



AIR AND RADIATION ADMINISTRATION DRAFT PART 70 OPERATING PERMIT

DOCKET # 24-015-0163

COMPANY: Central Landfill

LOCATION: 758 East Old Philadelphia Road
Elkton, Maryland, 21921

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**MARYLAND DEPARTMENT OF THE ENVIRONMENT
AIR AND RADIATION ADMINISTRATION
AIR QUALITY PERMITS PROGRAM
TITLE V – PART 70 OPERATING PERMIT PROGRAM OVERVIEW**

Title V of the Clean Air Act (amended) requires each state to implement a federally enforceable operating permit program for major sources of air pollution. This program, the Part 70 Permit Program, also known as the Title V Permit Program, is designed to provide a comprehensive administrative document (a Part 70 Operating Permit) that identifies all air emissions sources at a given facility and the federal air quality regulations applicable to those sources. The permit establishes the methodology by which the owner/operator will demonstrate compliance, and includes testing, monitoring, record-keeping, and reporting requirements for each emissions source.

A Part 70 Operating Permit does not authorize new construction, and does not add any new emissions limitations, standards, or work practices on an affected facility. There may, however, be additional testing, record keeping, monitoring, and reporting requirements. A Part 70 Operating Permit is a five-year renewable permit. A responsible official for each facility subject to a Part 70 Operating Permit is required to annually certify compliance with each applicable requirement for that facility.

When an application for a Part 70 Operating Permit is received, the Department will complete a technical review of the application and will prepare a draft Part 70 Operating Permit and Fact Sheet. The Fact Sheet will explain the basis and technical analysis used by the Department to develop the federally enforceable permit conditions, including the required testing, monitoring, record keeping, and reporting provisions for each emissions unit at the permitted facility. The Fact Sheet will also include a description of the facility operations and the current compliance status with applicable requirements. If there are any discrepancies between the Part 70 Operating Permit application and the draft permit, the Fact Sheet will contain a discussion of the inconsistencies and the final resolution.

Public Participation Process

The Part 70 Operating Permit Program provides the public, adjacent states, and EPA the opportunity to review and submit comments on draft permits. The public may also request a public hearing on the draft permit.

The purpose of a public hearing is to give interested parties the opportunity to submit comments for the record which are germane to the draft federally enforceable permit conditions. Comments made at the hearing, or in writing to the Department during the comment period, should address errors and deficiencies in the permit such as unidentified emissions units, incorrect or deficient regulation citation, deficient record keeping, monitoring, reporting or testing requirements and unresolved compliance issues. After the public comment period has closed, the Department will review the formal testimony as part of the final review and prepare a Response to Comments document which will be sent to the EPA along with the draft Part 70 Operating Permit and Fact Sheet.

Testimony on state-only requirements will be kept on file at the Department as part of the formal record, however, state-only rules and regulations are not federally enforceable, and therefore are not within the scope of the EPA review. The Department will keep a record of the identity of the commenters, their statements, a summary of the issues raised during the public comment period, and the Response to Comments document for at least five years.

Citizen Petition to EPA to Object to Permit Issuance

Interested parties may petition the EPA to object to the Part 70 Permit if the EPA has not already objected, within 60 days after the 45-day EPA review period has ended. The petition period will be posted on the EPA website. The EPA will only consider objections to the federally enforceable provisions of the draft permit which were raised with reasonable specificity during the public comment period, unless: (1) the petitioner demonstrates that it was impractical to raise the objections within the public comment period, or (2) the grounds for the objection arose after the comment period. If the EPA agrees with the petition, the Department will reopen, revise, or revoke the permit as determined.

Applicant Objection to Permit Issuance and Recourse

If the applicant objects to the federally enforceable permit conditions contained in the issued Part 70 Operating permit, the applicant has 15 days from receipt of the issued permit to request a contested case hearing. More information on that can be found in 40 CFR, Part 70, and COMAR 26.11.03.11.

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AIR AND RADIATION ADMINISTRATION**

**NOTICE OF INTENT TO ISSUE PART 70 OPERATING PERMIT, OPPORTUNITY TO SUBMIT
WRITTEN COMMENTS OR TO REQUEST A PUBLIC HEARING**

The Department of the Environment, Air and Radiation Administration (ARA) has completed its review of the application for a renewal Part 70 Operating Permit submitted by the Cecil County Central Landfill located in Elkton, MD.

The applicant is represented by:

Mr. Fred Dollenger
Solid Waste Management Division
Cecil County Department of Public Works
200 Chesapeake Boulevard, Suite 2400A
Elkton MD 21921

The Department has prepared a draft Part 70 Operating Permit for review and is now ready to receive public comment. A docket containing the application, draft permit, and supporting documentation is available for review on the Department's website, under the Air Quality Permitting Page's Title V link under "Draft Title V Permits" and may be viewed here:

<https://tinyurl.com/DraftTitleV>

Interested persons may submit written comments or request a public hearing on the draft permit. Written comments must be received by the Department no later than 30 days from the date of this notice. Requests for a public hearing must be submitted in writing and must also be received by the Department no later than 30 days from the date of this notice.

Comments and requests for a public hearing will be accepted by the Department if they raise issues of law or material fact regarding applicable requirements of Title V of the Clean Air Act, and/or regulations implementing the Title V Program in Maryland found in COMAR.

A Request for public hearing shall include the following:

- 1) The name, mailing address, and telephone number of the person making the request;
- 2) The names and addresses of any other persons for whom the person making the request is representing; and
- 3) The reason why a hearing is requested, including the air quality concern that forms the basis for the request and how this concern relates to the person making the request.

All written comments and requests for a public hearing should be directed to the attention of Ms. Shannon Heafey via email at Shannon.heafey@maryland.gov or by post at Air Quality Permits Program, Air and Radiation Administration, 1800 Washington Boulevard Suite 720, Baltimore, Maryland 21230-1720. Further information may be obtained by calling Ms. Shannon Heafey at (410) 537-4433.

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SECTION I SOURCE IDENTIFICATION

1. DESCRIPTION OF FACILITY

The Cecil County Central Landfill (Central Landfill) is a municipal solid waste (MSW) landfill located at 758 East Old Philadelphia Road, Elkton, Maryland, serving Cecil County. The facility is owned and operated by the Cecil County Department of Public Works (CCDPW). The Landfill began accepting waste in 1982. It accepts domestic, municipal, industrial, agricultural, silvicultural, construction, and asbestos-containing waste. The SIC code for the landfill is 4953.

The landfill is divided into a total of nine (9) permitted cells but only four (4) have been constructed (Cells 1, 2, 4 and 5). Cell 1 is closed and Cells 2, 4, and 5 are currently being filled with municipal waste. Upon completion of filling in those active cells, the remaining permitted cells (Cells 3, 6, 7, 8, and 9) will be constructed for future waste disposal. The facility operated passive landfill gas flares (candlestick) that were installed to control odors and gas migration. The facility replaced the passive flaring system in 2006 with an active landfill gas collection system provided with an open flare. This new system was permitted with a modification to the original permit to construct (PTC No. 015-9-0163 M, issued in 2007). Landfill leachate collection occurs at the premises. The leachate is collected and gravity-fed from the landfill to a Publicly Owned Treatment Works facility (POTW).

A landfill is automatically subject to Part 70 operating permit requirements, if it has a design capacity of at least 2.75 million tons, regardless of whether or not it is a major stationary source. A landfill expansion capacity permit was issued by MDE-LMA on April 23, 2014. As a result of that expansion approval, the Central Landfill has a design capacity of 14 million tons of waste, and therefore is subject to the Title V permitting requirements.

EPA promulgated the National Emission Standards for Hazardous Air Pollutants (NESHAP) for existing and new municipal solid waste (MSW) landfills - 40 CFR Part 63, Subpart AAAA. Cecil County Central Landfill is subject to the MACT requirements because it is a MSW landfill that has accepted waste since November 8, 1987 and is an area source landfill that has a design capacity equal to or greater than 2.5 million cubic meters that was not permanently closed as of January 16, 2003. **[Reference: §63.1935(b) and (b)(3)]** The Central Landfill must comply with the MACT requirements, if the facility NMOC emissions exceed 50 Mg/year; however, the landfill facility does not currently exceed this threshold.

The current Title V permit for Cecil County Central Landfill expired on June 30, 2025. On May 31, 2024 the Department received a Part 70 renewal permit application for

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Cecil County Central Landfill. An administrative completeness review was conducted and the application was deemed to be complete. The completeness determination letter was sent on June 6, 2024 granting the facility an application shield.

2. FACILITY INVENTORY LIST

Emissions Unit Number	MDE Registration Number	Emissions Unit Name and Description	Date of Registration
EU01	9-0096	Municipal solid waste landfill (MSW) provided with an active gas collection and control system with an active open flare.	Landfill began operation in 1982.
EU02	9-0096	One (1) open flare rated at 2,000 scfm.	PTC modification issued on April 17, 2007.
EU03	N/A	Roadways and Operations	Landfill began operation in 1982.
EU04	6-0252	One (1) tub grinder, powered by a 860 Hp diesel engine.	May 20, 2005
EU05	9-0176	One (1) horizontal grinder, powered by a 630 Hp diesel engine.	May 20, 2008
EU06	9-0250	One (1) 609 Hp diesel fired emergency generator	February, 2026

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SECTION II GENERAL CONDITIONS

1. DEFINITIONS

[COMAR 26.11.01.01] and [COMAR 26.11.02.01]

The words or terms in this Part 70 permit shall have the meanings established under COMAR 26.11.01 and .02 unless otherwise stated in this permit.

2. ACRONYMS

ARMA	Air and Radiation Management Administration
BACT	Best Available Control Technology
Btu	British thermal unit
CAA	Clean Air Act
CAM	Compliance Assurance Monitoring
CEM	Continuous Emissions Monitor
CFR	Code of Federal Regulations
CO	Carbon Monoxide
COMAR	Code of Maryland Regulations
EPA	United States Environmental Protection Agency
FR	Federal Register
gr	grains
HAP	Hazardous Air Pollutant
MACT	Maximum Achievable Control Technology
MDE	Maryland Department of the Environment
MVAC	Motor Vehicle Air Conditioner
NESHAPS	National Emission Standards for Hazardous Air Pollutants
NO _x	Nitrogen Oxides
NSPS	New Source Performance Standards
NSR	New Source Review
OTR	Ozone Transport Region
PM	Particulate Matter
PM10	Particulate Matter with Nominal Aerodynamic Diameter of 10 micrometers or less
ppm	parts per million
ppb	parts per billion
PSD	Prevention of Significant Deterioration
PTC	Permit to construct
PTO	Permit to operate (State)
SIC	Standard Industrial Classification
SO ₂	Sulfur Dioxide
TAP	Toxic Air Pollutant

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tpy	tons per year
VE	Visible Emissions
VOC	Volatile Organic Compounds

3. EFFECTIVE DATE

The effective date of the conditions in this Part 70 permit is the date of permit issuance, unless otherwise stated in the permit.

4. PERMIT EXPIRATION

[COMAR 26.11.03.13B(2)]

Upon expiration of this permit, the terms of the permit will automatically continue to remain in effect until a new Part 70 permit is issued for this facility provided that the Permittee has submitted a timely and complete application and has paid applicable fees under COMAR 26.11.02.16.

Otherwise, upon expiration of this permit the right of the Permittee to operate this facility is terminated.

5. PERMIT RENEWAL

[COMAR 26.11.03.02B(3)] and [COMAR 26.11.03.02E]

The Permittee shall submit to the Department a completed application for renewal of this Part 70 permit at least 12 months before the expiration of the permit. Upon submitting a completed application, the Permittee may continue to operate this facility pending final action by the Department on the renewal.

The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall submit such supplementary facts or corrected information no later than 10 days after becoming aware that this occurred. The Permittee shall also provide additional information as necessary to address any requirements that become applicable to the facility after the date a completed application was submitted, but prior to the release of a draft permit. This information shall be submitted to the Department no later than 20 days after a new requirement has been adopted.

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6. CONFIDENTIAL INFORMATION

[COMAR 26.11.02.02G]

In accordance with the provisions of the State Government Article, Sec. 10-611 et seq., Annotated Code of Maryland, all information submitted in an application shall be considered part of the public record and available for inspection and copying, unless the Permittee claims that the information is confidential when it is submitted to the Department. At the time of the request for inspection or copying, the Department will make a determination with regard to the confidentiality of the information. The Permittee, when requesting confidentiality, shall identify the information in a manner specified by the Department and, when requested by the Department, promptly provide specific reasons supporting the claim of confidentiality. Information submitted to the Department without a request that the information be deemed confidential may be made available to the public. Subject to approval of the Department, the Permittee may provide a summary of confidential information that is suitable for public review. The content of this Part 70 permit is not subject to confidential treatment.

7. PERMIT ACTIONS

[COMAR 26.11.03.06E(3)] and [COMAR 26.11.03.20(A)]

This Part 70 permit may be revoked or reopened and revised for cause. The filing of an application by the Permittee for a permit revision or renewal; or a notification of termination, planned changes or anticipated noncompliance by the facility, does not stay a term or condition of this permit.

The Department shall reopen and revise, or revoke the Permittee's Part 70 permit under the following circumstances:

- a. Additional requirements of the Clean Air Act become applicable to this facility and the remaining permit term is 3 years or more;
- b. The Department or the EPA determines that this Part 70 permit contains a material mistake, or is based on false or inaccurate information supplied by or on behalf of the Permittee;
- c. The Department or the EPA determines that this Part 70 permit must be revised or revoked to assure compliance with applicable requirements of the Clean Air Act; or

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- d. Additional requirements become applicable to an affected source under the Federal Acid Rain Program.

8. PERMIT AVAILABILITY

[COMAR 26.11.02.13G]

The Permittee shall maintain this Part 70 permit in the vicinity of the facility for which it was issued, unless it is not practical to do so, and make this permit immediately available to officials of the Department upon request.

9. REOPENING THE PART 70 PERMIT FOR CAUSE BY THE EPA

[COMAR 26.11.03.20B]

The EPA may terminate, modify, or revoke and reissue a permit for cause as prescribed in 40 CFR §70.7(g)

10. TRANSFER OF PERMIT

[COMAR 26.11.02.02E]

The Permittee shall not transfer this Part 70 permit except as provided in COMAR 26.11.03.15.

11. REVISION OF PART 70 PERMITS – GENERAL CONDITIONS

[COMAR 26.11.03.14] and [COMAR 26.11.03.06A(8)]

- a. The Permittee shall submit an application to the Department to revise this Part 70 permit when required under COMAR 26.11.03.15 -.17.
- b. When applying for a revision to a Part 70 permit, the Permittee shall comply with the requirements of COMAR 26.11.03.02 and .03 except that the application for a revision need include only information listed that is related to the proposed change to the source and revision to the permit. This information shall be sufficient to evaluate the proposed change and to determine whether it will comply with all applicable requirements of the Clean Air Act.

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- c. The Permittee may not change any provision of a compliance plan or schedule in a Part 70 permit as an administrative permit amendment or as a minor permit modification unless the change has been approved by the Department in writing.
- d. A permit revision is not required for a change that is provided for in this permit relating to approved economic incentives, marketable permits, emissions trading, and other similar programs.

12. SIGNIFICANT PART 70 OPERATING PERMIT MODIFICATIONS

[COMAR 26.11.03.17]

The Permittee may apply to the Department to make a significant modification to its Part 70 Permit as provided in COMAR 26.11.03.17 and in accordance with the following conditions:

- a. A significant modification is a revision to the federally enforceable provisions in the permit that does not qualify as an administrative permit amendment under COMAR 26.11.03.15 or a minor permit modification as defined under COMAR 26.11.03.16.
- b. This permit does not preclude the Permittee from making changes, consistent with the provisions of COMAR 26.11.03, that would make the permit or particular terms and conditions of the permit irrelevant, such as by shutting down or reducing the level of operation of a source or of an emissions unit within the source. Air pollution control equipment shall not be shut down or its level of operation reduced if doing so would violate any term of this permit.
- c. Significant permit modifications are subject to all requirements of COMAR 26.11.03 as they apply to permit issuance and renewal, including the requirements for applications, public participation, and review by affected states and EPA, except:
 - (1) An application need include only information pertaining to the proposed change to the source and modification of this permit, including a description of the change and modification, and any new applicable requirements of the Clean Air Act that will apply if the change occurs;
 - (2) Public participation, and review by affected states and EPA, is limited to only the application and those federally enforceable terms and

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conditions of the Part 70 permit that are affected by the significant permit modification.

- d. As provided in COMAR 26.11.03.15B(5), an administrative permit amendment may be used to make a change that would otherwise require a significant permit modification if procedures for enhanced preconstruction review of the change are followed that satisfy the requirements of 40 CFR 70.7(d)(1)(v).
- e. Before making a change that qualifies as a significant permit modification, the Permittee shall obtain all permits-to-construct and approvals required by COMAR 26.11.02.
- f. The Permittee shall not make a significant permit modification that results in a violation of any applicable requirement of the Clean Air Act.
- g. The permit shield in COMAR 26.11.03.23 applies to a final significant permit modification that has been issued by the Department, to the extent applicable under COMAR 26.11.03.23.

13. MINOR PERMIT MODIFICATIONS

[COMAR 26.11.03.16]

The Permittee may apply to the Department to make a minor modification to the federally enforceable provisions of this Part 70 permit as provided in COMAR 26.11.03.16 and in accordance with the following conditions:

- a. A minor permit modification is a Part 70 permit revision that:
 - (1) Does not result in a violation of any applicable requirement of the Clean Air Act;
 - (2) Does not significantly revise existing federally enforceable monitoring, including test methods, reporting, record keeping, or compliance certification requirements except by:
 - (a) Adding new requirements,
 - (b) Eliminating the requirements if they are rendered meaningless because the emissions to which the requirements apply will no longer occur, or

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- (c) Changing from one approved test method for a pollutant and source category to another;
 - (3) Does not require or modify a:
 - (a) Case-by-case determination of a federally enforceable emissions standard,
 - (b) Source specific determination for temporary sources of ambient impacts, or
 - (c) Visibility or increment analysis;
 - (4) Does not seek to establish or modify a federally enforceable permit term or condition for which there is no corresponding underlying applicable requirement of the Clean Air Act, but that the Permittee has assumed to avoid an applicable requirement to which the source would otherwise be subject, including:
 - (a) A federally enforceable emissions standard applied to the source pursuant to COMAR 26.11.02.03 to avoid classification as a Title I modification; and
 - (b) An alternative emissions standard applied to an emissions unit pursuant to regulations promulgated under Section 112(i)(5) of the Clean Air Act
 - (5) Is not a Title I modification; and
 - (6) Is not required under COMAR 26.11.03.17 to be processed as a significant modification to this Part 70 permit.
- b. Application for a Minor Permit Modification

The Permittee shall submit to the Department an application for a minor permit modification that satisfies the requirements of COMAR 26.11.03.03 which includes the following:

- (1) A description of the proposed change, the emissions resulting from the change, and any new applicable requirements that will apply if the change is made;
- (2) The proposed minor permit modification;

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- (3) Certification by a responsible official, in accordance with COMAR 26.11.02.02F, that:
 - (a) The proposed change meets the criteria for a minor permit modification, and
 - (b) The Permittee has obtained or applied for all required permits-to-construct required by COMAR 26.11.03.16 with respect to the proposed change;
 - (4) Completed forms for the Department to use to notify the EPA and affected states, as required by COMAR 26.11.03.07-.12.
- c. Permittee's Ability to Make Change
- (1) For changes proposed as minor permit modifications to this permit that will require the applicant to obtain a permit to construct, the permit to construct must be issued prior to the new change.
 - (2) During the period of time after the Permittee applies for a minor modification but before the Department acts in accordance with COMAR 26.11.03.16F(2):
 - (a) The Permittee shall comply with applicable requirements of the Clean Air Act related to the change and the permit terms and conditions described in the application for the minor modification.
 - (b) The Permittee is not required to comply with the terms and conditions in the permit it seeks to modify. If the Permittee fails to comply with the terms and conditions in the application during this time, the terms and conditions of both this permit and the application for modification may be enforced against it.
- d. The Permittee is subject to enforcement action if it is determined at any time that a change made under COMAR 26.11.03.16 is not within the scope of this regulation.
- e. Minor permit modification procedures may be used for Part 70 permit modifications involving the use of economic incentives, marketable permits, emissions trading, and other similar approaches, but only to the extent that the minor permit modification procedures are explicitly provided for in regulations approved by the EPA as part of the Maryland SIP or in other applicable requirements of the Clean Air Act.

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14. ADMINISTRATIVE PART 70 OPERATING PERMIT AMENDMENTS

[COMAR 26.11.03.15]

The Permittee may apply to the department to make an administrative permit amendment as provided in COMAR 26.11.03.15 and in accordance with the following conditions:

- a. An application for an administrative permit amendment shall:
 - (1) Be in writing;
 - (2) Include a statement certified by a responsible official that the proposed amendment meets the criteria in COMAR 26.11.03.15 for an administrative permit amendment, and
 - (3) Identify those provisions of this part 70 permit for which the amendment is requested, including the basis for the request.
- b. An administrative permit amendment:
 - (1) Is a correction of a typographical error;
 - (2) Identifies a change in the name, address, or phone number of a person identified in this permit, or a similar administrative change involving the Permittee or other matters which are not directly related to the control of air pollution;
 - (3) requires more frequent monitoring or reporting by the Permittee;
 - (4) Allows for a change in ownership or operational control of a source for which the Department determines that no other revision to the permit is necessary and is documented as per COMAR 26.11.03.15B(4);
 - (5) Incorporates into this permit the requirements from preconstruction review permits or approvals issued by the Department in accordance with COMAR 26.11.03.15B(5), but only if it satisfies 40 CFR 70.7(d)(1)(v);
 - (6) Incorporates any other type of change, as approved by the EPA, which is similar to those in COMAR 26.11.03.15B(1)—(4);

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- (7) Notwithstanding COMAR 26.11.03.15B(1)—(6), all modifications to acid rain control provisions included in this Part 70 permit are governed by applicable requirements promulgated under Title IV of the Clean Air Act; or
 - (8) Incorporates any change to a term or condition specified as State-only enforceable, if the Permittee has obtained all necessary permits-to-construct and approvals that apply to the change.
- c. The Permittee may make the change addressed in the application for an administrative amendment upon receipt by the Department of the application, if all permits-to-construct or approvals otherwise required by COMAR 26.11.02 prior to making the change have first been obtained from the Department.
 - d. The permit shield in COMAR 26.11.03.23 applies to administrative permit amendments made under Section B(5) of COMAR 26.11.03.15 , but only after the Department takes final action to revise the permit.
 - e. The Permittee is subject to enforcement action if it is determined at any time that a change made under COMAR 26.11.03.15 is not within the scope of this regulation.

15. OFF-PERMIT CHANGES TO THIS SOURCE

[COMAR 26.11.03.19]

The Permittee may make off-permit changes to this facility as provided in COMAR 26.11.03.19 and in accordance with the following conditions:

- a. The Permittee may make a change to this permitted facility that is not addressed or prohibited by the federally enforceable conditions of this Part 70 permit without obtaining a Part 70 permit revision if:
 - (1) The Permittee has obtained all permits and approvals required by COMAR 26.11.02 and .03;
 - (2) The change is not subject to any requirements under Title IV of the Clean Air Act;
 - (3) The change is not a Title I modification; and

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- (4) The change does not violate an applicable requirement of the Clean Air Act or a federally enforceable term or condition of the permit.
- b. For a change that qualifies under COMAR 26.11.03.19, the Permittee shall provide contemporaneous written notice to the Department and the EPA, except for a change to an emissions unit or activity that is exempt from the Part 70 permit application, as provided in COMAR 26.11.03.04. This written notice shall describe the change, including the date it was made, any change in emissions, including the pollutants emitted, and any new applicable requirements of the Clean Air Act that apply as a result of the change.
- c. Upon satisfying the requirements of COMAR 26.11.03.19, the Permittee may make the proposed change.
- d. The Permittee shall keep a record describing:
 - (1) Changes made at the facility that result in emissions of a regulated air pollutant subject to an applicable requirement of the Clean Air Act , but not otherwise regulated under this permit; and
 - (2) The emissions resulting from those changes.
- e. Changes that qualify under COMAR 26.11.03.19 are not subject to the requirements for Part 70 revisions.
- f. The Permittee shall include each off-permit change under COMAR 26.11.03.19 in the application for renewal of the part 70 permit.
- g. The permit shield in COMAR 26.11.03.23 does not apply to off-permit changes made under COMAR 26.11.03.19.
- h. The Permittee is subject to enforcement action if it is determined that an off-permit change made under COMAR 26.11.03.19 is not within the scope of this regulation.

16. ON-PERMIT CHANGES TO SOURCES

[COMAR 26.11.03.18]

The Permittee may make on-permit changes that are allowed under Section 502(b)(10) of the Clean Air Act as provided in COMAR 26.11.03.18 and in accordance with the following conditions:

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- a. The Permittee may make a change to this facility without obtaining a revision to this Part 70 permit if:
- (1) The change is not a Title I modification;
 - (2) The change does not result in emissions in excess of those expressly allowed under the federally enforceable provisions of the Part 70 permit for the permitted facility or for an emissions unit within the facility, whether expressed as a rate of emissions or in terms of total emissions;
 - (3) The Permittee has obtained all permits and approvals required by COMAR 26.11.02 and .03;
 - (4) The change does not violate an applicable requirement of the Clean Air Act;
 - (5) The change does not violate a federally enforceable permit term or condition related to monitoring, including test methods, record keeping, reporting, or compliance certification requirements;
 - (6) The change does not violate a federally enforceable permit term or condition limiting hours of operation, work practices, fuel usage, raw material usage, or production levels if the term or condition has been established to limit emissions allowable under this permit;
 - (7) If applicable, the change does not modify a federally enforceable provision of a compliance plan or schedule in this Part 70 permit unless the Department has approved the change in writing; and
 - (8) This permit does not expressly prohibit the change under COMAR 26.11.03.18.
- b. The Permittee shall notify the Department and the EPA in writing of a proposed on-permit change under COMAR 26.11.03.18 not later than 7 days before the change is made. The written information shall include the following information:
- (1) A description of the proposed change;
 - (2) The date on which the change is proposed to be made;

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- (3) Any change in emissions resulting from the change, including the pollutants emitted;
 - (4) Any new applicable requirement of the Clean Air Act; and
 - (5) Any permit term or condition that would no longer apply.
- c. The responsible official of this facility shall certify in accordance with COMAR 26.11.02.02F that the proposed change meets the criteria for the use of on-permit changes under COMAR 26.11.03.18.
 - d. The Permittee shall attach a copy of each notice required by condition b. above to this Part 70 permit.
 - e. On-permit changes that qualify under COMAR 26.11.03.18 are not subject to the requirements for part 70 permit revisions.
 - f. Upon satisfying the requirements under COMAR 26.11.03.18, the Permittee may make the proposed change.
 - g. The permit shield in COMAR 26.11.03.23 does not apply to on-permit changes under COMAR 26.11.03.18.
 - h. The Permittee is subject to enforcement action if it is determined that an on-permit change made under COMAR 26.11.03.18 is not within the scope of the regulation or violates any requirement of the State air pollution control law.

17. FEE PAYMENT

[COMAR 26.11.02.16A(2) & (5)(b)]

- a. The fee for this Part 70 permit is as prescribed in Regulation .19 of COMAR 26.11.02.
- b. The fee is due on and shall be paid on or before each 12-month anniversary date of the permit.
- c. Failure to pay the annual permit fee constitutes cause for revocation of the permit by the Department.

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18. REQUIREMENTS FOR PERMITS-TO-CONSTRUCT AND APPROVALS

[COMAR 26.11.02.09.]

The Permittee may not construct or modify or cause to be constructed or modified any of the following sources without first obtaining, and having in current effect, the specified permits-to-construct and approvals:

- a. New Source Review source, as defined in COMAR 26.11.01.01, approval required, except for generating stations constructed by electric companies;
- b. Prevention of Significant Deterioration source, as defined in COMAR 26.11.01.01, approval required, except for generating stations constructed by electric companies;
- c. New Source Performance Standard source, as defined in COMAR 26.11.01.01, permit to construct required, except for generating stations constructed by electric companies;
- d. National Emission Standards for Hazardous Air Pollutants source, as defined in COMAR 26.11.01.01, permit to construct required, except for generating stations constructed by electric companies;
- e. A stationary source of lead that discharges one ton per year or more of lead or lead compounds measured as elemental lead, permit to construct required, except for generating stations constructed by electric companies;
- f. All stationary sources of air pollution, including installations and air pollution control equipment, except as listed in COMAR 26.11.02.10, permit to construct required;
- g. In the event of a conflict between the applicability of (a.— e.) above and an exemption listed in COMAR 26.11.02.10, the provision that requires a permit applies.
- h. Approval of a PSD or NSR source by the Department does not relieve the Permittee obtaining an approval from also obtaining all permits-to-construct required by (c.— g.) above.

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19. CONSOLIDATION OF PROCEDURES FOR PUBLIC PARTICIPATION

[COMAR 26.11.02.11C] and [COMAR 26.11.03.01K]

The Permittee may request the Department to authorize special procedures for the Permittee to apply simultaneously, to the extent possible, for a permit to construct and a revision to this permit.

These procedures may provide for combined public notices, informational meetings, and public hearings for both permits but shall not adversely affect the rights of a person, including EPA and affected states, to obtain information about the application for a permit, to comment on an application, or to challenge a permit that is issued.

These procedures shall not alter any existing permit procedures or time frames.

20. PROPERTY RIGHTS

[COMAR 26.11.03.06E(4)]

This Part 70 permit does not convey any property rights of any sort, or any exclusive privileges.

21. SEVERABILITY

[COMAR 26.11.03.06A(5)]

If any portion of this Part 70 permit is challenged, or any term or condition deemed unenforceable, the remainder of the requirements of the permit continues to be valid.

22. INSPECTION AND ENTRY

[COMAR 26.11.03.06G(3)]

The Permittee shall allow employees and authorized representatives of the Department, the EPA, and local environmental health agencies, upon presentation of credentials or other documents as may be required by law, to:

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- a. Enter at a reasonable time without delay and without prior notification the Permittee's property where a Part 70 source is located, emissions-related activity is conducted, or records required by this permit are kept;
- b. Have access to and make copies of records required by the permit;
- c. Inspect all emissions units within the facility subject to the permit and all related monitoring systems, air pollution control equipment, and practices or operations regulated or required by the permit; and
- d. Sample or monitor any substances or parameters at or related to the emissions units at the facility for the purpose of determining compliance with the permit.

23. DUTY TO PROVIDE INFORMATION

[COMAR 26.11.03.06E(5)]

The Permittee shall furnish to the Department, within a reasonable time specified by the Department, information requested in writing by the Department in order to determine whether the Permittee is in compliance with the federally enforceable conditions of this Part 70 permit, or whether cause exists for revising or revoking the permit. Upon request, the Permittee shall also furnish to the Department records required to be kept under the permit.

For information claimed by the Permittee to be confidential and therefore potentially not disclosable to the public, the Department may require the Permittee to provide a copy of the records directly to the EPA along with a claim of confidentiality.

The Permittee shall also furnish to the Department, within a reasonable time specified by the Department, information or records requested in writing by the Department in order to determine if the Permittee is in compliance with the State-only enforceable conditions of this permit.

24. COMPLIANCE REQUIREMENTS

[COMAR 26.11.03.06E(1)] and [COMAR 26.11.03.06A(11)] and [COMAR 26.11.02.05]

The Permittee shall comply with the conditions of this Part 70 permit. Noncompliance with the permit constitutes a violation of the Clean Air Act, and/or

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the Environment Article Title 2 of the Annotated Code of Maryland and may subject the Permittee to:

- a. Enforcement action,
- b. Permit revocation or revision,
- c. Denial of the renewal of a Part 70 permit, or
- d. Any combination of these actions.

The conditions in this Part 70 permit are enforceable by EPA and citizens under the Clean Air Act except for the State-only enforceable conditions.

Under Environment Article Section 2-609, Annotated Code of Maryland, the Department may seek immediate injunctive relief against a person who violates this permit in such a manner as to cause a threat to human health or the environment.

25. CREDIBLE EVIDENCE

Nothing in this permit shall be interpreted to preclude the use of credible evidence to demonstrate noncompliance with any term of this permit.

26. NEED TO HALT OR REDUCE ACTIVITY NOT A DEFENSE

[COMAR 26.11.03.06E(2)]

The need to halt or reduce activity in order to comply with the conditions of this permit may not be used as a defense in an enforcement action.

27. CIRCUMVENTION

[COMAR 26.11.01.06]

The Permittee may not install or use any article, machine, equipment or other contrivance, the use of which, without resulting in a reduction in the total weight of emissions, conceals or dilutes emissions which would otherwise constitute a violation of any applicable air pollution control regulation.

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28. PERMIT SHIELD

[COMAR 26.11.03.23]

A permit shield as described in COMAR 26.11.03.23 shall apply only to terms and conditions in this Part 70 permit that have been specifically identified as covered by the permit shield. Neither this permit nor COMAR 26.11.03.23 alters the following:

- a. The emergency order provisions in Section 303 of the Clean Air Act, including the authority of EPA under that section;
- b. The liability of the Permittee for a violation of an applicable requirement of the Clean Air Act before or when this permit is issued or for a violation that continues after issuance;
- c. The requirements of the Acid Rain Program, consistent with Section 408(a) of the Clean Air Act;
- d. The ability of the Department or EPA to obtain information from a source pursuant to Maryland law and Section 114 of the Clean Air Act; or
- e. The authority of the Department to enforce an applicable requirement of the State air pollution control law that is not an applicable requirement of the Clean Air Act.

29. ALTERNATE OPERATING SCENARIOS

[COMAR 26.11.03.06A(9)]

For all alternate operating scenarios approved by the Department and contained within this permit, the Permittee, while changing from one approved scenario to another, shall contemporaneously record in a log maintained at the facility each scenario under which the emissions unit is operating and the date and time the scenario started and ended.

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SECTION III PLANT WIDE CONDITIONS

1. PARTICULATE MATTER FROM CONSTRUCTION AND DEMOLITION

[COMAR 26.11.06.03D]

The Permittee shall not cause or permit any building, its appurtenances, or a road to be used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne.

2. OPEN BURNING

[COMAR 26.11.07]

Except as provided in COMAR 26.11.07.04, the Permittee shall not cause or permit an open fire from June 1 through August 31 of any calendar year. Prior to any open burning, the Permittee shall request and receive approval from the Department.

3. AIR POLLUTION EPISODE

[COMAR 26.11.05.04]

When requested by the Department, the Permittee shall prepare in writing standby emissions reduction plans, consistent with good industrial practice and safe operating procedures, for reducing emissions creating air pollution during periods of Alert, Warning, and Emergency of an air pollution episode.

4. REPORT OF EXCESS EMISSIONS AND DEVIATIONS

[COMAR 26.11.01.07] and [COMAR 26.11.03.06C(7)]

The Permittee shall comply with the following conditions for occurrences of excess emissions and deviations from requirements of this permit, including those in Section VI – State-only Enforceable Conditions:

- a. Report any deviation from permit requirements that could endanger human health or the environment, by orally notifying the Department immediately upon discovery of the deviation;

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- b. Promptly report all occurrences of excess emissions that are expected to last for one hour or longer by orally notifying the Department of the onset and termination of the occurrence;
- c. When requested by the Department the Permittee shall report all deviations from permit conditions, including those attributed to malfunctions as defined in COMAR 26.11.01.07A, within 5 days of the request by submitting a written description of the deviation to the Department. The written report shall include the cause, dates and times of the onset and termination of the deviation, and an account of all actions planned or taken to reduce, eliminate, and prevent recurrence of the deviation;
- d. The Permittee shall submit to the Department semi-annual monitoring reports that confirm that all required monitoring was performed, and that provide accounts of all deviations from permit requirements that occurred during the reporting periods. Reporting periods shall be January 1 through June 30 and July 1 through December 31, and reports shall be submitted within 30 days of the end of each reporting period. Each account of deviation shall include a description of the deviation, the dates and times of onset and termination, identification of the person who observed or discovered the deviation, causes and corrective actions taken, and actions taken to prevent recurrence. If no deviations from permit conditions occurred during a reporting period, the Permittee shall submit a written report that so states.
- e. When requested by the Department, the Permittee shall submit a written report to the Department within 10 days of receiving the request concerning an occurrence of excess emissions. The report shall contain the information required in COMAR 26.11.01.07D(2).

5. ACCIDENTAL RELEASE PROVISIONS

[COMAR 26.11.03.03B(23)] and [40 CFR 68]

Should the Permittee become subject to 40 CFR 68 during the term of this permit, the Permittee shall submit risk management plans by the date specified in 40 CFR 68.150 and shall certify compliance with the requirements of 40 CFR 68 as part of the annual compliance certification as required by 40 CFR 70.

The Permittee shall initiate a permit revision or reopening according to the procedures of 40 CFR 70.7 to incorporate appropriate permit conditions into the Permittee's Part 70 permit.

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6. GENERAL TESTING REQUIREMENTS

[COMAR 26.11.01.04]

The Department may require the Permittee to conduct, or have conducted, testing to determine compliance with this Part 70 permit. The Department, at its option, may witness or conduct these tests. This testing shall be done at a reasonable time, and all information gathered during a testing operation shall be provided to the Department.

7. EMISSIONS TEST METHODS

[COMAR 26.11.01.04]

Compliance with the emissions standards and limitations in this Part 70 permit shall be determined by the test methods designated and described below or other test methods submitted to and approved by the Department.

Reference documents of the test methods approved by the Department include the following:

- a. 40 CFR 60, appendix A
- b. 40 CFR 51, appendix M
- c. The Department's Technical Memorandum 91-01 "Test Methods and Equipment Specifications for Stationary Sources", (January 1991), as amended through Supplement 3, (October 1, 1997)

8. EMISSIONS CERTIFICATION REPORT

**[COMAR 26.11.01.05-1] and [COMAR 26.11.02.19C] and
[COMAR 26.11.02.19D]**

The Permittee shall certify actual annual emissions of regulated pollutants from the facility on a calendar year basis.

- a. The certification shall be on forms obtained from the Department and submitted to the Department not later than April 1 of the year following the year for which the certification is required;

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- b. The individual making the certification shall certify that the information is accurate to the individual's best knowledge. The individual shall be:
 - (1) Familiar with each source for which the certifications forms are submitted, and
 - (2) Responsible for the accuracy of the emissions information;
- c. The Permittee shall maintain records necessary to support the emissions certification including the following information if applicable:
 - (1) The total amount of actual emissions of each regulated pollutant and the total of all regulated pollutants;
 - (2) An explanation of the methods used to quantify the emissions and the operating schedules and production data that were used to determine emissions, including significant assumptions made;
 - (3) Amounts, types and analyses of all fuels used;
 - (4) Emissions data from continuous emissions monitors that are required by this permit, including monitor calibration and malfunction information;
 - (5) Identification, description, and use records of all air pollution control equipment and compliance monitoring equipment including:
 - (a) Significant maintenance performed,
 - (b) Malfunctions and downtime, and
 - (c) Episodes of reduced efficiency of all equipment;
 - (6) Limitations on source operation or any work practice standards that significantly affect emissions; and
 - (7) Other relevant information as required by the Department.

