR

Owner or Operator must sign, date and submit one completed form to the appropriate Regional Office (See attachment for Regional Office addresses, email addresses and Materials Management 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 Solid Waste Management
625 Broadway
Albany, New York 12233-7260
Fax 518-402-9041
Email address: SWMFannualreport@dec.ny.gov

I certify, under penalty of law, that the data and other information identified in this report have been prepared under my direction and supervision in compliance with a system designed to ensure that qualified personnel properly and accurately gather and evaluate this information. I am aware that any false statement I make in such report is punishable pursuant to section 71-2703(2) of the Environmental Conservation Law and section 210.45 of the Penal Law.

Tyson Robb
Signature

2/25/18
Date

Tyson Robb
Name (Print or Type

Solid Waste Coordinator
Title (Print or Type

tyson.robb@co.delaware.ny.us
Email (Print or Type

PO Box 311
Address

Delhi
City

NY 13753
State and Zip

(607) 832-5800
Phone Number

ATTACHMENTS: ▪ YES ____ NO
Please check appropriate line)

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DELAWARE COUNTY SOLID WASTE MANAGEMENT CENTER & COMPOST FACILITY

NEW YORK STATE ROUTE 10
TOWN OF WALTON DELAWARE COUNTY

1st, 2nd, 3RD, & 4TH QUARTERLY REPORT 2018
FINAL REPORT

FOR DELAWARE COUNTY
SOLID WASTE MANAGEMENT CENTER
INCLUDING:

C&D FACILITY
COMPOST FACILITY
LFG EXTRACTION
MSW LANDFILL
RECYCLING (MRF) CENTER
SITE ANALYTICAL & ENVIRONMENTAL MONITORING

TOWN TRANSFER STATIONS

FOR THE PERIOD FROM

1 January – 31 March 2018
1 April – 30 June 2018
1 July – 30 September 2018
1 October – 31 December 2018

Prepared By:

DELAWARE COUNTY DEPARTMENT OF PUBLIC WORKS
SOLID WASTE DIVISION
Page Avenue, PO Box 311
Delhi, NY 13753

Susan McIntyre, QEP, Commissioner
Tyson Robb, Solid Waste Coordinator

FEBRUARY 2019

DELAWARE COUNTY
DEPARTMENT OF PUBLIC WORKS
PO BOX 311 DELHI, NY 13753

Susan McIntyre, QEP
COMMISSIONER OF PUBLIC WORKS
SUPERINTENDENT OF HIGHWAYS

Main office and Yard
Page Avenue, Delhi
Tel: 607-832-5800
FAX: 607-746-7212

Dt: February 2019

To: Dawn Mirabile, DEC Central Office
Vicky Schmitt, NYSDEC, DSW Region 4
Martha Bellinger, NYSDEC, DEP, Region 4
Brenda Drake, NYCDEP
Sally Rowland, NYSDEC

Fr: Tyson Robb
Delaware County Solid Waste Coordinator

Re: Quarterly Report / Annual Report
Landfill Facility No. 13/-S-18
DEC ID# 4-1256-00008/00007-1

C&D Facility No. 13-D-01
DEC ID# 4-1256-0040/00004-0

Compost Facility No. 13-C-01
DEC ID# 4-1256-00008/00011

Delaware County Solid Waste Management Center
Delaware County Compost Facility

1 January 2018 to 31 December 2018

Attached, please find a copy of the Quarterly Reports and Environmental Monitoring Report for the above identified facility for the period.

Please note that the quarterly groundwater analytical results provided by Microbac Laboratories New York are incorporated into the Environmental Monitoring Section. Submission of the standalone groundwater monitoring data is submitted with the file attachments.

Dawn Mirabile NYSDEC
Division of Materials Management
Bureau of Permitting & Planning
625 Broadway - 9th Floor
Albany, NY 12233-7253

Vickie Schmitt & John Weidman
NYSDEC Region 4
Regional Solid Waste Engineer
1150 North Westcott Road
Schenectady, NY 12306-2014

Martha Bellinger
NYSDEC Region 4
Stamford Office
Division of Environmental Permits
65561 State Hwy 10, Suite 1
Stamford, NY 12167-9503

Brenda K. Drake, P.E.
NYCDEP - Bureau of Water Supply
71 Smith Avenue
Kingston, NY 12401

Sally Rowland
NYSDEC
Bureau of Waste Reduction and Recycling - Annual Report
625 Broadway - 9th Floor
Albany, NY 12233-7253

TABLE OF CONTENTS

ACTIVE LANDFILL

Division of Solid Waste
New York State Department of Environmental Conversation

ACTIVE (SANITARY, INDUSTRIAL, OR ASH) LANDFILL
(Subject to 6 NYCRR Part 360, Solid Waste Management Facilities,
6 NYCRR Part 360-2, Solid Waste Landfills - Effective Date: November 26, 1996
6 NYCRR Part 360-1, General Provisions - Effective Date: May 12, 2006)

QUARTERLY REPORT

A. Annual Report for the year of operation from 1 January to 31 December 2018.

B. Quarterly Report for: X Quarter 1 X Quarter 2 X Quarter 3 X Quarter 4

Section 1
Owner/Facility Information

DEC Region 4, Town of Walton

Facility Name	Solid Waste Management Center	Compost Facility
DEC Facility Code #	13-S-18	13-C-01
DEC Permit #	4-1256-00008/00007-1	4-1256-00008/00011
DEC Permit Expiration	4 June 2019	24 April 2022
Facility Phone #	607.865.5805 x 216	607.865.4046 x 201
Facility Address	32230 State Hwy 10, Walton, NY 13856	32230 State Hwy 10, Walton, NY 13856
Facility Chief Operator	Andrew Tompkins	Andy Zuk

Signature and Date

Owner or operator must sign, date and submit one completed form with an original signature to:

New York State Department of Environmental Conservation
Bureau of Solid Waste & Land Management
Division of Solid & Hazardous Materials
625 Broadway
9th Floor
Albany, NY 12233-7258

and one copy with an original signature to the appropriate Regional Solid Waste Engineer (RSWE).

I hereby swear or affirm that information provided on this form and attached statements and exhibits is true to the best of my knowledge and belief.

Tyson Robb
Solid Waste Coordinator
PO Box 311
Delhi, NY 13753

Date: February 2018
Tel: (607) 832-5800
Fax: (607)746-7212

DELAWARE COUNTY SOLID WASTE MANAGEMENT CENTER
NEW YORK STATE ROUTE 10
TOWN OF WALTON DELAWARE COUNTY

QUARTERLY REPORT

BACKGROUND

This Report has been prepared in accordance with 6 NYCRR Part 360-1.4(c); 360-1.8 (e)(1)(ii); 360-1.14(e)(2), (i)(1); 360-2.9(j)(3); 360-2.11(c)(5)(iv), (d)5), (d)(6); 360-2.14(a)(2)(vi); 360-2.17(a), (t); 360-2.19(b)(1)(ii), (c)(1)(ii), (d)(1)(i) and 360-6.5(d). Part 360-8.1 does not pertain to Delaware County since Delaware County is not located on Long Island.

This Report also references the Environmental Monitoring Report and all other reporting requirements as specified by Operational Permit Condition No. 3 of the current Operating Permit dated June 4, 2014 and expiring on June 4, 2019. Groundwater quality monitoring data as required by the Site Analytical/Environmental Monitoring Plan is included under separate cover. A summary from this groundwater data is included in this Report. Sections 1 through 18 of the standard State form have been reproduced within this report. Sections 2 through 11 are not required for a quarterly report. Sections 11 through 15 are included within "Water Quality Data" and the Environmental Monitoring Report.

Section 2 - Quantity of Solid Waste Received:

Table A.