9. COMPLIANCE CERTIFICATION REPORT

[COMAR 26.11.03.06G(6) and (7)]

The Permittee shall submit to the Department and EPA Region III a report certifying compliance with each term of this Part 70 permit including each

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applicable standard, emissions limitation, and work practice for the previous calendar year by April 1 of each year.

- a. The compliance certification shall include:
 - (1) The identification of each term or condition of this permit which is the basis of the certification;
 - (2) The compliance status;
 - (3) Whether the compliance was continuous or intermittent;
 - (4) The methods used for determining the compliance status of each source, currently and over the reporting period; and
 - (5) Any other information required to be reported to the Department that is necessary to determine the compliance status of the Permittee with this permit.
- b. The Permittee shall submit the compliance certification reports to the Department and EPA simultaneously.

10. CERTIFICATION BY RESPONSIBLE OFFICIAL

[COMAR 26.11.02.02F]

All application forms, reports, and compliance certifications submitted pursuant to this permit shall be certified by a responsible official as to truth, accuracy, and completeness. The Permittee shall expeditiously notify the Department of an appointment of a new responsible official.

The certification shall be in the following form:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

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11. SAMPLING AND EMISSIONS TESTING RECORD KEEPING

[COMAR 26.11.03.06C(5)]

The Permittee shall gather and retain the following information when sampling and testing for compliance demonstrations:

- a. The location as specified in this permit, and the date and time that samples and measurements are taken;
- b. All pertinent operating conditions existing at the time that samples and measurements are taken;
- c. The date that each analysis of a sample or emissions test is performed and the name of the person taking the sample or performing the emissions test;
- d. The identity of the Permittee, individual, or other entity that performed the analysis;
- e. The analytical techniques and methods used; and
- f. The results of each analysis.

12. GENERAL RECORDKEEPING

[COMAR 26.11.03.06C(6)]

The Permittee shall retain records of all monitoring data and information that support the compliance certification for a period of five (5) years from the date that the monitoring, sample measurement, application, report or emissions test was completed or submitted to the Department.

These records and support information shall include:

- a. All calibration and maintenance records;
- b. All original data collected from continuous monitoring instrumentation;
- c. Records which support the annual emissions certification; and
- d. Copies of all reports required by this permit.

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13. GENERAL CONFORMITY

[COMAR 26.11.26.09]

The Permittee shall comply with the general conformity requirements of 40 CFR 93, Subpart B and COMAR 26.11.26.09.

14. ASBESTOS PROVISIONS

[40 CFR 61, Subpart M]

The Permittee shall comply with 40 CFR 61, Subpart M when conducting any renovation or demolition activities at the facility.

15. OZONE DEPLETING REGULATIONS

[40 CFR 82, Subpart F]

The Permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR 82, Subpart F, except as provided for MVACs in subpart B:

- a. Persons opening appliances for maintenance, service, repair, or disposal shall comply with the prohibitions and required practices pursuant to 40 CFR 82.154 and 82.156.
- b. Equipment used during the maintenance, service, repair or disposal of appliances shall comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.
- c. Persons performing maintenance, service, repairs or disposal of appliances shall be certified by an approved technician certification program pursuant to 40 CFR 82.161.
- d. Persons disposing of small appliances, MVACS, and MVAC-like appliances as defined in 40 CFR 82.152, shall comply with record keeping requirements pursuant to 40 CFR 82.155.
- e. Persons owning commercial or industrial process refrigeration equipment shall comply with the leak repair requirements pursuant to 40 CFR 82.157.

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- f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant shall keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166.

16. ACID RAIN PERMIT

Not applicable

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SECTION IV PLANT SPECIFIC CONDITIONS

This section provides tables that include the emissions standards, emissions limitations, and work practices applicable to each emissions unit located at this facility. The Permittee shall comply with all applicable emissions standards, emissions limitations and work practices included herein.

The tables also include testing, monitoring, record keeping and reporting requirements specific to each emissions unit. In addition to the requirements included here in **Section IV**, the Permittee is also subject to the general testing, monitoring, recordkeeping and reporting requirements included in **Section III –Plant Wide Conditions** of this permit.

Unless otherwise provided in the specific requirements for an emissions unit, the Permittee shall maintain at the facility for at least five (5) years, and shall make available to the Department upon request, all records that the Permittee is required under this section to establish. **[Reference: COMAR 26.11.03.06C(5)(g)]**

The Central Landfill is currently subject to the following requirements:

Table IV – 1	
1.0	<u>Emissions Unit Number(s) – EU-01</u> MDE Registration No. 9-0096 Active municipal solid waste landfill with a design capacity of 14 million tons of MSW equipped with an active gas collection system and control system with an open flare.
1.1	<u>Applicable Standards/Limits:</u> Cecil County Central Landfill is subject to the testing, record keeping, and reporting requirements indicated below.
1.2	<u>Testing Requirements:</u> If the resulting NMOC mass emission rate is less than 34 megagrams per year, then the owner or operator must submit a periodic estimate of NMOC emissions in an NMOC emission rate report according to § 62.16724(c) and must recalculate the NMOC mass emission rate annually as required under § 62.16714(e). The site-specific NMOC concentration must be retested every 5 years using the methods specified in this section. [Reference: 40 CFR §62.16718(a)(3)(iii)]

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Table IV – 1	
1.3	<u>Monitoring Requirements:</u> See Record Keeping and Reporting Requirements in Section 1.4 and 1.5.
1.4	<u>Record Keeping Requirements:</u> The Permittee shall keep all the records required under this permit for at least five (5) years and shall make such records available to the Department upon request. [Reference: COMAR 26.11.03.06C]
1.5	<u>Reporting Requirements:</u> A. If the Permittee increases the maximum design capacity of the Cecil County Central Landfill after November 1, 1997, the Permittee shall amend and resubmit the design capacity report within 90 days of the issuance of an air quality Permit to Construct or a permit from the MDE Land Management Administration that authorizes the increase or any other change that increases the maximum design capacity of the landfill. [Reference: 40 CFR§62.16724(a)] B. The Permittee shall estimate the annual NMOC emission rate calculated using the formula and procedures as described in 40 CFR §62.16724(c). [Reference: 40 CFR§62.16718(a)] C. The Permittee may, upon approval by the Department, submit a combined report to satisfy the NMOC reporting requirements and the annual Emissions Certification requirements. [Reference: 40 CFR§62.16724(a)&(c)]

A permit shield shall cover the applicable requirements identified for the emission units listed in the table above.

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The Cecil County Central Landfill will be subject to the following requirements, if calculated NMOC emissions increase to 34 megagrams (37 tons) per year or more:

Table IV – 1	
1A.0	<u>Emissions Unit Number(s) – EU-01</u> Active municipal solid waste landfill with a design capacity of 14 million tons of MSW equipped with an active gas collection system and control system with an open flare. [MDE Registration No. 9-0096]
1A.1	<u>Applicable Standards/Limits:</u> A. <u>Standards for Air Emissions</u> <u>Standards for municipal solid waste landfill emissions – [40 CFR 62.16714]</u> “The owner or operator of an MSW landfill having a design capacity equal to or greater than 2.5 million megagrams and 2.5 million cubic meters must either install a collection and control system as provided in paragraphs (b) and (c) of this section or calculate an initial NMOC emission rate for the landfill using the procedures specified in § 62.16718(a). The NMOC emission rate must be recalculated annually, except as provided in § 62.16724(c)(3). (1) If the calculated NMOC emission rate is less than 34 megagrams per year, the owner or operator must: (i) Submit an annual NMOC emission rate report according to § 62.16724(c), except as provided in § 62.16724(c) (3); and (ii) Recalculate the NMOC emission rate annually using the procedures specified in § 62.16724(a) until such time as the calculated NMOC emission rate is equal to or greater than 34 megagrams per year, or the landfill is closed. (A) If the calculated NMOC emission rate, upon initial calculation or annual recalculation required in paragraph (e)(1)(ii) of this section, is equal to or greater than 34 megagrams per year, the owner or operator must either: Comply with paragraphs (b) and (c) of this section; calculate NMOC emissions using the next higher tier in § 62.16718; or conduct a surface emission

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Table IV – 1	
	monitoring demonstration using the procedures specified in § 62.16718(a)(6). (B) If the landfill is permanently closed, a closure report must be submitted to the Administrator as provided in § 62.16724(f), except for exemption allowed under § 62.16711(g)(4). (2) If the calculated NMOC emission rate is equal to or greater than 34 megagrams per year using Tier 1, 2, or 3 procedures, the owner or operator must either: Submit a collection and control system design plan prepared by a professional engineer to the Administrator within 1 year as specified in § 62.16724(d), except for exemptions allowed under § 62.16711(g)(3); calculate NMOC emissions using a higher tier in § 62.16718; or conduct a surface emission monitoring demonstration using the procedures specified in § 62.16718(a)(6)." <u>Particulate Matter from Materials Handling and Construction</u> "The Permittee shall not cause or allow any material to be handled, transported, or stored; or a building, its appurtenances; or a road to be used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne." [Reference: COMAR 26.11.06.03D(2)] <u>B. Operational Standards</u> [Reference: 40 CFR 62.16716] (1) The Permittee shall operate the gas collection and control system such that landfill gas is collected from each area, cell, or group of cells in the MSW landfill in which solid waste has been in place for 5 years or more if active; or 2 years or more if closed or at final grade. [Reference: 40 CFR 62.16714(b)(2)(ii) and 62.16716(a)] (2) The Permittee shall operate the collection system with negative pressure at each wellhead except under the conditions specified in §62.16716(b)(1) - (3). [Reference: 40 CFR 62.16716(b)] (3) The Permittee shall operate each interior wellhead in the collection system with a landfill gas temperature less than 55° C. The Permittee may establish a higher operating temperature at a particular well as provided for in §62.16716(c). [Reference: 40 CFR 62.16716(c)]

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Table IV – 1	
	(4) The Permittee shall operate the collection system so that the methane concentration is less than 500 parts per million above background at the surface of the landfill. To determine if this level is exceeded, the Permittee shall conduct surface testing around the perimeter of the collection area and along a pattern that traverses the landfill as provided for in §62.16716(d). [Reference: 40 CFR 62.16716(d)] (5) In the event the collection or control system is not operating, the Permittee shall shut down the gas mover system and shall close, within one hour, all valves in the collection and control system contributing to venting of the gas to the atmosphere. [Reference: 40 CFR 62.16716(e)] (6) The Permittee shall operate the control system at all times when the collected gas is routed to the system. [Reference: 40 CFR 62.16716(f)] (7) The Permittee must take corrective actions if the requirements in §62.16720(a)(3) and (5) or §62.16720(c) of 40 CFR 62, Subpart OOO if monitoring demonstrates that the operational requirements in §62.16716(b), (c), or (d) are not met. If corrective actions are taken as specified in §62.16720, the monitored exceedance is not a violation of the operational requirements in §62.16716. [Reference: 40 CFR 62.16716(g)] (8) The Permittee shall take reasonable precautions, including the application of water on unpaved roads and other surfaces, to prevent particulate matter from becoming airborne. [Reference: COMAR 26.11.06.03D(2)] C. <u>Other Requirements</u> The provisions of this subpart apply at all times, including periods of startup, shutdown, or malfunction. During periods of startup, shutdown, and malfunction, you must comply with the work practice specified in § 62.16716(e) in lieu of the compliance provisions in § 62.16720. [Reference: 40 CFR 62.16720(e)]
1A.2	<u>Testing Requirements:</u> A. <u>Standards for Air Emissions</u> [Reference: 40 CFR 62.16718 and 62.16720]

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	(1) The Permittee shall use the methods specified in §62.16720(a)(1) through (6) to determine whether the gas collection system is in compliance with the requirements for an active collection system in §62.16714(b)(2). [Reference: 40 CFR 62.16720(a)] (2) See monitoring requirements. (3) The Permittee shall follow the procedures in §62.16718(b) to calculate the NMOC gas produced by the landfill to determine if the collection and control system may be capped or removed as provided in §62.16714(f). [Reference: 40 CFR 62.16718(b)] (4) See Monitoring Requirements. (5) See Monitoring Requirements. Note: “If the resulting NMOC mass emission rate is less than 34 megagrams per year, then the owner or operator must submit a periodic estimate of NMOC emissions in an NMOC emission rate report according to § 62.16724(c) and must recalculate the NMOC mass emission rate annually as required under § 62.16714(e). The site-specific NMOC concentration must be retested every 5 years using the methods specified in this section.” [Reference: 40 CFR 62.16718(a)(3)(e)(iii)] B. <u>Operational Standards</u> (1) See Monitoring Requirements (2) See Monitoring Requirements (3) The nitrogen and oxygen level shall be determined as prescribed in 40 CFR 62.16722(a)(2). See also requirements of listed under Permit Condition IV.1.3.B. [Reference: 40 CFR 62.16722(a)(2)] (4) thru (8) See Monitoring Requirements C. <u>Other Requirements</u> See Record Keeping and Reporting Requirements in Section 1.4 and 1.5.

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1A.3	<u>Monitoring Requirements:</u> A. <u>Standards for Air Emissions</u> [Reference: 40 CFR 62.16722] (1) The Permittee shall operate and monitor the gas system in accordance with 40 CFR 62.16722, and the permit condition listed in Section IV.1.3.B. (2) thru (5) See record keeping and reporting requirements. B. <u>Operational Standards</u> (1) See record keeping and reporting requirements. (2) The Permittee shall install a sampling port at each wellhead. [Reference: 40 CFR 62.16722(a)]. The Permittee shall measure the gauge pressure in the gas collection header on a monthly basis as provided in §62.16720(a)(3). [Reference: 40 CFR 62.16722(a)(1)] (a) If a positive pressure exists, the Permittee shall initiate corrective action within 5 days, except for the conditions allowed under §62.16716(b). [Reference: 40 CFR 62.16720(a)(3)] (b) If negative pressure cannot be achieved without excess air infiltration into the landfill within 15 days of the first measurement of a positive pressure in a wellhead, the Permittee shall conduct a root cause analysis and correct the exceedance as soon as practicable, but not later than 60 days after positive pressure was first measured. [Reference: 40 CFR 62.16720(a)(3)(i)] (c) If corrective actions cannot be fully implemented within 60 days following the positive pressure or elevated temperature measurement for which the root cause analysis was required, the owner or operator must also conduct a corrective action analysis and develop an implementation schedule to complete the corrective action(s) as soon as practicable, but no more than 120 days following the measurement of landfill gas temperature greater than 55 degrees Celsius (131 degrees Fahrenheit) or positive pressure. The owner or operator must submit the items listed in § 62.16724(h)(7) as part of the next annual report. [Reference: 40 CFR 62.16720(a)(3)(ii)] (d) If corrective action is expected to take longer than 120 days to complete after the initial exceedance, the owner or operator must

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	submit the root cause analysis, corrective action analysis, and corresponding implementation timeline to the Administrator, according to § 62.16724(h)(7) and (k). [Reference: 40 CFR 62.16720(a)(3)(iii)] (3) The Permittee shall: (a) Install a thermometer, other temperature measuring device, or an access port for temperature measurements at each wellhead. [Reference: 40 CFR 62.16722(a)] (b) Monitor nitrogen or oxygen concentration in the landfill gas on a monthly basis. [Reference: 40 CFR 62.16722(a)(2)] (c) Monitor temperature of the landfill gas on a monthly basis as provided in §62.16720(a)(4). [Reference: 40 CFR 62.16722(a)(3)] (d) If a well exceeds the temperature operating parameters specified in §62.16716(c), the Permittee shall initiate action to correct the exceedance as provided in §62.16720(a)(4). [Reference: 40 CFR 62.16720(a)(4)] (4) 2The Permittee shall use the procedures specified in §62.16720(c)(1) through (c)(5) to demonstrate compliance with the surface methane operational standard as provided in §62.16716(d) and as detailed in the Updated Surface Monitoring Design Plan. [Reference: 40 CFR 62.16720(c)] (a) The Permittee shall comply with the instrumentation specifications and procedures for surface emission monitoring devices as specified in §62.16720(d) and monitor surface concentrations of methane according to the instrument specifications and procedures. [Reference: 40 CFR 62.16720(d)] (b) The Permittee shall record as a monitored exceedance any reading of 500 parts per million or more of methane above background at any location and the Permittee shall take the actions specified in §62.16720(c)(4)(i) through (v). As long as the specified actions are taken, the exceedance is not a violation of the operational requirements of §62.16716(d). [Reference: 40 CFR 62.16720(c)(4)] (c) The Permittee shall implement a program to monitor for cover integrity and implement cover repairs as necessary on a monthly basis. [Reference: 40 CFR 62.16720(c)(5)] (d) When the landfill is closed and it has no monitored exceedances of the 500 ppm operational standard for surface methane concentrations in three consecutive quarterly monitoring periods, the Permittee may convert to an annual monitoring frequency.

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	Any methane reading of 500 ppm or more above background detected during the annual monitoring returns the frequency for that landfill to quarterly monitoring. [Reference: 40 CFR 62.16722(f)] (5) thru (8) See record keeping and reporting requirements. C. <u>Other Requirements</u> See Record Keeping and Reporting Requirements in Section 1.4 and 1.5.
1A.4	<u>Record Keeping Requirements:</u> A. <u>Standards for Air Emissions</u> (1) Except as provided for in §62.16724(d)(2): (a) The Permittee shall keep for the life of the collection system an up-to-date, readily accessible plot map showing each existing and planned collector in the system and providing a unique identification location for each collector as specified in §62.16726(d)(1) and (2). [Reference: 40 CFR 62.16726(d)] (b) The Permittee shall keep up-to-date, readily accessible records for the life of the control equipment of the data listed in §62.16726(b)(1) as measured during the initial performance test. Records of subsequent tests or monitoring shall be maintained for a minimum of 5 years. [Reference: 40 CFR 62.16726(b)] (2) thru (5) See record keeping and reporting requirements. B. <u>Operational Standards</u> (1) See record keeping and reporting requirements. (2) through (4) Except as provided for in §62.16724(d)(2), the Permittee shall keep for five (5) years up-to date, readily accessible monthly records of the gauge pressure in the gas collection system nitrogen or oxygen concentrations in the landfill gas, and temperature of the landfill gas as specified to be monitored in §62.16722(a). In a similar manner, the Permittee will keep records of the surface methane concentrations monitored as specified in §62.16722(f). [Reference: 40 CFR 62.16726(c)] (2) The Permittee shall record instances when positive pressure occurs in efforts to avoid a fire. These records shall be submitted with the annual report as provided in §62.16724(h)(1). [Reference: 40 CFR 62.16716(b)(1)]

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	(5) and (6) See record-keeping and reporting requirements. (7) Except as provided for in §62.16724(d)(2), the Permittee shall keep for at least 5 years up-to-date, readily accessible records of items specified in §62.16726(e)(1) through (5) of §62.16726(e). [Reference: 40 CFR 62.16726(e)] (8) See record-keeping and reporting requirements. C. <u>Other Requirements</u> (1) Except as provided in §62.16724(d)(2), the Permittee shall keep for at least 5 years up-to-date, readily accessible, on-site records of the design capacity report which triggered §62.16714(e), the current amount of solid waste in-place, and the year-by-year waste acceptance rate. Off-site records may be maintained if they are retrievable within 4 hours. Either paper copy or electronic formats are acceptable. [Reference: 40CFR 62.16726(a)] (2) Except as provided in §62.16724(d)(2), the Permittee shall keep for 5 years up-to-date, readily accessible records for periods of operation during which the parameter boundaries established during the most recent performance test are exceeded. [Reference: 40 CFR 62.16726(c)] (3) The Permittee shall keep up-to-date, readily accessible continuous records of the indication of flow to the control device or the indication of bypass flow or records of monthly inspections of car-seals or lock and- key configurations used to seal bypass lines, specified under §62.1672. [Reference: 40 CFR 62.16726(c)(2)]
1A.5	<u>Reporting Requirements:</u> A. <u>Standards for Air Emissions</u> (1) & (2) See record keeping and reporting requirements. (3) The Permittee shall submit an equipment removal report to the Administrator 30 days prior to removal or cessation of operation of the control equipment as required in §62.16724(g)(1) through (2). [Reference: 40 CFR 62.16724(g)] (4) The Permittee shall submit a closure report to the Administrator within 30 days of waste acceptance cessation as required in §62.16724(f). If a closure report has been submitted to the

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	Administrator, no additional wastes may be placed into the landfill without the Permittee filing a notification of modification as described in §60.7(a)(4). [Reference: 40 CFR 62.16724(f)] (5) See record keeping and reporting requirements. B. <u>Operational Standards</u> (1) through (6) The Permittee shall submit to the Administrator annual reports of the recorded information in §62.16724(h)(1) through (7). The reportable exceedances for enclosed combustors are defined under §62.16726(c)(1). [Reference: 40 CFR 62.16724(h)] (7) and (8) See record-keeping and reporting requirements. C. <u>Other Requirements</u> The Permittee shall submit an annual NMOC emission rate report to the Administrator. The report is due on the anniversary of the Permittee's initial submittal of the NMOC report (April 1st) as required in 40 CFR 62.16724(c). [Reference: 40 CFR 62.16724(c)] <u>Exception:</u> The Permittee is exempted from the requirements of 40 CFR 62.16724(c)(1) through (3), after the installation of a landfill gas collection and control system in compliance with §62.16714(b) and (c), during such time as the collection and control system is in operation and in compliance with §§62.16716 and 62.16720. [Reference: 40 CFR 62.16724(c)(4)]

The Cecil County Central Landfill will be subject to the following requirements, if calculated NMOC emissions increase to 50 megagrams (55 tons) per year or more.

Table IV – 1a	
1a.0	<u>Emissions Unit Number(s)</u> – EU-01 Cont'd Active municipal solid waste landfill with a design capacity of 14 million tons of MSW equipped with an active gas collection system and control system with an open flare. [MDE Registration No. 9-0096]

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Table IV – 1a	
1a.1	<u>Applicable Standards/Limits:</u> <u>Subpart AAAA – National Emission Standard for Hazardous Air Pollutants: Municipal Solid Waste Landfills.</u> <u>Applicability</u> “You are subject to this subpart if you own or operate a MSW landfill that has accepted since November 8, 1987 or has additional capacity for waste disposition and meets any one of the three criteria in paragraphs (a)(1) through (3) of this section: (3) Your MSW landfill is an area source landfill that has a design capacity equal to or greater than 2.5 million megagrams (Mg) and 2.5 million cubic meters (m3) and has estimated uncontrolled emissions equal to or greater than 50 megagrams per year (Mg/yr) NMOC as calculated according to §63.1959.” [Reference: 40 CFR §63.1935(a)(3)] “If your landfill is an existing affected source and is an area source meeting the criteria in §63.1935(a)(3), you must comply with the requirements in §63.1957(a), §63.1958, §63.1961 and §63.1962 by the date your landfill is required to install a collection and control system by the Federal plan, or EPA approved and effective State or tribal plan that applies to your landfill, whichever occurs later.” [Reference: 40 CFR §63.1945] <u>Standards</u> Before September 28, 2021, if alternatives to the operational standards, test methods, procedures, compliance measures, monitoring, recordkeeping, or reporting provisions have already been approved under 40 CFR part 60, subpart WWW; subpart XXX; a federal plan; or an EPA-approved and effective state or tribal plan, these alternatives can be used to comply with this subpart, except that all affected sources must comply with the SSM requirements in subpart A of this part as specified in Table 1 of this subpart and all affected sources must submit compliance reports every 6 months as specified in §63.1981(h), including information on all deviations that occurred during the 6-month reporting period. Deviations for continuous emission monitors or numerical continuous parameter monitors must be determined using a 3-hour monitoring block average. Beginning no later than September 28, 2021, the collection and control system design plan may include for approval collection and control systems that include any alternatives to the operational standards, test methods, procedures, compliance measures, monitoring, recordkeeping, or reporting provisions, as provided in §63.1981(d)(2). [Reference: 40 CFR §63.1955(a)] <u>General and Continuing Compliance Requirements</u> “Compliance is determined using performance testing, collection system monitoring, continuous parameter monitoring, and other credible evidence.

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	In addition, continuous parameter monitoring data collected under §63.1961(b)(1), (c)(1), and (d) are used to demonstrate compliance with the operating standards for control systems. If a deviation occurs, you have failed to meet the control device operating standards described in this subpart and have deviated from the requirements of this subpart. (a) Before September 28, 2021, you must develop a written SSM plan according to the provisions in §63.6(e)(3) of subpart A. A copy of the SSM plan must be maintained on site. Failure to write or maintain a copy of the SSM plan is a deviation from the requirements of this subpart. (b) After September 27, 2021, the SSM provisions of §63.6(e) of subpart A no longer apply to this subpart and the SSM plan developed under paragraph (a) of this section no longer applies. Compliance with the emissions standards and the operating standards of §63.1958 of this subpart is required at all times. [Reference: 40 CFR §63.1964].” [Reference: 40.CFR §63.1960]
1a.2	<u>Testing Requirements:</u> See <u>General and Continuing Compliance Requirements</u>
1a.3	<u>Monitoring Requirements:</u> See <u>General and Continuing Compliance Requirements</u>
1a.4	<u>Record Keeping Requirements:</u> “Keep records and reports as specified in 40 CFR Part 60, Subpart OOO, or in the Federal plan, EPA approved State plan or tribal plan that implements 40 CFR Part 60, Subpart Cc, whichever applies to your landfill, with one exception: You must submit the annual report described in 40 CFR 62.16724(h) or operator must follow semi-annual reporting requirements as specified in 40 CFR 63.1981(h) in lieu of this paragraph. [Reference: 40.CFR §63.1981(a)] “You must also keep records and reports as specified in the general provisions of 40 CFR Part 63 and this part as shown in Table 1 of this subpart. Applicable records in the general provisions include items such as SSM plans and the SSM plan reports.” [Reference: 40.CFR §63.1983]
1a.5	<u>Reporting Requirements:</u> See <u>General and Continuing Compliance Requirements</u>

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Table 1 to Subpart AAAA of Part 63 – Applicability of NESHAP General Provisions to Subpart AAAA.		
Part 63 Citation	Description	Explanation
63.1(a)	Applicability: general applicability of NESHAP in this subpart	Affected sources are already subject to the provisions of paragraphs (a)(10) - (12) through the same provisions under 40 CFR, part 60 subpart A.
63.1(b)	Applicability determination for stationary sources	
63.1(e)	Title V permitting	
63.2	Definitions	
63.4	Prohibited activities and circumvention	Affected sources are already subject to the provisions of paragraph (b) through the same provisions under 40 CFR, part 60 subpart A.
63.5(b)	Requirements for existing, newly constructed, and reconstructed sources	
63.6(e)	Operation and maintenance requirements, start-up, shutdown and malfunction plan provisions	
63.6(f)	Compliance with non opacity emission standards	Affected sources are already subject to the provisions of paragraphs (f)(1) and (2)(i) through the same provisions under 40 CFR, part 60 subpart A.
63.10(b)(2)(i) – (b)(2)(v)	General recordkeeping requirements	
63.10(d)(5)	If actions taken during start-up, shutdown and malfunction are	

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Table 1 to Subpart AAAA of Part 63 – Applicability of NESHAP General Provisions to Subpart AAAA.		
Part 63 Citation	Description	Explanation
	consistent with the procedures in the startup, shutdown and malfunction plan, this information shall be included in a semi-annual startup, shutdown and malfunction plan report. Any time an action taken during a startup, shutdown and malfunction plan is not consistent with the startup, shutdown and malfunction plan, the source shall report actions taken with 2 working days after commencing such actions, followed by a letter 7 days after the event.	
63.12(a)	These provisions do not preclude the State from adopting and enforcing any standard, limitation, etc; requiring permits or requiring emissions reductions in excess of those specified.	
63.15	Availability of information and confidentiality.	

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Table IV – 2	
2.0	<u>Emissions Unit Number(s) – EU-02</u> One (1) open flare rated at 2,000 scfm. [MDE Registration No. 9-0096]
2.1	Applicable Standards/Limits: A. <u>Control of Visible Emissions</u> <u>[COMAR 26.11.06.02C(1)] – Visible Emission Standards.</u> “In Areas I, II, V, and VI a person may not cause or permit the discharge of emissions from any installation or building, other than water in an uncombined form, which is greater than 20 percent opacity.” <u>[COMAR 26.11.06.02A(2)] – General Exceptions.</u> “The visible emissions standards in §C of this regulation do not apply to emissions during start-up and process modifications or adjustments, or occasional cleaning of control equipment, if: (a) The visible emissions are not greater than 40 percent opacity; and (b) The visible emissions do not occur for more than 6 consecutive minutes in any 60-minute period.” B. <u>Operational Standards</u> <u>[40 CFR Part 62.16714] – Standards for municipal solid waste landfill emissions.</u> “(a) Landfills. Each owner or operator of an MSW landfill having a design capacity greater than or equal to 2.5 million megagrams by mass and 2.5 million cubic meters by volume must collect and control MSW landfill emissions at each MSW landfill that meets the following conditions: ... (4) Closed subcategory. The landfill is in the closed landfill subcategory and has an NMOC emission rate greater than or equal to 50 megagrams per year. ... (c) Control system. Control the gas collected from within the landfill through the use of control devices meeting the following requirements, except as provided in 40 CFR 60.24. (1) A non-enclosed flare designed and operated in accordance with the parameters established in 40 CFR 60.18 except as noted in § 62.16722(d)...” The Permittee shall operate and maintain the flare system in accordance with the manufacturer’s recommendations. [Reference: MDE PTC No. 22-9-0082 issued on July 26, 2008]

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2.2	<u>Testing Requirements:</u> A. <u>Control of Visible Emissions</u> See Monitoring Requirements in Section 2.3 A., Record Keeping Requirements in Section 2.4 B., and Reporting Requirements in Section 2.5 B. B. <u>Operational Standards</u> See Monitoring Requirements in Section 2.3 B., Record Keeping Requirements in Section 2.4 B., and Reporting Requirements in Section 2.5 B.
2.3	<u>Monitoring Requirements:</u> A. <u>Control of Visible Emissions</u> The Permittee shall properly operate and maintain the flare in a manner to minimize visible emissions. [Reference: COMAR 26.11.03.06C] B. <u>Operational Standards</u> [40 CFR Part 62.16722] – Monitoring of operations. “(c) Each owner or operator seeking to comply with § 62.16714(c) using a non-enclosed flare must install, calibrate, maintain, and operate according to the manufacturer's specifications the following equipment: (1) A heat sensing device, such as an ultraviolet beam sensor or thermocouple, at the pilot light or the flame itself to indicate the continuous presence of a flame. (2) A device that records flow to the flare and bypass of the flare (if applicable). The owner or operator must: (i) Install, calibrate, and maintain a gas flow rate measuring device that records the flow to the control device at least every 15 minutes; and (ii) Secure the bypass line valve in the closed position with a car-seal or a lock-and-key type configuration. A visual inspection of the seal or closure mechanism must be performed at least once every month to ensure that the valve is maintained in the closed

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	position and that the gas flow is not diverted through the bypass line.
2.4	<u>Record Keeping Requirements:</u> Note: All records must be maintained for a period of five (5) years. [Reference: COMAR 26.11.03.06C(5)(g)] A. <u>Control of Visible Emissions</u> The Permittee shall retain records of preventive maintenance on site for at least five (5) years and make these records available to the Department upon request. [Reference: COMAR 26.11.03.06C] B. <u>Operational Standards</u> The Permittee shall keep up-to-date, readily accessible records of the flame or flare pilot flame monitoring as specified under §62.16722(c) for open flares and up-to-date, readily accessible records of all periods of operation in which the flame or flare pilot is absent during those instances when the utility flare is being used while it is out-of-service. [Reference: 40 CFR 62.16726(b)(4) and MOE ARMA/AQPP Letter, October 2, 1995] The Permittee shall keep up-to-date, readily accessible records of the control device vendor specifications until the control device is removed. [Reference: 40 CFR 62.16726(b)]
2.5	<u>Reporting Requirements:</u> A. <u>Control of Visible Emissions</u> The Permittee shall report incidents of visible emissions in accordance with Permit Condition 4, Section III, Plant Wide Conditions, “Report of Excess Emissions and Deviations. B. <u>Operational Standards</u> The Permittee shall make records of the flame or flare pilot flame monitoring, of all periods of operation in which the flame or flare pilot is absent during those instances when the utility flare is being used while it is out-of-service, and of the control device vendor specifications available to the Department upon request. [Reference: COMAR 26.11.03.06C]

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Table IV – 3	
3.0	<u>Emissions Unit Number(s) – EU-03</u> Roadways and Operations began operation in 1982.
3.1	<u>Applicable Standards/Limits:</u> <u>Control of Particulate Matter – [COMAR 26.11.06.03D]</u> The Permittee shall not cause or permit any materials to be handled, transported, or stored, or a building, its appurtenances, or a road to be used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne.
3.2	<u>Testing Requirements:</u> <u>Control of Particulate Matter</u> The Permittee shall follow the Monitoring procedures in Section 3.3.
3.3	<u>Monitoring Requirements:</u> <u>Control of Particulate Matter</u> The Permittee shall prepare and update, as needed a best management practices plan that describes the procedures and methods that will be used to take reasonable precautions. The Permittee shall perform an inspection at minimum once a month to verify that best management practices are being implemented and that the precautions are sufficient to control particulate matter emissions. [Reference: COMAR 26.11.03.06]
3.4	<u>Record Keeping Requirements:</u> <u>Control of Particulate Matter</u> The Permittee shall maintain the plan and records of the dates and results of inspections for at least five (5) years and make them available to the Department upon request. [Reference: COMAR 26.11.03.06C]
3.5	<u>Reporting Requirements:</u> The Permittee shall report incidents of visible emissions in accordance with Permit Condition 4, Section III, “Report of Excess Emissions and Deviations.”

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Table IV – 4	
4.0	<u>Emissions Unit Number(s) – EU-04 & EU-05</u> One (1) tub grinder (Morbark) powered by a 860 hp diesel internal combustion engine. [MDE Registration No. 6-0252] One (1) horizontal grinder (Vermeer) powered by a 630 hp diesel internal combustion engine. [MDE Registration No. 9-0176]
4.1	<u>Applicable Standards/Limits:</u> A. <u>Control of Visible Emissions</u> (1) <u>COMAR 26.11.06.02C(1) – Visible Emission Standards.</u> “In Areas I, II, V, and VI a person may not cause or permit the discharge of emissions from any installation or building, other than water in an uncombined form, which is greater than 20 percent opacity. <u>COMAR 26.11.06.02A(2) – General Exceptions.</u> The visible emissions standards in §C of this regulation do not apply to emissions during start-up and process modifications or adjustments, or occasional cleaning of control equipment, if: (a) The visible emissions are not greater than 40 percent opacity; and (b) The visible emissions do not occur for more than 6 consecutive minutes in any 60-minute period.” FOR ENGINES ONLY (2) <u>Visible Emissions Limits for Stationary Internal Combustion Engine Powered Equipment [COMAR 26.11.09.05E]</u> (1) “Emissions During Idle Mode. A person may not cause or permit the discharge of emissions from any engine, operating at idle, greater than 10 percent opacity. (2) Emissions During Operating Mode. A person may not cause or permit the discharge of emissions from any engine, operating at other than idle conditions, greater than 40 percent opacity. (3) <u>Exceptions.</u> (a) Section E(2) does not apply for a period of 2 consecutive minutes after a period of idling of 15

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	consecutive minutes for the purpose of clearing the exhaust system. (b) Section E(2) does not apply to emissions resulting directly from cold engine start-up and warm-up for the following maximum periods: (i) Engines that are idled continuously when not in service: 30 minutes; (ii) All other engines: 15 minutes. (c) Section E(2) and (3) does not apply while maintenance, repair, or testing is being performed by qualified mechanics.” FOR ENGINES ONLY B. <u>Control of Sulfur Oxides from Fuel Burning Equipment</u> “A person may not burn, sell, or make available for sale any fuel with a sulfur content by weight in excess of or which otherwise exceeds the following limitations: (c) Distillate fuel oils, 0.3 percent;” [Reference: COMAR 26.11.09.07A(2)] C. <u>Operational Limit</u> (a) The Permittee shall only burn diesel fuel in the engines serving both tub and horizontal grinders unless the Permittee applies for and receives an approval or permit from the Department to burn an alternative fuel. [Reference: MDE PTC No. 015-0163-9-0176 issued on March 20, 2008, and MDE PTC No. 015-0163-6-0252 issued on May 20, 2005] (b) The engine shall be a nonroad engine, as defined in 40 CFR §1068.30, unless the Permittee complies with the stationary engine requirements of 40 CFR 60, Subpart III or Subpart JJJJ and 40 CFR 63, Subpart ZZZZ, as applicable, for the engine. <u>For the 630 Hp horizontal grinder</u> (c) The engine, which powers the horizontal grinder, shall operate no more than 728 hours for any 12-month rolling period. [Reference: MDE PTC No. 015-0163-9-0176 issued on March 20, 2008]

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	<u>For the 860 Hp tub grinder</u> (d) The engine, which powers the tub grinder, shall operate no more than 1440 hours for any 12-month rolling period. [Reference: MDE PTC No. 015-0163-6-0252 issued on May 20, 2005]
4.2	<u>Testing Requirements:</u> A. <u>Control of Visible Emissions</u> (1) <u>Visible Emissions Standards</u> See Record Keeping and Reporting Requirements in Section 4.3 and 4.4. FOR ENGINES ONLY (2) <u>Visible Emissions Limits for Stationary Internal Combustion Engine Powered Equipment</u> See Record Keeping and Reporting Requirements in Section 4.3 and 4.4. B. <u>Control of Sulfur Oxides from Fuel Burning Equipment</u> See Record Keeping and Reporting Requirements in Section 4.3 and 4.4. C. <u>Operational Limit</u> See Record Keeping and Reporting Requirements in Section 4.3 and 4.4.
4.3	<u>Monitoring Requirements:</u> A. <u>Control of Visible Emissions</u> (1) <u>Visible Emissions Standards</u> The Permittee shall properly operate and maintain the tub and horizontal grinders in a manner to minimize visible emissions. [Reference: COMAR 26.11.03.06C] FOR ENGINES ONLY (2) <u>Visible Emissions Limits for Stationary Internal Combustion Engine Powered Equipment</u> The Permittee shall properly operate and maintain engines in a manner to minimize visible emissions. [Reference: COMAR 26.11.03.06C]

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	<u>B. Control of Sulfur Oxides Emissions</u> The Permittee shall obtain a certification from the fuel supplier indicating that the fuel oil complies with the limitation on sulfur content of the fuel oil. [Reference: COMAR 26.11.03.06C] <u>C. Operational Limit</u> The Permittee shall properly monitor the operating hours for each of the engines powering the horizontal grinders.
4.4	<u>Record Keeping Requirements:</u> <u>A. Control of Visible Emissions</u> (1) <u>Visible Emissions Standards</u> The Permittee shall retain records of preventive maintenance on site for at least five years and make these records available to the Department upon request. [Reference: COMAR 26.11.03.06C] FOR ENGINES ONLY (2) <u>Visible Emissions Limits for Stationary Internal Combustion Engine Powered Equipment</u> The Permittee shall retain records of preventive maintenance on site for at least five years and make these records available to the Department upon request. [Reference: COMAR 26.11.03.06C] FOR ENGINES ONLY <u>B. Control of Sulfur Oxides Emissions</u> The Permittee shall retain annual fuel supplier certifications stating that the fuel oil is in compliance with this regulation must be maintained for at least five years. [Reference: COMAR 26.11.09.07C] <u>C. Operational Limit</u> The Permittee shall maintain for at least five (5) years, and shall make available to the Department upon request, records of the following information: (a) Operating hours for the engine that drives the horizontal grinders. (b) The Permittee shall report the amount of fuel oil combusted and engine operating hours as part of the annual emission certification.

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4.5	<u>Reporting Requirements:</u> A. <u>Control of Visible Emissions</u> (1) <u>Visible Emissions Standards</u> The Permittee shall retain report incidents of visible emissions in accordance with Permit Condition 4, Section III, Plant Wide Condition, “Report of Excess Emission and Deviations.” FOR ENGINES ONLY (2) <u>Visible Emissions Limits for Stationary Internal Combustion Engine Powered Equipment</u> The Permittee shall retain report incidents of visible emissions in accordance with Permit Condition 4, Section III, Plant Wide Condition, “Report of Excess Emission and Deviations.” FOR ENGINES ONLY B. <u>Control of Sulfur Oxides from Fuel Burning Equipment</u> The Permittee shall report annual fuel supplier certification to the Department upon request. [Reference: COMAR 26.11.09.07C] C. <u>Operational Limit</u> The Permittee shall report amount of fuel oil combusted and engine-operating hours as part of the annual emission certification. [Reference: COMAR 26.11.09.08G(e)]

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5.0	<u>Emissions Unit Number(s): EU-06</u> One (1) Caterpillar 609 Hp diesel fired emergency generator [Reg. No.- 9-0250]
5.1	<u>Applicable Standards/Limits:</u> A. <u>Visible Emissions Limitations</u> <u>COMAR 26.11.09.05 E. Stationary Internal Combustion Engine Powered Equipment.</u> (2) Emissions During Idle Mode. A person may not cause or permit the discharge of emissions from any engine, operating at idle, greater than 10 percent opacity.

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	(3) Emissions During Operating Mode. A person may not cause or permit the discharge of emissions from any engine, operating at other than idle conditions, greater than 40 percent opacity. (4) Exceptions. (a) Section E(2) of this regulation does not apply for a period of 2 consecutive minutes after a period of idling of 15 consecutive minutes for the purpose of clearing the exhaust system. (b) Section E(2) of this regulation does not apply to emissions resulting directly from cold engine start-up and warm-up for the following maximum periods: (i) Engines that are idled continuously when not in service: 30 minutes; (ii) All other engines: 15 minutes. (c) Section E(2) and (3) of this regulation do not apply while maintenance, repair, or testing is being performed by qualified mechanics. B. <u>Control of Sulfur Oxides</u> COMAR 26.11.09.07A(2)(b) which states, “a person may not burn, sell, or make available for sale any fuel with a sulfur content by weight in excess of or which otherwise exceeds the following limitation: distillate fuel oil, 0.3 percent.” C. <u>Control of Nitrogen Oxides</u> COMAR 26.11.09.08 G. - Requirements for Fuel-Burning Equipment with a Capacity Factor of 15 Percent or Less, and Combustion Turbines with a Capacity Factor Greater than 15 Percent. (1) A person who owns or operates fuel-burning equipment with a capacity factor (as defined in 40 CFR Part 72.2) of 15 percent or less shall: (a) Provide certification of the capacity factor of the equipment to the Department in writing; (b) For fuel-burning equipment that operates more than 500 hours during a calendar year, perform a combustion analysis and optimize combustion at least once annually;

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	(c) Maintain the results of the combustion analysis at the site for at least 2 years and make these results available to the Department and the EPA upon request; (d) Require each operator of an installation, except combustion turbines, to attend operator training programs at least once every 3 years, on combustion optimization that are sponsored by the Department, the EPA, or equipment vendors; and (e) Maintain a record of training program attendance for each operator at the site, and make these records available to the Department upon request. Note: The engine “operators” are considered the person(s) who conduct maintenance and/or combustion optimization of the engines. Note: <i>Capacity factor means either:</i> (1) The ratio of a unit's actual annual electric output (expressed in MWe/hr) to the unit's nameplate capacity (or maximum observed hourly gross load (in MWe/hr) if greater than the nameplate capacity) times 8760 hours; or (2) The ratio of a unit's annual heat input (in million British thermal units or equivalent units of measure) to the unit's maximum rated hourly heat input rate (in million British thermal units per hour or equivalent units of measure) times 8,760 hours. [Reference: 40 CFR Part 72.2] (2) COMAR 26.11.09.08B(5) states that; (a) for the purpose of COMAR 26.11.09.08, the equipment operator to be trained may be the person who maintains the equipment and makes the necessary adjustments for efficient operation; and (b) that the operator training course sponsored by the Department shall include an in-house training course that is approved by the Department. (3) COMAR 26.11.09.08K(3) which requires a person subject to this regulation to maintain annual fuel use records on site and make these records available to the Department upon request. [Reference: PTC 005-0282-9-1436 & 9-1437 N & COMAR 26.11.09.08] <u>D. Operational Limitations</u> (1) The Permittee must operate and maintain an NSPS emergency diesel generator and control devices according to the manufacturer's written instructions or according to procedures developed by the owner or operator that are approved by the manufacturer. Additionally the Permittee may change only those settings that are

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	permitted by the manufacturer. The Permittee must also meet the requirements of 40 CFR part 89, part 1039 for model year 2011 or later, part 94 and/or part 1068, as they may apply to an owner or operator [Ref: 40 CFR 60 Subpart IIII - §60.4211]. (2) Beginning October 1, 2010, owners and operators (the Permittee) of a stationary source CI ICE subject to this subpart with a displacement of less than 30 liters per cylinder that use diesel fuel must purchase diesel fuel that meets the requirements of 40 CFR 80.510(b) for nonroad diesel fuel. [Ref: 40 CFR 60 Subpart IIII - §60.4207]. (3) In accordance with 40 CFR §60.4211(e), non-emergency use of each NSPS emergency diesel generator for the purpose of maintenance checks and readiness testing is limited to 100 hours per year or less unless prior approval is received from the Department. [Reference: 40 CFR 60 Subpart IIII & PTC 005-0282-9-1436 & 9-1437 N]
5.2	<u>Testing Requirements:</u> A. <u>Control of Visible Emissions</u> {See Monitoring Condition 5.3A., below} B. <u>Control of Sulfur Oxides</u> {See Monitoring Condition 5.3B., below} C. <u>Control of Nitrogen Oxides</u> The Permittee shall perform engine maintenance and inspections in accordance with manufacturer's recommendations. Engine inspections, tuning, and adjustments shall be performed by a qualified mechanic and in accordance with the engines manufacturer's recommendations. [Reference: COMAR 26.11.03.06C] D. <u>Operational Limitations</u> {See Monitoring Condition 5.3D., below}
5.3	<u>Monitoring Requirements:</u> A. <u>Control of Visible Emissions</u> The Permittee shall properly operate and maintain the generators in accordance with the engines manufacturer's recommendations and in a manner to assure compliance with the visible emissions standards. [Reference: COMAR 26.11.03.06C]

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	<u>B. Control of Sulfur Oxides</u> The Permittee shall obtain a certification from the fuel supplier indicating that the oil complies with the limitation on the sulfur content of fuel oil [Reference: COMAR 26.11.03.06C]. <u>C. Control of Nitrogen Oxides</u> {See Record Keeping Condition 2.4 C} <u>D. Operational Limitations</u> The Permittee shall maintain on site for the life of the source the following records for the emergency diesel generator(s): (1) Documentation of the manufacture date of the diesel engine, if manufactured prior to April 1, 2006 and the manufacturer model year of the diesel engine; (2) The installation date of each emergency diesel generator; and (3) The certifications of compliance or manufacturer engine test data required by 40 CFR §60.4211 and §60.4214(b). [Reference: 40 CFR 60 Subpart IIII & PTC 005-0282-9-1436 & 9-1437 N]
5.4	<u>Record Keeping Requirements:</u> NOTE: All records must be maintained for a period of 5 years. [Reference: COMAR 26.11.03.06C(5)(g)] <u>A. Control of Visible Emissions</u> The Permittee shall maintain an operations manual and preventive maintenance plan. The Permittee shall maintain a log of maintenance performed that relates to combustion performance. [Reference: COMAR 26.11.03.06C] <u>B. Control of Sulfur Oxides</u> The Permittee shall maintain records of the all fuel oil certifications indicating that the oil complies with the limitations on sulfur content, and make them available to the Department upon request. Certification may include: i) a fuel supplier certification consisting of the name of the fuel oil supplier and a statement from the supplier that the fuel oil complies with specifications for kerosene; and/or ii) A certified statement signed by the authorized representative of the Facility, stating that the records of fuel supplier certifications

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	submitted represent all of the fuel oil combusted during the reporting period. iii) For any NSPS emergency diesel generator the Permittee shall <u>for each fuel delivery</u> obtain from the fuel supplier a fuel supplier certification consisting of the name of the oil supplier, <u>the date of delivery</u>, the <u>amount of fuel delivered</u>, and a statement from the fuel supplier that the diesel fuel oil complies with the specifications of 40 CFR §80.510. The Permittee shall maintain the required records on site for at least five (5) years. [Reference: COMAR 26.11.09.07A(2)(b) & PTC 005-0282-9-1436 & 9-1437 N] <u>C. Control of Nitrogen Oxides</u> The Permittee shall: (1) Maintain the records of the operations and maintenance plan and records of any engine maintenance and repairs on site. (2) Prepare and maintain a record of training program attendance for each operator at the site, and make these records available to the Department upon request. [Reference: COMAR 26.11.09.08G(1) & COMAR 26.11.03.06C] <u>D. Operational Limitations</u> The Permittee shall maintain on site for the life of the source the following records for the emergency diesel generator(s): (1) Documentation of the manufacture date of the diesel engine, if manufactured prior to April 1, 2006 and the manufacturer model year of the diesel engine; (2) The installation date of each emergency diesel generator; and (3) The certifications of compliance or manufacturer engine test data required by 40 CFR §60.4211 and §60.4214(b). [Reference: 40 CFR 60 Subpart IIII & PTC 005-0282-9-1436 & 9-1437 N]
5.5	<u>Reporting Requirements:</u> <u>A. Control of Visible Emissions</u> The Permittee shall report incidents of visible emissions in accordance with permit Condition 4, Section III, Plant Wide Conditions, "Report of Excess Emissions and Deviations".

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	B. <u>Control of Sulfur Emissions</u> The Permittee shall submit fuel supplier certifications to the Department upon request. [Reference: COMAR 26.11.09.07C] C. <u>Control of NOx Emissions</u> {See Record Keeping Condition 2.4 C.} D. <u>Operational Limitations</u> {See Record Keeping Condition 2.4 D.}

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SECTION V INSIGNIFICANT ACTIVITIES

This section provides a list of insignificant emissions units that were reported in the Title V permit application and also noted in the October 17, 2024 inspection report. The applicable Clean Air Act requirements, if any, are listed below the insignificant activity.

- (1) No. 6 Fuel burning equipment using gaseous fuels or no. 1 or no. 2 fuel oil, and having a heat input less than 1,000,000 Btu (1.06 gigajoules) per hour;
- Two (2) 30 MBH gas fired unit heaters
 - Two (2) 45 MBH gas fired unit heaters
 - Two (2) 75 MBH gas fired infrared heaters

COMAR 26.11.09.05A(1) - Fuel Burning Equipment.

"In Areas I, II, V, and VI, a person may not cause or permit the discharge of emissions from any fuel burning equipment, other than water in an uncombined form, which is greater than 20 percent opacity.

[COMAR 26.11.09.05A(3)] - Exceptions.

"Section A(1) and (2) of this regulation do not apply to emissions during load changing, soot

blowing, startup, or adjustments or occasional cleaning of control equipment if:

- (a) The visible emissions are not greater than 40 percent opacity; and
- (b) The visible emissions do not occur for more than 6 consecutive minutes in any sixty minute period."

- (2) X Equipment for drilling, carving, cutting, routing, turning, sawing, planing, spindle sanding, or disc sanding of wood or wood products;
- (3) Containers, reservoirs, or tanks used exclusively for:
- (a) X Storage of butane, propane, or liquefied petroleum, or natural gas;
 - (b) X Storage of lubricating oils
 - (c) X Storage of motor vehicle gasoline and having individual tank capacities of 2,000 gallons (7.6 cubic meters) or less;

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SECTION VI STATE-ONLY ENFORCEABLE CONDITIONS

The Permittee is subject to the following State-only enforceable requirements:

1. Applicable Regulations:

(A) **COMAR 26.11.06.08 – Nuisance**

“An installation or premises may not be operated or maintained in such a manner that a nuisance or air pollution is created. Nothing in this regulation relating to the control of emissions may in any manner be constructed as authorizing or permitting the creation of, or maintenance of, nuisance or air pollution.”

(B) **COMAR 26.11.06.09 – Odors**

“A person may not cause or permit the discharge into the atmosphere of gases, vapors, or odors beyond the property line in such a manner that a nuisance or air pollution is created.”

(C) **COMAR 26.11.15.05 – Control Technology Requirements**

“A person who complies with the ambient impact requirement in Regulation .06 of this chapter may not be affected by the amount of the installation’s stack height that exceeds good engineering practice (GEP), or by any other dispersion technique.

(3) Unless an existing installation is controlled using T-BACT, the degree of emission limitation required in order to demonstrate compliance with Regulation .06 of this chapter may not be affected by the amount of the installation’s stack height that exceeds good engineering practice (GEP), or by any other dispersion technique.”

(D) **COMAR 26.11.15.06 – Ambient Impact Requirement**

1. “Except as provided in §B(3) of this regulation, a person may not cause or permit the discharge of a toxic air pollutant listed in COMAR 26.11.16.07 from an existing installation or source if total allowable emissions of that TAP for the premises will unreasonably endanger human health.
2. A person shall demonstrate compliance with §B(1) of this regulation using the procedures established in Regulation .07 of this chapter and COMAR 26.11.16.
3. A person who owns or operates an existing premises shall meet the requirements of §B(1) and (2) of this regulation for each TAP listed in COMAR 26.11.16.07 by the applicable compliance dates listed in COMAR 26.11.16.07, or not later than 2 years after becoming subject to this chapter, whichever is later.”

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For the Flares Only

(E) **COMAR 26.11.42** – Control of Methane Emissions from Municipal Solid Waste Landfills.

COMAR 26.11.42.01(A) – Applicability and Exemptions.

“This chapter applies to a person who owns or operates a municipal solid waste (MSW) landfill that has accepted waste after November 8, 1987.”

COMAR 26.11.42.04(B)(3) – Requirements for Municipal Solid Waste (MSW) Landfills – MSW Landfills Greater Than or Equal to 450,000 Tons of Waste-in-Place.

“If the calculated methane generation rate is greater than or equal to 732 tons per year but less than 8,548 tons per year, the owner or operator shall either:

- (a) Install and operate a gas collection and control system in accordance with the provisions in Regulation .05 and comply with the requirements in Regulations .04 - .11 of this chapter; or
- (b) Undertake four consecutive quarterly surface emissions monitoring periods using the instantaneous surface emissions monitoring procedures specified in Regulation .11F of this chapter, in order to demonstrate that there is no measured concentration of methane of 200 parts per million by volume (ppmv) or greater.” Additional requirements related to this monitoring are specified in COMAR 26.11.42.04(B)(4-6).

COMAR 26.11.42.05(B)(2) – Standard and Requirements for Gas Collection and Control Systems. – Requirements for Enclosed Flares.

“(a) An owner or operator of a MSW landfill that routes landfill gas to an enclosed flare shall achieve a methane destruction efficiency of at least 99 percent by weight and meet the following specifications:

- (i) The device shall be equipped with automatic dampers, an automatic shutdown device, a flame arrester, and continuous recording temperature sensors; and
- (ii) The device shall have a sufficient flow of propane, natural gas, or another fuel source approved by the Department to the pilot light to prevent unburned collected methane from being emitted to the atmosphere during restart and startup.

(b) The owner or operator of a MSW landfill shall install, calibrate, operate and maintain the flare system in accordance with the manufacturer’s specifications

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and if applicable, within the parameter ranges established in the landfill's permit to construct issued by the Department.

(c) An owner or operator that used an enclosed flare shall install, calibrate, and maintain a gas flow rate measuring device that either records the flow to the control device at least every 15 minutes or secures the bypass line valve in the closed position with a car-seal or a lock-and-key type configuration."

(F) COMAR 26.11.42.05(B)(7)(a) thru (k) – Standard and Requirements for Gas Collection and Control Systems. – Performance Test Requirements.

"(a) The owner or operator shall conduct annual performance tests for any gas control device(s) subject to the requirements of §B(2), (3) & (4) of this regulation using the test methods identified in Regulation .11C of this chapter.

(b) An initial performance test shall be conducted within 180 days of start-up of the gas collection and control system.

(c) Following an initial performance test, the owner or operator shall conduct a complete annual performance test no later than 45 days following the 1-year anniversary date of the initial performance test.

(d) The owner or operator of an existing gas control device shall demonstrate compliance with this regulation no later than 180 days following the effective date of this regulation in accordance with the test methods and procedures specified in Regulation .11C of this regulation.

(e) The owner or operator shall conduct performance tests under conditions specified by the Department based on representative performance of the affected source for the period being tested.

(f) Representative conditions shall exclude periods of startup and shutdown unless specified by the Department.

(g) The owner or operator may not conduct performance tests during periods of malfunction.

(h) The owner or operator shall record the process information that is necessary to document operating conditions during the test and include in such record an explanation to support that such conditions represent normal operation.

(i) The owner or operator shall make available records necessary to determine the conditions of performance tests available upon request by the Department.

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- (j) If a gas control device remains in compliance after three consecutive performance tests, the owner or operator may conduct the performance test every 3 years.
- (k) Once a gas control device is placed on the 3-year performance test schedule, if a subsequent performance test shows the gas collection and control system is out of compliance with the requirements of this regulation, the performance testing frequency shall return to annual."

(G) COMAR 26.11.42.09(B)(1) – Monitoring Requirements and Corrective Actions. – Gas Control System Equipment Monitoring.

"The owner or operator shall monitor the gas control system using the following procedures:

- (1) For enclosed combustors (including enclosed flares), the following equipment shall be installed, calibrated, maintained, and operated according to the manufacturer's specifications:
 - (a) A temperature monitoring device equipped with a continuous recorder which has an accuracy of plus or minus ($\pm$) 1 percent of the temperature being measured expressed in degrees Celsius or Fahrenheit; and
 - (b) A device which records the gas flow to the control device(s) and bypass of the control device. The owner or operator shall:
 - (i) Install, calibrate, and maintain a gas flow rate measuring device that records the flow to the control device at least every 15 minutes;
 - (ii) Secure the bypass line valve in the closed position with a car-seal or a lock-and-key type configuration; and
 - (iii) Perform a visual inspection of the seal or closure mechanism at least once every month to ensure that the valve is maintained in the closed position and that the gas flow is not diverted through the bypass line.
 - (c) A temperature monitoring device is not required for boilers and process heaters with a design heat input capacity of 44 megawatts (150 MMBtu/hr) or greater."

(H) COMAR 26.11.42.09(B)(9) – Monitoring Requirements and Corrective Actions. – Gas Control System Equipment Monitoring.

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“For a gas treatment system, the following equipment shall be installed, calibrated, maintained, and operated according to the manufacturer’s specifications:

- (a) A device which records the gas flow to the treatment system and bypass if applicable.
- (b) The owner or operator shall:
 - (i) Install, calibrate, and maintain a gas flow rate measuring device that records the flow to the treatment system at least every 15 minutes;
 - (ii) Secure the bypass line valve in the closed position with a car-seal or a lock-and-key type configuration; and
 - (iii) Perform a visual inspection of the seal or closure mechanism at least once every month to ensure that the valve is maintained in the closed position and that the gas flow is not diverted through the bypass line.”

(l) **COMAR 26.11.42.10 – Recordkeeping and Reporting Requirements.**

COMAR 26.11.42.10B(1)(a), (b), and (m) – Recordkeeping Requirements.

“An owner or operator of a MSW landfill shall maintain the following records for at least 5 years:

- (a) All gas collection system downtime exceeding 5 days, including dates of downtime, individual well shutdown and disconnection times, the reason for the downtime, and any corrective actions conducted in response to the downtime;
- (b) All gas control system downtime in excess of 1 hour, the reason for the downtime, and the length of time the gas control system was shut down, and any corrective actions conducted in response to the downtime;”
.....
- (m) Records of the gas control system equipment operating parameters specified to be monitored under Regulation .09B of this chapter as well as records for periods of operation during which the parameter boundaries established during the most recent performance test are exceeded. The records shall include the following information:

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- (i) For enclosed flares, all 3-hour periods of operation during which the average temperature difference was more than 28°C (50° F) below the average combustion temperature during the most recent performance test at which compliance with Regulations .05B(2) and (3) of this chapter was determined;”

COMAR 26.11.42.10C – Reporting Requirements.

COMAR 26.11.42.10C(2) – Equipment Removal Report.

- “(a) A gas collection and control system equipment removal report shall be submitted to the Department 30 days prior to well capping, removal, or cessation of operation of the gas collection, treatment, or control system equipment.
- (b) The report shall contain the following information:
 - (i) A copy of the closure notification submitted to the Department in accordance with §C(1) of this regulation;
 - (ii) A copy of the initial performance test report or other documentation demonstrating that the gas collection and control system has been installed and operated for a minimum of 15 years, unless the owner or operator can demonstrate that due to declining methane rates the MSW landfill is unable to operate the gas collection and control system for a 15-year period;”

(J) COMAR 26.11.42.10C(7) – Performance Test Report.

- “(a) For a control system designed and operated to meet the requirements of this chapter, the owner or operator shall submit a Performance Test Report to the Department that establishes the reduction efficiency or parts per million by volume no later than 180 days after the initial startup of the approved control system using EPA Method 25 or 25C, 40 CFR Part 60, Appendix A.
- (b) The owner or operator shall submit any additional performance test reports to the Department within 30 days after the date of completing each performance test, including any associated fuel analyses.”
- (c) The performance test report shall include the following information:
 - (i) A diagram of the collection system showing collection system positioning including all wells, horizontal collectors, surface

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collectors, or other gas extraction devices, all areas excluded from collection, and the proposed sites for the future collection system expansion;

- (ii) The data upon which the sufficient density of wells, horizontal collectors, surface collectors, or other gas extraction devices and the gas mover equipment sizing are based;
- (iii) The documentation of the presence of asbestos or non-decomposable material for each area from which collection wells have been excluded based on the presence of asbestos or non-decomposable material;
- (iv) The sum of the gas generation flow rates for all areas from which collection wells have been excluded based on nonproductivity and the calculations of gas generation flow rate for each excluded area;
- (v) The process for increasing gas mover equipment capacity with increased gas generation flow rate, if the present gas mover equipment is inadequate to move the maximum flow rate expected over the life of the landfill; and
- (vi) The process for controlling off-site migration.”

The Permittee shall follow the reporting procedures listed in COMAR 26.11.42.10 (A) and (A-1). Test results, reports, or other information, unless otherwise specified by the Department shall be submitted to:

Program Manager
Air Quality Compliance Program
Maryland Department of the Environment
1800 Washington Boulevard, Suite 715
Baltimore, Maryland 21230
410-537-4225

Or electronically to:

MDEAIR.OTHERCOMPLIANCE@maryland.gov
[Reference: COMAR 26.11.42.10 (A) and (A-1)]

(K) COMAR 26.11.42.11(C)(1) – Test Methods and Procedures. – Determination of Control Device Destruction Efficiency.

“The following methods of analysis shall be used to determine the efficiency of the control device in reducing methane:

- (1) Enclosed Combustors. One of the following test methods shall be used to determine the efficiency of the control device in reducing methane by at least 99 percent, or in reducing the outlet methane concentration for lean burn engines to less than 3,000 ppmv, dry basis, corrected to 15 percent oxygen:

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- (a) U.S. EPA Reference Method 18, Measurement of Gaseous Organic Compound Emissions by Gas Chromatography;
- (b) U.S. EPA Reference Method 25, Determination of Total Gaseous Nonmethane Organic Emissions as Carbon;
- (c) U.S. EPA Reference Method 25A, Determination of Total Gaseous Organic Concentration Using a Flame Ionization Analyzer; or
- (d) U.S. EPA Reference Method 25C, Determination of Nonmethane Organic Compounds in Landfill Gases.”

2. Record Keeping and Reporting:

The Permittee shall submit to the Department, by April 1 of each year during the term of this permit, a written certification of the results of an analysis of emissions of toxic air pollutants from the Permittee's facility during the previous calendar year. The analysis shall include either:

- (a) a statement that previously submitted compliance demonstrations for emissions of toxic air pollutants remain valid; or
- (b) a revised compliance demonstration, developed in accordance with requirements included under COMAR 26.11.15 & 16, that accounts for changes in operations, analytical methods, emissions determinations, or other factors that have invalidated previous demonstrations.

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BACKGROUND

The Cecil County Central Landfill (Central Landfill) is a municipal solid waste (MSW) landfill located at 758 East Old Philadelphia Road, Elkton, Maryland, serving Cecil County. The facility is owned and operated by the Cecil County Department of Public Works (CCDPW). The Landfill began accepting waste in 1982. It accepts domestic, municipal, industrial, agricultural, silvicultural, construction, and asbestos-containing waste. The SIC code for the landfill is 4953.

The landfill is divided into a total of nine (9) permitted cells but only 4 have been constructed (Cells 1,2,4 and 5). Cell 1 is closed and Cells 2,4, and 5 are currently being filled with municipal waste. Upon completion of filling in those active cells, the remaining permitted cells (Cells 3, 6,7, 8, and 9) will be constructed for future waste disposal. The facility operated passive landfill gas flares (candlestick) that were installed to control odors and gas migration. The facility replaced the passive flaring system in 2006 with an active landfill gas collection system provided with an open flare. This new system was permitted with a modification to the original permit to construct (PTC No. 015-9-0163 M, issued in 2007). Landfill leachate collection occurs at the premises. The leachate is collected and gravity-fed from the landfill to a Publicly Owned Treatment Works (POTW).

A landfill is automatically subject to Part 70 operating permit requirements, if it has a design capacity of at least 2.75 million tons, regardless of whether or not it is a major stationary source. A landfill expansion capacity permit was issued by MDE-LMA on April 23, 2014. As a result of that expansion approval, the Central Landfill has a design capacity of 14 million tons of waste, and therefore is subject to the Title V permitting requirements.

The NSPS requirements apply to a MSW landfill that commenced construction, reconstruction or modification or began accepting waste on or after May 30, 1991. As an NSPS landfill with a maximum design capacity equal to or greater than 2.5 million megagrams or 2.75 million tons, the Permittee can either install a landfill gas collection and control system and comply with the testing, monitoring, record keeping, and reporting requirements, or calculate the landfill's NMOC emission rate using the three-tier approach. If the resulting NMOC mass emission rate is less than 34 megagrams per year, then the owner or operator must submit a periodic estimate of NMOC emissions in an NMOC emission rate report according to § 62.16724(c) and must recalculate the NMOC mass emission rate annually as required under § 62.16714(e). The site-specific NMOC concentration must be retested every 5 years using the methods specified in this section. If the calculated NMOC emissions are equal to or greater than 34 megagrams per year (Mg/yr), the Permittee is required to install a landfill gas collection and control system and comply with the testing, monitoring, record keeping, and reporting requirements.

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EPA promulgated national emission standards for hazardous air pollutants for existing and new municipal solid waste (MSW) landfills- 40 CFR Part 63 - Subpart AAAA. The Central Landfill is subject to these MACT requirements because it is a MSW landfill that has accepted waste since November 8, 1987 and is an area source landfill that has a design capacity equal to or greater than 2.5 million cubic meters that was not permanently closed as of January 16, 2003. The Central Landfill must comply with the MACT requirements, if the facility NMOC emissions exceed 50 Mg/year.

The Central Landfill conducted a sampling procedure to determine site-specific NMOC concentration and to estimate NMOC emissions (Tier II testing) May 17, 2022 with a resulting average NMOC concentration of 355 ppmv as hexane.

The facility projected a NMOC generation rate for 2027 to be around 34 Mg/yr using the Landfill gas emission model (LandGEM) and NMOC concentration of 355 ppmv from Tier 2 sampling. Cecil County Central Landfill will be subject to the requirements specified in section 1.A , if calculated NMOC emissions increase to 34 megagrams (37 tons) per year or more.

Regulatory Update

Following the issuance of Federal Implementation Plan (FIP) for the requirements of 40 CFR 60 subpart Cf, the facility is now subject to 40 CFR 62 Subpart OOO with effect from June 21, 2021 In compliance with the requirement in COMAR 26.11.42 which became effective on June 12, 2023, the facility submitted the 2022 Waste In Place and Methane Generation Report. As of December 31, 2022, the Waste In Place was 2,199,755 tons and the Methane Generation rate was 4,775 tons/year.

The Central Landfill is subject to Subpart Cf since it is an existing landfill constructed on or before July 17, 2014 and accepted waste after November 8, 1987. The most significant change that has been included in the new regulations is a decrease in the non-methane organic compounds (NMOC) emission rate threshold that triggers the requirement to install and operate a landfill gas collection and control system (GCCS). EPA decreased the NMOC threshold from 50 Mg/yr to 34 Mg/yr. Closed landfills remain subject to the 50 Mg/yr threshold. EPA retained the same design capacity size thresholds of 2.5 million Mg/yr and 2.5 million cubic meters as has been the case.

The current Title V permit for Cecil County Central Landfill will expire on June 30, 2025. On May 2024 the Department received a Part 70 renewal permit application for Cecil County Central Landfill. An administrative completeness

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review was conducted and the application was deemed to be complete. The completeness determination letter was sent on June 01, 2024 granting the facility an application shield.

The following table summarizes the actual emissions from the Cecil County Central Landfill based on its Annual Emission Certification Reports:

Table 1: Actual Emissions:

Year	NOx (TPY)	SOx (TPY)	PM10 (TPY)	CO (TPY)	VOC (TPY)
2025	2.99	0.85	7.36	13.15	6.63
2024	3.37	0.69	6.91	15.71	8
2023	5.89	0.88	7.06	16.05	7.28
2022	4.33	0.89	6.90	18.89	5.95
2021	5.84	1.44	6.91	25.68	2.79

The following table summarizes the emission calculation and projected actual facility-wide emissions for 2025 - 2030, per the NMOC Emission Rate Report submitted April 1, 2026.

Table 2: Summary of projected NMOC generation rates*

Year	NMOC (Mg/yr)
2025	33.26
2026	33.68
2027	34.10
2028	34.52
2029	34.94
2030	35.37

*NMOC emissions are reported in the NMOC Emission Rate Report (April 1, 2026) using Clean Air Act (CAA) default values in the LandGEM model and site-specific NMOC concentration (355 ppmv as hexane, based on Tier 2 test report dated May 2022).

Cecil County is located in Area VI, which is classified as an ozone attainment area. The major emissions source thresholds for triggering Title V permitting for this area under Part 70 are the potential to emit of 25 TPY of VOC, 10 TPY of any single HAP, 25 TPY of any combination of HAPs, or 100 TPY of any other criteria pollutant.

MACT

EPA promulgated national emission standards for hazardous air pollutants for existing and new municipal solid waste (MSW) landfills- 40 CFR Part 63 - Subpart AAAA. Cecil County Central Landfill is subject to these MACT requirements

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because it is an MSW landfill that has accepted waste after November 8, 1987 and is an area source landfill that has a design capacity equal to or greater than 2.5 million cubic meters that was not permanently closed as of January 16, 2003. Cecil County Central Landfill must comply with the MACT requirements when facility emissions exceed 50 Mg/year (currently they do not exceed this threshold).

CAM Analysis

Compliance Assurance Monitoring (CAM) 40 CFR, Subpart 64 applies to any emission unit at a Title V source that meets the following criteria:

- The emission unit is subject to a federally enforceable emission limit or standard for a regulated pollutant;
- The emission unit uses a control device to achieve compliance with any such emission limitation;
- The emission unit has the potential to emit pre-control device emissions of the applicable regulated air pollutant that are equal to or greater than 100 percent of the amount, in tons per year required for a source to be classified as a major source and must not otherwise be exempt from CAM.

Cecil County Central Landfill is not a major source of air pollutants, but it has a design capacity which is greater than the 2.75 million tons threshold, making it subject to the Title V permitting requirements. However, the Central Landfill voluntarily installed a LFG control system to capture methane emissions produced through waste decomposition.

The landfill itself is not subject to limitations on the emissions of Particulate, sulfur oxides, nitrogen oxides, or VOCs. In addition, potential uncontrolled emission levels are well below the major threshold.

The Central Landfill maintains a flare, a tub grinder, and a horizontal grinder at the premises. These emission units are not subject to limitations on the emissions of particulate, sulfur oxides, nitrogen oxides, and/or VOC. No control devices are employed to control particulate, sulfur oxides, nitrogen oxides, or VOC. CAM requirements, therefore, are not applicable to these units.

GREENHOUSE GAS (GHG) EMISSION STATEMENT

There are no greenhouse gas related Clean Air Act requirements applicable to Cecil County Central Landfill. Furthermore, the Central Landfill has not triggered Prevention of Significant Deterioration (PSD) requirements for GHG emissions.

Cecil County Central Landfill emits the following greenhouse gases (GHGs) related to Clean Air Act requirements: carbon dioxide and methane. These GHGs originate from various processes (i.e., waste decomposition and landfill gas

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fugitives) contained within the facility premises applicable to the Central Landfill. The facility has not triggered Prevention of Significant Deterioration (PSD) requirements for GHG emissions; therefore, there are no applicable GHG Clean Air Act requirements. Furthermore, the Permittee shall quantify facility wide GHG emissions and report them in accordance with Section 3 of the Part 70 permit.

The following Table 3 summarizes the actual emissions from the Central Landfill based on emission estimates in the 2025 Annual Emission Certification Report:

Table 3: Greenhouse Gases Emissions Summary (Year 2025)

GHG	2025 tpy	Conversion factor	2025 tpy CO_{2eq}
Carbon dioxide, CO ₂	20,629	1	20,629
Methane, CH ₄	2,955	25	73,875
Nitrous Oxide, N ₂ O	0.04	298	12
Total GHG, CO _{2eq}			94,516

Note: the N₂O, HFCs, PFCs, and SF₆ emissions from fugitive LFG are not quantified due to the absence of AP-42 emission factors.

EMISSION UNIT IDENTIFICATION

The following emission units have been identified at Cecil County Central Landfill, as being subject to the Title V permitting requirements and having applicable requirements:

Table 4: Emission Unit Identification

Emissions Unit Number	MDE Registration Number	Emissions Unit Description	Date of Registration
EU01	9-0096	Municipal solid waste landfill (MSW) provided with an active gas collection and control system with an active open flare.	Landfill began operation in 1982.
EU02	9-0096	One (1) open flare rated at 2,000 scfm.	PTC modification issued on April 17, 2007.

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Emissions Unit Number	MDE Registration Number	Emissions Unit Description	Date of Registration
EU03	N/A	Roadways and Operations	Landfill began operation in 1982.
EU04	6-0252	One (1) tub grinder, powered by a 860 Hp diesel engine.	May 20, 2005
EU05	9-0176	One (1) horizontal grinder, powered by a 630 Hp diesel engine.	May 20, 2008
EU06	9-0250	One (1) Caterpillar 609 Hp diesel fired emergency generator	February 2026

AN OVERVIEW OF THE PART 70 PERMIT

Section I of the Part 70 Permit contains a brief description of the facility and an inventory list of the emissions units for which applicable requirements are identified in Section IV of the permit.

Section II of the Part 70 Permit contains the general requirements that relate to administrative permit actions. This section includes the procedures for renewing, amending, reopening, and transferring permits, the relationship to permits to construct and approvals, and the general duty to provide information and to comply with all applicable requirements.

Section III of the Part 70 Permit contains the general requirements for testing, record keeping and reporting; and requirements that affect the facility as a whole, such as open burning, air pollution episodes, particulate matter from construction and demolition activities, asbestos provisions, ozone depleting substance provisions, general conformity, and acid rain permit. This section includes the requirement to report excess emissions and deviations, to submit an annual emissions certification report and an annual compliance certification report, and results of sampling and testing.

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Section IV of the Part 70 Permit identifies the emissions standards, emissions limitations, operational limitations, and work practices applicable to each emissions unit located at the facility. For each standard, limitation, and work practice, the permit identifies the basis upon which the Permittee will demonstrate compliance. The basis will include testing, monitoring, record keeping, and reporting requirements. The demonstration may include one or more of these methods.

Section V of the Part 70 Permit contains a list of insignificant activities. These activities emit very small quantities of regulated air pollutants and do not require a permit to construct or registration with the Department. For insignificant activities that are subject to a requirement under the Clean Air Act, the requirement is listed under the activity.

Section VI of the Part 70 Permit contains State-only enforceable requirements. Section VI identifies requirements that are not based on the Clean Air Act, but solely on Maryland air pollution regulations. These requirements generally relate to the prevention of nuisances and implementation of Maryland's Air Toxics Program.

REGULATORY AND TECHNICAL REVIEW/COMPLIANCE METHODOLOGY

Emission Unit: EU-01

Active municipal solid waste landfill with a design capacity of 14 million tons of MSW equipped with an active gas collection system and control system with an open flare. (MDE Registration No. 9-0096)

- 1. The New Source Performance Standard (NSPS) for Landfills (40 CFR §62 Subpart OOO) only requires the Cecil County Central Landfill to calculate NMOC emissions until calculations show emissions to be equal to or greater than 34 megagrams (37 tons) per year:**

Cecil County Central Landfill is subject to the testing, record keeping, and reporting requirements indicated below.