Type of Solid Waste -2018-	1st QT (tons)	2nd QT (tons)	3rd QT (tons)	4th QT (tons)	YTD (tons)	Daily Avg (tons)
Days Open to Public	65	129	194	264	264	
LANDFILL WASTE INPUTS - CELL 6						
Mixed MSW to Landfill (Residential & ICI) (01)	218.83	383.15	457.65	1,381.34	2,440.97	11.16
C & D Debris (buried as waste)	0	0	0	0	0	0.00
Friable Asbestos Waste (10)	0	16.54	0.46	0	17.00	0.06
Industrial Waste (Inc'l sludges)	0	0	0	0	0	0.00
Whey (16)	545.74	566.29	442.45	194.55	1,749.03	6.63
Compost Facility Residuals (001)	2,645.08	3,049.58	3,400.82	2,335.20	11,430.68	43.30
WWTP Sludge & Grit (4A)(14B)(21)	494.47	606.96	414.41	971.91	2,487.75	9.42
MRF Residuals (19)	0.9	8.66	40.35	37.51	87.42	0.33
Landfill Waste Tons - Cell 6	**3,905.02**	**4,631.18**	**4,756.14**	**4,920.51**	**18,212.85**	**68.99**
LANDFILL ADCs						
Mixed Glass Aggregate (AOC) (2BC)	111.45	93.9	107.39	121.11	433.85	1.64
Contaminated Soil (AOC) (8)	24.95	110.7	16.15	351.32	503.12	1.91
DCRRA Ash (AOC) (17)	53.46	0	0	59.16	112.62	0.43
AOC Ton Received	**189.86**	**204.6**	**123.54**	**531.59**	**1,049.59**	**3.98**
In-House Soil/C&D Blend AOC (17B)	1,768.14	1,680.05	527.36	2,142.84	6,118.39	23.18
AOC Tons Used - Cell 6	**1,768.14**	**1,680.05**	**527.36**	**2,142.84**	**6,118.39**	**23.18**
COMPOST INPUTS						
WWTP Sludge to Compost (4B)	1,012.53	1027.93	880.54	644.15	3,565.15	13.50
Mixed MSW to Compost (1)(010)	4,574.11	5,102.95	5,750.18	4,082.50	19,509.74	73.90
MRF Residuals (MSW to compost #s)	0	0	0	0	0	0
Solids Amendment- Wood (5) (17A) (005)(05)	17.87	68.47	30.52	17.79	134.65	0.51
Industrial Liquids Amendment	0	0	0	0	0	0
Gross Compost Inputs Received	**5,604.51**	**6,199.35**	**6,661.24**	**4,744.44**	**23,209.54**	**87.91**
Net Compost Outputs	**2,959.43**	**3,149.77**	**3,260.42**	**2,409.24**	**11,778.86**	**44.62**
CONSTRUCTION AND DEMOLITION DEBRIS (see also Exhibit A - Section 2)						
Total C&D Receipts (6)(06)	**777.26**	**1,659.43**	**1,570.09**	**1,587.10**	**5,593.88**	**21.19**
RECYCLABLE MATERIALS (see also Section 5)						
Total Conventional Recyclables	**734.30**	**973.52**	**1224.85**	**980.27**	**3,912.94**	**14.82**
Total Tons - SW Program	**8,565.87**	**10,618.50**	**10,935.04**	**10,428.71**	**40,548.12**	**153.59**
Lbs/Capita/Day - Total Tons - SW Program **(47,980 population, operational days/yr)**					**6.40**	
Lbs/Capita/Day - Landfill Waste Inputs - Cell 6 **(47,980 population, operational days/yr)**					**2.88**	

Notes: Labeling errors incorrectly reported the Lbs/Capita/Day as based upon 365 days. Labels have been corrected to reflect the Lbs/Capita/Day rate based upon **operational** days**.**

Quantity of Solid Waste Received

Cell 6 was put into operation with first waste placement 27 December 2007. Initial waste placement is the select waste layer which is uncompacted waste. Cell 5 stopped waste receipts on 26 December 2007.

Service Area

The service area includes the entire County of Delaware and the northern one half of the Town of Hardenburgh in Ulster County, State of New York. The population of Delaware County is 47,980 per the 2010 census with the population of the portion of the Town of Hardenburgh we serve being 125. Delaware County consists of 19 townships and covers an area of 1460 square miles.

The Solid Waste Management Center (SWMC) is located 4 miles east of the Village of Walton along NYS Route 10 in the Town of Walton. There are seven transfer stations within the service area which serve nine towns. Hauling from the transfer stations to the SWMC is done by the County. These figures are based on actual MSW tonnages hauled on county trucks.

-2018- Transfer Station Quantities
Table B.

TRANSFER STATION	MSW & BULKY ITEMS (tons)				RECYCLABLES (tons)				
	1 QT	2 QT	3 QT	4 QT	1 QT	2 QT	3 QT	4 QT	% REC
ANDES	73.54	112.51	135.31	116.75	25.90	31.66	55.99	30.75	24.78%
COLCHESTER	173.38	266.05	305.76	251.06	44.65	52.24	72.35	118.72	22.42%
DAVENPORT	290.88	402.91	346.73	332.63	30.93	65.70	63.34	41.25	12.78%
HANCOCK	360.52	544.14	730.97	401.14	34.52	58.23	66.49	44.82	9.11%
HARPERSFIELD	464.85	606.91	635.09	595.78	97.10	126.68	107.92	105.78	15.97%
MIDDLETOWN	178.54	233.81	348.66	212.83	78.57	102.54	109.08	90.61	28.11%
ROXBURY	309.25	456.93	487.57	389.28	28.12	64.00	84.24	55.02	12.34%

The County supports several paper recycling drop-off boxes throughout the area, and a seasonal convenience station is also located in the Town of Bovina utilizing a private hauler to collect waste and recyclables. Tonnages for these facilities are follows:

-2018- Seasonal Convenience Station Table
C.

LOCATION	MSW & BULKY ITEMS (tons)				RECYCLABLES (tons)				
	1 QT	2 QT	3 QT	4 QT	1 QT	2QT	3 QT	4QT	% REC
BOVINA	27.35	40.43	43.77	29.69	25.61	20.41	11.47	14.97	33.91%

-2018- Recycling Boxes Table
D.

LOCATION	RECYCLABLES (tons)			
	1 QT	2 QT	3 QT	4 QT
DELHI (paper only)	15.72	8.92	16.95	14.63

Section 3
Unauthorized Solid Waste

Has unauthorized waste ever been received at the landfill? ___ Yes __x__No

Section 4
Landfill Airspace Capacity and Projected Site Life

Cell 6

Original Design Volume (Cell 6)	343,000	CY Airspace
Volume Used This Period (2018)	23,255	CY Airspace (period survey volume)
Volume Used as of period survey	255,746	CY Airspace (cumulative all previous)
Volume Used as Surveyed from Base Layer	255,746	CY Airspace (survey volume - base)
Volume Remaining as of 1 January 2019	87,254	CY Airspace (net design cumulative)
1) Remaining life of the existing constructed landfill - Cell 6	2 Years At 40,000	2.2 Months CY/Year
1a) Remaining life of the existing constructed landfill - Cell 6	4 Years At 20,000	4.4 Months CY/Year
2) Projected life of entitled undeveloped landfill capacity. Cell 7 Capacity	12 Years At 40,000 487,000	2.1 Months CY/Year CY of Airspace
2a) Projected life of entitled undeveloped landfill capacity. Cell 7 Capacity	24 Years At 20,000 487,000	4.2 Months CY/Year CY of Airspace
3) Estimated landfill capacity of any potential expansion area not authorized under a permit (Cell 7).	487,000	CY of Airspace
4) Actual landfill capacity utilized for the year.	23,255	CY of Airspace Cell 6

-2018 - FOR COMPARISON PURPOSES ONLY - UNOFFICIAL					Table E.
IN-PLACE WASTE DENSITY CELL 6	**1qt**	**2qt**	**3qt**	**4qt**	**YTD**
Waste Compaction Rate (lbs/cy)	1,492		1,638		1,565
Waste & ADC Compaction Rate (lbs/cy)	2,095		2,090		2,093
Landfill Waste Tons - Cell 6	3,905	4,631	4,756	4,921	18,213
ADC Tons - Cell 6	1,768	1,680	527	2,143	6,118
Capacity Used For Period (cy)	11,440		11,815		23,255
CY/Capita/Yr - Capacity Used (47,980 population)		365 days	0.48		

Waste In Place

-2018 DELAWARE COUNTY SOLID WASTE MANAGEMENT CENTER TABLE F.
LANDFILL CELLS DESCRIPTIVE SUMMARY

CELL	DATES OF OPERATION	CAP	CLOSURE STATUS	NYSDEC PERMIT NUMBER	TOTAL CAPACITY (cy)	CURRENT WASTE IN PLACE (cy)	LINER ACRES
1	1977 to 1983	soil	approved	800	380,000	380,000	6.5
2	1983 to 1987	VLDPE	approved	916	270,000	270,000	4.6
3	1987 to 1993	VLDPE	approved	41-87-0171	420,000	420,000	7.1
‘4/4e	1993 to 2000	LLDPE	approved	4-1256-00008/00002-1 and 4-1256-00008/00004-1	400,000	400,000	7.9
5	2000 to present	na	interim	4-1256-00008/00007-1	329,000	325,541* (27 June 2016)	9.7
C&D	1991 to present	na	active	4-1256-00040/00004-1	69,950	55,696 (8 Jan 2014)	1.9
6	2008 to present	na	active	4-1256-00008/00007-1	343,000	255,746 (4 Jan 2019)	3.5
7	to be developed	na	na	na	487,000	na	na

*Note - Cell 5 survey of 27 June 2016 revealed **31,673.4 cy** reduction of waste -in-place volume associated with consolidation over time.