"If the resulting NMOC mass emission rate is less than 34 megagrams per year, then the owner or operator must submit a periodic estimate of NMOC emissions in an NMOC emission rate report according to § 62.16724(c) and must recalculate the NMOC mass emission rate annually as required under § 62.16714(e). The site-specific NMOC concentration must be retested every 5 years using the methods specified in this section. **[Reference: 40 CFR §62.16718(a)(3)(iii)]**

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The Permittee shall keep all the records required under this permit for at least five (5) years and shall make such records available to the Department upon request. **[Reference: COMAR 26.11.03.06C]**

If the Permittee increases the maximum design capacity of the Cecil County Central Landfill after November 1, 1997, the Permittee shall amend and resubmit the design capacity report within 90 days of the issuance of an air quality Permit to Construct or a permit from the MDE Land Management Administration that authorizes the increase or any other change that increases the maximum design capacity of the landfill. **[Reference: 40 CFR§62.16724(a)]**

The Permittee shall estimate the annual NMOC emission rate calculated using the formula and procedures as described in 40 CFR §62.16718(a). **[Reference: 40 CFR§62.16718(a)]**

The Permittee may, upon approval by the Department, submit a combined report to satisfy the NMOC reporting requirements and the annual Emissions Certification requirements. **[Reference: 40 CFR§62.16724(a)&(c)]**

1A. Cecil County Central Landfill will be subject to the following requirements, if calculated NMOC emissions increase to 34 megagrams (37 tons) per year or more:

A. Standards for Air Emissions

Standards for municipal solid waste landfill emissions – [40 CFR 62.16714]

“The owner or operator of an MSW landfill having a design capacity equal to or greater than 2.5 million megagrams and 2.5 million cubic meters must either install a collection and control system as provided in paragraphs (b) and (c) of this section or calculate an initial NMOC emission rate for the landfill using the procedures specified in § 62.16718(a). The NMOC emission rate must be recalculated annually, except as provided in § 62.16724(c)(3).

(1) If the calculated NMOC emission rate is less than 34 megagrams per year, the owner or operator must:

(i) Submit an annual NMOC emission rate report according to § 62.16724(c), except as provided in § 62.16724(c) (3); and

(ii) Recalculate the NMOC emission rate annually using the procedures specified in § 62.16724(a) until such time as the calculated NMOC

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emission rate is equal to or greater than 34 megagrams per year, or the landfill is closed.

- (A) If the calculated NMOC emission rate, upon initial calculation or annual recalculation required in paragraph (e)(1)(ii) of this section, is equal to or greater than 34 megagrams per year, the owner or operator must either: Comply with paragraphs (b) and (c) of this section; calculate NMOC emissions using the next higher tier in § 62.16718; or conduct a surface emission monitoring demonstration using the procedures specified in § 62.16718(a)(6).
- (B) If the landfill is permanently closed, a closure report must be submitted to the Administrator as provided in § 62.16724(f), except for exemption allowed under § 62.16711(g)(4).
- (2) If the calculated NMOC emission rate is equal to or greater than 34 megagrams per year using Tier 1, 2, or 3 procedures, the owner or operator must either: Submit a collection and control system design plan prepared by a professional engineer to the Administrator within 1 year as specified in § 62.16724(d), except for exemptions allowed under § 62.16711(g)(3); calculate NMOC emissions using a higher tier in § 62.16718; or conduct a surface emission monitoring demonstration using the procedures specified in § 62.16718(a)(6)."

Particulate Matter from Materials Handling and Construction

"The Permittee shall not cause or allow any material to be handled, transported, or stored; or a building, its appurtenances; or a road to be used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne."

[Reference: COMAR 26.11.06.03D(2)]

Compliance Demonstration

[Reference: 40 CFR 62.16718 and 62.16720]

To comply with the testing requirements, the Permittee shall use the methods specified in §62.16720(a)(1) through (6) to determine whether the gas collection system is in compliance with the requirements for an active collection system in §62.16714(b)(2). **[Reference: 40 CFR 62.16720(a)]**

To comply with the monitoring requirements, the Permittee shall operate and monitor the gas system in accordance with 40 CFR 62.16722, and the permit condition listed in Section IV.1.3.B. **[Reference: 40 CFR 62.16722]**

To comply with Record Keeping requirements, the Permittee shall keep for the life of the collection system an up-to-date, readily accessible plot map showing each existing and planned collector in the system and providing a unique identification location for each collector as specified in

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§62.16726(d)(1) and (2). **[Reference: 40 CFR 62.16726(d)]** Also, the Permittee shall keep up-to-date, readily accessible records for the life of the control equipment of the data listed in §62.16726(b)(1) as measured during the initial performance test. Records of subsequent tests or monitoring shall be maintained for a minimum of 5 years. **[Reference: 40 CFR 62.16726(b)]** To comply with Reporting requirements, the Permittee shall follow the procedures listed in Section 1A.5, "Reporting Requirements, Standards for Air Emissions." **[Reference: 40 CFR 62.16724(g), and 40 CFR 62.16724(f)]**

B. Operational Standards

[Reference: 40 CFR 62.16716]

- (1) The Permittee shall operate the gas collection and control system such that landfill gas is collected from each area, cell, or group of cells in the MSW landfill in which solid waste has been in place for 5 years or more if active; or 2 years or more if closed or at final grade. **[Reference: 40 CFR 62.16714(b)(2)(ii) and 62.16716(a)]**
- (2) The Permittee shall operate the collection system with negative pressure at each wellhead except under the conditions specified in §62.16716(b)(1) - (3). **[Reference: 40 CFR 62.16716(b)]**
- (3) The Permittee shall operate each interior wellhead in the collection system with a landfill gas temperature less than 55° C. The Permittee may establish a higher operating temperature at a particular well as provided for in §62.16716(c). **[Reference: 40 CFR 62.16716(c)]**
- (4) The Permittee shall operate the collection system so that the methane concentration is less than 500 parts per million above background at the surface of the landfill. To determine if this level is exceeded, the Permittee shall conduct surface testing around the perimeter of the collection area and along a pattern that traverses the landfill as provided for in §62.16716(d). **[Reference: 40 CFR 62.16716(d)]**
- (5) In the event the collection or control system is not operating, the Permittee shall shut down the gas mover system and shall close, within one hour, all valves in the collection and control system contributing to venting of the gas to the atmosphere. **[Reference: 40 CFR 62.16716(e)]**
- (6) The Permittee shall operate the control system at all times when the collected gas is routed to the system. **[Reference: 40 CFR 62.16716(f)]**
- (7) The Permittee must take corrective actions if the requirements in §62.16720(a)(3) and (5) or §62.16720(c) of 40 CFR 62, Subpart OOO if

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monitoring demonstrates that the operational requirements in §62.16716(b), (c), or (d) are not met. If corrective actions are taken as specified in §62.16720, the monitored exceedance is not a violation of the operational requirements in §62.16716. **[Reference: 40 CFR 62.16716(g)]**

- (8) The Permittee shall take reasonable precautions, including the application of water on unpaved roads and other surfaces, to prevent particulate matter from becoming airborne. **[Reference: COMAR 26.11.06.03D(2)]**

Compliance Demonstration

The Permittee shall demonstrate compliance with the testing requirements by following the procedures listed under the Section 1.3.B "Monitoring Requirements." Also, the nitrogen and oxygen level shall be determined as prescribed in 40 CFR 62.16722(a)(2). **[Reference: 40 CFR 62.16722(a)(2)]**

The monitoring requirements should be implemented following the recommendations stated in the Section 1.3.B "Operational Standards."

[Reference: 40 CFR 62.16720 thru 16722] To comply with Record Keeping requirements, the Permittee shall follow the procedures listed in Section 1.4.B, "Record Keeping Requirements, Standards for Air Emissions."

[Reference: 40 CFR 62.16716(b)(1), 16726(c) and 16726(e)] To comply with Reporting requirements, the Permittee shall follow the procedures listed in Section 1.5.B, "Reporting Requirements, Standards for Air Emissions."

[Reference: 40 CFR 62.16724(h)]

C. Other Requirements

The provisions of this subpart apply at all times, including periods of startup, shutdown, or malfunction. During periods of startup, shutdown, and malfunction, you must comply with the work practice specified in § 62.16716(e) in lieu of the compliance provisions in § 62.16720. **[Reference: 40 CFR 62.16720(e)]**

Compliance Demonstration

The Permittee shall demonstrate compliance with the testing requirements by following the procedures listed under Record Keeping and Reporting Requirements in Section 1A.4 and 1A.5. The monitoring requirements should be implemented following the recommendations listed under Record Keeping and Reporting Requirements in Section 1A.4 and 1A.5. Record Keeping requirements are listed in Section 1.4A. as, "(1) Except as provided in §62.16724(d)(2), the Permittee shall keep for at least 5 years up-to-date, readily accessible, on-site records of the design capacity report which triggered §62.16714(e), the current amount of solid waste in-place, and the year-by-year waste acceptance rate. Off-site records may be maintained if they are retrievable within 4 hours. Either paper copy or electronic formats are acceptable. **[Reference: 40CFR 62.16726(a)]** (2) Except as provided in

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§62.16724(d)(2), the Permittee shall keep for 5 years up-to-date, readily accessible records for periods of operation during which the parameter boundaries established during the most recent performance test are exceeded. **[Reference: 40 CFR 62.16726(c)]**

(3) The Permittee shall keep up-to-date, readily accessible continuous records of the indication of flow to the control device or the indication of bypass flow or records of monthly inspections of car-seals or lock and- key configurations used to seal bypass lines, specified under §62.1672. **[Reference: 40 CFR 62.16726(c)(2)]**

To comply with reporting requirements, the Permittee shall submit an annual NMOC emission rate report to the Administrator. The report is due on the anniversary of the Permittee's initial submittal of the NMOC report as required in 40 CFR 62.16724(c). **[Reference: 40 CFR 62.16724(c)]**

- 1B.** Active municipal solid waste landfill with a design capacity of 14 million tons of MSW equipped with an active gas collection system and control system with an open flare. **(MDE Registration No. 9-0096)**

Applicable Standards/Limits:

Subpart AAAA – National Emission Standard for Hazardous Air Pollutants: Municipal Solid Waste Landfills.

Applicability

“You are subject to this subpart if you own or operate a MSW landfill that has accepted since November 8, 1987 or has additional capacity for waste disposition and meets any one of the three criteria in paragraphs (a)(1) through (3) of this section: (3) Your MSW landfill is an area source landfill that has a design capacity equal to or greater than 2.5 million megagrams (Mg) and 2.5 million cubic meters (m³) and has estimated uncontrolled emissions equal to or greater than 50 megagrams per year (Mg/yr) NMOC as calculated according to §60.754(a) of the MSW landfills new source performance standards in 40 CFR part 60, subpart WWW, the Federal plan, or an EPA approved and effective State or tribal plan that applies to your landfill.” **[Reference: 40.CFR §63.1935(a)(3)]**

“If your landfill is an existing affected source and is an area source meeting the criteria in §63.1935(a)(3), you must comply with the requirements in §§63.1955(b) and 63.1960 through 63.1980 by the date your landfill is required to install a collection and control system by 40 CFR 60.752(b)(2) of subpart WWW, the Federal plan, or EPA approved and effective State or tribal plan that applies

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to your landfill or by January 16, 2004, whichever occurs later.” **[Reference: 40.CFR §63.1945(f)]**

Standards

“If you are required by 40 CFR 60.752(b)(2) of subpart WWW, the Federal plan, or an EPA approved and effective State or tribal plan to install a collection and control system, you must comply with the requirements in §§63.1960 through 63.1985 and with the general provisions of this part specified in table 1 of this subpart.” **[Reference: 40.CFR §63.1955(b)]**

General and Continuing Compliance Requirements

“Compliance is determined in the same way it is determined for 40 CFR Part 60, subpart WWW, including performance testing, monitoring of the collection system, continuous parameter monitoring, and other credible evidence. In addition, continuous parameter monitoring data, collected under 40 CFR 60.756(b)(1), (c)(1), and (d) of subpart WWW, are used to demonstrate compliance with the operating conditions for control systems. If a deviation occurs, you have failed to meet the control device operating conditions described in this subpart and have deviated from the requirements of this subpart. Finally, you must develop and implement a written SSM plan according to the provisions in 40 CFR 63.6(e)(3). A copy of the SSM plan must be maintained on site. Failure to write, implement, or maintain a copy of the SSM plan is a deviation from the requirements of this subpart.” **[Reference: 40.CFR §63.1960]**

Compliance Demonstration

“Keep records and reports as specified in 40 CFR Part 60, Subpart WWW, or in the Federal plan, EPA approved State plan or tribal plan that implements 40 CFR Part 60, Subpart Cc, whichever applies to your landfill, with one exception: You must submit the annual report described in 40 CFR 60.757(f) every 6 months.” **[Reference: 40.CFR §63.1980(a)]**

“You must also keep records and reports as specified in the general provisions of 40 CFR Part 60 and this part as shown in Table 1 of this subpart. Applicable records in the general provisions include items such as SSM plans and the SSM plan reports.” **[Reference: 40.CFR §63.1980(b)]**

Emission Unit: EU-02

One (1) open flare rated at 2,000 scfm. **[MDE Registration No. 9-0096]**

Applicable Standards and Limits

A. Control of Visible Emissions

[COMAR 26.11.06.02C(1)] – Visible Emission Standards.

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"In Areas I, II, V and VI, a person may not cause or permit the discharge of emissions from any installation or building, other than water in an uncombined form, which is greater than 20 percent opacity."

[COMAR 26.11.06.02A(2)] – Exception.

"The visible emissions standards in C of this regulation do not apply to emissions during start-up and process modification or adjustments, or occasional cleaning of control equipment, if: (a) The visible emissions are not greater than 40 percent opacity; and (b) The visible emissions do not occur for more than 6 consecutive minutes in any 60 minute period."

Compliance Demonstration

As part of the monitoring requirements, the Permittee shall properly operate and maintain the flare in a manner to prevent visible emissions. **[Reference: COMAR 26.11.03.06C]** As part of the record keeping requirements, the Permittee shall maintain an operations manual and preventative maintenance plan and records of maintenance performed that relates to combustion performance. **[Reference: COMAR 26.11.03.06C]**

Note: All records must be maintained for a period of at least 5 years and be made available to the Department upon request. **[Reference: COMAR 26.11.03.06C(5)(g)]** The Permittee shall report incidents of visible emissions in accordance with Permit Condition 4, Section III, "Report of Excess Emissions and Deviations."

B. Operational Standards

"Flares shall be operated with a flame present at all times, as determined by the methods specified in §60.18 (f)(2)." **[Reference: 40 CFR §60.18]**

"(2) If the calculated NMOC emission rate is equal to or greater than 50 megagrams per year, the owner or operator shall:

(iii) Route all the collected gas to a control system that complies with the requirements in either paragraph (b)(2)(iii) (A), (B) or (C) of this section.

(A) An open flare designed and operated in accordance with §60.18 except as noted in §60.754(e)" **[Reference: 40 CFR Part 60.752(b)]**

The Permittee shall operate and maintain the flare system in accordance with the manufacturer's recommendations. **[Reference: MDE PTC No. 015-9-00163 PTC modification dated April 17, 2007]**

Compliance Demonstration

The Permittee shall perform monitoring requirements in by following the procedures established in **40 CFR Part 60.752(b)(2)(iii)**. The Permittee shall keep up-to-date, readily accessible records of the flame or flare pilot flame

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monitoring in accordance with **40 CFR 60.758(b)(4)**. The Permittee shall keep up-to-date, readily accessible records of the control device vendor specifications until the control device is removed in accordance with **40CFR 60.758(b)**.

Emission Unit: EU-03

Roadways and Operations began operation in 1982.

Applicable Standards and Limits

Control of Particulate Matter – [COMAR 26.11.06.03D]

The Permittee shall not cause or permit any materials to be handled, transported, or stored, or a building, its appurtenances, or a road to be used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne.

Compliance Demonstration

As part of the monitoring requirements, the Permittee shall prepare and update, as needed a best management practices plan that describes the procedures and methods that will be used to take reasonable precautions. In addition, the Permittee shall perform an inspection at minimum once a month to verify that best management practices are being implemented and that the precautions are sufficient to control particulate matter emissions. The Permittee shall maintain the plan and records of the dates and results of inspections for at least five (5) years and make them available to the Department upon request. [Reference: COMAR 26.11.03.06C]

Emission Unit: EU-04 and 05

One (1) tub grinder (Morbark) powered by a 860 hp diesel internal combustion engine. [MDE Registration No. 6-0252]

One (1) horizontal grinder (Vermeer) powered by a 630 hp diesel internal combustion engine. [MDE Registration No. 9-0176]

The engines serving the tub and horizontal grinders fall under the definition of “nonroad” internal combustion engine. The U.S. EPA defined a “stationary” internal combustion engine, as an engine that does not meet the definition of a “nonroad” engine. Nonroad engines are not subject to federal NSPS requirements under 40 CFR 60, Subpart IIII or Subpart JJJJ or federal NESAHF requirements under 40 CFR 63, Subpart ZZZZ.

The U.S. EPA defines a “nonroad” internal combustion engine in 40 CFR §1068.30, as an internal combustion engine that meets any of the following criteria:

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- (i) It is (or will be) used in or on a piece of equipment that is self-propelled or serves a dual purpose by both propelling itself and performing another function (such as garden tractors, off-highway mobile cranes and bulldozers).
- (ii) It is (or will be) used in or on a piece of equipment that is intended to be propelled while performing its function (such as lawnmowers and string trimmers).
- (iii) By itself or in or on a piece of equipment, it is portable or transportable, meaning designed to be and capable of being carried or moved from one location to another. Indicia of transportability include, but are not limited to, wheels, skids, carrying handles, dolly, trailer, or platform.

Applicable Standards and Limits

A. Control of Visible Emissions

Control of Visible Emissions for grinding process

COMAR 26.11.06.02C(1) – Visible Emission Standards.

“In Areas I, II, V, and VI a person may not cause or permit the discharge of emissions from any installation or building, other than water in an uncombined form, which is greater than 20 percent opacity.

COMAR 26.11.06.02A(2) – General Exceptions.

The visible emissions standards in §C of this regulation do not apply to emissions during start-up and process modifications or adjustments, or occasional cleaning of control equipment, if:

- (a) The visible emissions are not greater than 40 percent opacity; and
- (b) The visible emissions do not occur for more than 6 consecutive minutes in any 60-minute period.”

Compliance Demonstration

The Permittee shall properly operate and maintain the tub and horizontal grinders in a manner to minimize visible emissions. **[Reference: COMAR 26.11.06.02C(2)]** The Permittee shall report incidents of visible emissions in accordance with Permit Condition 4, Section III, Plant Wide Condition, “Report of Excess Emissions and Deviations.

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Visible Emissions Limits for Stationary Internal Combustion Engine Powered Equipment

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[COMAR 26.11.09.05E] – Visible Emission Standards.

“A person may not cause or permit to be discharged into the outdoor atmosphere from any other installation, particulate matter in excess of 0.03 gr/SCFD (68.7 mg/dscm).”

“Emissions During Idle Mode. A person may not cause or permit the discharge of emissions from any engine, operating at idle, greater than 10 percent opacity.

Emissions During Operating Mode. A person may not cause or permit the discharge of emissions from any engine, operating at other than idle conditions, greater than 40 percent opacity.

Exceptions.

- (a) Section E(2) does not apply for a period of 2 consecutive minutes after a period of idling of 15 consecutive minutes for the purpose of clearing the exhaust system.
- (b) Section E(2) does not apply to emissions resulting directly from cold engine start-up and warm-up for the following maximum periods:
 - (i) Engines that are idled continuously when not in service: 30 minutes;
 - (ii) All other engines: 15 minutes.
- (c) Section E(2) and (3) does not apply while maintenance, repair, or testing is being performed by qualified mechanics.”

Compliance Demonstration

The Permittee shall properly operate and maintain the horizontal and tub grinders in a manner to minimize visible emissions. **[Reference: COMAR 26.11.03.06C]**

The Permittee shall properly operate and maintain engines in a manner to minimize visible emissions. **[Reference: COMAR 26.11.03.06C]**

FOR ENGINE ONLY

B. Control of Sulfur Oxides Emissions

[COMAR 26.11.09.07A(1)] – “A person may not burn, sell, or make available for sale any fuel with a sulfur content by weight in excess of or which otherwise exceeds the following limitations:

- (c) Distillate fuel oils, 0.3 percent;”

Compliance Demonstration

The Permittee shall obtain a certification form the fuel supplier indicating that the fuel oil complies with the limitation on sulfur content of the fuel oil. **[Reference:**

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COMAR 26.11.03.06C]. The Permittee shall retain annual fuel supplier certifications stating that the fuel oil is in compliance with this regulation must be maintained for at least five years. **[Reference: COMAR 26.11.09.07C]** The Permittee shall report annual fuel supplier certification to the Department upon request. **[Reference: COMAR 26.11.09.07C]**

C. Operational Limit

- (a) The Permittee shall only burn diesel fuel in the engines serving both horizontal and tub grinders unless the Permittee applies for and receives an approval or permit from the Department to burn an alternative fuel. **[Reference: MDE PTC No. 015-0163-9-0176 issued on March 20, 2008, and MDE PTC No. 015-0163-6-0252 issued on May 20, 2005]**
- (b) The engine shall be a nonroad engine, as defined in 40 CFR §1068.30, unless the Permittee complies with the stationary engine requirements of 40 CFR 60, Subpart III or Subpart JJJJ and 40 CFR 63, Subpart ZZZZ, as applicable, for the engine.

For the 630 Hp horizontal grinder

- (c) The engine, which powers the horizontal grinder, shall operate no more than 728 hours for any 12-month rolling period. **[Reference: MDE PTC No. 015-0163-9-0176 issued on March 20, 2008]**

For the 860 Hp tub grinder

- (d) The engine, which powers the tub grinder, shall operate no more than 1440 hours for any 12-month rolling period. **[Reference: MDE PTC No. 015-0163-6-0252 issued on May 20, 2005]**

Compliance Demonstration

The Permittee shall properly monitor the operating hours for each of the engines powering the horizontal and tub grinders. The Permittee shall maintain for at least five (5) years, and shall make available to the Department upon request, records of the operating hours for the engine that drives the horizontal and tub grinders, report the amount of fuel oil combusted and engine operating hours as part of the annual emission certification, and the amount of fuel oil combusted and engine-operating hours as part of the annual emission certification. **[Reference: COMAR 26.11.09.08G(e)]**

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Emission Unit: EU-06

MDE Reg. No. 9-0250

One (1) Caterpillar 609 Hp diesel fired emergency generator registered in February 2026.

Applicable Standards/Limits:

A. Visible Emissions Limitations

COMAR 26.11.09.05 E. Stationary Internal Combustion Engine Powered Equipment.

(2) Emissions During Idle Mode. A person may not cause or permit the discharge of emissions from any engine, operating at idle, greater than 10 percent opacity.

(3) Emissions During Operating Mode. A person may not cause or permit the discharge of emissions from any engine, operating at other than idle conditions, greater than 40 percent opacity.

(4) Exceptions.

(a) Section E(2) of this regulation does not apply for a period of 2 consecutive minutes after a period of idling of 15 consecutive minutes for the purpose of clearing the exhaust system.

(b) Section E(2) of this regulation does not apply to emissions resulting directly from cold engine start-up and warm-up for the following maximum periods:

(i) Engines that are idled continuously when not in service: 30 minutes;

(ii) All other engines: 15 minutes.

(c) Section E(2) and (3) of this regulation do not apply while maintenance, repair, or testing is being performed by qualified mechanics.

Compliance Demonstration (VE):

The Permittee shall properly operate and maintain the generators in accordance with the engines manufacturer's recommendations and in a manner to assure compliance with the visible emissions standards. The Permittee shall maintain an operations manual and preventive

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maintenance plan. The Permittee shall maintain a log of maintenance performed that relates to combustion performance. The Permittee shall report incidents of visible emissions in accordance with permit Condition 4, Section III, Plant Wide Conditions, "Report of Excess Emissions and Deviations".[**Authority: COMAR 26.11.03.06C**]

B. Control of Sulfur Oxides

COMAR 26.11.09.07A(2)(b) which states: "A person may not burn, sell, or make available for sale any fuel with a sulfur content by weight in excess of or which otherwise exceeds the following limitation: distillate fuel oil, **0.3 percent.**"

Compliance Demonstration (SO_x):

The Permittee shall obtain a certification from the fuel supplier indicating that the oil complies with the limitation on the sulfur content of fuel oil. The Permittee shall submit fuel supplier certifications to the Department upon request [**Authority: COMAR 26.11.03.06C**].

The Permittee shall maintain records of the all fuel oil certifications indicating that the oil complies with the limitations on sulfur content, and make them available to the Department upon request.

Certification may include:

- i) a fuel supplier certification consisting of the name of the fuel oil supplier and a statement from the supplier that the fuel oil complies with specifications for kerosene; and/or
- ii) A certified statement signed by the authorized representative of the Facility, stating that the records of fuel supplier certifications submitted represent all of the fuel oil combusted during the reporting period.
- iii) For any NSPS emergency diesel generator the Permittee shall, for each fuel delivery, obtain from the fuel supplier a fuel supplier certification consisting of the name of the oil supplier, the date of delivery, the amount of fuel delivered, and a statement from the fuel supplier that the diesel fuel oil complies with the specifications of 40 CFR §1090.305. The Permittee shall maintain the required records on site for at least five (5) years.

[**Authority: COMAR 26.11.09.07A(2)(b) & PTC 005-0282-9-1436 & 9-1437 N**]

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C. Control of Nitrogen Oxides

COMAR 26.11.09.08 G. - **Requirements for Fuel-Burning Equipment with a Capacity Factor of 15 Percent or Less**, and Combustion Turbines with a Capacity Factor Greater than 15 Percent.

- (1) A person who owns or operates fuel-burning equipment with a capacity factor (as defined in 40 CFR Part 72.2) of 15 percent or less shall:
 - (a) Provide certification of the capacity factor of the equipment to the Department in writing;
 - (b) For fuel-burning equipment that operates more than 500 hours during a calendar year, perform a combustion analysis and optimize combustion at least once annually;
 - (c) Maintain the results of the combustion analysis at the site for at least 2 years and make these results available to the Department and the EPA upon request;
 - (d) Require each operator of an installation, except combustion turbines, to attend operator training programs at least once every 3 years, on combustion optimization that are sponsored by the Department, the EPA, or equipment vendors; and
 - (e) Maintain a record of training program attendance for each operator at the site, and make these records available to the Department upon request.

Note: Capacity factor means either:

(1) The ratio of a unit's actual annual electric output (expressed in MWe/hr) to the unit's nameplate capacity (or maximum observed hourly gross load (in MWe/hr) if greater than the nameplate capacity) times 8760 hours; or

(2) The ratio of a unit's annual heat input (in million British thermal units or equivalent units of measure) to the unit's maximum rated hourly heat input rate (in million British thermal units per hour or equivalent units of measure) times 8,760 hours. [Reference: 40 CFR Part 72.2]

- (2) COMAR 26.11.09.08B(5) states that; (a) for the purpose of COMAR 26.11.09.08, the equipment operator to be trained may be the person who maintains the equipment and makes the necessary

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adjustments for efficient operation; and (b) that the operator training course sponsored by the Department shall include an in-house training course that is approved by the Department.

- (3) COMAR 26.11.09.08K(3) which requires a person subject to this regulation to maintain annual fuel use records on site and make these records available to the Department upon request.

[Authority: COMAR 26.11.09.08]

Compliance Demonstration (NOx):

The Permittee shall perform engine maintenance and inspections in accordance with manufacturer's recommendations. Engine inspections, tuning, and adjustments shall be performed by a qualified mechanic and in accordance with the engines manufacturer's recommendations.

[Authority: COMAR 26.11.03.06C]

The Permittee shall:

- (1) Maintain the records of the operations and maintenance plan and records of any engine maintenance and repairs on site.
- (2) Prepare and maintain a record of training program attendance for each operator at the site, and make these records available to the Department upon request.

[Authority: COMAR 26.11.09.08G(1) & COMAR 26.11.03.06C]

D. Operational Limitations

- (1) The Permittee must operate and maintain an NSPS emergency diesel generator and control devices according to the manufacturer's written instructions or according to procedures developed by the owner or operator that are approved by the manufacturer. Additionally the Permittee may change only those settings that are permitted by the manufacturer. The Permittee must also meet the requirements of 40 CFR part 89, part 1039 for model year 2011 or later, part 94 and/or part 1068, as they may apply to an owner or operator [Ref: 40 CFR 60 Subpart IIII - §60.4211].
- (2) Beginning October 1, 2010, owners and operators (the Permittee) of a stationary source CI ICE subject to this subpart with a displacement of less than 30 liters per cylinder that use diesel fuel must purchase diesel fuel that meets the requirements of 40 CFR 1090.305 for nonroad diesel fuel. [Ref: 40 CFR 60 Subpart IIII - §60.4207].

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- (3) In accordance with 40 CFR §60.4211(e), non-emergency use of each NSPS emergency diesel generator for the purpose of maintenance checks and readiness testing is limited to 100 hours per year or less unless prior approval is received from the Department.

[Authority: 40 CFR 60 Subpart IIII & PTC 005-0282-9-1436 & 9-1437 N]

Compliance Demonstration (OL):

The Permittee shall maintain on site for the life of the source the following records for the emergency diesel generator(s):

- (1) Documentation of the manufacture date of the diesel engine, if manufactured prior to April 1, 2006 and the manufacturer model year of the diesel engine;
- (2) The installation date of each emergency diesel generator; and
- (3) The certifications of compliance or manufacturer engine test data required by 40 CFR §60.4211 and §60.4214(b).

[Authority: 40 CFR 60 Subpart IIII]

COMPLIANCE SCHEDULE

The Cecil County Central Landfill is currently in compliance with all applicable air quality regulations.

TITLE IV - ACID RAIN

The Acid Rain Program does not apply to Cecil County Central Landfill.

TITLE VI - OZONE DEPLETING SUBSTANCES

The facility is currently complying with the applicable federal requirements in 40 CFR 82, 82.34(a); 82.42(a)(1); 82.42(b)(1), (2).

SECTION 112 (r) - ACCIDENTAL RELEASE

The facility is not subject to the requirements of Section 112 (r) of the Clean Air Act.

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PERMIT SHIELD

Cecil County Central Landfill did not request a permit shield in the application.

INSIGNIFICANT ACTIVITIES

This section provides a list of insignificant emissions units that were reported in the Title V permit application. The applicable Clean Air Act requirements, if any, are listed below the insignificant activity.

- (1) No. 6 Fuel burning equipment using gaseous fuels or no. 1 or no. 2 fuel oil, and having a heat input less than 1,000,000 Btu (1.06 gigajoules) per hour;

- Two (2) 30 MBH gas fired unit heaters
- Two (2) 45 MBH gas fired unit heaters
- Two (2) 75 MBH gas fired infrared heaters

[COMAR 26.11.09.05A(1)] – Fuel Burning Equipment.

“In Areas I, II, V, and VI, a person may not cause or permit the discharge of emissions from any fuel burning equipment, other than water in an uncombined form, which is greater than 20 percent opacity.

[COMAR 26.11.09.05A(3)] – Exceptions.

“Section A(1) and (2) of this regulation do not apply to emissions during load changing, soot blowing, startup, or adjustments or occasional cleaning of control equipment if:

- (a) The visible emissions are not greater than 40 percent opacity; and
- (b) The visible emissions do not occur for more than 6 consecutive minutes in any sixty minute period.”

- (2) Containers, reservoirs, or tanks used exclusively for:

- (a) X Storage of butane, propane, or liquefied petroleum, or natural gas;
- (b) No. X Storage of lubricating oils;

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- (c) No. X Storage of Numbers 1, 2, 4, 5, and 6 fuel oil and aviation jet engine fuel.

STATE-ONLY ENFORCEABLE CONDITIONS

The Permittee is subject to the following State-only enforceable requirements:

1. Applicable Regulations:

(A) **COMAR 26.11.06.08** – Nuisance.

“An installation or premises may not be operated or maintained in such a manner that a nuisance or air pollution is created. Nothing in this regulation relating to the control of emissions may in any manner be constructed as authorizing or permitting the creation of, or maintenance of, nuisance or air pollution.”

(B) **COMAR 26.11.06.09** – Odors.

“A person may not cause or permit the discharge into the atmosphere of gases, vapors, or odors beyond the property line in such a manner that a nuisance or air pollution is created.”

(C) **Requirements for Emergency Generators**

[COMAR 26.11.36.03A] – Applicability and General Requirements for Emergency Generators and Load Shaving Units.

“(1) The owner or operator of an emergency generator may not operate the generator except for emergencies, testing, and maintenance purposes.”

“(3) *Not applicable*.”

“(4) The owner or operator of an emergency generator or load shaving unit may be subject to the federal standards for stationary internal combustion engines under 40 CFR Parts 60 and 63.”

“(5) The owner or operator of an emergency generator or load shaving unit may not operate the engine for testing and engine maintenance purposes between 12:01 a.m. and 2:00 p.m. on any day on which the Department forecasts that the air quality will be a code orange, code red, or code purple unless the engine fails a test and engine maintenance and a re-test are necessary.”

“(6) The owner or operator of an engine that is used for any purpose other than for emergency purposes shall install and operate a non-resettable hourly time meter on the engine for the purpose of maintaining the operating log required in §E of this regulation.”

For flare only,

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758 EAST OLD PHILADELPHIA ROAD, ELKTON, MD 21921
PART 70 OPERATING PERMIT NO. 24-015-0163

(D) **COMAR 26.11.42 – Control of Methane Emissions from Municipal Solid Waste Landfills.**

COMAR 26.11.42.01(A) – Applicability and Exemptions.

“This chapter applies to a person who owns or operates a municipal solid waste (MSW) landfill that has accepted waste after November 8, 1987.”

COMAR 26.11.42.05(B)(2) – Standard and Requirements for Gas Collection and Control Systems. – Requirements for Enclosed Flares.

“(a) An owner or operator of a MSW landfill that routes landfill gas to an enclosed flare shall achieve a methane destruction efficiency of at least 99 percent by weight and meet the following specifications:

- (i) The device shall be equipped with automatic dampers, an automatic shutdown device, a flame arrester, and continuous recording temperature sensors; and
 - (ii) The device shall have a sufficient flow of propane, natural gas, or another fuel source approved by the Department to the pilot light to prevent unburned collected methane from being emitted to the atmosphere during restart and startup.
- (b) The owner or operator of a MSW landfill shall install, calibrate, operate and maintain the flare system in accordance with the manufacturer's specifications and if applicable, within the parameter ranges established in the landfill's permit to construct issued by the Department.
- (c) An owner or operator that used an enclosed flare shall install, calibrate, and maintain a gas flow rate measuring device that either records the flow to the control device at least every 15 minutes or secures the bypass line valve in the closed position with a car-seal or a lock-and-key type configuration.”

COMAR 26.11.42.04(B)(3) – Requirements for Municipal Solid Waste (MSW) Landfills – MSW Landfills Greater Than or Equal to 450,000 Tons of Waste-in-Place.

“If the calculated methane generation rate is greater than or equal to 732 tons per year but less than 8,548 tons per year, the owner or operator shall either:

- (a) Install and operate a gas collection and control system in accordance with the provisions in Regulation .05 and comply with the requirements in Regulations .04 - .11 of this chapter; or

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(b) Undertake four consecutive quarterly surface emissions monitoring periods using the instantaneous surface emissions monitoring procedures specified in Regulation .11F of this chapter, in order to demonstrate that there is no measured concentration of methane of 200 parts per million by volume (ppmv) or greater." Additional requirements related to this monitoring are specified in COMAR 26.11.42.04(B)(4-6).

(E) **COMAR 26.11.42.05(B)(7)(a) thru (k) – Standard and Requirements for Gas Collection and Control Systems. – Performance Test Requirements.**

- “(a) The owner or operator shall conduct annual performance tests for any gas control device(s) subject to the requirements of §B(2), (3) & (4) of this regulation using the test methods identified in Regulation .11C of this chapter.
- (b) An initial performance test shall be conducted within 180 days of start-up of the gas collection and control system.
- (c) Following an initial performance test, the owner or operator shall conduct a complete annual performance test no later than 45 days following the 1-year anniversary date of the initial performance test.
- (d) The owner or operator of an existing gas control device shall demonstrate compliance with this regulation no later than 180 days following the effective date of this regulation in accordance with the test methods and procedures specified in Regulation .11C of this regulation.
- (e) The owner or operator shall conduct performance tests under conditions specified by the Department based on representative performance of the affected source for the period being tested.
- (f) Representative conditions shall exclude periods of startup and shutdown unless specified by the Department.
- (g) The owner or operator may not conduct performance tests during periods of malfunction.
- (h) The owner or operator shall record the process information that is necessary to document operating conditions during the test and include in such record an explanation to support that such conditions represent normal operation.

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- (i) The owner or operator shall make available records necessary to determine the conditions of performance tests available upon request by the Department.
 - (j) If a gas control device remains in compliance after three consecutive performance tests, the owner or operator may conduct the performance test every 3 years.
 - (k) Once a gas control device is placed on the 3-year performance test schedule, if a subsequent performance test shows the gas collection and control system is out of compliance with the requirements of this regulation, the performance testing frequency shall return to annual.”
- (F) **COMAR 26.11.42.09(B)(1) – Monitoring Requirements and Corrective Actions. – Gas Control System Equipment Monitoring.**
- “The owner or operator shall monitor the gas control system using the following procedures:
- (1) For enclosed combustors (including enclosed flares), the following equipment shall be installed, calibrated, maintained, and operated according to the manufacturer’s specifications:
 - (a) A temperature monitoring device equipped with a continuous recorder which has an accuracy of plus or minus ($\pm$) 1 percent of the temperature being measured expressed in degrees Celsius or Fahrenheit; and
 - (b) A device which records the gas flow to the control device(s) and bypass of the control device. The owner or operator shall:
 - (i) Install, calibrate, and maintain a gas flow rate measuring device that records the flow to the control device at least every 15 minutes;
 - (ii) Secure the bypass line valve in the closed position with a car-seal or a lock-and-key type configuration; and
 - (iii) Perform a visual inspection of the seal or closure mechanism at least once every month to ensure that the valve is maintained in the closed position and that the gas flow is not diverted through the bypass line.
 - (c) A temperature monitoring device is not required for boilers and process heaters with a design heat input capacity of 44 megawatts (150 MMBtu/hr) or greater.”

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(G) **COMAR 26.11.42.09(B)(9)** – Monitoring Requirements and Corrective Actions. – Gas Control System Equipment Monitoring.

“For a gas treatment system, the following equipment shall be installed, calibrated, maintained, and operated according to the manufacturer’s specifications:

- (a) A device which records the gas flow to the treatment system and bypass if applicable.
- (b) The owner or operator shall:
 - (i) Install, calibrate, and maintain a gas flow rate measuring device that records the flow to the treatment system at least every 15 minutes;
 - (ii) Secure the bypass line valve in the closed position with a car-seal or a lock-and-key type configuration; and
 - (iii) Perform a visual inspection of the seal or closure mechanism at least once every month to ensure that the valve is maintained in the closed position and that the gas flow is not diverted through the bypass line.”