Cell 6 Waste-In-Place Cumulative Total Tons
Beginning of 4th Quarter 2007 to End of 4th Quarter 2018

TABLE G.	
WASTES TO CELL 6	**CUMULATIVE**
Mixed MSW to Landfill	14,557.30
C & D Debris (buried as waste)	0.00
Asbestos Waste	108.74
Industrial Waste (Inc'l sludges)	1.88
Whey	21,304.21
MRF Residuals	1,700.27
Compost Residuals	128,794.03
WWTP Sludge	21,048.16
In-House AOC Blend	48,849.09

C&D Landfill Waste-In-Place Cumulative Total Tons

From 1 October 1991 to End of 2nd Quarter 2012**:**

C&D Debris in-place (Oct 1991 to Dec 2001 @ 1,100 lbs/cy)	28,991 tons	52,711 cy
C&D Debris in-place (Jan 2002 to Nov 2011 @ 1,750 lbs/cy)	2,612 tons	2,985 cy
Total C&D Debris in-place	31,603 tons	55,696 cy
Net Balance Remaining Capacity (1,750 lbs/cy)	12,472 tons	14,254 cy

Section 5
Material Recovered & Marketed

Type of Recyclables Marketed	Weight (wet tons)					Table H.
-2018-	1 QT	2 QT	3 QT	4 QT	YTD	Final Destination
Tubs & Lids	20.77	21.55	19.12	136.04	197.48	Park Polymers
Mixed Glass	111.45	93.90	107.39	121.11	433.85	Aggregate (Table G. - ADC)
Ferrous Metal Cans	17.43	22.13	21.23	21.83	82.62	Conti Group, Kelman
Aluminum Cans	4.70	3.69	3.79	4.19	16.37	Rt 206 Redemption
Plastic, Natural HDPE	10.39	6.81	9.35	0.00	26.55	TABB, Empire Recyc, Hershmann
Plastic, Mixed Color HDPE	10.39	13.56	40.89	0.00	64.84	Ensley, Graham
UBCs	0.47	2.02	8.23	3.05	13.77	Rt 206 Redemption
Ag/Film Plastic	17.43	0.00	0.00	0.00	17.43	Versatile Recycling
High Molecular Weight HDPE	0.00	21.26	0.00	0.00	21.26	QRS
Plastic, PETE	18.43	18.53	18.87	18.74	74.57	TABB, Conti Group, Graham
Paper, OCC	124.17	149.46	198.62	128.46	600.71	RockTenn, Fox Run, Cascade
Magazines, Junk, Office, ONP Mix	137.84	207.45	231.00	144.84	721.13	Cascade
Electronics, CRTs, TVs	44.05	67.20	56.48	0.00	167.73	ERI
Bulk Metal	117.69	205.58	379.57	250.22	953.06	Weitsman, Sims, Otsego Auto
Antifreeze	1.08	1.27	0.98	1.89	5.22	Covanta REC Oil, eco-maxx,MXI
Used Oil	3.06	2.49	5.08	2.59	13.21	Covanta REC Oil, eco-maxx, MXI
Lead Acid Batteries	0.00	3.08	0.00	0.34	3.42	NAPA, Interstate
Household Batteries	1.92	0.00	0.00	2.02	3.94	ALR, Call 2, RFI
Clothing, Textiles, Accessories	1.20	3.00	1.70	0.95	6.85	Rock Solid Church
Other HHW, AGP, & CESQG	0.00	0.00	0.00	55.38	55.38	MXI Env'l, CLEAN SWEEP
Tires	90.01	124.51	119.35	85.98	419.85	Casings
Freon Containing Items	1.83	6.03	3.20	2.65	13.70	JGS Recycling & Hauling
Net Compost Output	2959.43	3149.77	3260.42	2409.24	11778.86	NatureCycle, DPW, Public
Alternate Daily Cover Utilized	1768.14	1680.05	527.36	2142.84	6118.39	Ground C&D, PCS, AOC
MRF Dual & Single Stream Materials	456.04	560.36	658.49	578.26	2253.15	Cans, Plastic, Glass, OCC
Total Conventional Items (exc's: Compost, AOC)	734.30	973.52	1224.85	980.27	3912.94	Recycling rates are calculated as the TONNAGE OF RECYCLABLES divided by the TOTAL TONS MANAGED BY THE SOLID WASTE PROGRAM.
Total All Materials	5461.87	5803.34	5012.63	5532.35	21810.19	
Recycle Rate Conventional Items (exc's: Compost, ADC)	8.57%	9.17%	11.20%	9.40%	9.65%	
Recycle Rate All Materials	63.76%	54.65%	45.84%	53.05%	53.79%	

UBC's estimated at 3 oz. per container.

Based on antifreeze at 0.0049 tons/gallon.

Based on waste oil at 0.0035 tons/gallon.

Freon containing units at 50 lb. each

Based on lead acid batteries recycled at 40 lbs/battery.

Car tire equals 20 lbs., light truck tire equals 40 lbs., tractor tire equals 75 lbs.

Section 6
Total Leachate

Monthly quantities (gallons) are indicated on the chart below:

- 2018 -	TOTAL LEACHATE				TABLE I.		
LEACHATE	**JAN**	**FEB**	**MAR**	**APR**	**MAY**	**JUNE**	**TOTAL**
COLLECTED	369,638	381,282	430,983	402,533	355,158	285,124	2,224,719
SHIPPED	468,244	349,074	396,958	479,467	351,266	316,198	2,361,207
DELHI	107,312	87,302	80,962	108,360	67,799	58,068	1,851,404
SIDNEY	0	0	0	0	0	0	0
WALTON	360932	261772	315996	371107	283467	258130	1,851,404

LEACHATE	**JUL**	**AUG**	**SEP**	**OCT**	**NOV**	**DEC**	**TOTAL**
COLLECTED	571,682	512,930	270,346	370,311	397,406	312,613	2,435,287
SHIPPED	414,925	784,188	446,925	399,880	574,478	438,808	3,059,204
DELHI	84,360	481,484	123,281	142,199	146,946	95,427	1,073,697
SIDNEY	0	0	0	0	0	0	0
WALTON	330565	302704	323644	257681	427532	343381	1,985,507

Note: correction of values are shown in **BOLD.**

Offsite leachate treatment facilities utilized are as follows:

Village of Walton WWTP, South Street, Walton, NY 13856
Village of Delhi WWTP, NY Rt 10, Delhi, NY 13753
Village of Sidney WWTP, River St., Sidney, NY 13838

The county maintains a Part 364 hauling permit No. 4A-246 and hauled all of the leachate with DPW forces.

The facility has a constructed liner and leachate collection system. Total area of lined area from leachate collected is 34.7 acres (C&D landfill has 1.9 acres, Cell 2 has 4.6 acres of liner, Cell 3 has 7.1 acres, Cell 4/4e has 7.9 acres, Cell with 5 has 9.7 acres, and Cell 6 has 3.5 acres). A compilation of primary leachate quality data collected throughout the year including a summary comparing the data and a summary discussion of the results has been enclosed under separate cover with the **Environmental Monitoring Report**.

Primary leachate from the C&D cell is serviced by Pump Station #4. Primary leachate from Cell 2 is serviced by Pump Station #5. Primary and secondary leachate from Cell 3 is serviced by Pump Station #6 primary and secondary side riser pumping system. During January and February of 2001, Cell 5 primary leachate was pumped into a clean out serviced by Pump Station #3. Starting in March, 2001 Cell 5 primary leachate was pumped into Pump Station #7. Cell 5 secondary leachate is pumped directly through Pump Station #7. Cell 6 primary and secondary leachate is serviced by Pump Station #8.

Section 7
Secondary Leachate

Cell 3 has a double liner system with a secondary leachate collection and removal system; Cell 4 & 4E have double composite liner systems with a secondary leachate collection and removal system. Cell 5 has a double composite liner system with a secondary leachate collection and removal system. Cell 6 has a double composite FML/GCL and FML/clay liner and primary and secondary leachate collection and removal system.

The monitoring system for Action Leakage Rate serves as the vehicle to determine secondary leachate volumes for Cell 3, Cell 4 & 4E, Cell 5, and Cell 6. Secondary leachate from Cell 4 & 4E is mixed with primary leachate in pump station 3 and conveyed to the tank storage farm from there. Cell 5 secondary leachate is mixed with Cell 5 primary leachate and is handled through Pump Station #7. Pump Station #1 was removed and replaced with Pump Station #6 to collect and convey primary and secondary leach leachate from Cell 3 to the tank storage farm. Cell 6 secondary leachate is serviced by Pump Station #8. Secondary leachate is mixed with primary leachate prior to shipment and treatment. The following chart only depicts the amount of secondary leachate collected.

2018	SECONDARY LEACHATE COLLECTED (gallons)					TABLE J.	
	JAN	**FEB**	**MAR**	**APR**	**MAY**	**JUN**	**TOTAL**
CELL 3	1155	912	799	1,977	2231	857	7,931
CELL 4	0	454	0	0	0	0	454
CELL 5	304	210	206	198	155	241	1,314
CELL 6	270	292	140	253	28	48	1,031
	JUL	**AUG**	**SEPT**	**OCT**	**NOV**	**DEC**	**TOTAL**
CELL 3	1594	2234	1897	4318	4737	1610	16,390
CELL 4	116	0	0	712	0	0	828
CELL 5	1621	912	513	733	1309	20	5,108
CELL 6	239	52	848	709	252	161	2,261

Acreage of the lined area from which secondary leachate is collected is 28.2 acres. Cell 3 encompasses 7.1 acres, Cell 4/4e has 7.9 acres, Cell 5 with 9.7 acres, and Cell 6 with 3.5 acres that combined total 28.2 acres of double lined area. The construction of Cell 6 included a direct joining of the primary and secondary liner systems for Cell 6 and adjacent Cell 5. Monitoring of the leachate quantity and quality in both Cells 5 & 6 indicate that the secondary leachate from Cell 5 is wicking into the Cell 6 secondary leachate collection system. Accordingly, ALRs reported for individual Cell 5 and Cell 6 is believed to under estimate Cell 5 secondary leachate and overestimate Cell 6 secondary leachate. Accordingly, the ALRs are also reported for the combined liner acreage of Cell 5 & Cell 6.

A compilation of any secondary leachate quality data collected throughout the year including a summary comparing data and a summary discussion of results has been enclosed under this same cover with the **Environmental Monitoring Report**. Action Leakage Rate data and a compilation of leachate generation from the various sources is included in with the Leachate System Data.