(H) **COMAR 26.11.42.10** – Recordkeeping and Reporting Requirements.

COMAR 26.11.42.10B(1)(a), (b), and (m) – Recordkeeping Requirements.

“An owner or operator of a MSW landfill shall maintain the following records for at least 5 years:

- (a) All gas collection system downtime exceeding 5 days, including dates of downtime, individual well shutdown and disconnection times, the reason for the downtime, and any corrective actions conducted in response to the downtime;
- (b) All gas control system downtime in excess of 1 hour, the reason for the downtime, and the length of time the gas control system was shut down, and any corrective actions conducted in response to the downtime;”

.....

- (m) Records of the gas control system equipment operating parameters specified to be monitored under Regulation .09B of this chapter as well as records for periods of operation during

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which the parameter boundaries established during the most recent performance test are exceeded. The records shall include the following information:

- (i) For enclosed flares, all 3-hour periods of operation during which the average temperature difference was more than 28°C (50° F) below the average combustion temperature during the most recent performance test at which compliance with Regulations .05B(2) and (3) of this chapter was determined;"

COMAR 26.11.42.10C – Reporting Requirements.

COMAR 26.11.42.10C(2) – Equipment Removal Report.

“(a) A gas collection and control system equipment removal report shall be submitted to the Department 30 days prior to well capping, removal, or cessation of operation of the gas collection, treatment, or control system equipment.

(b) The report shall contain the following information:

- (i) A copy of the closure notification submitted to the Department in accordance with §C(1) of this regulation;
- (ii) A copy of the initial performance test report or other documentation demonstrating that the gas collection and control system has been installed and operated for a minimum of 15 years, unless the owner or operator can demonstrate that due to declining methane rates the MSW landfill is unable to operate the gas collection and control system for a 15-year period;"

(I) COMAR 26.11.42.10C(7) – Performance Test Report.

“(a) For a control system designed and operated to meet the requirements of this chapter, the owner or operator shall submit a Performance Test Report to the Department that establishes the reduction efficiency or parts per million by volume no later than 180 days after the initial startup of the approved control system using EPA Method 25 or 25C, 40 CFR Part 60, Appendix A.

(b) The owner or operator shall submit any additional performance test reports to the Department within 30 days

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after the date of completing each performance test, including any associated fuel analyses.”

- (c) The performance test report shall include the following information:
- (i) A diagram of the collection system showing collection system positioning including all wells, horizontal collectors, surface collectors, or other gas extraction devices, all areas excluded from collection, and the proposed sites for the future collection system expansion;
 - (ii) The data upon which the sufficient density of wells, horizontal collectors, surface collectors, or other gas extraction devices and the gas mover equipment sizing are based;
 - (iii) The documentation of the presence of asbestos or non-decomposable material for each area from which collection wells have been excluded based on the presence of asbestos or non-decomposable material;
 - (iv) The sum of the gas generation flow rates for all areas from which collection wells have been excluded based on nonproductivity and the calculations of gas generation flow rate for each excluded area;
 - (v) The process for increasing gas mover equipment capacity with increased gas generation flow rate, if the present gas mover equipment is inadequate to move the maximum flow rate expected over the life of the landfill; and
 - (vi) The process for controlling off-site migration.”

The Permittee shall follow the reporting procedures listed in COMAR 26.11.42.10 (A) and (A-1). Test results, reports, or other information, unless otherwise specified by the Department shall be submitted to:

Program Manager
Air Quality Compliance Program
Maryland Department of the Environment
1800 Washington Boulevard, Suite 715
Baltimore, Maryland 21230
410-537-4225

Or electronically to:

MDEAIR.OTHERCOMPLIANCE@maryland.gov

[Reference: COMAR 26.11.42.10 (A) and (A-1)]

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(J) **COMAR 26.11.42.11(C)(1)** – Test Methods and Procedures. –
Determination of Control Device Destruction Efficiency.

“The following methods of analysis shall be used to determine the efficiency of the control device in reducing methane:

- (1) Enclosed Combustors. One of the following test methods shall be used to determine the efficiency of the control device in reducing methane by at least 99 percent, or in reducing the outlet methane concentration for lean burn engines to less than 3,000 ppmv, dry basis, corrected to 15 percent oxygen:
 - (a) U.S. EPA Reference Method 18, Measurement of Gaseous Organic Compound Emissions by Gas Chromatography;
 - (b) U.S. EPA Reference Method 25, Determination of Total Gaseous Nonmethane Organic Emissions as Carbon;
 - (c) U.S. EPA Reference Method 25A, Determination of Total Gaseous Organic Concentration Using a Flame Ionization Analyzer; or
 - (d) U.S. EPA Reference Method 25C, Determination of Nonmethane Organic Compounds in Landfill Gases.”

2. Record Keeping and Reporting:

The Permittee shall submit to the Department, by April 1 of each year during the term of this permit, a written certification of the results of an analysis of emissions of toxic air pollutants from the Permittee’s facility during the previous calendar year. The analysis shall include either:

- (a) a statement that previously submitted compliance demonstrations for emissions of toxic air pollutants remain valid; or
- (b) a revised compliance demonstration, developed in accordance with requirements included under COMAR 26.11.15 & 16, that accounts for changes in operations, analytical methods, emissions determinations, or other factors that have invalidated previous demonstrations.



May 31, 2024

Suna Yi Sariscak, Manager
Air Quality Permits Program
Maryland Department of Environment
Air and Radiation Administration
1800 Washington Boulevard
Baltimore, MD 21230

**RE: Cecil County Department of Public Works, Cecil County Central Landfill
Part 70 Permit Renewal Application, Permit No. 24-015-0163, AI No. 19069**

Dear Program Manager:

On behalf of Cecil County Department of Public Works (CCDPW) – Solid Waste Management Division (SWMD), BAI Group, LLC is pleased to submit the enclosed two (2) hard copies as well as an electronic copy of the application emailed to MDE.Submit-AirPermits@maryland.gov in accordance with correspondence from the Department dated April 1, 2024. The electronic version contains a compiled PDF of the subject permit renewal application for Cecil County Central Landfill located in Elkton, Maryland. This renewal application is being submitted by June 1, 2024 as requested in the noted correspondence. The current permit is due to expire on June 30, 2025.

No changes or additions are proposed to the currently permitted Emissions Units; therefore, this renewal application is largely based on prior permitting along with the incorporation of new regulations promulgated since the 2019 Part 70 renewal application including 40 CFR §62 Subpart OOO and Code of Maryland Regulations Title 26.11.42.

If you have any questions regarding this application, please contact me at (610) 238-2060 or kfinlan@baigroupllc.com.

Sincerely,

BAI Group

A handwritten signature in blue ink that reads 'Karen E. Finlan'.

Karen E. Finlan
Senior Environmental Consultant

Enclosures

cc: Craig Marker, P.E., CCDPW E&C

PART 70 PERMIT RENEWAL APPLICATION

CENTRAL LANDFILL
PERMIT ID 24-015-00163

MAY 2024

Prepared For:



Cecil County Department of Public Works
Solid Waste Management Division
758 East Old Philadelphia Road
Elkton, MD 21921



Prepared By:

MAIN OFFICE:
366 Walker Drive, Suite 300
State College,
PA 16801
PH: 814-238-2060 FX: 814-238-7123

DELAWARE VALLEY OFFICE:
101 Lindenwood Dr. Suite 225
Malvern, PA 19355
PH: 610-495-5585

**CECIL COUNTY DEPARTMENT OF PUBLIC WORKS
SOLID WASTE MANAGEMENT DIVISION
CECIL COUNTY CENTRAL LANDFILL**

PART 70 PERMIT RENEWAL APPLICATION
PERMIT NO. 24-015-00163

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BUDGET RECONCILIATION AND FINANCING ACT OF 2003
CERTIFICATION

MARYLAND DEPARTMENT OF THE ENVIRONMENT
1800 Washington Boulevard • Suite 720 • Baltimore, Maryland 21230-1720
410-537-3000 • 800-633-6101 • <http://www.mde.state.md.us>

Air and Radiation Administration • Air Quality Permits Program

**Budget Reconciliation and Financing Act of 2003
(Commonly referred as Maryland House Bill 935)**

On July 1, 2003, House Bill 935, Chapter 203 amended § 1-203 of the Environment Article, Annotated Code of Maryland, as follows:

Section 1-203(b).

- 1) A license or permit is considered renewed for purposes of this subsection if the license or permit is issued by a unit of State government to a person for the period immediately following a period for which the person previously possessed the same or a substantially similar license.
- 2) Before any license or permit may be renewed under this article, **the issuing authority shall verify through the office of the Comptroller (emphasis added)** that the applicant has paid all undisputed taxes and the unemployment insurance contributions payable to the Comptroller or the Secretary of Labor, Licensing, and Regulation or that the applicant has provided for payment in a manner satisfactory to the unit responsible for collection.

In order for the Maryland Department of the Environment (MDE) to verify this compliance, we would need you to provide the following information before we can process or issue your renewal license, permit, or certification:

Current MDE License/Permit No.: 24-015-00163

Name of Licensee or Permit Holder: Cecil County Department of Public Works

Address: 200 Chesapeake Boulevard, Suite 2400A, Elkton, MD 21921

Contact Name: Fred Dollenger **Title:** Acting Chief, Solid Waste

Contact Telephone Number: 410-996-6275 Management Division

Contact Email: fdollenger@cecilcountymd.gov

Privacy Act Notice: This Notice is provided pursuant to the Federal Privacy Act of 1974, 5 U.S.C. § 552a. Disclosure of your Social Security or Federal Tax Identification on this form is mandatory pursuant to the provisions of § 1-203 (2003) of Environment Article, Annotated Code of Maryland, which requires MDE to verify that an applicant for a permit or license has paid all undisputed taxes and unemployment insurance. Social Security and Federal Tax Identification Nos. will not be used for any purposes other than those described in this Notice.

Federal Employer Identification Number (FEIN): 52-6000919

Certification: I certify that the above information is true and correct to the best of my knowledge.

Signature

Date

Complete and return this form to the above address. If you have any questions, please contact our office at (410) 537-3230.

PART 70 PERMIT APPLICATION FOR RENEWAL

APPLICATION COMPLETENESS CHECKLIST

**MARYLAND DEPARTMENT OF THE ENVIRONMENT
AIR AND RADIATION ADMINISTRATION
RENEWAL TITLE V APPLICATION CHECKLIST**

VI .Application Completeness Checklist

The purpose of this part is to list the information required to achieve a Part 70 application shield.

Cover Page

- (X) Name and address of owner or operator, including telephone number.
- (X) Name and address of facility, including the plant manager's name and telephone number.
- (X) A 24-hour emergency telephone number for air pollution matters.

Section 1 CERTIFICATION STATEMENTS

- (X) The certification statement completed and signed by a responsible official.

Section 2 FACILITY DESCRIPTION SUMMARY

- (X) A brief description of each of the source's process(es), including all applicable SIC codes and end products.
- () Flow diagrams indicating all emissions units, emission points, and control devices. *Flow diagrams were not included as there are no proposed changes to the facility at this time. The Existing Conditions Map in Attachment 1 shows the existing LFG collection system, LFG flare, and roads.*
- (X) A plot plan of the entire facility.
- (X) Emission Certification Report.
- (X) General Emissions Information.

Section 3 EMISSIONS UNIT DESCRIPTIONS –

This section must be completed for each emissions unit.

Part A

- (X) Emissions unit number.
- (X) Detailed description of unit, including all emission points.
- (X) Federally enforceable limit(s) on the operating schedule.

**MARYLAND DEPARTMENT OF THE ENVIRONMENT
AIR AND RADIATION ADMINISTRATION
RENEWAL TITLE V APPLICATION CHECKLIST**

- ☒ Fuel consumption information for any emissions unit that consumes fuel including the type of fuel, percent sulfur, and annual usage of fuel.

Part B

- ☒ A citation and description of each federally enforceable requirement, including all emission standards, for each emissions unit.
- ☒ A statement of compliance demonstration techniques for each requirement, including a description of monitoring, record keeping, reporting requirements, and test methods.
- ☒ The frequency of submittal of the compliance demonstration during the permit term.

Part C *Not Applicable*

- ☐ Emissions unit number.
- ☐ Permit to construct number.
- ☐ Emissions point number(s).
- ☐ Date(s) the permit to construct was issued.
- ☐ Condition number(s) as indicated on the permit to construct.
- ☐ Description of the permit condition(s) and the reason(s) why they are believed to be obsolete, extraneous, or insignificant.

Part D *Not Applicable*

- ☐ Description of all alternate operating scenarios that apply to an emissions unit.
- ☐ Number assigned to each scenario.
- ☐ Emissions unit number.

**MARYLAND DEPARTMENT OF THE ENVIRONMENT
AIR AND RADIATION ADMINISTRATION
RENEWAL TITLE V APPLICATION CHECKLIST**

- () Description of the operating parameters for the emissions unit and other information which describes the how the operation of the unit will change under the different scenario.

Part E *Not Applicable*

- () A citation and description of each federally enforceable requirement triggered by an operating scenario, including all emission standards, for each emissions unit.
- () As an attachment, the date and results of the most recent compliance demonstration for each emission standard and/or emissions certification report with relevant supporting documentation.
- () A statement of compliance demonstration techniques for each requirement, including a description of monitoring, record keeping, reporting requirements, and test methods.
- () The frequency of submittal of the compliance demonstration during the permit term.

Section 4 CONTROL EQUIPMENT *Not Applicable*

- () The type of each piece of air pollution control equipment
- () The capture and control efficiencies of the control equipment.

Section 5 SUMMARY SHEET OF POTENTIAL EMISSIONS *Not Applicable*

- () Quantity of potential emissions for criteria pollutants and HAPs emitted in tons per year for each emissions unit.
- () Fugitive emission estimations for the entire facility for criteria pollutants and HAPs emitted in tons per year.
- () Basis for all emission calculations.

Section 6 AN EXPLANATION OF PROPOSED EXEMPTIONS FROM OTHERWISE APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS *Not Applicable*

- () An explanation of the proposed exemption.

**MARYLAND DEPARTMENT OF THE ENVIRONMENT
AIR AND RADIATION ADMINISTRATION
RENEWAL TITLE V APPLICATION CHECKLIST**

Section 7 COMPLIANCE SCHEDULE FOR NONCOMPLYING *Not Applicable*
EMISSIONS UNITS

- () Identification of emissions unit(s) not in compliance, including the requirement being violated and the effective compliance date.
- () Detailed description of methods to be used to achieve compliance.
- () A schedule of remedial measures, including an enforceable sequence of actions with milestones.

Attachment

- (X) Checklist of Insignificant Activities
- () CAM Plan (If Applicable)

COVER PAGE

PART 70 PERMIT APPLICATION FOR RENEWAL
AIR AND RADIATION ADMINISTRATION

Facilities required to obtain a Part 70 permit under COMAR 26.11.03.01 must complete and return this form. Applications are incomplete unless all applicable information required by COMAR 26.11.03.03 and 26.11.03.13 is supplied. Failure to supply additional information required by the Department to enable it to act on the application may result in loss of the application shield and denial of this application.

Owner and Operator:

Name of Owner or Operator: <i>Cecil County Department of Public Works</i>		
Street Address: <i>200 Chesapeake Boulevard, Suite 2400A</i>		
City: <i>Elkton</i>	State: <i>MD</i>	Zip Code: <i>21921</i>
Telephone Number <i>410-996-6275</i>	Fax Number <i>410-287-4608</i>	

Facility Information:

Name of Facility: <i>Cecil County Central Landfill</i>		
Street Address: <i>758 East Old Philadelphia Road</i>		
City: <i>Elkton</i>	State: <i>MD</i>	Zip Code: <i>21921</i>
Plant Manager: <i>Fred Dollenger</i>	Telephone Number: <i>410-996-6275</i>	Fax Number: <i>410-287-4608</i>
24-Hour Emergency Telephone Number for Air Pollution Matters: <i>443-309-1030</i>		

List, on a separate page, the names and telephone numbers of other facility owners and persons with titles.



SECTION 1 - CERTIFICATION STATEMENTS

SECTION 1. CERTIFICATION STATEMENTS

1. Compliance Status with Applicable Enhanced Monitoring and Compliance Certification Requirements

The emissions units identified in this application are in compliance with applicable enhanced monitoring and compliance certification requirements.

2. Certification of Current Compliance with All Applicable Federally Enforceable Requirements

Except for the requirements identified in Section 7 of this application, for which compliance is not achieved, I hereby certify, based on information and belief formed after reasonable inquiry, that the facility is currently in compliance with all applicable federally enforceable requirements and agree that the facility will continue to comply with those requirements during the permit term.

You must complete a Section 7 form for each non-complying emissions unit.

3. Statement of Compliance with Respect to All New Applicable Requirements Effective During the Permit Term

I hereby state, based on information and belief formed after reasonable inquiry, that the facility agrees to meet, in a timely manner, all applicable federally enforceable requirements that become effective during the permit term, unless a more detailed schedule is expressly required by the applicable requirement.

4. Risk Management Plan Compliance

I hereby certify that, based on information and belief formed after reasonable inquiry, that a Risk Management Plan as required under 112(r) of the Clean Air Act:

☐ has been submitted;

☐ will be submitted at a future date; or

☒ does not need to be submitted.



MARYLAND DEPARTMENT OF THE ENVIRONMENT

5. Statement of Truth, Accuracy, and Completeness

"I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision and in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person(s) who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

RESPONSIBLE OFFICIAL
X

SIGNATURE

30 MAY 2024

DATE

Fred Dollenger
PRINTED NAME

Acting Chief, Solid Waste Management Division
TITLE



SECTION 2 - FACILITY DESCRIPTION SUMMARY

SECTION 2. FACILITY DESCRIPTION SUMMARY

1. Major Activities of Facility

Briefly describe the major activities, including the applicable SIC Code(s) and end product(s).

The Cecil County Central Landfill is a municipal solid waste (MSW) landfill, SIC 4953 owned Cecil County, Maryland and operated by Cecil County Department of Public Works (CCDPW). The permitted capacity of the landfill is approximately 23.3 million cubic yards or about 14 million tons. To manage the landfill gas (LFG) generated from the Central Landfill, CCDPW has developed a LFG Management System comprised of LFG extraction wells and horizontal gas collectors dispersed throughout the waste mass interconnected via a network of collection piping that is subsequently placed under vacuum. The LFG collected from the extraction well/piping network is directed to a flare for destruction via combustion. The leachate generated by the landfill is collected and gravity fed to Publicly Owned Treatment Works (POTW).

2. Facility-Wide Emissions

- A. This facility is required to obtain a Part 70 Operating Permit because it is:
Check appropriate box:

- ☐ Actual Major
☐ Potential Major
☐ Solid Waste Incineration Unit Requiring Permit Under § 129(e) of CAA

The Cecil County Central Landfill does not meet any of the three criterion listed above. The Cecil County Central Landfill is subject to Part 70 regulations because its design capacity is 17.7 million cubic meters, which is greater than 2.5 million cubic meters threshold under 40 CFR60.752(b) or NSPS for MSW landfills.

- B. List the actual facility-wide emissions below:

PM10 7.66 NOx 5.89 VOC 7.29 SOx 0.87 CO 16.0 HAPs 4.73
Based on the enclosed 2023 Emissions Certification Report included in Attachment 2.

3. Include With the Application:

Flow Diagrams showing all emissions units, emission points, and control devices;
Emissions Certification Report (copy of the most recent submitted to the Department.)

The drawing enclosed under Attachment 1 shows the existing conditions map that indicates the existing LFG collection system, LFG flare, and roads. A flow diagram was not required for this renewal as no changes are proposed to the facility at this time.



SECTION 3A - EMISSIONS UNIT DESCRIPTIONS

MARYLAND DEPARTMENT OF THE ENVIRONMENT

SECTION 3A. EMISSIONS UNIT DESCRIPTIONS

1. Emissions Unit No.: <u>EU01</u> 1a. Date of installation (month/year): <u>1982</u>	2. MDE Registration No.:(if applicable) <u>9-0096</u>												
3. Detailed description of the emissions unit, including all emission point(s) and the assigned number(s): <u>Municipal Solid Waste Landfill with a design capacity of 23.3 million cubic yards of MSW</u> <u>equipped with an active landfill gas collection and control system with an active open flare.</u> 													
4. Federally Enforceable Limit on the Operating Schedule for this Emissions Unit: General Reference: <u>None</u> Continuous Processes: _____ hours/day _____ days/year Batch Processes: _____ hours/batch _____ batches/day _____ days/year													
5. Fuel Consumption: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;">Type(s) of Fuel</th> <th style="width: 20%;">% Sulfur</th> <th style="width: 40%;">Annual Usage (specify units)</th> </tr> </thead> <tbody> <tr> <td>1. <u>Not applicable</u></td> <td></td> <td></td> </tr> <tr> <td>2. _____</td> <td></td> <td></td> </tr> <tr> <td>3. _____</td> <td></td> <td></td> </tr> </tbody> </table>		Type(s) of Fuel	% Sulfur	Annual Usage (specify units)	1. <u>Not applicable</u>			2. _____			3. _____		
Type(s) of Fuel	% Sulfur	Annual Usage (specify units)											
1. <u>Not applicable</u>													
2. _____													
3. _____													
6. Emissions in Tons: A. Actual Major: <u>N/A</u> Potential Major: <u>N/A</u> (note: before control device) B. Actual Emissions: NOx <u>0.00</u> SOx <u>0.00</u> VOC <u>6.89</u> PM10 <u>0.00</u> HAPs <u>4.68</u> <u>(Based on enclosed 2023 Emissions Certification Report under Attachment 2)</u>													



MARYLAND DEPARTMENT OF THE ENVIRONMENT

SECTION 3A. EMISSIONS UNIT DESCRIPTIONS

1. Emissions Unit No.: <u>EU02</u> 1a. Date of installation (month/year): <u>2007</u>	2. MDE Registration No.:(if applicable) <u>9-0096</u>												
3. Detailed description of the emissions unit, including all emission point(s) and the assigned number(s): <u>Cecil County Central Landfill operates a landfill gas collection and control system (LFGCCS) which</u> <u>used an active open flare to destruct the landfill gas collected from the landfill to control odors and</u> <u>gas migration. Maximum design flow rate of the open flare is 2,000 scfm of landfill gas at 50%</u> <u>methane concentration.</u> 													
4. Federally Enforceable Limit on the Operating Schedule for this Emissions Unit: General Reference: <u>None</u> Continuous Processes: _____ hours/day _____ days/year Batch Processes: _____ hours/batch _____ batches/day _____ days/year													
5. Fuel Consumption: <table style="width: 100%; border: none;"> <thead> <tr> <th style="text-align: left;">Type(s) of Fuel</th> <th style="text-align: left;">% Sulfur</th> <th style="text-align: left;">Annual Usage (specify units)</th> </tr> </thead> <tbody> <tr> <td>1. <u>Landfill Gas</u></td> <td><u>0.0047%</u></td> <td><u>30.0 MMBtu/hr, 262,800 MMBtu/yr</u></td> </tr> <tr> <td>2. _____</td> <td><u>(Based on 2,000 scfm capacity @ 50% methane concentration and 500 Btu/scf methane)</u></td> <td></td> </tr> <tr> <td>3. _____</td> <td></td> <td></td> </tr> </tbody> </table>		Type(s) of Fuel	% Sulfur	Annual Usage (specify units)	1. <u>Landfill Gas</u>	<u>0.0047%</u>	<u>30.0 MMBtu/hr, 262,800 MMBtu/yr</u>	2. _____	<u>(Based on 2,000 scfm capacity @ 50% methane concentration and 500 Btu/scf methane)</u>		3. _____		
Type(s) of Fuel	% Sulfur	Annual Usage (specify units)											
1. <u>Landfill Gas</u>	<u>0.0047%</u>	<u>30.0 MMBtu/hr, 262,800 MMBtu/yr</u>											
2. _____	<u>(Based on 2,000 scfm capacity @ 50% methane concentration and 500 Btu/scf methane)</u>												
3. _____													
6. Emissions in Tons: A. Actual Major: <u>N/A</u> Potential Major: <u>N/A</u> (note: before control device) B. Actual Emissions: NOx <u>2.50</u> SOx <u>0.65</u> VOC <u>0.07</u> PM10 <u>0.59</u> HAPs <u>0.05</u> <u>(Based on enclosed 2023 Emissions Certification Report under Attachment 2)</u>													



1. Emissions Unit No.: EU03		2. MDE Registration No.:(if applicable)	
1a. Date of installation (month/year): 1982		N/A	
3. Detailed description of the emissions unit, including all emission point(s) and the assigned number(s): Roadways and Operations: This emissions unit represents fugitive dust emissions from facility haul roads and emissions from landfill construction and operations.			
4. Federally Enforceable Limit on the Operating Schedule for this Emissions Unit: General Reference: None Continuous Processes: _____ hours/day _____ days/year Batch Processes: _____ hours/batch _____ batches/day _____ days/year			
5. Fuel Consumption:			
Type(s) of Fuel	% Sulfur	Annual Usage (specify units)	
1. Not Applicable			
2.			
3.			
6. Emissions in Tons:			
A.	Actual Major: N/A	Potential Major: N/A	(note: before control device)
B.	Actual Emissions:	NOx 0.00 SOx 0.00 VOC 0.00 PM10 6.83 HAPs 0.00	
(Based on enclosed 2023 Emissions Certification Report under Attachment 2)			



SECTION 3A. EMISSIONS UNIT DESCRIPTIONS

1. Emissions Unit No.: <u>EU04</u> 1a. Date of installation (month/year): <u>May 2005</u>	2. MDE Registration No.:(if applicable) <u>6-0252</u>												
3. Detailed description of the emissions unit, including all emission point(s) and the assigned number(s): <u>Morbark 1300 tub grinder that is used to chip yard waste/brush for beneficial use. This tub grinder is driven by 860 hp Caterpillar engine.</u>													
4. Federally Enforceable Limit on the Operating Schedule for this Emissions Unit: General Reference: <u>None</u> Continuous Processes: _____ hours/day _____ days/year Batch Processes: _____ hours/batch _____ batches/day <u>1,440</u> days hours/year													
5. Fuel Consumption: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Type(s) of Fuel</th> <th style="text-align: left;">% Sulfur</th> <th style="text-align: left;">Annual Usage (specify units)</th> </tr> </thead> <tbody> <tr> <td>1. <u>Diesel</u></td> <td><u>0.0015</u></td> <td><u>15.8 gal/hr; 22,758 gal/yr</u></td> </tr> <tr> <td colspan="3">2. <u>(Based on fuel consumption rate of 2.2 MMBtu/hr @ 139,200 BTU/gal and 1,440 hrs/yr)</u></td> </tr> <tr> <td colspan="3">3. _____</td> </tr> </tbody> </table>		Type(s) of Fuel	% Sulfur	Annual Usage (specify units)	1. <u>Diesel</u>	<u>0.0015</u>	<u>15.8 gal/hr; 22,758 gal/yr</u>	2. <u>(Based on fuel consumption rate of 2.2 MMBtu/hr @ 139,200 BTU/gal and 1,440 hrs/yr)</u>			3. _____		
Type(s) of Fuel	% Sulfur	Annual Usage (specify units)											
1. <u>Diesel</u>	<u>0.0015</u>	<u>15.8 gal/hr; 22,758 gal/yr</u>											
2. <u>(Based on fuel consumption rate of 2.2 MMBtu/hr @ 139,200 BTU/gal and 1,440 hrs/yr)</u>													
3. _____													
6. Emissions in Tons: A. Actual Major: <u>N/A</u> Potential Major: <u>N/A</u> (note: before control device) B. Actual Emissions: NOx <u>1.33</u> SOx <u>0.09</u> VOC <u>0.13</u> PM10 <u>0.09</u> HAPs <u>0.002</u> <u>(Based on enclosed 2023 Emissions Certification Report under Attachment 2)</u>													



SECTION 3A. EMISSIONS UNIT DESCRIPTIONS

1. Emissions Unit No.: <u>EU05</u> 1a. Date of installation (month/year): <u>May 2008</u>	2. MDE Registration No.:(if applicable) <u>9-0176</u>												
3. Detailed description of the emissions unit, including all emission point(s) and the assigned number(s): <u>Vermeer HG6000 horizontal grinder that is used to chip yard waste/brush for beneficial use. This</u> <u>grinder is driven by a 630 hp Caterpillar engine.</u>													
4. Federally Enforceable Limit on the Operating Schedule for this Emissions Unit: General Reference: <u>None</u> Continuous Processes: _____ hours/day _____ days/year Batch Processes: _____ hours/batch _____ batches/day <u>728</u> days hours/year													
5. Fuel Consumption: <table style="width:100%; border: none;"> <thead> <tr> <th style="text-align: left;">Type(s) of Fuel</th> <th style="text-align: left;">% Sulfur</th> <th style="text-align: left;">Annual Usage (specify units)</th> </tr> </thead> <tbody> <tr> <td>1. <u>Diesel</u></td> <td><u>0.0015</u></td> <td><u>11.5 gal/hr; 8,372 gal/yr</u></td> </tr> <tr> <td colspan="3">2. <u>(Based on fuel consumption rate of 1.6 MMBtu/hr @ 139,200 BTU and 728 hr/yr</u></td> </tr> <tr> <td colspan="3">3. _____</td> </tr> </tbody> </table>		Type(s) of Fuel	% Sulfur	Annual Usage (specify units)	1. <u>Diesel</u>	<u>0.0015</u>	<u>11.5 gal/hr; 8,372 gal/yr</u>	2. <u>(Based on fuel consumption rate of 1.6 MMBtu/hr @ 139,200 BTU and 728 hr/yr</u>			3. _____		
Type(s) of Fuel	% Sulfur	Annual Usage (specify units)											
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2. <u>(Based on fuel consumption rate of 1.6 MMBtu/hr @ 139,200 BTU and 728 hr/yr</u>													
3. _____													
6. Emissions in Tons: A. Actual Major: <u>N/A</u> Potential Major: <u>N/A</u> (note: before control device) B. Actual Emissions: NOx <u>2.06</u> SOx <u>0.14</u> VOC <u>0.20</u> PM10 <u>0.15</u> HAPs <u>0.003</u> <i>(Based on enclosed 2023 Emissions Certification Report under Attachment 2)</i>													



SECTION 3B - CITATION AND DESCRIPTION OF APPLICABLE FEDERALLY
ENFORCEABLE REQUIREMENTS

SECTION 3B. CITATION TO AND DESCRIPTION OF APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS

Emissions Unit No.: EU01 General Reference: 40 CFR 60.Subpart WWW

Briefly describe the Emission Standard/Limit or Operational Limitation:

Cecil County Central Landfill is subject to testing, recordkeeping and reporting requirements indicated below.

Permit Shield Request: Yes

Compliance Demonstration:

Check appropriate reports required to be submitted:

- ☐ Quarterly Monitoring Report: _____
☒ Annual Compliance Certification: _____
☒ Semi-Annual Monitoring Report: _____

Methods used to demonstrate compliance:

Monitoring: Reference None Describe: N/A

Testing: Reference 40CFR§60.754(a)(3)(iii) Describe: 40CFR§60.754(a)(3)(iii) - If the resulting NMOC mass emission rate is less than 50 megagrams per year, the owner or operator shall submit a periodic estimate of the emission rate report as provided in §60.757(b)(1) and retest the site specific NMOC concentration every 5 years using the methods specified in this section.

Record Keeping: Reference COMAR 26.11.03.06 C Describe: The Permittee shall keep all the records required under this permit for at least five years and shall make such records available to the Department upon request.

Record Keeping: Reference 40 CFR 60.758(a) Describe: The Permittee shall keep for at least 5 years up-to-date, readily accessible, on-site records of the design capacity report which triggered the requirements of 40 CFR 60.752(b), the current amount of solid waste in place, and the year-by-year waste acceptance rate. Off-site records may be maintained if they are retrievable within 4 hours. Either paper copy or electronic formats are acceptable.

Reporting: Reference 40 CFR 60.757(b) Describe: In accordance with 40CFR 60.757(b), "each owner or operator subject to the requirements of this subpart shall submit an NMOC emission rate report to the Administrator initially and annually thereafter, except as provided for in paragraphs (b)(1)(ii) or (b)(3) of this section. The Administrator may request such additional information as may be necessary to verify the reported NMOC emission rate.

1) The NMOC emission rate report shall contain an annual or 5-year estimate of the NMOC emission rate calculated using the formula and procedures provided in § 60.754(a) or (b), as applicable.

(i) The initial NMOC emission rate report may be combined with the initial design capacity report required in paragraph (a) of this section and shall be submitted no later than indicated in paragraphs (b)(1)(i)(A) and (B) of this section. Subsequent NMOC emission rate reports shall be submitted annually thereafter, except as provided for in paragraphs (b)(1)(ii) and (b)(3) of this section.

(A) June 10, 1996, for landfills that commenced construction, modification, or reconstruction on or after May 30, 1991, but before March 12, 1996, or (B) Ninety days after the date of commenced construction, modification, or reconstruction for landfills that commence construction, modification, or reconstruction on or after March 12, 1996.

(ii) If the estimated NMOC emission rate as reported in the annual report to the Administrator is less than 50 megagrams per year in each of the next 5 consecutive years, the owner or operator may elect to submit an estimate of the NMOC emission rate for the next 5-year period in lieu of the annual report.

This estimate shall include the current amount of solid waste-in-place and the estimated waste acceptance rate for each year of the 5 years for which an NMOC emission rate is estimated.

All data and calculations upon which this estimate is based shall be provided to the Administrator. This estimate shall be revised at least once every 5 years. If the actual waste acceptance rate exceeds the estimated waste acceptance rate in any year reported in the 5-year estimate, a revised 5-year estimate shall be submitted to the Administrator. The revised estimate shall cover the 5-year period beginning with the year in which the actual waste acceptance rate exceeded the estimated waste acceptance rate.

(2) The NMOC emission rate report shall include all the data, calculations, sample reports and measurements used to estimate the annual or 5-year emissions.

(3) Each owner or operator subject to the requirements of this subpart is exempted from the requirements of paragraphs (b)(1) and (2) of this section, after the installation of a collection and control system in compliance with § 60.752(b)(2), during such time as the collection and control system is in operation and in compliance with §§ 60.753 and 60.755.

Reporting: Reference 40 CFR 60.757(c) Describe: In accordance to 40CFR 60.757(c), "each owner or operator subject to the provisions of § 60.752(b)(2)(i) shall submit a collection and control system design plan to the Administrator within 1 year of the first report required under paragraph (b) of this section in which the emission rate equals or exceeds 50 megagrams per year, except as follows:

(1) If the owner or operator elects to recalculate the NMOC emission rate after Tier 2 NMOC sampling and analysis as provided in § 60.754(a)(3) and the resulting rate is less than 50 megagrams per year, annual periodic reporting shall be resumed, using the Tier 2 determined site-specific NMOC concentration, until the calculated emission rate is equal to or greater than 50 megagrams per year or the landfill is closed. The revised NMOC emission rate report, with the recalculated emission rate based on NMOC sampling and analysis, shall be submitted within 180 days of the first calculated exceedance of 50 megagrams per year.

(2) If the owner or operator elects to recalculate the NMOC emission rate after determining a site-specific methane generation rate constant (k), as provided in Tier 3 in § 60.754(a)(4), and the resulting NMOC emission rate is less than 50 Mg/yr, annual periodic reporting shall be resumed. The resulting site-specific methane generation rate constant (k) shall be used in the emission rate calculation until such time as the emissions rate calculation results in an exceedance. The revised NMOC emission rate report based on the provisions of § 60.754(a)(4) and the resulting site-specific methane generation rate constant (k) shall be submitted to the Administrator within 1 year of the first calculated emission rate exceeding 50 megagrams per year.

Reporting: Reference COMAR 26.11.19.20 D (7) Describe: The Permittee may, upon approval by the Department, submit a combined report to satisfy the NMOC reporting requirements and the annual Emissions Certification requirements. Such report shall be submitted by April 1 of each year for the previous calendar year.

Frequency of submittal of the compliance demonstration: As noted above.

Emissions Unit No.: EU01 General Reference: 40CFR 60, Subpart WWW

Briefly describe the Emission Standard/Limit or Operational Limitation:

Please note that these conditions are only applicable when the landfill's uncontrolled NMOC emission rate exceeds 50 megagrams or 55 tons per year. According to the 2022 Tier 2 NMOC Emission 5 Year Recheck Report enclosed under Attachment 3, the 2027 NMOC emissions for the Central Landfill are estimated to be 35.00 megagrams/year. NMOC emissions are not projected to exceed 50 Mg/yr during the new permit term.

Standards for Air Emissions:

- (1) The Permittee shall ensure that the gas collection and control system satisfies the requirements for an active collection system as provided for in §60.752(b)(2)(ii)(A)(1) through (4). The Permittee shall install the gas collection and control system according to the specifications in §60.759. [Reference: 40 CFR 60.752(b)(2)(ii)(A) and 60.757]
- (2) The Permittee shall route all the collected landfill gas to a control system designed and operated to reduce nonmethane organic compounds (NMOC) by 98 weight-percent as provided for in §60.752(b)(2)(iii)(B). [Reference: 40 CFR 60.752(b)(2)(iii) and (iii)(B)]
- (3) The Permittee may cap or remove the collection and control system provided that all the conditions of §60.752(b)(2)(v)(A) - (C) are met. The NMOC gas produced by the landfill shall be calculated following the procedures specified in §60.754(b). [Reference: 40 CFR 60.752(b)(2)(v)]
- (4) When the landfill is closed, the Permittee is no longer subject to the requirement to maintain an operating permit under Part 70 for the landfill if the landfill is not otherwise subject to the requirements of part 70 and if either of the conditions in §60.752(b)(1) and (2) are met. [Reference: 40 CFR 60.752(b)]
- (5) The Permittee shall not cause or allow any material to be handled, transported, or stored; or a building, its appurtenances; or a road to be used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne. [Reference: COMAR 26.11.06.03D(2)]

Permit Shield Request: Yes

Compliance Demonstration:

Check appropriate reports required to be submitted:

- ☐ Quarterly Monitoring Report: _____
- ☒ Annual Compliance Certification: _____
- ☒ Semi-Annual Monitoring Report: _____

Methods used to demonstrate compliance:

Monitoring: Reference 40 CFR 60.756 Describe: (1) The monitoring requirements to ensure compliance with this air emission standard are addressed as part of the monitoring requirements listed below for Section B, Item (2). (2) through (5) See record keeping and reporting requirements.