Section 8
Tipping Fee/Leachate Treatment Cost

The following depicts tipping fees for special wastes, effective date 1 July 2010:

MSW Tipping Fee:	$0 per ton
Contaminated Soils	$30.00 per ton
Construction & Demolition Debris	$87.00 per ton
NYC Upgrade Sludge	$80.00 per ton
Clean Wood & Brush	$25.00 per ton
Friable Asbestos	$200.00 per ton

Cost of leachate disposal fees and contractor transportation fees for the year to date as recorded in Departmental budgetary audits.

Section 9
Cost Estimates and Financial Assurance Documents

Required cost estimates and financial assurance documents for closure, post-closure care, and applicable corrective measures, all reflecting adjustments for inflation to indicated updated dollars for the current year of operation have been submitted to the NYSDEC Region 4 office.

Financial assurance for this liability is provided through a combination of a dedicated percentage of the sales tax income for the County and municipal guarantees as accepted under the Local Government Financial Test and Guarantee provisions of the federal rule (40 CFR Part 258) and as accepted by the NYSDEC in March 1998 letter from John Cahill, Acting Commissioner of NYSDEC. Delaware County is in sound fiscal position to provide the financial guarantees required by the state.

The most recent annual financial assurance report will be submitted immediately after audit services completed by the County's contracted auditors.

Section 10
Changes

This section will also be used to offer narrative on the daily operation of the SWMC (items 1 - 8).

1. Roadways are in good condition and suitable for all traffic. Directional signs are in necessary areas.

2. A drop off station for residential waste brought in by residential users is in operation and is monitored during landfill operating hours by a gate attendant. An area is also provided for recyclable material, with separate closed rolloff containers being provided for ONP and for electronic items. Magazines & junk mail, and office paper are placed in hoppers in the three sided structure near the attendant's station. Receptacles for used motor oil, antifreeze, oil filters, and lead acid batteries are located adjacent to the paper drop off area.

3. Commingled recyclables are tipped in the Material Recovery Facility by our commercial haulers. Commercial haulers also tip their OCC in the MRF. Residential users use the convenience area. Recyclables are separated by container type, are baled or otherwise consolidated for shipment to various markets.

4. White goods and metals, tires, MSW, wood and C&D debris are currently placed in rolloff containers located in the convenience area for the self-haulers. Wood and C&D are transported by SWMC personnel to the appropriate area of the site. White goods and bulk metal are transported to Weitsman & Son, Inc. in Owego, NY and Sims Metal Management in Middletown, NY. Utilizing a USEPA Certified Refrigeration Recovery Technician, refrigerators are purged at the SWMC under contract services, collecting refrigerant from white goods prior to scrap disposal.

5. Wastewater treatment plant sludges and food processing filter wastes are composted with MSW.

6. Incoming tires are placed in van trailers supplied by contract companies. They are chipped and marketed as TDF tire derived fuel and TDA tire derived aggregate.

7. Operation of the landfill cell proceeded in an orderly manner. Noise, odors and blowing papers were properly controlled as necessary.

8. Stockpiled clean C&D is periodically shredded and used as alternate daily cover on the landfill. Excess C&D debris is exported under contract to alternate landfill.

9. Consistent with NYS producer responsibility laws, electronic wastes are mandated for recycling (landfill ban applies). Electronics are actively collected for recycling at the SWMC and all eight of the municipal transfer stations serviced by the SWMC. Electronics recycling is provided at zero tip fee.

10. Landfill gas in destroyed via utility flare serviced by the active gas extraction system. SWMC landfill GHG emissions are below the EPA annual reporting threshold of 25,000 MTCO2eq as verified thru modeling using EPA LandGEM 3.02.

Highlights

6. Truck scales were certified by Weights and Measures on August 23, 2018.

7. We utilized Precision Industrial Services to perform an inline camera inspection of our leachate collection system.

8. Applied for permit modification allowing moderate lateral expansion lending to substantial vertical gains.

9. We hired a new operator Andrew Tompkins replacing Tony Vespro.

10. Although rain fall levels were quite high this year leachate levels were relatively low. This speaks to the ability of geomembrane rain cover stormwater diversions to limit the effects of weather on leachate collection systems.

Sections 11, 12, 13 14 and 15
Ground Water Quality and Analysis

Information requested in these sections is included with the "Water Quality Data" and also submitted under this same cover with the **Environmental Monitoring Report.**

Section 16
Surface Impoundments

Monitoring wells 1-S, 1-D, 5, 6-S and 6-D are sufficient to meet the requirements of 6 NYCRR Part 360-6.5(d), (1996). Ground water quality requirements are included with the, "Water Quality Data", and also submitted under this same cover with the **Environmental Monitoring Report**. An additional impoundment exists in the form of a lined containment area for the tank farm where leachate is currently managed.

Section 17
Permit/Consent Order Reporting Requirements
Air Emissions

Operational records verifying actual emissions, in accordance with 6 NYCRR Part 201-4.1(5) and Section 201-2.1(b)(2) are maintained at the central archive for Delaware County DPW-Solid Waste Division, DPW Main Office, One Page Avenue, Delhi, NY. The operational records address air emissions from the three emission points covered under the County's Air Facility Registration. These emission points are: one (2) landfill gas flare, and one (1) compost facility biofilter. The combined Potential To Emit (PTE) for these four sources is below the 50% Cap By Rule threshold and accordingly are not subject to the Cap By Rule standards and are fully compliant with the standards as Minor Air Emission sources. Hours of operation, maintenance records, and modification records are maintained for these registered air emission sources.

A separate single gas-to-energy generator, owned and operated under separate permit by the Delaware County Electric Coop, has been taken out of service and is no longer on-site. Registration and records for the generator were maintained by the registered DCEC. The applicable registration has been discontinued with the removal of the generator in 2012.

Section 18
Landfill Gas

Does the landfill have a landfill gas collection & control system?

Yes - active landfill gas collection network installed during 2008 that provides gas extraction from landfill cells 2, 3, 4, 4e, and 5. Landfill gas extraction system is permitted under the site wide NYSDEC facility permit, as per permit modification date May 5, 2008.

Number of flares: 1 – active	Type of flare: open utility flare
Number of internal combustion engines:	none
Quantity of gas collected and treated annually:	see Table V.
Does the landfill require a Title V permit?	No - facility qualifies under Minor Facility Registration
Name of Landfill Gas Recovery Facility:	Delaware County SWMC - Landfill Gas Recovery System.

Descriptive Overview:
The County retains ownership of the landfill gas recovery network and stationary flare. The existing LFG network at the SWMC was expanded with the installation of ten (10) new vertical wells, tying into a new lateral and manifold system. The existing large LFG flare was relocated to a site adjacent to the DCEC power island. With the removal of the DCEC owned landfill gas generator and discontinuation of the DCEC air registration, the County assumed ownership of the LFG recovery network ends and the remaining assets of the power island. Currently, all actively collected landfill gas is destroyed by the stationary flare.

Greenhouse Gas Monitoring Plan

SWMC landfill GHG emissions are below the EPA annual reporting threshold of 25,000 MTCO2eq (equivalent to 1000 Mg CH4) as verified thru modeling using EPA LandGEM 3.02, and additionally field validated. Pursuant to requirements of the Code of Federal Regulations (CFR), Title 40, Part 98.3(g)(5), a Greenhouse Gas Monitoring Plan has been prepared and is available from the DPW Main Office, Delhi, NY.

Landfill gas generation continues to steadily decline, as demonstrated by the inability of the current flare system to sustain continuous vacuum and flame. Recorded annual cumulative CF of current landfill gas production is a small fraction of total annual cumulative CF for 2010. Landfill Cell 6 is the burial site for compost residuals and by-pass material. As a function of MSW and biosolids being composted, the remaining MSW and compost residual fraction has insufficient organic content to generate significant quantities of methane and other landfill gases necessary to support a flame. Accordingly, the landfill gas collection network has not been extended into Cell 6 at this time.

TABLE I.

LFG Extraction Network Flare Station Activity - 2018

- 2017 -	1ST QT	2ND QT	3RD QT	4TH QT
Total Period Hours	2160	2184	2208	2208
Blower Operational Hours	44	32.7	28.2	7.8
Cumulative CF (average 100 cfm x flare operational hrs x 60)	264,000	196,200	169,200	46,800
Condensate Gallons	4,998	4,116	12,348	16,168
CH4 Destruction (Mg) *(cf x 0.0000192 x 50%CH4)*	2.5344	1.88352	1.62432	0.44928
CH4 Destruction (Mg CO2 eq) *(Mg CH4 x 25)*	63.36	47.088	40.608	11.232
GWP (Greenhouse Warming Potential) conversion for CH4 = 21 (previous standard)				
GWP (Greenhouse Warming Potential) conversion for CH4 = 25 (current standard)				

EXHIBIT A

CONSTRUCTION & DEMOLITION DEBRIS CELL

Division of Solid Waste
New York State Department of Environmental Conservation

ACTIVE CONSTRUCTION & DEMOLITION DEBRIS LANDFILL
(Subject to 6 NYCRR Part 360-7, Construction and Demolition Debris Facilities,
Effective Date: November 24, 1999)
QUARTERLY REPORT

A. Annual Report for the year of operation from 1 January to 31 December 2018

B. Quarterly Report for: ___X___ Quarter 1 ___X___ Quarter 2 ___X___ Quarter 3 ___X___ Quarter 4

Section 1
Owner/Facility Information

Facililty Name - Delaware County Solid Waste Management Center
DEC Facility Code # 13-D-01 DEC Region IV Town of Walton
County of Delaware Part 360 Permit _ 4-1256-00040/00004
Date of Issue - 10 June 1999 Date of Permit Expiration - 1 June 2019
DEC Registration # 13R22 (Construction and Demolition Debris Transfer Station)
Phone Number - (607) 746-2128 FAX - (607) 746-7212
Mailing Address - PO Box 311, Page Avenue, Delhi, NY 13753
Operator Name – Andrew Tompkins, Phone Number - (607) 865-5805
Mailing Address - PO Box 311, Page Avenue, Delhi, NY 13753

Section 17
Signature and Date by Owner or Operator

Owner or operator must sign, date and submit one completed form with an original signature to:

New York State Department of Environmental Conservation
Bureau of Solid Waste & Land Management
Division of Solid & Hazardous Materials
625 Broadway
9th Floor
Albany, NY 12233-7258

and one copy with an original signature to the appropriate Regional Solid Waste Engineer (RSWE).