Testing: Reference 40 CFR 60, Subpart WWW Describe:

- (1) The Permittee shall use the methods specified in §60.755(a)(1) through (a)(6) to determine whether the gas collection system is in compliance with the requirements for an active collection system in §60.752(b)(ii)(A). [Reference: 40 CFR 60.755(a)]
- (2) None
- (3) The Permittee shall follow the procedures in §60.754(b) to calculate the NMOC gas produced by the landfill to determine if the collection and control system may be capped or removed as provided in §60.752(b)(2)(v). [Reference: 40 CFR 60.754(b)]
- (4) None
- (5) None

Record Keeping: Reference 40 CFR 60, Subpart WWW Describe: Recordkeeping Requirements.

- (1) Except as provided for in §60.752(b)(2)(i)(B):
 - (a) The Permittee shall keep for the life of the collection system an up-to-date, readily accessible plot map showing each existing and planned collector in the system and providing a unique identification location for each collector as specified in §60.758(d)(1) and (2). [Reference: 40 CFR 60.758(d)]
 - (b) The Permittee shall keep up-to-date, readily accessible records for the life of the control equipment of the data listed in §60.758(b)(1) as measured during the initial performance test. Records of subsequent tests or monitoring shall be maintained for a minimum of 5 years.
- (2) through (5): None

Reporting: Reference 40 CFR 60, Subpart WWW Describe: (1) & (2) None.

- (3) The Permittee shall submit an equipment removal report to the Administrator 30 days prior to removal or cessation of operation of the control equipment as required in §60.757(e)(1) through (2). [Reference: 40 CFR 60.757(e)]
- (4) The Permittee shall submit a closure report to the Administrator within 30 days of waste acceptance cessation as required in §60.757(d). If a closure report has been submitted to the Administrator, no additional wastes may be placed into the landfill without the Permittee filing a notification of modification as described in §60.7(a)(4). [Reference: 40 CFR 60.757(d)]
- (5) None.

Frequency of submittal of the compliance demonstration: As noted above.

Emissions Unit No.: EU01 General Reference: 40CFR 60 Subpart WWW

Briefly describe the Emission Standard/Limit or Operational Limitation:

Cecil County Central Landfill is subject to testing, recordkeeping and reporting requirements indicated below.

Please note that these conditions are only applicable when the landfill's uncontrolled NMOC emission rate exceeds 50 megagrams or 55 tons per year. According to the 2022 Tier 2 NMOC Emission 5 Year Recheck Report enclosed under Attachment 3, the 2027 NMOC emissions for the Central Landfill are estimated to be 35.00 megagrams/year. NMOC emissions are not projected to exceed 50 Mg/yr during the new permit term.

Operational Standards: [Reference: 40 CFR 60.753]

- (1) The Permittee shall operate the gas collection and control system such that landfill gas is collected from each area, cell, or group of cells in the MSW landfill in which solid waste has been in place for 5 years or more if active; or 2 years or more if closed or at final grade. [Reference: 40 CFR 60.752(b)(2)(ii)(A)(2) and 60.753(a)]
- (2) The Permittee shall operate the collection system with negative pressure at each wellhead except under the conditions specified in §60.753(b)(1) - (3). [Reference: 40 CFR 60.753(b)]
- (3) The Permittee shall operate each interior wellhead in the collection system with a landfill gas temperature less than 55° C and with either a nitrogen level less than 20 percent or an oxygen level less than 5 percent. The Permittee may establish a higher operating temperature, nitrogen, or oxygen value at a particular well as provided for in §60.753(c). [Reference: 40 CFR 60.753(c)]
- (4) The Permittee shall operate the collection system so that the methane concentration is less than 500 parts per million above background at the surface of the landfill. To determine if this level is exceeded, the Permittee shall conduct surface testing around the perimeter of the collection area and along a pattern that traverses the landfill as provided for in §60.753(d). [Reference: 40 CFR 60.753(d)]
- (5) In the event the collection or control system is inoperable, the Permittee shall shut down the gas mover system and shall close, within one hour, all valves in the collection and control system contributing to venting of the gas to the atmosphere. [Reference: 40 CFR 60.753(e)]
- (6) The Permittee shall operate the control or treatment system at all times when the collected gas is routed to the system. [Reference: 40 CFR 60.753(f)]
- (7) The Permittee shall take corrective action as specified in §60.755(a)(3) through (5) or §60.755(c) of 40 CFR 60, Subpart WWW if monitoring demonstrates that the operational requirements in §60.753(b), (c), or (d) are not met. If corrective actions are taken as specified in §60.755, the monitored exceedance is not a violation of the operational requirements in §60.753. [Reference: 40 CFR 60.753(g)]
- (8) The Permittee shall take reasonable precautions, including the application of water on unpaved roads and other surfaces, to prevent particulate matter from becoming airborne. [Reference: COMAR26.11.06.03D(2)]

Permit Shield Request: Yes

Compliance Demonstration:

Check appropriate reports required to be submitted:

- ☐ Quarterly Monitoring Report: _____
- ☒ Annual Compliance Certification: _____
- ☒ Semi-Annual Monitoring Report: _____

Methods used to demonstrate compliance:

Monitoring: Reference [40CFR§60.753](#) Describe:

- (1) [None.](#)
- (2) [The Permittee shall install a sampling port at each wellhead. \[Reference: 40 CFR 60.756\(a\)\] The Permittee shall measure the gauge pressure in the gas collection header on a monthly basis as provided in §60.755\(a\)\(3\). \[Reference: 40 CFR 60.756\(a\)\(1\)\]](#)
 - (a) [If a positive pressure exists, the Permittee shall initiate corrective action within 5 days, except for the conditions allowed under §60.753\(b\). \[Reference: 40 CFR 60.755\(a\)\(3\)\]](#)
 - (b) [If negative pressure cannot be achieved without excess air infiltration into the landfill within 15 days of the first measurement of a positive pressure in a wellhead, the Permittee shall expand the gas collection system to correct the exceedance within 120 days of the measurement of the positive pressure. \[Reference: 40 CFR 60.755\(a\)\(3\)\]](#)
- (3) [The Permittee shall:](#)
 - (a) [Install a thermometer, other temperature-measuring device, or an access port for temperature measurements at each wellhead. \[Reference: 40 CFR 60.756\(a\)\]](#)
 - (b) [Monitor nitrogen or oxygen concentration in the landfill gas on a monthly basis as provided in §60.755\(a\)\(5\). \[Reference: 40 CFR 60.756\(a\)\(2\)\]](#)
 - (c) [Monitor temperature of the landfill gas on a monthly basis as provided in §60.755\(a\)\(5\). \[Reference: 40 CFR 60.756\(a\)\(3\)\]](#)
 - (d) [If a well exceeds the temperature, nitrogen, or oxygen operating parameters specified in §60.753\(c\), the Permittee shall initiate action to correct the exceedance as provided in §60.755\(a\)\(5\). \[Reference: 40 CFR 60.755\(a\)\(5\)\]](#)
- (4) [The Permittee shall use the procedures specified in §60.755\(c\)\(1\) through \(c\)\(5\) to demonstrate compliance with the surface methane operational standard as provided in §60.753\(d\) and as detailed in the Updated Surface Monitoring Design Plan. \[Reference: 40 CFR 60.755\(c\)\]](#)
 - (a) [The Permittee shall comply with the instrumentation specifications and procedures for surface emission monitoring devices as specified in §60.755\(d\) and monitor surface concentrations of methane according to the instrument specifications and procedures. \[Reference: 40 CFR 60.755\(d\)\]](#)
 - (b) [The Permittee shall record as a monitored exceedance any reading of 500 parts per million or more of methane above background at any location and the Permittee shall take the actions specified in §60.755\(c\)\(4\)\(i\) through \(v\). As long as the specified actions are taken, the exceedance is not a violation of the operational requirements of §60.753\(d\). \[Reference: 40 CFR 60.755\(c\)\(4\)\]](#)
 - (c) [The Permittee shall implement a program to monitor for cover integrity and implement cover repair as necessary on a monthly basis. \[Reference: 40 CFR 60.755\(c\)\(5\)\]](#)
 - (d) [When the landfill is closed and it has no monitored exceedances of the 500 ppm operational standard for surface methane concentrations in three consecutive quarterly monitoring periods, the Permittee may convert to an annual monitoring frequency. Any methane reading of 500 ppm or more above background detected during the annual monitoring returns the frequency for that landfill to quarterly monitoring. \[Reference: 40 CFR 60.756\(f\)\]](#)
- (5) [through \(8\) None](#)

Testing: Reference [40CFR§60.753](#) Describe: [The nitrogen level shall be determined as prescribed in 60.753\(c\)\(1\) and the oxygen level shall be determined as prescribed in 60.753\(c\)\(2\).](#)

Record Keeping: Reference [40CFR§60 Subpart WWW](#) Describe:

- (1) [None](#)
- (2) [through \(4\) Except as provided for in §60.752\(b\)\(2\)\(i\)\(B\), the Permittee shall keep for five years up-to-date, readily accessible monthly records of the gauge pressure in the gas collection system nitrogen or oxygen concentrations in the landfill gas, and temperature of the landfill gas as specified to be monitored in §60.756\(a\). In a similar manner, the Permittee will keep records of the surface methane concentrations monitored as specified in §60.756\(f\). \[Reference: 40 CFR 60.758\(c\)\] \(2\) The Permittee shall record instances when positive pressure occurs in efforts to avoid a fire. These records shall be submitted with the annual report as provided in §60.757\(f\)\(1\). \[Reference: 40 CFR 60.753\(b\)\(1\)\]](#)
- (5) & (6) [None](#)

- (7) Except as provided for in §60.752(b)(2)(i)(B), the Permittee shall keep for at least 5 years up-to-date, readily accessible records of all collection and control system exceedances of the operational standards in §60.753 for wellhead pressure, landfill gas temperature, and nitrogen or oxygen concentrations of the landfill gas as specified in §60.758(e). [Reference: 40 CFR 60.758(e)]
- (8) None

Reporting: Reference 40CFR§60.757(f) Describe: (1) through (6) The permittee must submit to the Administrator annual reports of the recorded information in 60.757(f)(1) through (6). The reportable exceedances for the enclosed flare are defined under 60.758(c).

Frequency of submittal of the compliance demonstration: As noted above.

Emissions Unit No.: EU01 General Reference: 40CFR 60, Subpart WWW

Briefly describe the Emission Standard/Limit or Operational Limitation:

Cecil County Central Landfill is subject to testing, recordkeeping and reporting requirements indicated below.

Please note that these conditions are only applicable when the landfill's uncontrolled NMOC emission rate exceeds 50 megagrams or 55 tons per year. According to the 2022 Tier 2 NMOC Emission 5 Year Recheck Report enclosed under Attachment 3, the 2027 NMOC emissions for the Central Landfill are estimated to be 35.00 megagrams/year. NMOC emissions are not projected to exceed 50 Mg/yr during the new permit term.

Other Requirements:

The provisions of 40 CFR 60, Subpart WWW apply at all times, except during periods of start-up, shutdown, or malfunction, provided that the duration of start-up, shutdown, or malfunction shall not exceed 5 days for collection systems and shall not exceed one (1) hour for treatment or control devices. [Reference: 40 CFR 60.755(e)]

Permit Shield Request: Yes

Compliance Demonstration:

Check appropriate reports required to be submitted:

- ☐ Quarterly Monitoring Report: _____
☒ Annual Compliance Certification: _____
☒ Semi-Annual Monitoring Report: _____

Methods used to demonstrate compliance:

Monitoring: Reference None Describe: N/A

Testing: Reference None Describe: N/A

Record Keeping: Reference 40CFR§60.758(a) Describe: Except as provided in §60.752(b)(2)(i)(B), the Permittee shall keep for at least 5 years up-to-date, readily accessible, on-site records of the design capacity report which triggered §60.752(b), the current amount of solid waste in-place, and the year-by-year waste acceptance rate. Off-site records may be maintained if they are retrievable within 4 hours. Either paper copy or electronic formats are acceptable.

Record Keeping: Reference 40CFR§60.758(c) Describe: Except as provided in §60.752(b)(2)(i)(B), the Permittee shall keep for at least 5 years up-to-date, readily accessible, for periods of operation during which the parameter boundaries established during the most recent performance test are exceeded.

Record Keeping: Reference 40CFR§60.758(c)(2) Describe: The Permittee shall keep up-to-date, readily accessible continuous records of the indication of flow to the control device or the indication of bypass flow or records of monthly inspection of car-seals or lock and key configurations used to seal bypass lines, specified under 60.756.

Reporting: Reference 40CFR§60.757(b) Describe: The permittee must submit an annual NMOC emission rate report to the Administrator. The report is due on the anniversary of the Permittee's initial submittal of the NMOC report as required in 40 CFR 60.757(b).

Exception: The Permittee is exempted from the requirement of 40 CFR 60.757(b)(1) and (2), after the installation of a landfill gas collection and control system in compliance with 60.752(b)(2), during such time as the collection and control system is in operation and in compliance with 60.753 and 60.755.

Frequency of submittal of the compliance demonstration: As noted above.

SECTION 3B. CITATION TO AND DESCRIPTION OF APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS

Emissions Unit No.: EU01 General Reference: 40CFR 63, Subpart AAAA

Briefly describe the Emission Standard/Limit or Operational Limitation:

Cecil County Central Landfill is subject to testing, recordkeeping and reporting requirements indicated below.

Please note that these conditions are only applicable when the landfill's uncontrolled NMOC emission rate exceeds 50 megagrams or 55 tons per year. According to the 2022 Tier 2 NMOC Emission 5 Year Recheck Report enclosed under Attachment 3, the 2027 NMOC emissions for the Central Landfill are estimated to be 35.00 megagrams/year. NMOC emissions are not projected to exceed 50 Mg/yr during the new permit term.

Permit Shield Request: Yes

Compliance Demonstration:

Check appropriate reports required to be submitted:

- ☐ Quarterly Monitoring Report: _____
☒ Annual Compliance Certification: _____
☒ Semi-Annual Monitoring Report: _____

Methods used to demonstrate compliance:

Monitoring: Reference 40CFR§63.1961 Describe: Monitoring of operations.

Testing: Reference 40CFR§63.1955 Describe: The permittee shall comply with the requirements of 40 CFR 60 Subpart WWW. The collection and control system design plan may include for approval collection and control systems that include any alternatives to the operational standards, test methods, procedures, compliance measures, monitoring, record-keeping, or reporting provisions, as provided in §63.1981(d)(2).

Record Keeping: Reference 40CFR§63.1983 Describe: The Permittee shall comply with the record keeping provisions of 40 CFR Part 63.

Reporting: Reference 40CFR§63.1981 Describe: The permittee shall comply with the reporting requirements of 40 CFR Part 63.

Frequency of submittal of the compliance demonstration: As noted above.

SECTION 3B. CITATION TO AND DESCRIPTION OF APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS

Emissions Unit No.: EU01 General Reference: 40CFR 62, Subpart 000

Briefly describe the Emission Standard/Limit or Operational Limitation:

As described in 40 CFR Part 62 16710 - 16730, Cecil County Central Landfill as an MSW Landfill that commenced Construction on or before July 17, 2014 and not modified or reconstructed since that date, is subject to testing, recordkeeping, and reporting requirements indicated below.

Planning, awarding of contracts, installing, and starting up MSW landfill air emission collection and control equipment that is capable of meeting the emission standards of §62.16714 must be completed within 30 months after the date an NMOC emission rate report shows NMOC emissions equal or exceed 34 megagrams per year; or within 30 months after the date of the most recent NMOC emission rate report that shows NMOC emissions equal or exceed 34 megagrams per year, if Tier 4 surface emissions monitoring (SEM) shows a surface emission concentration of 500 parts per million methane or greater.

Permit Shield Request: Yes

Compliance Demonstration:

Check appropriate reports required to be submitted:

- ☐ Quarterly Monitoring Report: _____
- ☒ Annual Compliance Certification: _____
- ☒ Semi-Annual Monitoring Report: _____

Methods used to demonstrate compliance:

Monitoring: Reference 40CFR§62.16722 Describe: Monitoring of operations.

Testing: Reference 40CFR§62.16718 Describe: The permittee shall comply with the requirements of 40 CFR Part 62 Subpart 000.

Record Keeping: Reference 40CFR§62.16726 Describe: The Permittee shall comply with the record keeping provisions of 40 CFR Part 62 Subpart 000.

Reporting: Reference 40CFR§62.16724 Describe: The permittee shall comply with the reporting requirements of 40 CFR Part 62 Subpart 000.

Frequency of submittal of the compliance demonstration: As noted above.

SECTION 3B. CITATION TO AND DESCRIPTION OF APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS

Emissions Unit No.: EU02 General Reference: COMAR 26.11.06.02

Briefly describe the Emission Standard/Limit or Operational Limitation:

Control of Visible Emissions:

COMAR 26.11.06.02 C (1) - In Areas I, II, V, and VI a person may not cause or permit the discharge of emissions from any installation or building, other than water in an uncombined form, which is greater than 20 percent opacity.

Exception - COMAR 26.11.06.02 A (2) - The visible emissions standards in §C of this regulation do not apply to emissions during start-up and process modifications or adjustments, or occasional cleaning of control equipment, if:

- (a) The visible emissions are not greater than 40 percent opacity; and
- (b) The visible emissions do not occur for more than 6 consecutive minutes in any 60 minute period.

Permit Shield Request: Yes

Compliance Demonstration:

Check appropriate reports required to be submitted:

- ☐ Quarterly Monitoring Report: _____
- ☒ Annual Compliance Certification: _____
- ☒ Semi-Annual Monitoring Report: _____

Methods used to demonstrate compliance:

Monitoring: Reference COMAR 26.11.03.06 C Describe: The Permittee shall properly operate and maintain the landfill gas vents in a manner to prevent visible emissions.

Testing: Reference None Describe: N/A

Record Keeping: Reference COMAR 26.11.03.06 C Describe: The Permittee shall maintain an operations manual and preventive maintenance plan and records of maintenance that relates to combustion performance. All records must remain on site for at least five years and make these records available to the Department upon request.

Reporting: Reference None Describe: The Permittee shall report incidents of visible emissions in accordance with Permit Condition 4, Section III, Plant Wide Condition, "Report of Excess Emissions and Deviations."

Frequency of submittal of the compliance demonstration: As noted above.

SECTION 3B. CITATION TO AND DESCRIPTION OF APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS

Emissions Unit No.: EU02 General Reference: 40 CFR 60.18

Briefly describe the Emission Standard/Limit or Operational Limitation:

Operational Standard:

Flares shall be operated with a flame present at all times, as determined by the methods specified in §60.18(f)(2)." [Reference: 40 CFR §60.18]

(2) If the calculated NMOC emission rate is equal to or greater than 50 megagrams per year, the owner or operator shall:

(iii) Route all the collected gas to a control system that complies with the requirements in either paragraph (b)(2)(iii) (A), (B) or (C) of this section.

(A) An open flare designed and operated in accordance with §60.18 except as noted in §60.754(e)" [Reference: 40 CFR Part 60.752(b)]

The Permittee shall operate and maintain the flare system in accordance with the manufacturer's recommendations. [Reference: MDE PTC No. 015-9-0163M PTC modification dated April 17, 2007]

Permit Shield Request: Yes

Compliance Demonstration:

Check appropriate reports required to be submitted:

- ☐ Quarterly Monitoring Report: _____
- ☒ Annual Compliance Certification: _____
- ☒ Semi-Annual Monitoring Report: _____

Methods used to demonstrate compliance:

Monitoring: Reference 40 CFR Part 60.756(c) Describe: Each owner or operator seeking to comply with §60.752(b)(2)(iii) using an open flare shall install, calibrate, maintain, and operate according to the manufacturer's specifications the following equipment:

(1) A heat sensing device, such as an ultraviolet beam sensor or thermocouple, at the pilot light or the flame itself to indicate the continuous presence of a flame.

(2) A device that records flow to or bypass of the flare. The owner or operator shall either:

(i) Install, calibrate, and maintain a gas flow rate measuring device that shall record the flow to the control device at least every 15 minutes; or

(ii) Secure the bypass line valve in the closed position with a car-seal or a lock-and-key type configuration. A visual inspection of the seal or closure mechanism shall be performed at least once every month to ensure that the valve is maintained in the closed position and that the gas flow is not diverted through the bypass line. [Reference: 40 CFR Part 60.756(c)]

Testing: Reference None Describe: N/A

Record Keeping: Reference 40 CFR Part 60.758(b) Describe: The Permittee shall keep up-to-date, readily accessible records of the flame or flare pilot flame monitoring as specified under §60.756(c) for open flares and up-to-date, readily accessible records of all periods of operation in which the flame or flare pilot is absent during those instances when the utility flare is being used while it is out-of-service. [Reference: 40 CFR 60.758(b)(4) and MOE ARMA/AQPP Letter, October 2, 1995].

The Permittee shall keep up-to-date, readily accessible records of the control device vendor specifications until the control device is removed . [Reference: 40CFR 60. 758(b)].

Frequency of submittal of the compliance demonstration: As noted above.

SECTION 3B. CITATION TO AND DESCRIPTION OF APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS

Emissions Unit No.: EU03 General Reference: COMAR 26.11.06.03

Briefly describe the Emission Standard/Limit or Operational Limitation:

The Roadways and Operations have the following applicable standards/limits:

Control of Particulate Matter

COMAR 26.11.06.03 D -The Permittee shall not cause or permit any materials to be handled, transported, or stored, or a building, its appurtenances, or a road to be used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne.

Permit Shield Request: Yes

Compliance Demonstration:

Check appropriate reports required to be submitted:

- ☐ Quarterly Monitoring Report: _____
☒ Annual Compliance Certification: _____
☒ Semi-Annual Monitoring Report: _____

Methods used to demonstrate compliance:

Monitoring: Reference COMAR 26.11.03.06 Describe: The Permittee shall prepare and update, as needed a best management practices plan that describes the procedures and methods that will be used to take reasonable precautions.

Monitoring: Reference COMAR 26.11.03.06 Describe: The Permittee shall perform an inspection at minimum once a month to verify that best management practices are being implemented and that the precautions are sufficient to control particulate matter emissions.

Testing: Reference None Describe: N/A.

Record Keeping: Reference COMAR 26.11.03.06 C Describe: The Permittee shall maintain the Plan and records of the dates and results of inspections for at least five (5) years and make them available to the Department upon request.

Reporting: Reference None Describe: The Permittee shall report incidents of visible emissions in accordance with Permit Condition 4, Section III, Plant Wide Condition, "Report of Excess Emissions and Deviations."

Frequency of submittal of the compliance demonstration: As noted above.

SECTION 3B. CITATION TO AND DESCRIPTION OF APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS

Emissions Unit No.: EU04 & EU05 General Reference: COMAR 26.11.09.05

Briefly describe the Emission Standard/Limit or Operational Limitation:

The Morbark 1300 Tub & Vermeer HG6000 Horizontal Grinders have the following applicable standards/limits:

Control of Visible Emissions, Visible Emission Standards

COMAR 26.11.06.02 C (1) - In Areas I, II, V, and VI a person may not cause or permit the discharge of emissions from any installation or building, other than water in an uncombined form, which is greater than 20 percent opacity.

General Exceptions

COMAR 26.11.06.02 A (2) - The visible emissions standards in §C of this regulation do not apply to emissions during start-up and process modifications or adjustments, or occasional cleaning of control equipment, if:

- (c) The visible emissions are not greater than 40 percent opacity; and
- (d) The visible emissions do not occur for more than 6 consecutive minutes in any 60 minute period.

For Engines Only

COMAR 26.11.09.05 E (2) - "Emissions During Idle Mode. A person may not cause or permit the discharge of emissions from any engine, operating at idle, greater than 10 percent opacity.

COMAR 26.11.09.05 E (3) - Emissions During Operating Mode. A person may not cause or permit the discharge of emissions from any engine, operating at other than idle conditions, greater than 40 percent opacity.

Exceptions

COMAR 26.11.09.05 E (4) - Exceptions.

- (a) Section E (2) of this regulation does not apply for a period of 2 consecutive minutes after a period of idling of 15 consecutive minutes for the purpose of clearing the exhaust system.
- (b) Section E (2) of this regulation does not apply to emissions resulting directly from cold engine start-up and warm-up for the following maximum periods:
 - i. Engines that are idled continuously when not in service: 30 minutes;
 - ii. All other engines: 15 minutes.
- (c) Section E (2) and (3) of this regulation do not apply while maintenance, repair, or testing is being performed by qualified mechanics.

Permit Shield Request: Yes

Compliance Demonstration:

Check appropriate reports required to be submitted:

- ☐ Quarterly Monitoring Report: _____
- ☒ Annual Compliance Certification: _____
- ☒ Semi-Annual Monitoring Report: _____

Methods used to demonstrate compliance: _____

Monitoring: Reference [COMAR 26.11.03.06 C](#) Describe: [Control of Visible Emissions, Visible Emissions Standards: The Permittee shall properly operate and maintain the grinders in a manner to minimize visible emissions.](#)

Monitoring: Reference [COMAR 26.11.03.06 C](#) Describe: [Control of Visible Emissions, Visible Emissions Limits for Stationary Internal Combustion Engine Powered Equipment: The Permittee shall properly operate and maintain the engines in a manner to minimize visible emissions.](#)

Testing: Reference [None](#) Describe: [N/A.](#)

Record Keeping: Reference [COMAR 26.11.03.06 C](#) Describe: [Visible Emissions Standards & Visible Emissions Limits for Stationary Internal Combustion Engine Powered Equipment: The Permittee shall retain records of preventive maintenance on site for at least five years and make these records available to the Department upon request.](#)

Reporting: Reference [None](#) Describe: [Visible Emissions Standards & Visible Emissions Limits for Stationary Internal Combustion Engine Powered Equipment: The Permittee shall retain report incidents of visible emissions in accordance with Permit Condition 4, Section III, Plant Wide Condition, "Report of Excess Emission and Deviations."](#)

Frequency of submittal of the compliance demonstration: [As noted above.](#)

SECTION 3B. CITATION TO AND DESCRIPTION OF APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS

Emissions Unit No.: EU04 & EU05 General Reference: COMAR 26.11.09.05

Briefly describe the Emission Standard/Limit or Operational Limitation:

The Morbark 1300 Tub & Vermeer HG6000 Horizontal Grinders have the following applicable standards/limits:

Control of Sulfur Oxides from Fuel Burning Equipment

COMAR 26.11.09.07 A - Sulfur Content Limitations for Fuel. A person may not burn, sell, or make available for sale any fuel with a sulfur content by weight in excess of or which otherwise exceeds the following limitations: Distillate fuel oils, 0.3 percent.

Permit Shield Request: Yes

Compliance Demonstration:

Check appropriate reports required to be submitted:

- ☐ Quarterly Monitoring Report: _____
☒ Annual Compliance Certification: _____
☒ Semi-Annual Monitoring Report: _____

Methods used to demonstrate compliance:

Monitoring: Reference COMAR 26.11.03.06 C Describe: Control of Sulfur Oxides from Fuel Burning Equipment: The Permittee shall obtain a certification form the fuel supplier indicating that the fuel oil complies with the limitation on sulfur content of the fuel oil.

Testing: Reference None Describe: N/A.

Record Keeping: Reference COMAR 26.11.09.07 C Describe: Control of Sulfur Oxides from Fuel Burning Equipment: The Permittee shall retain annual fuel supplier certifications stating that the fuel oil is in compliance with this regulation must be maintained for at least five years.

Reporting: Reference COMAR 26.11.09.07 C Describe: Control of Sulfur Oxides from Fuel Burning Equipment: The Permittee shall report annual fuel supplier certification to the Department upon request.

Frequency of submittal of the compliance demonstration: As noted above.

SECTION 3B. CITATION TO AND DESCRIPTION OF APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS

Emissions Unit No.: EU04 & EU05 General Reference: COMAR 26.11.09.05

Briefly describe the Emission Standard/Limit or Operational Limitation:

The Morbark 1300 Tub & Vermeer HG6000 Horizontal Grinders have the following applicable standards/limits:

Operational Limit

MDE PTC No. 015-0163-9-0176 issued on March 20, 2008, and MDE PTC No. 015-0163-6-0252 issued on May 20, 2005 - The Permittee shall only burn diesel fuel in the engines serving both tub and horizontal grinders unless the Permittee applies for and receives an approval or permit form the Department to burn an alternative fuel.

For 630 hp Vermeer HG6000 Horizontal Grinder:

MDE PTC No. 015-0163-9-0176 issued on March 20, 2008 – The engine, which powers the horizontal grinder, shall operate no more than 728 hours for any 12-month rolling period.

For 860 hp Morbark 1300 Tub Grinder:

MDE PTC No. 015-0163-6-0252 issued on May 20, 2005 - The engine, which powers the tub grinder, shall operate no more than 1440 hours for any 12-month rolling period.

Permit Shield Request: Yes

Compliance Demonstration:

Check appropriate reports required to be submitted:

- ☐ Quarterly Monitoring Report: _____
- ☒ Annual Compliance Certification: _____
- ☒ Semi-Annual Monitoring Report: _____

Methods used to demonstrate compliance:

Monitoring: Reference None Describe: N/A

Testing: Reference None Describe: N/A

Record Keeping: Reference None Describe: The Permittee shall maintain for at least five (5) years, and shall make available to the Department upon request, records of the following information:

- (a) Operating hours for the engine that drives the tub and horizontal grinders.
- (b) The Permittee shall report the amount of fuel oil combusted and engine operating hours as part of the annual emission certification.

Reporting: Reference COMAR 26.11.09.08 G (e) Describe: The Permittee shall report amount of fuel oil combusted and engine operating hours as part of the annual emission certification.

Frequency of submittal of the compliance demonstration: As noted above.

SECTION 3C - OBSOLETE, EXTRANEIOUS, OR INSIGNIFICANT PERMIT
CONDITIONS

MARYLAND DEPARTMENT OF THE ENVIRONMENT

SECTION 3C. OBSOLETE, EXTRANEEOUS, OR INSIGNIFICANT PERMIT CONDITIONS

List permit to construct conditions which should be considered to be obsolete, extraneous, or environmentally insignificant.

Emissions Unit No.: EU01-EU05 Permit to Construct No. _____

Emissions Point No.	Date Permit Issued	Condition No.	Brief Description of Condition and Reason for Exclusion
<i>EU01-EU05</i>			<i>Not Applicable</i>



SECTION 3D - ALTERNATE OPERATING SCENARIOS

SECTION 3D. ALTERNATE OPERATING SCENARIOS

Emissions Unit No.: EU01-EU05

Briefly describe any alternate operating scenarios. Assign a number to each scenario for identification purposes.

Not Applicable



SECTION 3E - CITATION TO AND DESCRIPTION OF APPLICABLE
FEDERALLY ENFORCEABLE REQUIREMENTS FOR AN ALTERNATE
OPERATING SCENARIO

**SECTION 3E. CITATION TO AND DESCRIPTION OF APPLICABLE
FEDERALLY ENFORCEABLE REQUIREMENTS FOR AN
ALTERNATE OPERATING SCENARIO**

Scenario No.: None

Emissions Unit No.: EU01-EU05 General Reference: _____

Briefly describe any applicable Emissions Standard/Limits/Operational Limitations:

Not Applicable

Compliance Demonstration

Methods used to demonstrate compliance:

Monitoring: Reference _____ Describe: _____

Testing: Reference _____ Describe: _____

Record Keeping: Reference _____ Describe: _____

Reporting: Reference _____ Describe: _____

Frequency of submittal of the compliance demonstration: _____



SECTION 4 - CONTROL EQUIPMENT

SECTION 4. CONTROL EQUIPMENT

1. <u>Associated Emissions Units No. :</u> <i>EU01-EU05</i>	2. <u>Emissions Point No.:</u>
3. <u>Type and Description of Control Equipment:</u> <i>Not Applicable</i>	
4. Pollutants Controlled:	Control Efficiency:
5. Capture Efficiency:	



SECTION 5 - SUMMARY SHEET OF POTENTIAL EMISSIONS

SECTION 5. SUMMARY SHEET OF POTENTIAL EMISSIONS

List all applicable pollutants in tons per year (tpy) pertaining to this facility. The Emissions Unit No. should be consistent with numbers used in Section 3. Attach a copy of all calculations.

Pollutant					
CAS Number					
Emissions Unit #					
Emissions Unit #					
Emissions Unit #	<i>EU01-EU05 This form is not applicable for the following reasons:</i> <i>1. There is no claim for an exemption based on emission level cut-off that has been issued (i.e. MACT Standards); and,</i> <i>2. There is no dispute over whether a particular requirement is applicable or whether a source is a major for particular pollutant.</i>				
Emissions Unit #					
Emissions Unit #					
Emissions Unit #					
Emissions Unit #					
Emissions Unit #					
Emissions Unit #					
Emissions Unit #					
Emissions Unit #					
Emissions Unit #					
Emissions Unit #					
Emissions Unit #					
Emissions Unit #					
Emissions Unit #					
Emissions Unit #					
Fugitive Emissions					
Total					



SECTION 6 - EXPLANATION OF PROPOSED EXEMPTIONS FROM
OTHERWISE APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS

SECTION 6.

EXPLANATION OF PROPOSED EXEMPTIONS FROM
OTHERWISE APPLICABLE FEDERALLY ENFORCEABLE
REQUIREMENTS

Describe and cite the applicable requirements to be exempted. Complete this Section only if the facility is claiming exemptions from or the non-applicability of any federally enforceable requirements.

1. Applicable Requirement: EU01-EU05 - Not Applicable

2. Brief Description:

3. Reasons for Proposed Exemption or Justification of Non-applicability:



SECTION 7 - COMPLIANCE SCHEDULE FOR NONCOMPLYING EMISSIONS
UNITS

SECTION 7. COMPLIANCE SCHEDULE FOR NONCOMPLYING EMISSIONS
UNITS

1. Emissions Unit # EU01-EU05	Anticipated Compliance Date
Applicable Federally Enforceable Requirement being Violated: Not Applicable	

2. Description of Plan to Achieve Compliance:
--

Certified Progress Reports for sources in noncompliance shall be submitted at least quarterly to the Department.



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STATE ONLY ENFORCEABLE REQUIREMENTS

STATE-ONLY ENFORCEABLE REQUIREMENTS

Facility Information:

Name of Facility: Cecil County Central Landfill	County Cecil
Premises Number: 015-00163	
Street Address: 758 East Old Philadelphia Road	
24-hour Emergency Telephone Number for Air Pollution Matters: 443-309-1030	
Type of Equipment (List Significant Units): EU01 - MSW Landfill	
EU02 - Active Landfill Gas Open Flare	
EU03 - Landfill Roadways & Operations	
EU04 - Morbark 1300 Tub Grinder	
EU05 - Vermeer HG6000 Horizontal Grinder	



CITATION TO AND DESCRIPTION OF APPLICABLE STATE-
ONLY ENFORCEABLE REQUIREMENTS

Registration No.: 9-0096 / 6-0252 / 9-0176

Emissions Unit No.: EU01 - EU05 General Reference: COMAR 26.11

Briefly describe the requirement and the emissions limit (if applicable):

COMAR 26.11.06.08 (Nuisance) and 26.11.06.09 (Odors) which generally prohibit the discharge
of emissions beyond the property line in such a manner that a nuisance or air pollution is created.

COMAR 26.11.15.05A (Control Technology Req.) and 26.11.15.06A (Ambient Impact Req.)
which prohibit the discharge of toxic air pollutants to the extent that such emissions will
unreasonably endanger human health.

Methods used to demonstrate compliance:

The Permittee shall submit to the Department by April 1 of each year during the term of this
permit, a written certification of the results of an analysis of emissions of toxic pollutants
from the Permittee's facility during the previous calendar year. The analysis shall include
either:

a. A statement that previously submitted compliance demonstrations for emissions
of toxic air pollutants remain valid; or,

b. A revised compliance demonstration, developed in accordance with requirements
included under COMAR 26.11.15 and 16, that accounts for changes in operations, analytical
methods, emissions determinations, or other factors that have invalidated previous
demonstrations.



CITATION TO AND DESCRIPTION OF APPLICABLE STATE-
ONLY ENFORCEABLE REQUIREMENTS

Registration No.: 9-0096

Emissions Unit No.: EU01

General Reference: COMAR 26.11.42

Briefly describe the requirement and the emissions limit (if applicable):

COMAR 26.11.42 Control of Methane Emissions from MSW Landfills applies to Central Landfill as an active MSW Landfill with greater than 450,000 tons of waste-in-place and greater than 732 tpy / less than 8,548 tpy calculated methane generation rate.

COMAR 26.11.42.04 - Requirements for MSW Landfills

COMAR 26.11.42.05 - Requirements for Gas Collection and Control Systems

Methods used to demonstrate compliance:

COMAR 26.11.42.09 - Monitoring Requirements and Corrective

Actions COMAR 26.11.42.10 - Recordkeeping and Reporting



INSIGNIFICANT ACTIVITIES CHECK-OFF LIST

**MARYLAND DEPARTMENT OF THE ENVIRONMENT
AIR AND RADIATION ADMINISTRATION
RENEWAL TITLE V APPLICATION INSIGNIFICANT ACTIVITIES LIST**

III. Check-off List of Emissions Units and Activities Exempt from the Part 70 Permit Application

Insignificant Activities

Place a check mark beside each type of emissions unit or activity that is located at the facility. Where noted, please indicate the number of that type of emissions unit or activity located at the facility.