I hereby swear or affirm that information provided on this form and attached statements and exhibits is true to the best of my knowledge and belief.

Tyson Robb ___ _____
Solid Waste Coordinator
PO Box 31
Delhi, NY13753

Date: February 2018
Tel: (607) 832-5800
Fax: (607)746-7212

Section 2
Quantity of C & D Debris Received

Report the tonnages of solid waste received.
Tonnages were obtained by: _X_ Scale Weight __ Truck Count __ Estimated __ Other: _____

-2018-	Table A.
Construction & Demolition (C&D) Debris Receipts	**Weight (tons)**
Quarter 1	**777.26**
Quarter 2	**1,659.43**
Quarter 3	**1,570.09**
Quarter 4	**1,587.10**
Year to Date Total Received	5,593.88

Has the landfill received pulverized C&D debris? _____Yes _X_ No
If yes, what is the percentage of pulverized C&D debris received? ____%
What is the percentage of remaining approved design volume? ____%

Original Design Volume	69,950 CY
Volume Used from 1 Oct 1991 to 8 July 2013	55,696 CY
Volume Remaining	14,254 CY
Estimated Remaining Life of Cell, 9,000 CY/Year	1 years 6 months

Table B.

- 2018-	1ST	2ND	3RD	4th	YTD Total
Quarterly C&D Receipts	777.26	1659.43	1570.09	1587.10	5,593.88
In-House Soil/C&D Blend AOC - Cell 6	1768.14	1680.05	527.36	2142.84	6,118.39
C&D buried in Cell 6	0.00	0.00	0.00	0.00	0
C&D buried in C&D landfill	0.00	0.00	0.00	0.00	0
C&D exported by Tweedie Enterprises to IESI Seneca Meadows, Canadaigua, NY	0.00	0.00	0.00	0.00	0
C&D exported by Tweedie Enterprises to Hakes Landfill, Painted Post, NY	0.00	0.00	19.61	0.00	19.61
Casella Waste Management of NY Ontario County Landfill, Seneca, NY	330.71	328.82	559.57	674.06	1,893.16
Casella Waste Management of NY Hakes Landfill, Painted Post, NY	0.00	0.00	0.00	0.00	0 0
C&D temporarily stockpiled on C&D landfill	-1321.59	-349.44	463.55	-1229.80	-2,437.28
Quarterly Total Managed	777.26	1659.43	1570.09	1587.10	5,593.88
Total Export Tonnage	330.71	328.82	579.18	674.06	1,912.77

Note: Tonnages reported for C&D receipts are from the Delaware County Solid Waste Management Center truck scale records. Tonnages of C&D exports are from truck scale records of the other facilities. Slight deviations in from weight records reported from exports and by the receiving landfills may occur. Tonnages for C&D associated with FEMA related activities are excluded from this figures.

Section 3
Unauthorized Solid Waste

No unauthorized solid waste has ever been received at the C & D landfill.

Section 4
Material Recovered

Information on any materials recovered is reported in Section 5 of the main text.

Section 5
Leachate

All leachate collected in the C&D debris landfill cell is conveyed to the same storage facility as all leachates from all other sources at the site. These quantities are combined and are included in the totals as reported in Section 6 of the main text. Generation figures are reported below for the C&D debris cell:

-2018- **C&D LEACHATE**
TABLE C.
(gallons)

	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
C&D (gallons)	17,970	25,560	27,990	18,750	11,520	3,870	105,660

TABLE D. **C&D LEACHATE**
(gallons)

	JUL	AUG	SEPT	OCT	NOV	DEC	TOTAL
C&D (gallons)	16,050	59,070	29,040	57,120	73,830	58,410	293,520

This is a 1.9 acre cell that has a constructed clay liner and leachate collection system.

Additional leachate data is included in Section 6 of the main text and the **Environmental Monitoring Report.**

Section 6
Tipping Fee

Tipping fees for C&D debris are as follows:

C&D Debris	$87.00 per ton
Clean Wood	$25.00 per ton

Section 7
Cost Estimates and Financial Assurance Documents

This information is reported in Section 9 of the main text.

Section 8
Problems

Details are reported in Section 10 of the Main Text. No operational problems currently exist at the C&D cell.

Section 9
Changes

This section is reported in Section 10 of the main text.

Sections 10, 11, 12, 13, & 14
Water Quality Monitoring

This data can be found with the, "Water Quality Data" in the **Environmental Monitoring Report**.

Section 15
Surface Impoundments

There are no surface impoundments at this site.

Section 16
Permit/Consent Order Reporting Requirements

There are no Permit/Consent Order reporting requirements.

EXHIBIT B
WATER QUALITY DATA / ENVIRONMENTAL MONITORING REPORT

Leachate System Data
Groundwater Elevations for Monitoring Wells
Executive Summary: Groundwater Pollutant Overlimit Parameters

WATER QUALITY MONITORING

DELAWARE COUNTY SOLID WASTE MANAGEMENT CENTER

Water Quality Data reports for the previous 1st, 2nd, 3rd, and 4th quarters are compiled from Microbac Laboratories, Inc., Cortland, NY, and submitted attached to this report.

All testing and analyses are performed in accordance to the guidelines and requirements of 6 NYCRR Part 360-2.11 and as outlined in the *Environmental Monitoring & Site Analytical Plan for the Delaware County Solid Waste Management Center, revised January 2014*, and any special conditions as required by the Regional Office.

All hydrogeologic data is currently on file in the Regional Office.

ENVIRONMENTAL MONITORING REPORT
DELAWARE COUNTY SOLID WASTE MANAGEMENT CENTER

Leachate Collection System

See Section 10 of the main text for details. Daily recorded leachate generation data are attached.

Leachate Generation and Rain Water

Year to date, a total of 4,660,006 gallons of leachate were handled the leachate collection system. During this same time period, there was an estimated 57,693,587.87 gallons of rain water falling on the total of 34.7 acres handled by the leachate collection system. In 2018 rainfall amounts were up 37% over the year and up 78.6% in the 3rd quarter compared to the NOAA 20-year average from 1981 to 2010. The monthly average throughout this year of overall rain water becoming leachate ranges from a low of 4% in September 2018 to a high of 12% in March 2018.

Use of long term temporary geomembrane rain covers and diversion dams has demonstrated a measurable decrease in leachate generation. November 2016 was the installation date for the rain cover placed on the north west end of Cell 6. As reported in the 2015 annual report, the SWMC experienced a 28% decrease in leachate generation over 2014 comparable weather condition year. Comparing the ratio of leachate generation to rainfall annually from 2012 to 2014, the SWMC experienced a 45% decrease in leachate generation in 2016, attributable to rain diversion. October 2017 the original diversion storm water along the northern side liner of Cell 6 has been fully removed. New diversion dam upstream located on Cell 5 northern waste edge was installed at that time. The relative volume of rainwater diversion is anticipated to lessen with this work. Comparison of the ratio of leachate generation to rainfall from 2016 to 2017 for Cell 5 and Cell 6 showed a 10-point decrease in rainwater to leachate generation. Further evidence of the significant value in long term temporary geomembrane rain covers. Savings to Delaware County associated with leachate prevention from rainwater diversion are estimated at 2,000,000 gallons at a $60,000 direct disposal cost savings and an additional $60,000 in labor and trucking annually.

Leachate generation and rainfall data, including data for each pump station, is shown in the attachment titled LEACHATE GENERATION: RAINFALL.

Action Leakage Rates- Operational Cells

The 30-day average ALR for Cell 6 for the year ranged from a low of 0.27 g/a/d in May 2017 to a high of 8.08 g/a/d in September 2018. The 30-day average ALR for Cell 5 for the period ranged from a low of 0.07 g/a/d in December 2018 to a high of 5.57 g/a/d in July 2017. Previous analytical comparative testing of secondary leachate for Cell 5 and Cell 6 suggest that the respectively joined liner systems for the two cells is allowing flow of leachate from Cell 5 secondary system in Cell 6 secondary system. Combined Cell 5 & Cell 6 ALRs range from a low of 0.80 g/a/d in March of 2018 to a high of 9.84 g/a/d in September 2017.

Ground Water Monitoring

Groundwater continues to be monitored on a quarterly basis as is the quality of the upgradient wells in comparison to the down gradient wells. Sampling events occur consistent with annual scheduling identified in the facility Environmental Monitoring & Site Analytical Plan 2014.

Upgradient Water Quality

Seven wells are regularly monitored for upgradient water quality. For the 2, 3, and 4 quarter 2018 sampling of upgradient water quality continues to be characterized by elevated sodium levels, low pH values, along with intermittently elevated iron, and manganese levels. The 3rd and 4th quarters showed the most activity with elevated levels of COD, phenols, and turbidity. This is consistent with historic upgradient water quality at the site. The 2nd, 3rd, and 4th quarters show elevated REDOX values. All other parameters tested below state and the Site EWQV Trigger levels.

Operational Water Quality Downgradient of Cell 6 (Operational in 4th Quarter 2007)

Four wells monitor downgradient of active Cell 6. For the 3rd, and 4th quarters 2017 monitoring wells 7, 7i, and 17i showed the most activity with elevated levels of sodium, iron, phenols, alkalinity, REDOX, COD, and turbidity levels as well as low pH values. Consistent with the upgradient water sampling results. the 2nd and 3rd quarters showed activity with elevated levels of chromium, nickel, and aluminum. All other parameters tested below state and the Site EWQV Trigger levels.

Operational Water Quality Downgradient - Cell 5 (Intermediate Closure)

Five wells monitor downgradient of active Cell 5. For the 3rd, and 4th quarters 2018 monitoring wells 6i and 6s showed the most activity with elevated levels of turbidity, iron, phenols, REDOX, sodium and alkalinity levels, and low pH values. Consistent with the upgradient water sampling result. The 3rd and 4th quarters showed the most activity with elevated levels of sodium, chromium, nickel, TOC, and alkalinity. All other parameters tested below state and the Site EWQV Trigger levels.

Closed Cell Downgradient - Cell 4/4e

Three wells monitor downgradient of closed Cell 4/4e, they are analyzed once a year. For the 2018 monitoring well 10 showed the most activity with elevated levels of iron, sodium, manganese, COD, and low pH values. Also, monitoring well 11 showed elevated levels of alkalinity and low pH values. These values are consistent with the upgradient water sampling result. Monitoring well 10 also showed elevated levels of lead and acetone. All other parameters tested below state and the Site EWQV Trigger levels.

Closed Cell Downgradient - Cell 1, 2, 3

Five wells monitor downgradient of closed Cell 1, 2, & 3. Monitoring well number 5 was not sampled due to the baler breaking. Monitoring wells 4s and 5i showed activity with elevated sodium, REDOX, iron, magnesium, and low pH. These values are consistent with the upgradient water sampling result. These wells also showed elevated levels of potassium, alkalinity, ammonia, arsenic, acitone, benzene, barium, chlorobenzene, 1,1 Dichloroethene, and cis-1,2-Dichloroethene. All other parameters tested below state and the Site EWQV Trigger levels. As elevated levels could be due to the elevated rainfall amounts we are looking forward to the next monitoring report scheduled for the 2nd quarter of 2019.

Downgradient of Future Airspace

For the year of 2018 monitoring well 8 showed one instance of exceedance with a low pH in the 4th quarter. All other parameters are within both the NYS Groundwater Effluent Standard and the EWQV trigger.

Surface Water Monitoring

For the 3rd, and 4th quarters 2018 both the River Upstream and River Downstream monitoring points showed elevated REDOX levels. In the 4th quarter Upstream samples showed elevated phenols and Downstream showed elevated turbidity. All other parameters for both the downstream and the upstream portions are within both the NYS Groundwater Effluent Standard and the EWQV trigger.

OVERLIMIT PARAMETERS - ROUTINE ANALYSIS **TABLE A**

	1st Quarter 2018		2nd Quarter 2018		3rd Quarter 2018		4th Quarter 2018	
Well	**NYS Ground Water**	**Site EWQV Trigger**	**NYS Ground Water**	**Site EWQV Trigger**	**NYS Ground Water**	**Site EWQV Trigger**	**NYS Ground Water**	**Site EWQV Trigger**
Surface Water								
River Up	does not exceed	does not exceed	does not exceed	does not exceed	does not exceed	REDOX = 325.8 mV	phenols = 0.00377 ppm	does not exceed
River Down	does not exceed	does not exceed	does not exceed	does not exceed	does not exceed	REDOX = 329.3 mV	Turbidity = 6.23 NTU	REDOX = 325.8 mV
Up gradient Wells								
1d	sample only as needed		sample only as needed		sample only as needed		sample only as needed	
1s	Na = 87.6 ppm	COD = 16.1ppm	pH = 6.38 Na = 89.3 ppm	COD = 30.1ppm REDOX = 207.2 mV	pH = 5.89 Na = 110 ppm	REDOX = 240 mV	pH = 6.28 Fe = 107 ppm Turbidity = 24.5 NTU Na = 94.3 ppm	COD = 219 ppm Turbidity = 24.5 NTU
2	pH = 6.2 Mn = 2.22 ppm Na = 56.9 ppm	Mn = 2.22 ppm	pH = 6.27 Mn = 2.54 ppm Na = 48.6 ppm	REDOX = 220.1mV Mn = 2.54 ppm	pH = 6.04 Fe = 0.858 ppm Na = 49.1ppm	REDOX = 214 mV Ni = 0.0063	pH = 5.95 Turbidity = 6.21NTU Mn = 3.18 ppm Na = 44.4 ppm	Mn = 3.18 ppm
12	Na = 62.7 ppm	COD = 16.1ppm	pH = 6.26 Na = 54.1ppm	REDOX = 220.4 mV	pH = 6.24 Na = 51.1ppm	REDOX = 232 mV	Turbidity = 19.6 NTU	COD = 54.1ppm Turbidity = 19.6 NTU
13	Na = 79.6 ppm	does not exceed	pH = 6.47 Na = 54.9 ppm	does not exceed	pH = 6.35 Na = 53.0 ppm	does not exceed	pH = 6.38 Na = 46.3 ppm	REDOX = 239 mV
14	Na = 53.3 ppm	does not exceed	Turbidity = 195.4 NTU Na = 52.6 ppm	Turbidity = 195.4 NTU	pH = 6.43 Na = 43.8 ppm	does not exceed	pH = 6.42 Turbidity = 7.38 NTU Na = 62.2 ppm	does not exceed
15d	Na = 94.2 ppm	COD = 18.5 ppm	pH = 6.23 Na = 93.2 ppm	does not exceed	Phenols = 0.064 ppm pH = 6.21 Na = 818 ppm	does not exceed	Turbidity = 212 NTU Na = 88.7 ppm	Turbidity = 212 NTU COD = 20.1ppm REDOX = 220 mV
15s	Na = 112 ppm	does not exceed	Na = 93.7 ppm	does not exceed	pH = 5.85 Na = 118 ppm	REDOX = 213 mV	pH = 6.24 Na = 93.5 ppm	does not exceed
Down gradient of Future Airspace								
8	does not exceed	does not exceed	does not exceed	does not exceed	does not exceed	does not exceed	pH = 6.36	does not exceed

OVERLIMIT PARAMETERS - ROUTINE ANALYSIS — TABLE B

Down gradient of Cell 5 (intermediate closure)

	1st Quarter 2018		2nd Quarter 2018		3rd Quarter 2018		4th Quarter 2018	
Well	**NYS Ground Water**	**Site EWQV Trigger**	**NYS Ground Water**	**Site EWQV Trigger**	**NYS Ground Water**	**Site EWQV Trigger**	**NYS Ground Water**	**Site EWQV Trigger**
5xi	Turbidity = 5.54 NTU	does not exceed	Fe = 2.00	does not exceed	Fe = 3.01ppm	Cr = 0.0034 ppm Ni = 0.0051ppm	turbidity = 40.3 NTU Fe = 169 ppm phenols = 0.330 ppm	does not exceed
5xs	does not exceed	does not exceed	pH = 6.39	does not exceed	pH = 6.41	does not exceed	pH = 6.4 turbidity = 6.33 NTU Phenols = 0.046 ppm	Alkalinity = 138 ppm
6d	sampled only as needed		sampled only as needed		sampled only as needed		sampled only as needed	
6i	pH = 6.41 Fe = 143 ppm Na = 33.9 ppm Turbidity = 6.86 NTU	does not exceed	pH = 6.28 Na = 38.8 ppm Turbidity = 5.15 NTU	does not exceed	pH = 6.30 Na = 39.6 ppm Turbidity = 5.37 NTU	does not exceed	pH = 6.48 Na = 47.2 ppm turbidity = 17.6 NTU	COD = 26.6 ppm REDOX = 226 mV Turbidity = 17.6 NTU
6s	pH = 6.30 Na = 40.0 ppm	COD =18.5 ppm	pH = 6.2 Na = 47.8 ppm	REDOX = 213.3 mV Alkalinity = 126 ppm	pH = 6.25 Al = 2.24 ppm Fe = 3.71ppm Na = 44.2 ppm	REDOX = 227 mV Alkalinity = 134 ppm Cr = 0.0036 ppm Ni = 0.0058 ppm TOC = 5.12 ppm	pH = 6.46 Fe = 171ppm Turbidity = 12.1NTU Na = 46.4 ppm	COD = 26.9 ppm Alkalinity = 143 ppm Turbidity = 12.1NTU