- ✓ (1) No. 3 Fuel burning equipment using gaseous fuels or no. 1 or no. 2 fuel oil, and having a heat input less than 1,000,000 Btu (1.06 gigajoules) per hour; *1- Trommel screen and 2 - space heaters (i.e. Maintenance Shop/Break Room heater and Heavy Equipment Shop heater)*
- (2) No. ____ Fuel-burning equipment using solid fuel and having a heat input of less than 350,000 Btu (0.37 gigajoule) per hour;
- ✓ (3) No. 1 Stationary internal combustion engines with less than 500 brake horsepower (373 kilowatts) of power output
150 kW Onan Generator with Cummins NT855G Engine
- (4) ____ Space heaters utilizing direct heat transfer and used solely for comfort heat;
- (5) ____ Water cooling towers and water cooling ponds unless used for evaporative cooling of water from barometric jets or barometric condensers, or used in conjunction with an installation requiring a permit to operate;
- (6) No. ____ Unheated VOC dispensing containers or unheated VOC rinsing containers of 60 gallons (227 liters) capacity or less;
- (7) ____ Commercial bakery ovens with a rated heat input capacity of less than 2,000,000 Btu per hour;
- (8) ____ Kilns used for firing ceramic ware, heated exclusively by natural gas, liquefied petroleum gas, electricity, or any combination of these;
- (9) ____ Confection cookers where the products are edible and intended for human consumption;
- (10) ____ Die casting machines;
- (11) ____ Photographic process equipment used to reproduce an image upon sensitized material through the use of radiant energy;
- (12) ____ Equipment for drilling, carving, cutting, routing, turning, sawing, planing, spindle sanding, or disc sanding of wood or wood products;

**MARYLAND DEPARTMENT OF THE ENVIRONMENT
AIR AND RADIATION ADMINISTRATION
RENEWAL TITLE V APPLICATION INSIGNIFICANT ACTIVITIES LIST**

- (13)___ Brazing, soldering, or welding equipment, and cutting torches related to manufacturing and construction activities that emit HAP metals and not directly related to plant maintenance, upkeep and repair or maintenance shop activities;
- (14)___ Equipment for washing or drying products fabricated from metal or glass, provided that no VOC is used in the process and that no oil or solid fuel is burned;
- (15)___ Containers, reservoirs, or tanks used exclusively for electrolytic plating work, or electrolytic polishing, or electrolytic stripping of brass, bronze, cadmium, copper, iron, lead, nickel, tin, zinc, and precious metals;
- (16) Containers, reservoirs, or tanks used exclusively for:
- (a) ___ Dipping operations for applying coatings of natural or synthetic resins that contain no VOC;
 - (b) ___ Dipping operations for coating objects with oils, waxes, or greases, and where no VOC is used;
 - (c)  ___ Storage of butane, propane, or liquefied petroleum, or natural gas;
 - (d) No.  ___ Storage of lubricating oils;
 - (e) No. ___ Unheated storage of VOC with an initial boiling point of 300 °F (
 - (f) No.  ___ Storage of Numbers 1, 2, 4, 5, and 6 fuel oil and aviation jet engine fuel,
 - (g) No. ___ Storage of motor vehicle gasoline and having individual tank capacities of 2,000 gallons (7.6 cubic meters) or less;
 - (h) No. ___ The storage of VOC normally used as solvents, diluents, thinners, inks, colorants, paints, lacquers, enamels, varnishes, liquid resins, or other surface coatings and having individual capacities of 2,000 gallons (7.6 cubic meters) or less;
- (17) ___ Gaseous fuel-fired or electrically heated furnaces for heat treating glass or metals, the use of which does not involve molten materials;
- (18) Crucible furnaces, pot furnaces, or induction furnaces, with individual capacities of 1,000 pounds (454 kilograms) or less each, in which no sweating or distilling is conducted, or any fluxing is conducted using chloride, fluoride,

**MARYLAND DEPARTMENT OF THE ENVIRONMENT
AIR AND RADIATION ADMINISTRATION
RENEWAL TITLE V APPLICATION INSIGNIFICANT ACTIVITIES LIST**

or ammonium compounds, and from which only the following metals are poured or in which only the following metals are held in a molten state:

- (a) ____ Aluminum or any alloy containing over 50 percent aluminum, if no gaseous chloride compounds, chlorine, aluminum chloride, or aluminum fluoride is used;
- (b) ____ Magnesium or any alloy containing over 50 percent magnesium;
- (c) ____ Lead or any alloy containing over 50 percent lead;
- (d) ____ Tin or any alloy containing over 50 percent tin;
- (e) ____ Zinc or any alloy containing over 50 percent zinc;
- (f) ____ Copper;
- (g) ____ Precious metals;
- (19) ____ Charbroilers and pit barbecues as defined in COMAR 26.11.18.01 with a total cooking area of 5 square feet (0.46 square meter) or less;
- (20) ____ First aid and emergency medical care provided at the facility, including related activities such as sterilization and medicine preparation used in support of a manufacturing or production process;
- (21) ____ Certain recreational equipment and activities, such as fireplaces, barbecue pits and cookers, fireworks displays, and kerosene fuel use;
- (22) ____ Potable water treatment equipment, not including air stripping equipment;
- (23) ____ Firing and testing of military weapons and explosives;
- (24) ____ Emissions resulting from the use of explosives for blasting at quarrying operations and from the required disposal of boxes used to ship the explosive;
- (25) ____ Comfort air conditioning subject to requirements of Title VI of the Clean Air Act;
- (26) ____ Grain, metal, or mineral extrusion presses;
- (27) ____ Breweries with an annual beer production less than 60,000 barrels;

**MARYLAND DEPARTMENT OF THE ENVIRONMENT
AIR AND RADIATION ADMINISTRATION
RENEWAL TITLE V APPLICATION INSIGNIFICANT ACTIVITIES LIST**

(28)____ Natural draft hoods or natural draft ventilators that exhaust air pollutants into the ambient air from manufacturing/industrial or commercial processes;

(29)____ Laboratory fume hoods and vents;

(30) No. ____ Sheet-fed letter or lithographic printing press(es) with a cylinder width ____ of less than 18 inches;

For the following, attach additional pages as necessary:

(31) any other emissions unit, not listed in this section, with a potential to emit less than the “de minimus” levels listed in COMAR 26.11.02.10X (list and describe units):

No. ____ _____

No. ____ _____

No. ____ _____

No. ____ _____

No. ____ _____

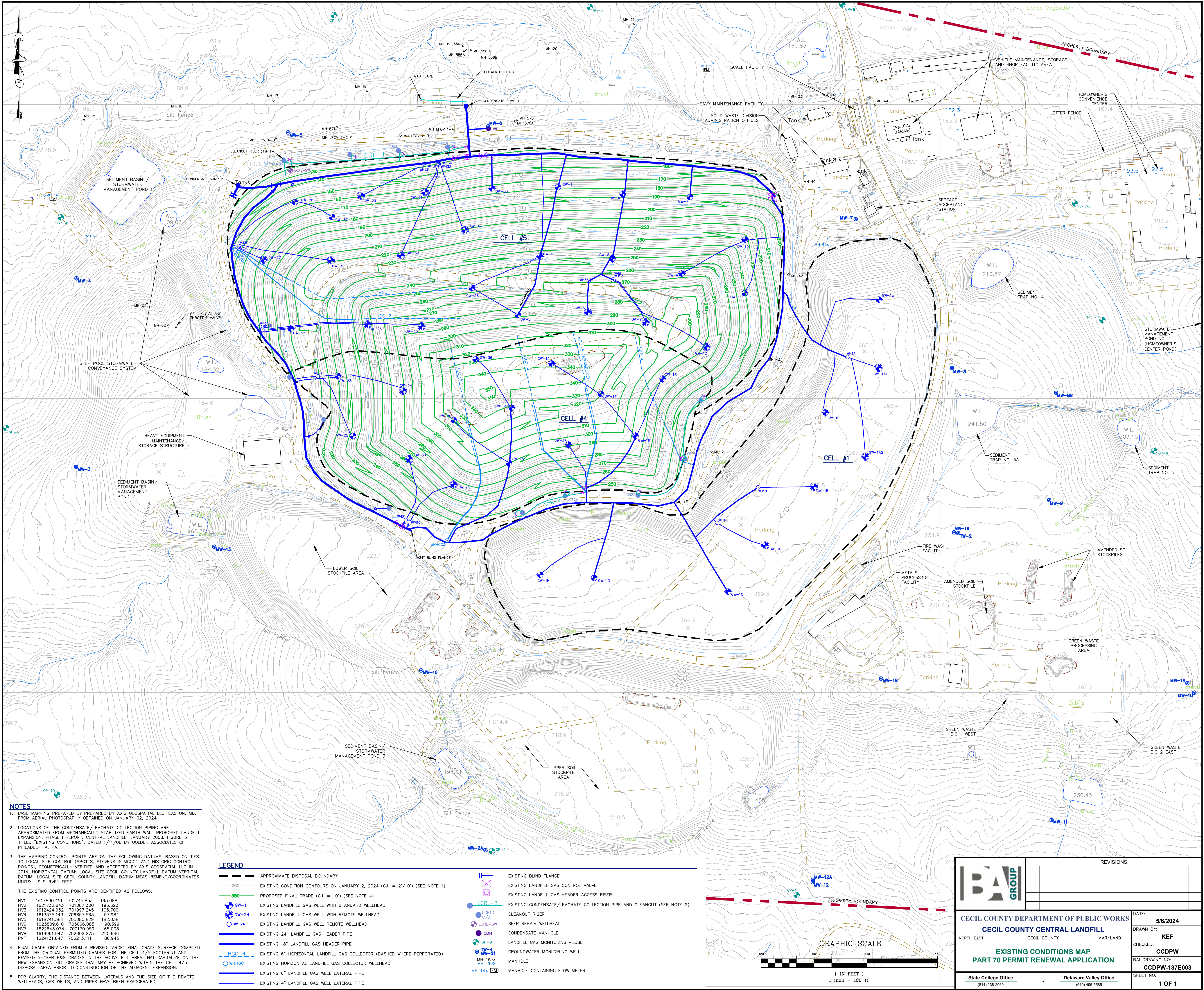
(32) any other emissions unit at the facility which is not subject to an applicable requirement of the Clean Air Act (list and describe):

No. ____ _____

No. ____ _____

No. ____ _____

ATTACHMENT 1
EXISTING CONDITIONS MAP



NOTES

1. BASE MAPPING PREPARED BY PREPARED BY AXIS GEOSPATIAL LLC, EASTON, MD. FROM AERIAL PHOTOGRAPHY OBTAINED ON JANUARY 02, 2024.
2. LOCATIONS OF THE CONDENSATE/LEACHATE COLLECTION PIPING ARE APPROXIMATED FROM MECHANICALLY STABILIZED EARTH WALL PROPOSED LANDFILL EXPANSION, PHASE I REPORT, CENTRAL LANDFILL, JANUARY 2009, FIGURE 3 TITLED "EXISTING CONDITIONS", DATED 1/11/08 BY GOLDER ASSOCIATES OF PHILADELPHIA, PA.
3. THE MAPPING CONTROL POINTS ARE ON THE FOLLOWING DATUMS, BASED ON TIES TO LOCAL SITE CONTROL (SPOTS, STEVENS & MCCOY AND HISTORIC CONTROL POINTS), GEOMETRICALLY VERIFIED AND ACCEPTED BY AXIS GEOSPATIAL LLC IN 2014. HORIZONTAL DATUM: LOCAL SITE CECIL COUNTY LANDFILL DATUM VERTICAL DATUM: LOCAL SITE CECIL COUNTY LANDFILL DATUM MEASUREMENT/COORDINATES UNITS: US SURVEY FEET.
THE EXISTING CONTROL POINTS ARE IDENTIFIED AS FOLLOWS:

HVT	1617890.451	701745.853	163.088
HV2	1621732.843	701087.300	195.323
HV3	1612424.952	701997.245	105.700
HV4	1613375.143	706857.563	57.984
HV5	1618741.384	705080.829	182.038
HV6	1623809.610	705866.085	90.399
HV7	1622643.074	700770.959	185.003
HV8	1619991.947	702002.275	220.846
PNT	1624131.847	706213.111	86.945
4. FINAL GRADE OBTAINED FROM A REVISED TARGET FINAL GRADE SURFACE COMPILED FROM THE ORIGINAL PERMITTED GRADES FOR THE CELL 4/5 FOOTPRINT AND REVISED 5-YEAR E&S GRADES IN THE ACTIVE FILL AREA THAT CAPITALIZE ON THE NEW EXPANSION FILL GRADES THAT MAY BE ACHIEVED WITHIN THE CELL 4/5 DISPOSAL AREA PRIOR TO CONSTRUCTION OF THE ADJACENT EXPANSION.
5. FOR CLARITY, THE DISTANCE BETWEEN LATERALS AND THE SIZE OF THE REMOTE WELLHEADS, GAS WELLS, AND PIPES HAVE BEEN EXAGGERATED.

LEGEND

- | | | | |
|--|---|--|--|
| | APPROXIMATE DISPOSAL BOUNDARY | | EXISTING BLIND FLANGE |
| | EXISTING CONDITION CONTOURS ON JANUARY 2, 2024 (C.I. = 2'/10") (SEE NOTE 1) | | EXISTING LANDFILL GAS CONTROL VALVE |
| | PROPOSED FINAL GRADE (C.I. = 10") (SEE NOTE 4) | | EXISTING LANDFILL GAS HEADER ACCESS RISER |
| | EXISTING LANDFILL GAS WELL WITH STANDARD WELLHEAD | | EXISTING CONDENSATE/LEACHATE COLLECTION PIPE AND CLEANOUT (SEE NOTE 2) |
| | EXISTING LANDFILL GAS WELL WITH REMOTE WELLHEAD | | CLEANOUT RISER |
| | EXISTING LANDFILL GAS WELL REMOTE WELLHEAD | | SEEP REPAIR WELLHEAD |
| | EXISTING 24" LANDFILL GAS HEADER PIPE | | CONDENSATE MANHOLE |
| | EXISTING 18" LANDFILL GAS HEADER PIPE | | LANDFILL GAS MONITORING PROBE |
| | EXISTING 6" HORIZONTAL LANDFILL GAS COLLECTOR (DASHED WHERE PERFORATED) | | GROUNDWATER MONITORING WELL |
| | EXISTING HORIZONTAL LANDFILL GAS COLLECTOR WELLHEAD | | MANHOLE |
| | EXISTING 6" LANDFILL GAS WELL LATERAL PIPE | | MANHOLE CONTAINING FLOW METER |
| | EXISTING 4" LANDFILL GAS WELL LATERAL PIPE | | |

REVISIONS	

CECIL COUNTY DEPARTMENT OF PUBLIC WORKS
CECIL COUNTY MARYLAND

EXISTING CONDITIONS MAP
PART 70 PERMIT RENEWAL APPLICATION

DATE: **5/6/2024**

DRAWN BY: **KEF**

CHECKED: **CCDPW**

BAI DRAWING NO: **CCDPW-137E003**

SHEET NO. **1 OF 1**

State College Office
(814) 238-2060

Delaware Valley Office
(610) 495-5585

ATTACHMENT 2

2023 ANNUAL EMISSIONS CERTIFICATION REPORT



April 1, 2024

Mr. Enobong Umoh
Maryland Department of the Environment
Air and Radiation Management Administration
Air Quality Permits Program
1800 Washington Blvd., Suite 715
Baltimore, Maryland 21230

**RE: Annual Emissions Certification Report
Cecil County Central Landfill; Part 70 Permit # 24-015-00163
2023 Reporting Year - Revision**

Mr. Umoh:

Please find enclosed the 2023 Annual Emissions Certification Report for Cecil County Department of Public Works' Central Landfill located in Elkton, Maryland.

Should you have any questions regarding this report, please do not hesitate to contact me at 814-341-9790 or kfinlan@baigroupllc.com.

Sincerely,

BAI Group

A handwritten signature in blue ink, reading 'Karen E. Finlan'.

Karen E. Finlan
Senior Environmental Consultant

Enclosures

cc: David Horne, CCDPW SWMD
Craig Marker, P.E., CCDPW E&C

2023 Emissions Certification Report

CENTRAL LANDFILL
PERMIT ID 24-015-00163

MARCH 2024

Prepared For:



Cecil County Department of Public Works
Solid Waste Management Division
200 Chesapeake Blvd.
Suite 2400A
Elkton, MD 21921



Prepared By:

MAIN OFFICE:
366 Walker Drive, Suite 300
State College, PA 16801
PH: 814-238-2060 FX: 814-238-7123

DELAWARE VALLEY OFFICE:
101 Lindenwood Dr. Suite 225
Malvern, PA 19355
PH: 610-495-5585

CECIL COUNTY DEPARTMENT OF PUBLIC WORKS CENTRAL LANDFILL

2023 ANNUAL EMISSIONS CERTIFICATION REPORT

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Benzene

Chloroethane

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Formaldehyde

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Methane

Nitrous Oxide

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- 2 Flare Emission Calculations
- 3 Grinder Emission Calculations
- 4 Fugitive Dust Emission Calculations

AIR QUALITY COMPLIANCE FORMS

- 1 General Facility Information
- 2 Criteria Air Pollutants
- 3 Particulate Matter
- 4 Toxic Air Pollutants
- 5 Billable Toxic Air Pollutants
- 6 Greenhouse Gas Air Pollutants

MARYLAND DEPARTMENT OF THE ENVIRONMENT
1800 Washington Boulevard, Suite 715 • Baltimore Maryland 21230-1720
410-537-3000 • 1-800-633-6101 • <http://www.mde.state.md.us>
Air and Radiation Management Administration
Air Quality Compliance Program
410-537-3220

FORM 1:

**GENERAL FACILITY INFORMATION
EMISSIONS CERTIFICATION REPORT**

Calendar Year: 2023

A. FACILITY IDENTIFICATION				Do Not Write in This Space	
Facility Name <u>Cecil County Central Landfill</u>				Date Received Regional	
Address <u>785 East Old Philadelphia Pike</u>				Date Received State	
City <u>Elkton</u> County <u>Cecil</u> Zip Code <u>21921</u>				AIRS Code	
B. Briefly describe the major function of the facility				FINDS Code	
<u>Municipal Solid Waste Landfill</u>				SIC Code	
				Facility Number:	
				TEMPO ID:	
C. SEASONAL PRODUCTION (% if applicable)				Reviewed by:	
<u>Winter</u> (Dec.-Feb.)	<u>Spring</u> (Mar - May)	<u>Summer</u> (Jun - Aug)	<u>Fall</u> (Sept - Nov)		
				Name	Date
D. Explain any increases or decreases in emissions from the previous calendar year for each registration at this facility.					
E. CONTROL DEVICE INFORMATION (for NOx and VOC sources only)					
Control Device	Capture Efficiency	Removal Efficiency			
<u>Landfill Gas Flare</u>	<u>34.7%</u>	<u>98.0%</u>			

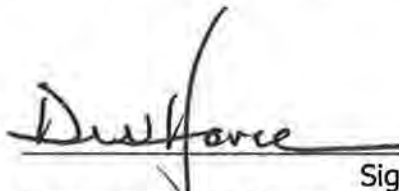
I am familiar with the facility and the installations and sources for which this report is submitted. I have personally examined the information in this report, which consists of 85 pages (including attachments), and certify that the information is correct to the best of my knowledge.

David W. Horne	Chief of Solid Waste Division	4/1/24
Name (Print/Type)	Title	Date
Signature		(410) 996-6275
		Telephone

CERTIFICATION

This is to certify that, to the best of my knowledge, the Cecil County Central Landfill (Part 70 Permit # 24-015-00163) is in compliance with Maryland's Air Toxic Regulations (COMAR 26.11.15), that the results of an analysis of emissions of toxic air pollutant are correct and representative of the sources and operations permitted at Central Landfill facility during the 2023 reporting year and that previously submitted compliance demonstrations for emissions of toxic air pollutants remain valid.

Responsible Official:

 4/1/24
Signature

Name: David W. Horne

Title: Chief of Solid Waste Management Division

Cecil County Department of Public Works – Central Landfill

Phone No.: (410) 996-6275

Email: DHorne@ccgov.org

Address: 758 East Old Philadelphia Pike, Elkton, MD 21921

FORM 2:

CRITERIA AIR POLLUTANTS
EMISSIONS CERTIFICATION REPORT

Calendar Year: 2023

Facility Name: Cecil County Central Landfill Facility ID: 24-015-00163 Pollutant: Carbon Monoxide

Equipment Description/ Registration No.	SCC Number	Fuel		Actual Emissions		Operating Schedule (Actual)				TOSD	Operating Schedule			Emissions Methods
				Tons/yr	Lbs/day	Hrs/dy	Dys/wk	Wk/yr	Days/yr	Lbs/dy	Hrs/dy	Start	End	
----- Landfill / 9-0096			S											
			F	1.61E+00	8.82E+00	24	7	52	365	-	24	-	-	C3
Landfill Gas Flare		LFG	S	1.37E+01	7.51E+01	24	7	52	365	-	24	-	-	C3
- 9-0096			F											
Grinder (EU04)		Diesel	S	2.87E-01	4.99E+01	24		**276 hrs/year**		-	24	-	-	C3
- 6-0252			F											
Grinder (EU05)		Diesel	S	4.45E-01	3.66E+01	24		**584 hrs/year**		-	24	-	-	C3
- 9-0176			F											
-----			S											
			F											
-----			S											
			F											
-----			S											
			F											
-----			S											
			F											
-----			S											
			F											
-----			S											
			F											
-----			S											
			F											
Total				1.60E+01	1.70E+02									

S - Stack Emissions

F - Fugitive Emissions

Daily emissions (lbs/day) are lbs/operating day of the source

** EU04 & EU05 operated 276 & 584 hrs in 2023.

TOSD: Typical Ozone Season Day means a typical day of that period of the year during which conditions for photochemical conditions are most favorable, which is generally during sustained periods of direct sunlight and warm temperatures (April-September). This section needs to be completed only for VOC and NOx sources.

Fuel: Include emissions for each fuel used. If more than one fuel is used, calculate and list emissions separately for each fuel.

Emission Estimation Method

A1-U.S. EPA Reference Method
A2-Other Particulate Sampling Train
A3-Liquid Absorption Technique
A4-Solid Absorption Technique
A5-Freezing Out Technique
A9-Other, Specify

C1-User calculated based on source
test or other measurement
C2-User calculated based on material balance
using engineering knowledge of the process
C3-User calculated based on AP-42
C4-User calculated by best guess/engineering
Judgment

C5-User calculated based on a State or local
agency emission factor
C6-New construction, not operational
C7-Source closed, operation ceased
C8-Computer calculated based on standard

FORM 2:

**CRITERIA AIR POLLUTANTS
EMISSIONS CERTIFICATION REPORT**

Calendar Year: 2023

Facility Name: Cecil County Central Landfill Facility ID: 24-015-00163 Pollutant: Volatile Organic Compounds

Equipment Description/ Registration No.	SCC Number	Fuel		Actual Emissions		Operating Schedule (Actual)				TOSD	Operating Schedule			Emissions Methods
				Tons/yr	Lbs/day	Hrs/dy	Dys/wk	Wk/yr	Days/yr	Lbs/dy	Hrs/dy	Start	End	
----- Landfill / 9-0096			S											
			F	6.89E+00	3.77E+01	24	7	52	365	3.77E+01	24	-	-	C3
Landfill Gas Flare		LFG	S	7.32E-02	4.01E-01	24	7	52	365	4.01E-01	24	-	-	C3
- 9-0096			F											
Grinder (EU04)		Diesel	S	1.30E-01	2.26E+01	24		**276 hrs/year**		2.26E+01	24	-	-	C3
- 6-0252			F											
Grinder (EU05)		Diesel	S	2.01E-01	1.64E+01	24		**584 hrs/year**		1.64E+01	24	-	-	C3
- 9-0176			F											
-----			S											
			F											
-----			S											
			F											
-----			S											
			F											
-----			S											
			F											
-----			S											
			F											
-----			S											
			F											
-----			S											
			F											
Total				7.29E+00	7.71E+01					7.71E+01				

S - Stack Emissions F - Fugitive Emissions Daily emissions (lbs/day) are lbs/operating day of the source ** EU04 & EU05 operated 276 & 584 hrs in 2023.

TOSD: Typical Ozone Season Day means a typical day of that period of the year during which conditions for photochemical conditions are most favorable, which is generally during sustained periods of direct sunlight and warm temperatures (April-September). This section needs to be completed only for VOC and NOx sources.

Fuel: Include emissions for each fuel used. If more than one fuel is used, calculate and list emissions separately for each fuel.

Emission Estimation Method

- A1-U.S. EPA Reference Method
- A2-Other Particulate Sampling Train
- A3-Liquid Absorption Technique
- A4-Solid Absorption Technique
- A5-Freezing Out Technique
- A9-Other, Specify

- C1-User calculated based on source test or other measurement
- C2-User calculated based on material balance using engineering knowledge of the process
- C3-User calculated based on AP-42
- C4-User calculated by best guess/engineering Judgment

- C5-User calculated based on a State or local agency emission factor
- C6-New construction, not operational
- C7-Source closed, operation ceased
- C8-Computer calculated based on standard

FORM 2:

CRITERIA AIR POLLUTANTS
EMISSIONS CERTIFICATION REPORT

Calendar Year: 2023

Facility Name: Cecil County Central Landfill Facility ID: 24-015-00163 Pollutant: Nitrogen Dioxide

Equipment Description/ Registration No.	SCC Number	Fuel		Actual Emissions		Operating Schedule (Actual)				TOSD	Operating Schedule			Emissions Methods
				Tons/yr	Lbs/day	Hrs/dy	Dys/wk	Wk/yr	Days/yr	Lbs/dy	Hrs/dy	Start	End	
----- Landfill / 9-0096			S											
			F	0.00E+00	0.00E+00	24	7	52	365	0.00E+00	24	-	-	C3
Landfill Gas Flare		LFG	S	2.50E+00	1.37E+01	24	7	52	365	1.37E+01	24	-	-	C3
- 9-0096			F											
Grinder (EU04)		Diesel	S	1.33E+00	2.31E+02	24		**276 hrs/year**		2.31E+02	24	-	-	C3
- 6-0252			F											
Grinder (EU05)		Diesel	S	2.06E+00	1.69E+02	24		**584 hrs/year**		1.69E+02	24	-	-	C3
- 9-0176			F											
-----			S											
			F											
-----			S											
			F											
-----			S											
			F											
-----			S											
			F											
-----			S											
			F											
-----			S											
			F											
Total				5.89E+00	4.14E+02					4.14E+02				

S - Stack Emissions F - Fugitive Emissions Daily emissions (lbs/day) are lbs/operating day of the source ** EU04 & EU05 operated 276 & 584 hrs in 2023.

TOSD: Typical Ozone Season Day means a typical day of that period of the year during which conditions for photochemical conditions are most favorable, which is generally during sustained periods of direct sunlight and warm temperatures (April-September). This section needs to be completed only for VOC and NOx sources.

Fuel: Include emissions for each fuel used. If more than one fuel is used, calculate and list emissions separately for each fuel.

Emission Estimation Method

A1-U.S. EPA Reference Method
A2-Other Particulate Sampling Train
A3-Liquid Absorption Technique
A4-Solid Absorption Technique
A5-Freezing Out Technique
A9-Other, Specify

C1-User calculated based on source
test or other measurement
C2-User calculated based on material balance
using engineering knowledge of the process
C3-User calculated based on AP-42
C4-User calculated by best guess/engineering
Judgment

C5-User calculated based on a State or local
agency emission factor
C6-New construction, not operational
C7-Source closed, operation ceased
C8-Computer calculated based on standard

FORM 2:

CRITERIA AIR POLLUTANTS
EMISSIONS CERTIFICATION REPORT

Calendar Year: 2023

Facility Name: Cecil County Central Landfill Facility ID: 24-015-00163 Pollutant: Sulfur Dioxide

Equipment Description/ Registration No.	SCC Number	Fuel		Actual Emissions		Operating Schedule (Actual)				TOSD	Operating Schedule			Emissions Methods
				Tons/yr	Lbs/day	Hrs/dy	Dys/wk	Wk/yr	Days/yr	Lbs/dy	Hrs/dy	Start	End	
-----			S											
Landfill / 9-0096			F	0.00E+00	0.00E+00	24	7	52	365	-	24	-	-	C3
Landfill Gas Flare		LFG	S	0.65E+00	3.56E+00	24	7	52	365	-	24	-	-	C3
- 9-0096			F											
Grinder (EU04)		Diesel	S	8.76E-02	1.52E+01	24		**276 hrs/year**		-	24	-	-	C3
- 6-0252			F											
Grinder (EU05)		Diesel	S	1.36E-01	1.12E+01	24		**584 hrs/year**		-	24	-	-	C3
- 9-0176			F											
-----			S											
-----			F											
-----			S											
-----			F											
-----			S											
-----			F											
-----			S											
-----			F											
-----			S											
-----			F											
-----			S											
-----			F											
Total				0.87E+00	3.00E+01									

S - Stack Emissions

F - Fugitive Emissions

Daily emissions (lbs/day) are lbs/operating day of the source

** EU04 & EU05 operated 276 & 584 hrs in 2023.

TOSD: Typical Ozone Season Day means a typical day of that period of the year during which conditions for photochemical conditions are most favorable, which is generally during sustained periods of direct sunlight and warm temperatures (April-September). This section needs to be completed only for VOC and NOx sources.

Fuel: Include emissions for each fuel used. If more than one fuel is used, calculate and list emissions separately for each fuel.

Emission Estimation Method

A1-U.S. EPA Reference Method
A2-Other Particulate Sampling Train
A3-Liquid Absorption Technique
A4-Solid Absorption Technique
A5-Freezing Out Technique
A9-Other, Specify

C1-User calculated based on source
test or other measurement
C2-User calculated based on material balance
using engineering knowledge of the process
C3-User calculated based on AP-42
C4-User calculated by best guess/engineering
Judgment

C5-User calculated based on a State or local
agency emission factor
C6-New construction, not operational
C7-Source closed, operation ceased
C8-Computer calculated based on standard

FORM 3: PM

EMISSIONS CERTIFICATION REPORT

Particulate Matter

Calendar Year: 2023

Facility Name: Cecil County Central Landfill Facility ID: 24-015-00163 Pollutant: PM

Equipment Description/ Registration No.	SCC Number	Fuel		PM – Filterable		PM 10 –Filterable		PM 2.5 – Filterable		PM Condensable		Operation	Emissions Methods
				Tons/yr	Lbs/day	Tons/yr	Lbs/day	Tons/yr	Lbs/day	Tons/yr	Lbs/day	Days/yr	
----- Landfill (EU03)			S										
			F	6.83E+00	4.36E+01	6.83E+00	4.36E+01	6.83E+00	4.36E+01	6.83E+00	4.36E+01	313	C3
Landfill Gas Flare		LFG	S	0.59E+00	3.23E+00	0.59E+00	3.23E+00	0.59E+00	3.23E+00	0.59E+00	3.23E+00	365	C3
9-0096			F										
Grinder (EU04)/6-0252		Diesel	S	9.36E-02	1.63E+01	9.36E-02	1.63E+01	9.36E-02	1.63E+01	9.36E-02	1.63E+01	11.5**	C3
			F										
Grinder (EU05)/9-0176		Diesel	S	1.45E-01	1.19E+01	3.63E-02	1.19E+01	3.63E-02	1.19E+01	3.63E-02	1.19E+01	24.3**	C3
			F										
-----			S										
			F										
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			F										
Total				7.66E+00	7.50E+01	7.66E+00	7.50E+01	7.66E+00	7.50E+01	7.66E+00	7.50E+01		

S - Stack Emissions

F - Fugitive Emissions

Daily emissions (lbs/day) are lbs/operating day of the source ** EU04 & EU05 operated 276 & 584 hrs in 2023.

Fuel: Include emissions for each fuel used. If more than one fuel is used, calculate and list emissions separately for each fuel.

Emission Estimation Method

A1-U.S. EPA Reference Method
A2-Other Particulate Sampling Train
A3-Liquid Absorption Technique
A4-Solid Absorption Technique
A5-Freezing Out Technique
A9-Other, Specify

C1-User calculated based on source
test or other measurement
C2-User calculated based on material balance
using engineering knowledge of the process
C3-User calculated based on AP-42
C4-User calculated by best guess/engineering
Judgment

C5-User calculated based on a State or local
agency emission factor
C6-New construction, not operational
C7-Source closed, operation ceased
C8-Computer calculated based on standard

FORM 4:

TOXIC AIR POLLUTANTS

Calendar Year: 2023

EMISSIONS CERTIFICATION REPORT

Facility Name: Cecil County Central Landfill **Facility ID:** 24-015-00163 **Pollutant:** Acrylonitrile *

Equipment Description/ Registration Number ¹		Actual Emissions			Control Device**	% Efficiency
		Tons/yr	Lbs/day	Lbs/hr		
Landfill (Fugitive)		1.38E-01	7.56E-01	3.15E-02	0	34.7%
Landfill Gas Flare		1.46E-03	0.80E-02	3.33E-04	0	98%
Grinder (EU04)		0.00E+00	0.00E+00	0.00E+00	N/A	N/A
Grinder (EU05)		0.00E+00	0.00E+00	0.00E+00	N/A	N/A
TOTALS		1.39E-01	7.57E-01	3.18E-02		

* Please attach all calculations.

* See Attachment 1 for the minimum reporting values.

**Control Device

S = Scrubber

B = Baghouse

ESP = Electrostatic Precipitator

A = Afterburner

C = Condenser

AD = Adsorbtion

O = Other

¹Emissions must be broken down by equipment registration number (ex. 9-0076, 9-0077)

NOTE: According to MDE Notice regarding 2012 Emission Certification Requirements - "Emissions must be reported for all HAPS listed in Section 112(b) of the Clean Air Act, excluding those removed by 40 CFR 63.60 and those emitted below the

1/09/08 Department's minimum reporting thresholds". As a result, the pollutants listed in Section 112(b) for which emission factors were available in the current version of EPA - AP-42 (i.e. Chapter 3.3 Gasoline & Diesel Industrial Engines, October 1996 and Chapter 2.4 Municipal Solid Waste Landfills, November 1998) and whose emissions are above the departments reporting threshold are reported herein.

FORM 4:**TOXIC AIR POLLUTANTS**Calendar Year: 2023**EMISSIONS CERTIFICATION REPORT**Facility Name: Cecil County Central Landfill Facility ID: 24-015-00163 Pollutant: Benzene*

Equipment Description/ Registration Number ¹	Actual Emissions			Control Device**	% Efficiency
	Tons/yr	Lbs/day	Lbs/hr		
<u>Landfill (Fugitive)</u>	6.11E-02	3.35E-01	1.40E-02	0	34.7%
<u>Landfill Gas Flare</u>	6.49E-04	3.56E-03	1.48E-04	0	98%
<u>Grinder (EU04)</u>	2.82E-04	4.90E-02	2.04E-03	N/A	N/A
<u>Grinder (EU05)</u>	4.37E-04	3.59E-02	1.50E-03	N/A	N/A
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TOTALS		6.25E-02	4.23E-01	1.77E-02	

* Please attach all calculations.

* See Attachment 1 for the minimum reporting values.

****Control Device**

S = Scrubber

B = Baghouse

ESP = Electrostatic Precipitator

A = Afterburner

C = Condenser

AD = Adsorption

O = Other

¹Emissions must be broken down by equipment registration number (ex. 9-0076, 9-0077)

NOTE: According to MDE Notice regarding 2012 Emission Certification Requirements - "Emissions must be reported for all HAPS listed in Section 112(b) of the Clean Air Act, excluding those removed by 40 CFR 63.60 and those emitted below the

1/09/08 Department's minimum reporting thresholds". As a result, the pollutants listed in Section 112(b) for which emission factors were available in the current version of EPA - AP-42 (i.e. Chapter 3.3 Gasoline & Diesel Industrial Engines, October 1996 and Chapter 2.4 Municipal Solid Waste Landfills, November 1998) and whose emissions are above the departments reporting threshold are reported herein.

FORM 4:**TOXIC AIR POLLUTANTS**Calendar Year: 2023**EMISSIONS CERTIFICATION REPORT**Facility Name: Cecil County Central Landfill Facility ID: 24-015-00163 Pollutant: Chloroethane*

Equipment Description/ Registration Number ¹	Actual Emissions			Control Device**	% Efficiency
	Tons/yr	Lbs/day	Lbs/hr		
Landfill (Fugitive) -----	3.45E-02	1.89E-01	7.88E-03	0	34.7%
Landfill Gas Flare	3.67E-04	2.01E-03	0.84E-04	0	98%
Grinder (EU04) -----	0.00E+00	0.00E+00	0.00E+00	N/A	N/A
Grinder (EU05)	0.00E+00	0.00E+00	0.00E+00	N/A	N/A

TOTALS		3.49E-02	1.91E-01	7.96E-03	

* Please attach all calculations.

* See Attachment 1 for the minimum reporting values.

****Control Device**

S = Scrubber

B = Baghouse

ESP = Electrostatic Precipitator

A = Afterburner

C = Condenser

AD = Adsorption

O = Other

¹Emissions must be broken down by equipment registration number (ex. 9-0076, 9-0077)

NOTE: According to MDE Notice regarding 2012 Emission Certification Requirements - "Emissions must be reported for all HAPS listed in Section 112(b) of the Clean Air Act, excluding those removed by 40 CFR 63.60 and those emitted below the

1/09/08 Department's minimum reporting thresholds". As a result, the pollutants listed in Section 112(b) for which emission factors were available in the current version of EPA - AP-42 (i.e. Chapter 3.3 Gasoline & Diesel Industrial Engines, October 1996 and Chapter 2.4 Municipal Solid Waste Landfills, November 1998) and whose emissions are above the departments reporting threshold are reported herein.

FORM 4:**TOXIC AIR POLLUTANTS**Calendar Year: 2023**EMISSIONS CERTIFICATION REPORT**Facility Name: Cecil County Central Landfill Facility ID: 24-015-00163 Pollutant: Vinyl Chloride *

Equipment Description/ Registration Number ¹	Actual Emissions			Control Device**	% Efficiency
	Tons/yr	Lbs/day	Lbs/hr		
Landfill (Fugitive) -----	1.88E-01	1.03E+00	4.29E-02	0	34.7%
Landfill Gas Flare -----	1.99E-03	1.09E-02	4.54E-04	0	98%
Grinder (EU04) -----	0.00E+00	0.00E+00	0.00E+00	N/A	N/A
Grinder (EU05) -----	0.00E+00	0.00E+00	0.00E+00	N/A	N/A

TOTALS		1.90E-01	1.04E+00	4.34E-02	

* Please attach all calculations.

* See Attachment 1 for the minimum reporting values.

****Control Device**

S = Scrubber

B = Baghouse

ESP = Electrostatic Precipitator

A = Afterburner

C = Condenser

AD = Adsorption

O = Other

¹Emissions must be broken down by equipment registration number (ex. 9-0076, 9-0077)

NOTE: According to MDE Notice regarding 2012 Emission Certification Requirements - "Emissions must be reported for all HAPS listed in Section 112(b) of the Clean Air Act, excluding those removed by 40 CFR 63.60 and those emitted below the Department's minimum reporting thresholds". As a result, the pollutants listed in Section 112(b) for which emission factors were available in the current version of EPA - AP-42 (i.e. Chapter 3.3 Gasoline & Diesel Industrial Engines, October 1996 and Chapter 2.4 Municipal Solid Waste Landfills, November 1998) and whose emissions are above the departments reporting threshold are reported herein.

FORM 4:

TOXIC AIR POLLUTANTS

Calendar Year: 2023

EMISSIONS CERTIFICATION REPORT

Facility Name: Cecil County Central Landfill **Facility ID:** 24-015-00163 **Pollutant:** Formaldehyde*

Equipment Description/ Registration Number ¹		Actual Emissions			Control Device**	% Efficiency
		Tons/yr	Lbs/day	Lbs/hr		
Landfill (Fugitive)		0.00E+00	0.00E+00	0.00E+00	0	34.7%
Landfill Gas Flare		0.00E+00	0.00E+00	0.00E+00	0	98%
Grinder (EU04)		3.56-04	6.19E-02	2.58E-03	N/A	N/A
Grinder (EU05)		5.52E-04	4.54E-02	1.89E-03	N/A	N/A
TOTALS		9.08E-04	1.07E-01	4.47E-03		

* Please attach all calculations.