Down gradient of Cell 6 (operational 4th QT 2007)

	1st Quarter 2018		2nd Quarter 2018		3rd Quarter 2018		4th Quarter 2018	
Well	**NYS Ground Water**	**Site EWQV Trigger**	**NYS Ground Water**	**Site EWQV Trigger**	**NYS Ground Water**	**Site EWQV Trigger**	**NYS Ground Water**	**Site EWQV Trigger**
7	Na = 36.8 ppm Fe = 9.14 ppm Al = 6.79 ppm	COD = 20.8 ppm Ni = 0.0114 ppm Fe = 9.14 ppm Al = 6.79 ppm	pH = 6.47 Na = 32.2 ppm Fe = 0.796 ppm Turbidity = 6.93 ppm	REDOX = 218.6 Pb = 0.0223 ppm	pH = 6.32 Na = 39.3 ppm Fe = 1.1ppm Turbidity = 9.65 NTU	REDOX = 238 mV Ni = 0.0053 ppm Alkalinity = 124 ppm	pH = 6.48 Na = 43.9 ppm	Redox = 237.0 mV COD = 37.4 ppm Alkalinity = 119 ppm
7i	pH = 6.49	does not exceed	pH = 6.36	REDOX = 209.7 mV	pH = 6.37 Fe = 0.716 ppm Phenols = 0.67 ppm Turbidity = 11.6 NTU	REDOX = 233 mV	pH = 6.38 Fe = 1.32 ppm Phenols = 0.036 ppm Na = 24.8 ppm Turbidity = 14.3 NTU	Redox = 268 mV Turbidity = 14.3 NTU
17i	Al = 5.33 ppm Fe = 9.26 ppm	COD =18.5 ppm Ni = 0.0105 ppm Fe = 9.26 ppm	Turbidity = 36.3 NTU Fe = 3.07 ppm	Turbidity = 36.3 NTU	turbidity = 965 NTU Al = 7.61ppm Fe = 12.6 ppm	REDOX = 278 mV Ni = 0.0159 ppm Al = 7.61ppm Cr = 0.01ppm Fe = 12.6 ppm	turbidity = 547 NTU pH = 6.32 Al = 8.37 ppm Phenols = 0.078 ppm Fe = 13.0 ppm	turbidity = 547 NTU REDOX = 223 mV COD = 37.8 ppm Al = 8.37 ppm Cr = 0.00897 ppm Fe = 13.0 ppm
17s	does not exceed	does not exceed	pH = 6.48 does not exceed	does not exceed	pH = 6.43 turbidity = 8.83 NTU Fe = 0.662 ppm	REDOX = 258 mV	turbidity = 24.3 NTU Fe = 1.14 ppm	REDOX = 208 mV turbidity = 24.3 NTU

OVERLIMIT PARAMETERS - MODIFIED ANALYSIS **TABLE C**

Well	1st Quarter 2018 NYS Ground Water	1st Quarter 2018 Site EWQV Trigger	2nd, 3rd, 4th Quarters 2018 NYS Ground Water	2nd, 3rd, 4th Quarters 2018 Site EWQV Trigger
	Down gradient of Closed Cells 1, 2, 3		**Down gradient of Closed Cells 1, 2, 3**	
4d	sample only as needed	sample only as needed	No samples were scheduled for the remainder of the year.	
4i	pH = 6.46 turbidity = 6.06 Fe = 0.98	does not exceed		
4s	pH = 6.33	K = 1.16 ppm		
	Na = 24.6 ppm	Ammonia = 16.3 ppm		
	Redox = -34.7 mV	Alkalinity = 350 ppm		
		COD = 63.1		
	Fe = 5.16 ppm	Fe = 5.16 ppm		
	Mn = 2.19 ppm	Mn = 2.19 ppm		
	As = 0.0631ppm	As = 0.0631 ppm		
	Acetone = 3.59 ppb	Acetone = 3.59 ppb		
	Benzene = 1.54 ppb	Benzene = 1.54 ppb		
	Chlorobenzene = 0.79 ppb	Chlorobenzene = 0.79 ppb		
	1,1Dichloroethane = 0.541ppb	1,1Dichloroethane = 0.541ppb		
	cis-1,2-Dichloroethene = 0.615 ppb	cis-1,2-Dichloroethene = 0.615 ppb		
5	Due to technical difficulties no sample was received (bailer broke).			
5i	Fe = 5.36 ppm	COD = 32.6 ppm		
	Na = 27.5 ppm	Ba = 0.208		
		Alkalinity = 238 ppm		
	Mn = 16.1ppm	Mn = 16.1ppm		
	1,1Dichlorethane = 1.52 ppb	1,1Dichlorethane = 1.52 ppb		
	cis-1,2-Dichloroethene = 1.29 ppb	cis-1,2-Dichloroethene = 1.29 ppb		
	As = 0.223 ppb	As = 0.223 ppb		
	Down gradient of Closed Cell 4/4e			
10	pH = 6.18 ppm Al = 3.24 ppm Fe = 5.9 ppm Acetone = 26.8 ppb	COD = 122 ppm Lead = 0.0181ppm Acetone = 26.8 ppb	No samples were scheduled for the remainder of the year.	
11	pH = 6.25 Mn = 1.01ppm	Alkalinity = 144 ppm Mn = 1.01ppm		
16	pH = 6.44 Fe = 0.97 ppm	Alkalinity = 128 ppm		

EXHIBIT C
COMPOST FACILITY REPORT
Organic Inputs Data
Finished Product Quality Analyses
Operational Performance Achievements

Division of Solid Waste
New York State Department of Environmental Conservation
ACTIVE MIXED WASTE COMPOST FACILITY
(Pursuant to 6 NYCRR Part 360-5, Compost Facilities,
Effective Date: March 10, 2003)

QUARTERLY REPORT

A. Annual Report for the year of operation from 1 January to 31 December 2018.

B. Quarterly Report for: ___X___ Quarter 1 ___X___ Quarter 2 ___X___ Quarter 3 ___X___ Quarter 4

Owner/Facility Information

Facililty Name - Delaware County Solid Waste Management Center
DEC Facility Code # 13-C-01 DEC Region IV Town of Walton
County of Delaware Part 360 Permit _ 4-1256-00008 /00011
Date of Issue - 15 August 2016 Date of Permit Expiration - 24 April 2022
Phone Number - (607) 832-5800 FAX - (607) 746-7212
Mailing Address - PO Box 311, Page Avenue, Delhi, NY 13753
Operator Name - Andy Zuk, Phone Number - (607) 865-4046 x201
Mailing Address - PO Box 311, Page Avenue, Delhi, NY 13753

Signature and Date by Owner or Operator

Owner or operator must sign, date and submit one completed form with an original signature to NYSDEC Central Office and one copy with an original signature to the appropriate Regional Solid Waste Engineer (RSWE).

New York State Department of Environmental Conservation
Bureau of Solid Waste & Land Management
Division of Solid & Hazardous Materials
625 Broadway - 9th Floor
Albany, NY 12233-7258

I certify, under penalty of law, that the information that will be used to determine compliance with the requirements in Subpart 361-3 of 6 NYCRR Part 361 has been prepared under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate this information. I am aware that false statements made herein are punishable pursuant to section 210.45 of the penal law.

I hereby swear or affirm that information provided on this form and attached statements and exhibits is true to the best of my knowledge and belief.

Tyson Robb__ Date: February 2018
Solid Waste Coordinator Tel: (607) 832-5800
PO Box 311 Fax: (607)746-7212
Delhi, NY 13753

Facility Overview Description

The compost facility is a two stage composting configuration, with aggressive mechanical screening for both input and finished product, and with oversized retention and storage / curing capacity. The first stage consists of an in-vessel bioreactor rotating drum receiving select MSW and providing for three days aerated and moisture controlled gentle tumbling of material within a biologically active area.

Pre-compost material generated in this first stage routinely achieves temperatures in excess of 131 degrees F and thus achieves some pathogen destruction. Temperatures are measured continuously with analogue display probes permanently mounted in the bioreactor drum wall.

Upon discharge from the bioreactor, the MSW pre-compost from this first stage is screened of oversized materials to produce a 1" minus pre-compost bulking agent that is conveyed to the front-end of the second stage maturation area.

In stage two, the MSW pre-compost is combined with dewatered biosolids and conveyed into aerated turned windrows of an IPS/Siemens automated system. Material has a minimum 56-day retention time in the maturation area, being turned every three days, with sufficient water and aeration additions to maintain optimal composting conditions.

Temperatures within the windrows are monitored both manually and automatically. Temperature probes within the concrete windrow walls provide continuous digital readout. Further, manual probe readings are recorded to insure proper operation and calibration of the automatic temperature monitoring systems. Temperatures routinely rise to 131 degrees F and are maintained for a minimum of three consecutive days to achieve pathogen destruction consistent with NYSDEC and USEPA regulatory standards. Elevated temperatures are maintained throughout the 56-day retention time in the windrows.

Following the 56-day maturation period, compost is again screened to remove remaining metal, glass, plastics, sharps, and oversized particles before being conveyed into the storage / curing area. Upon satisfactory analytical test results for metals and pathogen content, compost is considered “finished” at this point and storage and curing is provided for enhanced compost product marketability rather than regulatory compliance.

Section 2
Compost Inputs - Quantity of Materials Received & Marketed

Report the tonnages of solid waste received.

Tonnages were obtained by: _X_ Scale Weight __ Truck Count __ Estimated __ Other: _____

2011 Wet Tons					**Table A.**	
Type of Solid Waste (Wet Weight Tons)	**1st QT (tons)**	**2nd QT (tons)**	**3rd QT (tons)**	**4th QT (tons)**	**YTD (tons)**	**Daily Avg (tons)**
Operational Days (365 days/year processing time)	90	181	273	365	365	
COMPOST INPUTS - Wet Tons						
WWTP Sludge to Compost (sub-total all sources)	**1012.53**	**1027.93**	**880.54**	**644.15**	**3,565.15**	**9.77**
Andes	0	0	0	0	0	0.00
Delhi	314.23	217.81	280.89	190.97	1,003.90	2.75
Deposit	26.93	42.37	19.31	10.2	98.81	0.27
Hancock	0	0	0	0	0	0.00
Hobart	10.17	15.08	21.29	14.69	61.23	0.17
Margaretville	0	63.86	14.73	0	78.59	0.22
Sidney	10.46	0	0	0	10.46	0.03
Stamford	98.9	121.29	71.81	40.86	332.86	0.91
Walton	551.84	567.52	472.51	387.43	1,979.30	5.42
Mixed MSW to Compost	**4,574.11**	**5,102.95**	**5,750.18**	**4,082.50**	**19,509.74**	**53.45**
Amendments - Solids (SubTotal All Sources)	**17.87**	**68.47**	**30.52**	**17.79**	**134.65**	**0.37**
MRF Residuals	0	0	0	0	0	0
Woodchips	17.87	68.47	30.52	17.79	134.65	0.37
Amendments - Liquids (SubTotal All Sources)	**0**	**0**	**0**	**0**	**0**	**0.00**
Compost Facility Residuals	**2,645.08**	**3,049.58**	**3,400.82**	**2,335.20**	**11,430.68**	**31.32**
GROSS COMPOST INPUTS	**5,604.51**	**6,199.35**	**6,661.24**	**4,744.44**	**23,209.54**	**63.59**
NET COMPOST OUTPUTS *	**2,959.43**	**3,149.77**	**3,260.42**	**2,409.24**	**11,778.86**	**32.27**
COMPOST MARKETED (CY) ~	**65**	**1,320**	**805**	**65**	**2,255**	**6.18**

*** Note: net output figures based upon gross inputs less residuals. No adjustment made for loss of mass, or evaporation due to composting.**

~ Compost marketed quantities include in-house project as reported in cubic yards.

Section 3
Biosolids Analysis & MSW Pre-Compost Analysis

Copies of original laboratory results are attached. All results, except for pH and total solids, are reported on a dry weight basis.

Section 4
Finished Compost Analyses

Copies of original laboratory results are attached. All results, except for pH and total solids, are reported on a dry weight basis.

Section 5
Pathogen Reductions / Vector Attraction Reduction

Pathogen reduction methods include: Windrow Composting In-Vessel Composting

Vector attraction reduction methods include: Aerobic process for minimum of 14 days, at 45 deg C average

Section 6
Sample Management

Source Inputs - Sampling is required for both input materials and finished compost. Suppliers of biosolids and select solid and/or liquid amendments are required to provide analytical testing consistent with NYCRR Part 360-5.5 requirements.

MSW Inputs - MSW pre-compost generated within the Compost Facility. Material tested is that MSW pre-compost that has been through the in-vessel bioreactor for the 3-day retention time, primary trommel screening, and magnetic metal removal. Grab samples are taken from the 601 conveyor, immediately downstream of the magnetic head pulley. Testing is at the same frequency and for the same parameters as required for other inputs.

Finished Compost - Compost grab samples are taken from 800 stockpile, immediately after contaminant removal through the secondary screening process. Testing is at the same frequency and for the same parameters as required by NYCRR Part 360-5.5.

Process Detention Time	Detention time is 56 days within the maturation area. Compost is retained an additional 90 days within the storage area, providing for moisture controlled and aerated curing. Final compost product finishing with outside storage is provided as market demands require. Outside storage does not exceed 24 months, as specified under NYCRR Part 360-5 regulation.

Section 7
Annual Compost Production

2018 COMPOST INPUTS - Dry Tons						Table B.
WWTP Biosolids	**% Solids**	**Quantity (Dry Tons)**				**YTD Total (Dry Tons)**
		1st QT	**2nd QT**	**3rd QT**	**4th QT**	
Operational Days		90	91	92	92	365
Andes	30%	0	0	0	0	0
Delhi	11%	34.57	23.96	30.90	21.01	110.43
Deposit	15%	2.96	4.66	2.12	1.12	10.87
Hancock	50%	0.00	0.00	0.00	0.00	0.00
Hobart	22%	1.12	1.66	2.34	1.62	6.74
Margaretville	50%	0.00	7.02	1.62	0.00	8.64
Sidney	27%	1.15	0.00	0.00	0.00	1.15
Stamford	15%	10.88	13.34	7.90	4.49	36.61
Walton	12%	60.70	62.43	51.98	42.62	217.72
Mixed MSW Organics (Net Output)	50%	2,287.06	2,551.48	2,875.09	2,041.25	9754.87
Amendments - Solids						
MRF Residuals	50%	0	0	0	0	0
Wood	65%	11.62	44.51	19.84	11.56	87.52
Amendments - Liquid						
		0	0	0	0	0
		0	0	0	0	0
COMPOST PRODUCTION - (Total of all net inputs)						
Dry Tons Compost Produced (Total Dry Tons w/o Loss of Mass Factor)	tons	2,410	2,709	2,992	2,124	10,235
	ton/day	27	30	33	23	28
CY Compost Produced (field measured density = 32 lb/cf) [1] (Without Loss of Mass Factor)	cy/yr	5,579	6,271	6,925	4,916	23,691
	cy/day	62	69	75	53	65
CY COMPOST PRODUCED (Factoring 40% Loss of Mass During Composting & Curing[2])	LOM cy/y	3,347	3,763	4,155	2,950	14,215
	LOM cyd	37	41	45	32	39

Section 10

Compost Distribution and Marketing

With every load of compost distributed to market, the Department distributes an informational flyer that includes the source of organics, the analytical average data for the finished compost, recommendations for compost use, and activities for which the compost product is not intended.

Compost Distribution & Marketing	**Quantity (32 lbs/cf)**	**Table D.**
Compost User (YTD - 4th QT 2018)	**YTD Cum. Total CY**	**Actual Use of Compost**
Delaware County DPW (CY)	0	Landscaping / FEMA
Private Sale Direct (CY)	752	Landscaping
Brokered Sale (CY)	2,255	Landscaping / Soil Blending
Delaware County SWMC (CY)	0	
Subtotal Compost Marketed (CY)	3,007	
Compost currently stockpiled on site (CY)	11,208	Curing and Storage
Age of oldest compost stockpiled (CY)	18 months	Material being aged for unrestricted use applications

Section 11
Unauthorized Solid Waste

No unauthorized solid waste has ever been received at the Compost Facility.

Material Recovered

Information on any materials recovered is reported in Section 5 of the main text.

Tipping Fee

Tipping fees for the Compost Facility are as the same as the Solid Waste Management Center generally. See main text.

Cost Estimates and Financial Assurance Documents

This information is reported in Section 9 of the main text.

Changes

This section is reported in Section 10 of the main text.

Input and Product Quality Monitoring

Attached with this report are sludge analyses provided by individual waste water treatment facilities. Test results for both interim and finished compost are also included. A summary of compost test data is presented in the attachments to this document.

Operational Performance Records

Temperature and holding time data are provided in demonstration of compliance with operational standards to achieve pathogen reduction. Compost test data is presented in the attachments to this document. The compost process at the facility has a combined minimum retention time of 59 days from the day of acceptance of input material in the receiving pit to completion of secondary refining prior to in-house storage. The storage / curing period is variable, with an anticipated minimum average retention of 3 additional months. Additional storage / curing retention time is possible when the plant operates at less than maximum capacity. Time and temperature data collected for the period is presented in the attachment tables.

Permit/Consent Order Reporting Requirements

There are no Permit/Consent Order reporting requirements.

SWMC & COMPOST FACILITY ATTACHMENTS:

Leachate and Rainfall Reports

Leachate Line Cleaning and Inspection Work Report**s**

Groundwater Analysis Environmental Monitoring**:**
Microbac Report – 1st QT 2018
Microbac Report - 2nd QT 2018
Microbac Report - 3rd QT 2018
Microbac Report - 4th QT 2018

Cell 6 Volume Survey - Cross Sections and Plan View (2nd and 4th quarters only)

Compost Inputs Analytical Test Data

Finished Compost Analytical Test Data

Compost Facility Operational Temperature Data

Financial Assurance Worksheet

ANNUAL REPORTING DOCUMENTS:

Beneficial Use Determination Annual Reports
BUD No. 1312-4-13

Electronics Recycling Report - 2018

Planning Unit Annual Recycling Report - 2018

New NYSDEC Facility Reporting Forms

TOWN TRANSFER STATION ANNUAL REPORTS - 2018

Andes
Bovina
Colchester
Davenport
Hancock
Harpersfield
Middletown
Roxbury