* See Attachment 1 for the minimum reporting values.

**Control Device

S = Scrubber

B = Baghouse

ESP = Electrostatic Precipitator

A = Afterburner

C = Condenser

AD = Adsorbtion

0 = Other

¹Emissions must be broken down by equipment registration number (ex. 9-0076, 9-0077)

NOTE: According to MDE Notice regarding 2012 Emission Certification Requirements - "Emissions must be reported for all HAPS listed in Section 112(b) of the Clean Air Act, excluding those removed by 40 CFR 63.60 and those emitted below the

1/09/08 Department's minimum reporting thresholds". As a result, the pollutants listed in Section 112(b) for which emission factors were available in the current version of EPA - AP-42 (i.e. Chapter 3.3 Gasoline & Diesel Industrial Engines, October 1996 and Chapter 2.4 Municipal Solid Waste Landfills, November 1998) and whose emissions are above the departments reporting threshold are reported herein.

FORM 5:**BILLABLE TOXIC AIR POLLUTANTS**Calendar Year: 2023**Emissions Certification Report**Facility Name: Cecil County Central Landfill Facility ID#: 24-015-00163

Chemical Name	CAS Number		Actual Emissions			Estimation Method
			Tons/year	Lbs/day	Lbs/hr	
carbon disulfide	75-15-0	S	1.93E-04	1.06E-03	4.41E-05	C3
		F	1.82E-02	9.97E-02	4.16E-03	C3
carbonyl sulfide	463-58-1	S	1.29E-04	7.07E-04	2.95E-05	C3
		F	1.21E-02	5.53E-02	2.30E-03	C3
chlorine	7782-50-5	S	--	--	--	
		F	--	--	--	
cyanide compounds	57-12-5	S	--	--	--	
		F	--	--	--	
hydrochloric acid	7647-01-0	S	3.24E-01	1.78E+00	7.40E-02	C3
		F	0.00E+00	0.00E+00	0.00E+00	C3
hydrogen fluoride	7664-39-3	S	--	--	--	
		F	--	--	--	
methyl chloroform	71-55-6	S	2.80E-04	1.53E-03	6.39E-05	C3
		F	2.64E-02	1.45E-01	6.03E-03	C3
methylene chloride	75-09-2	S	5.20E-03	2.85E-02	1.19E-03	C3
		F	4.89E-01	2.68E+00	1.12E-01	C3
perchloroethylene	127-18-4	S	2.68E-03	1.47E-02	6.12E-04	C3
		F	2.53E-01	1.39E+00	5.78E-02	C3
phosphine	7803-51-2	S	--	--	--	
		F	--	--	--	
titanium tetrachloride	7550-45-0	S	--	--	--	
		F	--	--	--	
TOTALS			1.13E+00	6.20E+00	2.58E-01	

S-Stack Emissions

F-Fugitive Emissions

Daily emissions (lbs/day) are lbs/operating day of the source

Emission Estimation Method

A1-U.S. EPA Reference Method

A2-Other Particulate Sampling Train

A3-Liquid Absorption Technique

A4-Solid Absorption Technique

A5-Freezing Out Technique

A9-Other, Specify

C1-User calculated based on source test
or other measurementC2-User calculated based on material balance using
engineering knowledge of the process

C3-User calculated based on AP-42

C4-User calculated by engineering judgment

C5-User calculated based on a State or
local agency factor

C6-New construction, not operational

C7-Source closed, operation ceased

C8-Computer calculated based on standards

This form is to include only the chemicals identified.

PLEASE NOTE: Be sure to attach all data and calculations necessary to support the emissions figures shown above.

03/09/09

FORM 6: Greenhouse Gases

GREENHOUSE GAS AIR POLLUTANTS

Calendar Year: 2023

EMISSIONS CERTIFICATION REPORT

Facility Name: Cecil County Central Landfill **Facility ID:** 24-015-00163 **Pollutant:** Carbon Dioxide *

Equipment Description/ Registration Number ¹		Actual Emissions		
		Tons/yr	Lbs/day	Lbs/hr
Landfill		9.06E+03	4.96E+04	2.07E+03
Landfill Gas Flare System		9.63E+03	5.28E+04	2.20E+03
Grinder (EU04)		4.95E+01	8.61E+03	3.59E+02
Grinder (EU05)		7.68E+01	6.31E+03	2.63E+02
TOTALS		1.88E+04	2.52E+04	4.89E+03

This form must be used to report
Greenhouse gas emissions:

- carbon dioxide (CO₂)
- methane (CH₄)
- nitrous oxide (N₂O)
- hydrofluorocarbons (HFCs)
- perfluorocarbons (PFCs)
- sulfur hexafluoride (SF₆)

* Use a separate form for each pollutant.

* Please attach all calculations.

¹Emissions must be broken down by equipment registration number (ex. 9-0076, 9-0077)

FORM 6: Greenhouse Gases**GREENHOUSE GAS AIR POLLUTANTS**Calendar Year: 2023**EMISSIONS CERTIFICATION REPORT**Facility Name: Cecil County Central Landfill Facility ID: 24-015-00163 Pollutant: Methane *

Equipment Description/ Registration Number ¹	Actual Emissions		
	Tons/yr	Lbs/day	Lbs/hr
<u>Landfill</u>	3.30E+03	1.81E+04	7.54E+02
<u>Landfill Gas Flare System</u>	3.51E+01	1.92E+02	8.00E+00
<u>Grinder (EU04)</u>	0.00E+00	0.00E+00	0.00E+00
<u>Grinder (EU05)</u>	0.00E+00	0.00E+00	0.00E+00

TOTALS	3.34E+03	1.83E+04	7.61E+02

This form must be used to report
Greenhouse gas emissions:

- carbon dioxide (CO₂)
- methane (CH₄)
- nitrous oxide (N₂O)
- hydrofluorocarbons (HFCs)
- perfluorocarbons (PFCs)
- sulfur hexafluoride (SF₆)

* Use a separate form for each pollutant.

* Please attach all calculations.

¹Emissions must be broken down by equipment registration number (ex. 9-0076, 9-0077)

FORM 6: Greenhouse Gases**GREENHOUSE GAS AIR POLLUTANTS**Calendar Year: 2023**EMISSIONS CERTIFICATION REPORT**Facility Name: Cecil County Central Landfill Facility ID: 24-015-00163 Pollutant: Nitrous Oxide*

Equipment Description/ Registration Number ¹	Actual Emissions		
	Tons/yr	Lbs/day	Lbs/hr
<u>Landfill</u> -----	0.00E+00	0.00E+00	0.00E+00
Landfill Gas Flare System	5.20E-02	1.12E-01	4.68E-01
<u>Grinder (EU04)</u> -----	3.99E-04	6.93E-02	2.89E-03
Grinder (EU05)	6.18E-04	5.08E-02	2.12E-03

TOTALS	5.30E-02	2.32E-01	4.73E-01

This form must be used to report
Greenhouse gas emissions:

- carbon dioxide (CO₂)
- methane (CH₄)
- nitrous oxide (N₂O)
- hydrofluorocarbons (HFCs)
- perfluorocarbons (PFCs)
- sulfur hexafluoride (SF₆)

* Use a separate form for each pollutant.

* Please attach all calculations.

¹Emissions must be broken down by equipment registration number (ex. 9-0076, 9-0077)

ATTACHMENT 1

LANDFILL GAS GENERATION RATE & COLLECTION EFFICIENCY ESTIMATES

BAI GROUP CALCULATION WORKSHEET

Proj No: 23-CCDPW-137 **Sheet** 1 of 1 **By:** KEF **Date:** 3/2024
Calc Title: 2023 LFG Generation Rate & Collection **Ch:** MDH **Date:** 3/2024
Efficiency Estimates

Objective

Estimate the 2023 landfill gas (LFG) generation rate and LFG collection efficiency for the Central Landfill.

Method & Conditions

The LFG generation rates for Central Landfill were estimated using the EPA's LandGEM Model (Ver 3.03). The parameters used for the Model are as follows.

- Waste Acceptance Rate:
Waste acceptance records for 1978 through 1998 were not available or not accurate. However, the Central Landfill since its opening in 1978 has accepted waste exclusively from Cecil County. As a result, based on the guidance provided in Mandatory Greenhouse Gas Reporting Rule 40 CFR §98, Subpart HH the population of Cecil County in conjunction with Equation HH-2 was used to estimate the disposal rate for the period of 1978 through 1998.

The disposal rates for 1999 through 2023 are based on scale house records. Additionally, waste composition records and records showing the type of waste disposed within the landfill were also available for 1999 through 2023. As a result, for those years only the waste disposed within the landfill was used within the calculations.
- Potential Methane Generation Capacity (L_0):
Potential Methane Generation Capacity (L_0) was based on the default value of 100 m³/Mg provided in the Model for inventory purposes.
- Methane Generation Rate (k):
Methane Generation Rate (k) based on the default value of 0.04 year⁻¹ provided in the Model for inventory purposes.
- NMOC Concentration:
NMOC concentration of 355 ppmv as Hexane was based on an average of 4 test runs completed 5/17/2022 as a part of the Compliance Emissions Test Report for NMOC.
- The average LFG collection rate for January through December 2023 based on the flare data recorder is 321 scfm.

Calculation & Conclusion

According to the enclosed LandGEM Model results, the average 2023 LFG generation rates for the Central Landfill is approximately 925.4 scfm. Therefore, the approximate LFG collection efficiency for 2023 is 34.7% (321/925.4).

**CECIL COUNTY DEPARTMENT OF PUBLIC WORKS
CENTRAL LANDFILL**

2023 INVENTORY REPORT

Gas / Pollutant	Emission Rate				
	(Mg/year)	(m3/year)	(av ft3/min)	(ft3/year)	(short tons/year)
Total landfill gas	1.720E+04	1.377E+07	9.254E+02	4.864E+08	1.892E+04
Methane	4.594E+03	6.887E+06	4.627E+02	2.432E+08	5.054E+03
Carbon dioxide	1.261E+04	6.887E+06	4.627E+02	2.432E+08	1.387E+04
NMOC	1.754E+01	4.894E+03	3.288E-01	1.728E+05	1.930E+01
1,1,1-Trichloroethane (methyl chloroform) - HAP	3.668E-02	6.611E+00	4.442E-04	2.335E+02	4.035E-02
1,1,2,2-Tetrachloroethane - HAP/VOC	1.058E-01	1.515E+01	1.018E-03	5.350E+02	1.163E-01
1,1-Dichloroethane (ethylidene dichloride) - HAP/VOC	1.361E-01	3.306E+01	2.221E-03	1.167E+03	1.497E-01
1,1-Dichloroethene (vinylidene chloride) - HAP/VOC	1.111E-02	2.755E+00	1.851E-04	9.728E+01	1.222E-02
1,2-Dichloroethane (ethylene dichloride) - HAP/VOC	2.324E-02	5.647E+00	3.794E-04	1.994E+02	2.557E-02
1,2-Dichloropropane (propylene dichloride) - HAP/VOC	1.165E-02	2.479E+00	1.666E-04	8.755E+01	1.282E-02
2-Propanol (isopropyl alcohol) - VOC	1.722E+00	6.887E+02	4.627E-02	2.432E+04	1.894E+00
Acetone	2.329E-01	9.641E+01	6.478E-03	3.405E+03	2.562E-01
Acrylonitrile - HAP/VOC	1.915E-01	8.677E+01	5.830E-03	3.064E+03	2.106E-01
Benzene - No or Unknown Co-disposal - HAP/VOC	8.502E-02	2.617E+01	1.758E-03	9.242E+02	9.352E-02
Benzene - Co-disposal - HAP/VOC	4.922E-01	1.515E+02	1.018E-02	5.350E+03	5.414E-01
Bromodichloromethane - VOC	2.909E-01	4.270E+01	2.869E-03	1.508E+03	3.200E-01
Butane - VOC	1.665E-01	6.887E+01	4.627E-03	2.432E+03	1.831E-01
Carbon disulfide - HAP/VOC	2.530E-02	7.988E+00	5.367E-04	2.821E+02	2.782E-02
Carbon monoxide	2.246E+00	1.928E+03	1.296E-01	6.810E+04	2.471E+00
Carbon tetrachloride - HAP/VOC	3.525E-04	5.509E-02	3.702E-06	1.946E+00	3.878E-04
Carbonyl sulfide - HAP/VOC	1.686E-02	6.749E+00	4.535E-04	2.383E+02	1.855E-02
Chlorobenzene - HAP/VOC	1.612E-02	3.443E+00	2.314E-04	1.216E+02	1.773E-02
Chlorodifluoromethane	6.440E-02	1.791E+01	1.203E-03	6.323E+02	7.084E-02
Chloroethane (ethyl chloride) - HAP/VOC	4.805E-02	1.791E+01	1.203E-03	6.323E+02	5.285E-02
Chloroform - HAP/VOC	2.052E-03	4.132E-01	2.776E-05	1.459E+01	2.257E-03
Chloromethane - VOC	3.471E-02	1.653E+01	1.111E-03	5.837E+02	3.818E-02
Dichlorobenzene - (HAP for para isomer/VOC)	1.768E-02	2.892E+00	1.943E-04	1.021E+02	1.945E-02
Dichlorodifluoromethane	1.108E+00	2.204E+02	1.481E-02	7.782E+03	1.219E+00
Dichlorofluoromethane - VOC	1.533E-01	3.581E+01	2.406E-03	1.265E+03	1.686E-01
Dichloromethane (methylene chloride) - HAP	6.812E-01	1.928E+02	1.296E-02	6.810E+03	7.494E-01
Dimethyl sulfide (methyl sulfide) - VOC	2.776E-01	1.074E+02	7.218E-03	3.794E+03	3.054E-01
Ethane	1.533E+01	1.226E+04	8.236E-01	4.329E+05	1.686E+01
Ethanol - VOC	7.127E-01	3.719E+02	2.499E-02	1.313E+04	7.840E-01
Ethyl mercaptan (ethanethiol) - VOC	8.186E-02	3.168E+01	2.128E-03	1.119E+03	9.005E-02
Ethylbenzene - HAP/VOC	2.798E-01	6.336E+01	4.257E-03	2.237E+03	3.077E-01
Ethylene dibromide - HAP/VOC	1.076E-04	1.377E-02	9.254E-07	4.864E-01	1.184E-04
Fluorotrichloromethane - VOC	5.981E-02	1.047E+01	7.033E-04	3.697E+02	6.579E-02
Hexane - HAP/VOC	3.258E-01	9.090E+01	6.108E-03	3.210E+03	3.584E-01
Hydrogen sulfide	7.028E-01	4.958E+02	3.332E-02	1.751E+04	7.731E-01
Mercury (total) - HAP	3.333E-05	3.994E-03	2.684E-07	1.411E-01	3.666E-05
Methyl ethyl ketone - HAP/VOC	2.933E-01	9.779E+01	6.570E-03	3.453E+03	3.226E-01
Methyl isobutyl ketone - HAP/VOC	1.090E-01	2.617E+01	1.758E-03	9.242E+02	1.199E-01
Methyl mercaptan - VOC	6.890E-02	3.443E+01	2.314E-03	1.216E+03	7.579E-02
Pentane - VOC	1.364E-01	4.545E+01	3.054E-03	1.605E+03	1.500E-01
Perchloroethylene (tetrachloroethylene) - HAP	3.515E-01	5.096E+01	3.424E-03	1.800E+03	3.866E-01
Propane - VOC	2.778E-01	1.515E+02	1.018E-02	5.350E+03	3.056E-01
1,1,2-Dichloroethene - VOC	1.555E-01	3.857E+01	2.591E-03	1.362E+03	1.710E-01
Toluene - No or Unknown Co-disposal - HAP/VOC	2.058E+00	5.372E+02	3.609E-02	1.897E+04	2.264E+00
Toluene - Co-disposal - HAP/VOC	8.972E+00	2.341E+03	1.573E-01	8.269E+04	9.870E+00
Trichloroethylene (trichloroethene) - HAP/VOC	2.108E-01	3.857E+01	2.591E-03	1.362E+03	2.318E-01
Vinyl chloride - HAP/VOC	2.614E-01	1.005E+02	6.756E-03	3.551E+03	2.875E-01
Xylenes - HAP/VOC	7.298E-01	1.653E+02	1.111E-02	5.837E+03	8.028E-01
Highest Individual HAP²	2.058E+00	5.372E+02	3.609E-02	1.897E+04	2.264E+00
Total HAP²	6.521E+00	1.733E+03	1.165E-01	6.121E+04	7.173E+00
Total VOC³	9.589E+00	3.127E+03	2.101E-01	1.104E+05	1.0548E+01

Notes:

1. Values in this table are taken from the LandGEM Model Ver. 3.02, Inventory Report.
2. Total HAP generation rate is obtained by adding all HAP's and HAP/VOC's above. Since there was no co-disposal at Central Landfill the Toluene generation rate for no co-disposal is included in the total. The generation rate for Toluene (co-disposal) is not included in the total.
3. Total VOC generation rate is obtained by adding all VOC's and HAP/VOC's above. Since there was no co-disposal at Central Landfill the Toluene generation rate for no co-disposal is included in the total. The generation rate for Toluene (co-disposal) is not included in the total.

**CECIL COUNTY DEPARTMENT OF PUBLIC WORKS
CENTRAL LANDFILL**

2023 FUGITIVE AND FLARE EMISSIONS

2023 LFG Collection Efficiency = 34.69% (Attachment 1)
Flare Control Efficiency = 98% (AP-42)

Gas / Pollutant	2023 Generation Rates ¹	Fugitive Emissions	Flare Emissions ²	Flare Emissions ³	Total Emissions		
	(tons/year)	(tons/year)	(tons/year)	(tons/year)	(lb/hr)	(lb/day)	(tons/year)
Methane ⁹	5.05E+03	3.30E+03	3.51E+01	-	7.62E+02	1.83E+04	3.34E+03
Carbon dioxide ^{4,9}	1.39E+04	9.06E+03	4.81E+03	4.82E+03	4.27E+03	1.02E+05	1.87E+04
1,1,1-Trichloroethane (methyl chloroform) - HAP	4.04E-02	2.64E-02	2.80E-04	-	6.08E-03	1.46E-01	2.66E-02
1,1,2,2-Tetrachloroethane - HAP/VOC	1.16E-01	7.60E-02	8.07E-04	-	1.75E-02	4.21E-01	7.68E-02
1,1-Dichloroethane (ethylidene dichloride) - HAP/VOC	1.50E-01	9.78E-02	1.04E-03	-	2.26E-02	5.41E-01	9.88E-02
1,1-Dichloroethene (vinylidene chloride) - HAP/VOC	1.22E-02	7.98E-03	8.48E-05	-	1.84E-03	4.42E-02	8.06E-03
1,2-Dichloroethane (ethylene dichloride) - HAP/VOC	2.56E-02	1.67E-02	1.77E-04	-	3.85E-03	9.25E-02	1.69E-02
1,2-Dichloropropane (propylene dichloride) - HAP/VOC	1.28E-02	8.37E-03	8.89E-05	-	1.93E-03	4.64E-02	8.46E-03
2-Propanol (isopropyl alcohol) - VOC	1.89E+00	1.24E+00	1.31E-02	-	2.85E-01	6.85E+00	1.25E+00
Acetone	2.56E-01	1.67E-01	1.78E-03	-	3.86E-02	9.27E-01	1.69E-01
Acrylonitrile - HAP/VOC	2.11E-01	1.38E-01	1.46E-03	-	3.17E-02	7.62E-01	1.39E-01
Benzene - No or Unknown Co-disposal - HAP/VOC	9.35E-02	6.11E-02	6.49E-04	-	1.41E-02	3.38E-01	6.17E-02
Benzene - Co-disposal - HAP/VOC	5.41E-01	3.54E-01	3.76E-03	-	8.16E-02	1.96E+00	3.57E-01
Bromodichloromethane - VOC	3.20E-01	2.09E-01	2.22E-03	-	4.82E-02	1.16E+00	2.11E-01
Butane - VOC	1.83E-01	1.20E-01	1.27E-03	-	2.76E-02	6.62E-01	1.21E-01
Carbon disulfide - HAP/VOC	2.78E-02	1.82E-02	1.93E-04	-	4.19E-03	1.01E-01	1.84E-02
Carbon monoxide ⁵	2.47E+00	1.61E+00	0.00E+00	1.37E+01	3.50E+00	8.39E+01	1.53E+01
Carbon tetrachloride - HAP/VOC	3.88E-04	2.53E-04	2.69E-06	-	5.84E-05	1.40E-03	2.56E-04
Carbonyl sulfide - HAP/VOC	1.85E-02	1.21E-02	1.29E-04	-	2.80E-03	6.71E-02	1.22E-02
Chlorobenzene - HAP/VOC	1.77E-02	1.16E-02	1.23E-04	-	2.67E-03	6.41E-02	1.17E-02
Chlorodifluoromethane	7.08E-02	4.63E-02	4.91E-04	-	1.07E-02	2.56E-01	4.68E-02
Chloroethane (ethyl chloride) - HAP/VOC	5.29E-02	3.45E-02	3.67E-04	-	7.97E-03	1.91E-01	3.49E-02
Chloroform - HAP/VOC	2.26E-03	1.47E-03	1.57E-05	-	3.40E-04	8.16E-03	1.49E-03
Chloromethane - VOC	3.82E-02	2.49E-02	2.65E-04	-	5.75E-03	1.38E-01	2.52E-02
Dichlorobenzene - (HAP for para isomer/VOC)	1.95E-02	1.27E-02	1.35E-04	-	2.93E-03	7.04E-02	1.28E-02
Dichlorodifluoromethane	1.22E+00	7.96E-01	8.46E-03	-	1.84E-01	4.41E+00	8.05E-01
Dichlorofluoromethane - VOC	1.69E-01	1.10E-01	1.17E-03	-	2.54E-02	6.10E-01	1.11E-01
Dichloromethane (methylene chloride) - HAP	7.49E-01	4.89E-01	5.20E-03	-	1.13E-01	2.71E+00	4.95E-01
Dimethyl sulfide (methyl sulfide) - VOC	3.05E-01	1.99E-01	2.12E-03	-	4.60E-02	1.10E+00	2.02E-01
Ethane	1.69E+01	1.10E+01	1.17E-01	-	2.54E+00	6.10E+01	1.11E+01
Ethanol - VOC	7.84E-01	5.12E-01	5.44E-03	-	1.18E-01	2.84E+00	5.18E-01
Ethyl mercaptan (ethanethiol) - VOC	9.00E-02	5.88E-02	6.25E-04	-	1.36E-02	3.26E-01	5.94E-02
Ethylbenzene - HAP/VOC	3.08E-01	2.01E-01	2.13E-03	-	4.64E-02	1.11E+00	2.03E-01
Ethylene dibromide - HAP/VOC	1.18E-04	7.73E-05	8.21E-07	-	1.78E-05	4.28E-04	7.81E-05
Fluorotrichloromethane - VOC	6.58E-02	4.30E-02	4.56E-04	-	9.92E-03	2.38E-01	4.34E-02
Hexane - HAP/VOC	3.58E-01	2.34E-01	2.49E-03	-	5.40E-02	1.30E+00	2.37E-01
Hydrogen sulfide	7.73E-01	5.05E-01	5.36E-03	-	1.17E-01	2.80E+00	5.10E-01
Mercury (total) - HAP ⁶	3.67E-05	2.39E-05	1.27E-05	-	8.37E-06	2.01E-04	3.67E-05
Methyl ethyl ketone - HAP/VOC	3.23E-01	2.11E-01	2.24E-03	-	4.86E-02	1.17E+00	2.13E-01
Methyl isobutyl ketone - HAP/VOC	1.20E-01	7.83E-02	8.32E-04	-	1.81E-02	4.34E-01	7.92E-02
Methyl mercaptan - VOC	7.58E-02	4.95E-02	5.26E-04	-	1.14E-02	2.74E-01	5.00E-02
Pentane - VOC	1.50E-01	9.80E-02	1.04E-03	-	2.26E-02	5.43E-01	9.90E-02
Perchloroethylene (tetrachloroethylene) - HAP	3.87E-01	2.53E-01	2.68E-03	-	5.83E-02	1.40E+00	2.55E-01
Propane - VOC	3.06E-01	2.00E-01	2.12E-03	-	4.61E-02	1.11E+00	2.02E-01
t-1,2-Dichloroethene - VOC	1.71E-01	1.12E-01	1.19E-03	-	2.58E-02	6.19E-01	1.13E-01
Toluene - No or Unknown Co-disposal - HAP/VOC	2.26E+00	1.48E+00	1.57E-02	-	3.41E-01	8.19E+00	1.49E+00
Toluene - Co-disposal - HAP/VOC	9.87E+00	6.45E+00	6.85E-02	-	1.49E+00	3.57E+01	6.51E+00
Trichloroethylene (trichloroethene) - HAP/VOC	2.32E-01	1.51E-01	1.61E-03	-	3.49E-02	8.39E-01	1.53E-01
Vinyl chloride - HAP/VOC	2.88E-01	1.88E-01	1.99E-03	-	4.33E-02	1.04E+00	1.90E-01
Xylenes - HAP/VOC	8.03E-01	5.24E-01	5.57E-03	-	1.21E-01	2.90E+00	5.30E-01
Highest Individual HAP ⁷	2.26E+00	1.48E+00	1.57E-02	-	3.41E-01	8.19E+00	1.49E+00
Total HAP ⁷	7.17E+00	4.68E+00	4.98E-02	-	1.08E+00	2.59E+01	4.73E+00
Total VOC ⁸	1.05E+01	6.89E+00	7.32E-02	-	1.59E+00	3.82E+01	6.96E+00

Notes:

- Values in this table are taken from the LandGEM Model Ver. 3.03, Inventory Report.
5. Emissions of compounds present in LFG that enter the flare with the LFG and are emitted based on the flares destruction efficiency. Does not apply to Carbon Dioxide and Carbon Monoxide emissions.
- Emissions from flare calculated based on manufacturers specifications and other emission factors, see enclosed calculation worksheet.
6. The destruction efficiency for mercury and carbon dioxide is assumed zero.
- Total HAP generation rate is obtained by adding all HAP's and HAP/VOC's above. Since there was no co-disposal at Central Landfill the Toluene generation rate for no co-disposal is included in the total. The generation rate for Toluene (co-disposal) is not included in the total.
- Total VOC generation rate is obtained by adding all VOC's and HAP/VOC's above. Since there was no co-disposal at Central Landfill the Toluene generation rate for no co-disposal is included in the total. The generation rate for Toluene (co-disposal) is not included in the total.
- Combustion of one mole methane produces 1 mole carbon dioxide. The molar masses of methane and carbondioxide are 16 and 44 g/mole, respectively. Therefore combustion of 1 lb methane produces 2.75 lb (44/16) carbon dioxide.

TRIANGLE ENVIRONMENTAL SERVICES, INC.

METHOD 25-C TABLE OF RESULTS

Name: BAI Group

ID#17047-25C Analyzed: 6/1-6-17

Project ID: 16-CCDPW-IIIx14

	Sample Description	Concentrations (ppm)		As Carbon	
		CH4	CO2	NMOC (ppm)	Mass Conc. (mg/cu.m)
1	Tank 1	588222	388570	2534	1265
2	Tank 2	583088	384148	1882	940
3	Tank 3	586346	387544	1980	989

Correction of concentrations for the presence of air was made
(3 sample(s) corrected using oxygen)

* Please refer to the "Comments on the Analyses" page of the report for additional information.

Average
= 2132 ppm as Carbon
= 355.3 ppm as Hexane



U.S. Census Bureau

American FactFinder

POPULATION FINDER

United States | Maryland | **Cecil County**

Cecil County, Maryland

County, Maryland is 99,926.

**The 2008 population
estimate for Cecil**

city/ town, county, or zip

cecil

state

Maryland



search by address »

Note: Information about challenges to population estimates data can be found on the Population Estimates Challenges page.

View population trends...

	2008	2000	1990
Population	99,926	85,951	71,347

Source: [U.S. Census Bureau](#), 2008 Population Estimates, Census 2000, 1990 Census

View more results...

Population for all counties in Maryland, 2000:

[alphabetic](#) | [ranked](#)

Map of Persons per Square Mile, Maryland by County:

[2000](#) | [1990](#)

Map of Persons per Square Mile, County by County Subdivision:

[2000](#) | [1990](#)

See more data for Cecil County, Maryland on the Fact Sheet.

The letters PDF or symbol  indicate a document is in the Portable Document Format (PDF). To view the file you will need the Adobe® Acrobat® Reader, which is available for **free** from the Adobe web site.

**CECIL COUNTY DEPARTMENT OF PUBLIC WORKS
CENTRAL LANDFILL**

WASTE DISPOSAL RATES

Year	Population of Cecil County for Year X	Average Per Capita Waste Generation Rate For Year X	% of Waste Generated Managed at Landfills	Quantity of Waste Disposed in Year X ^{1, 2}	Quantity of Waste Disposed in Year X
	(capita)	(t/capita)	(%)	(metric tons, t)	Short Tons
X	POP _x	WGR _x	SWDS _x	W _x = POP _x x WGR _x x SWDS _x	
1978	71,347	0.74	100.00%	52,797	58,198
1979	71,347	0.75	100.00%	53,510	58,985
1980	71,347	0.75	100.00%	53,510	58,985
1981	71,347	0.76	100.00%	54,224	59,771
1982	71,347	0.77	100.00%	54,937	60,558
1983	71,347	0.77	100.00%	54,937	60,558
1984	71,347	0.78	100.00%	55,651	61,344
1985	71,347	0.79	100.00%	56,364	62,131
1986	71,347	0.79	100.00%	56,364	62,131
1987	71,347	0.80	100.00%	57,078	62,917
1988	71,347	0.80	100.00%	57,078	62,917
1989	71,347	0.85	84.00%	50,942	56,154
1990	71,347	0.84	87.00%	52,140	57,475
1991	85,951	0.78	76.00%	50,952	56,165
1992	85,951	0.76	72.00%	47,032	51,844
1993	85,951	0.78	71.00%	47,600	52,470
1994	85,951	0.77	67.00%	44,342	48,879
1995	85,951	0.72	63.00%	38,987	42,976
1996	85,951	0.71	62.00%	37,836	41,707
1997	85,951	0.72	61.00%	37,750	41,612
1998	85,951	0.78	61.00%	40,895	45,080
1999	---	---	---	63,685	70,201
2000	---	---	---	69,339	76,433
2001	---	---	---	71,941	79,301
2002	---	---	---	66,059	72,818
2003	---	---	---	88,049	97,057
2004	---	---	---	102,158	112,610
2005	---	---	---	121,336	133,750
2006	---	---	---	150,371	165,756
2007	--	---	--	111,298	122,685
2008	--	---	--	98,938	109,060
2009	---	---	--	91,151	100,477
2010	---	---	--	80,189	88,393
2011	---	---	--	78,941	87,018

Notes:

1. Waste acceptance records for 1978 through 1998 were not available or not accurate. However, the Central Landfill since its opening in 1978 has accepted waste exclusively from Cecil County. As a result, the population of Cecil County in conjunction with Equation HH-2 was used to estimate the disposal rate for the period of 1978 through 1998. The population of Cecil County for 1990 and 2000 based the enclosed on U.S. Census Bureau report is 71,347 and 85,951, respectively. Therefore, conservatively a population 71,347 was used for years 1978 through 1990 and 85,951 was used for years 1991 through 1998.

2. The disposal rates for 1999 through 2011 are based on enclosed scale house records. Additionally, waste composition records and records showing the type of waste disposed within the landfill were also available for 1999 through 2011. As a result, for those years, only the waste disposed within the landfill was used within the calculations.

CECIL COUNTY DEPARTMENT OF PUBLIC WORKS
CENTRAL LANDFILL - WASTE ACCEPTANCE RECORD

1999 Material Type	Jan.	Feb.	Mar.	April	May	Jun.	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Residential	1404	1257	1501	1721	1673	2263	1957	2363	2583	2168	2220	1468	22,578
Commercial	747	857	1068	1538	1428	1602	2149	2143	2190	2027	1757	1240	18,746
Industrial	31	39	50	68	61	94	82	156	159	141	139	58	1,078
Institutional	42	48	47	46	56	58	53	45	74	84	80	81	714
Homeowners	1291	1185	1236	1391	1426	40	1517	1503	1579	1589	1558	1540	15,855
School Board	121	118	122	106	107	162	163	119	106	136	122	12	1,394
Total M.R.A.	3636	3504	4024	4870	4751	4219	5921	6329	6691	6145	5876	4399	60,365
LandClearing	16	1	34	75	27	40	60	14	785	103	103	168	1,366
C&D Bldg.	325	426	362	494	513	483	680	623	468	465	465	481	6,164
C&D Road	0	55	6	2	1	4	1	17	20	10	10	24	286
Bulky Objects/ Special Waste	4	8	12	18	5	8	6	18	34	14	14	21	214
Asbestos	0	2	0	0	0	0	0	0	0	0	0	0	2
Sludge	199	250	263	309	243	259	211	211	264	308	308	384	3,141
Litter/ Special Waste	0	1	0	4	0	2	2	1	0	2	2	1	14
Contaminated Soil/ Spec. Waste	0	0	0	0	14	0	1	0	0	0	0	0	15
Total Non M.R.A.	544	743	677	902	803	796	961	884	1571	902	902	1079	11,202
Batteries	2	2	2	4	2	0	5	2	0	0	0	0	26
Brush & Yard Commercial	10	11	12	26	53	29	29	22	33	125	125	30	445
Brush & Yard Homeowners	138	128	251	317	256	1718	535	739	503	304	304	365	5,718
Commingles	37	28	33	44	30	41	44	14	38	38	38	51	443
Cardboard	1	0	4	2	0	4	3	1	0	2	2	0	19
Newspaper	22	23	14	41	32	34	25	30	20	14	14	37	323
Mixed Paper	40	34	40	35	49	47	42	39	39	55	55	47	528
Tires	37	9	22	32	62	0	38	12	10	40	40	59	342
Appliances/ Scrap Metal	0	0	0	0	444	166	0	0	162	0	0	0	1,109
Mulch	117	39	39	156	156	117	78	78	156	234	234	156	1,482
Compost	668	334	668	167	668	501	334	501	668	668	668	501	6,012
E-Cycling	0	0	0	0	0	0	0	0	0	0	0	0	0
Recycling Total	1072	608	1085	824	1752	2657	1133	1438	1629	1480	1480	1246	16,447
Total Waste Landfilled (Tons) =													70,201

*Rows highlighted in blue represent the waste that was disposed within the landfill.

CECIL COUNTY DEPARTMENT OF PUBLIC WORKS
CENTRAL LANDFILL - WASTE ACCEPTANCE RECORD

2000 Material Type	Jan.	Feb.	Mar.	April	May	Jun.	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Residential	1567	1392	1444	1588	1638	1473	1354	1474	1228	1561	1400	1182	17,301
Commercial	1054	1449	2079	2955	3578	3537	2823	3066	3006	3149	2672	1874	31,242
Industrial	104	76	11	2	10	4	6	6	5	11	10	7	252
Institutional	75	81	81	109	98	99	79	89	72	74	74	66	997
Homeowners	1259	1296	1370	1500	1587	1354	1357	1418	1386	1317	1015	660	15,519
School Board	101	111	103	59	137	149	179	140	173	111	178	98	1,539
Total M.R.A.	4160	4405	5088	6213	7048	6616	5798	6193	5870	6223	5349	3887	66,850
LandClearing	42	138	271	60	76	111	36	7	68	237	237	2	1,069
C&D Bldg.	268	360	386	367	531	283	337	387	487	541	541	308	5,029
C&D Road	0	0	135	0	7	9	5	11	0	204	204	167	562
Bulky Objects/ Special Waste	17	5	29	35	42	70	35	170	24	70	70	23	669
Asbestos	0	2	0	0	0	1	0.4	0	0	1	1	0	7
Sludge	269	266	313	265	331	316	244	267	262	236	236	265	3,289
Litter/ Special Waste	8	0	1	1	0	0	0	0	2	2	2	0	14
Contaminated Soil/ Spec. Waste	0	0	103	0	0	0	6	0	0	0	0	7	13
Total Non M.R.A.	604	771	1238	728	987	790	663	842	843	1241	1291	772	10,770
Batteries	14	0	0	0	9	0	13	0	0	0	0	0	36
Brush & Yard Commercial	5	0.1	17	53	58	50	31	68	32	76	76	20	463
Brush & Yard Homeowners	184	142	396	341	535	469	277	370	267	189	189	98	3,453
Commingles	44	42	53	39	51	50	46	47	42	52	52	14	505
Cardboard	4	0	0	2	2	2	3	2	4	5	5	4	31
Newspaper	37	8	15	16	17	8	19	38	31	47	47	37	330
Mixed Paper	39	42	58	34	47	42	73	43	32	34	34	19	503
Tires	17	35	18	10	8	29	57	34	7	37	37	59	346
Appliances/ Scrap Metal	0	0	307	236	0	0	0	138	249	0	0	0	1,295
Mulch	156	156	78	156	78	156	78	156	585	273	273	78	2,067
Compost	668	501	668	334	668	501	501	668	1169	835	835	501	7,515
E-Cycling	0	0	0	0	0	0	0	0	0	0	0	0	0
Recycling Total	1168	926	1610	1221	1473	1307	1098	1564	2418	1381	1548	830	16,544
Total Waste Landfilled (Tons) =													76,433

*Rows highlighted in blue represent the waste that was disposed within the landfill.

CECIL COUNTY DEPARTMENT OF PUBLIC WORKS
CENTRAL LANDFILL - WASTE ACCEPTANCE RECORD

2001 Material Type	Jan.	Feb.	Mar.	April	May	Jun.	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Residential	1045	844	1067	1450	1966	1729	1631	1699	1430	1748	16546	1500	17,765
Commercial	1549	1392	1998	2689	3873	4376	4640	4944	4227	4321	4224	3961	42,194
Industrial	5	6	11	11	30	13	8	14	11	14	18	0	141
Institutional	80	58	82	90	88	67	75	77	64	81	86	81	929
Homeowners	660	596	731	745	708	719	701	644	563	668	576	583	7,894
School Board	108	109	119	99	155	249	313	109	138	120	135	150	1,804
Total M.R.A.	3447	3005	4008	5084	6820	7153	7368	7487	6433	6952	6695	62756	70,727
LandClearing	12	58	106	164	192	181	619	143	82	73	47	23	1,700
C&D Bldg.	333	226	309	321	280	256	304	311	295	441	380	280	3,736
C&D Road	87	68	240	13	49	23	51	9	16	19	47	1	623
Bulky Objects/ Special Waste	16	3	29	18	7	10	29	14	9	106	24	16	281
Asbestos	1	0	0	1	1	0	0	0	1	0	0	1	5
Sludge	352	378	279	352	309	326	273	335	355	422	108	307	3,796
Litter/ Special Waste	6	0	0	2	0	2	20	61	1	1	0	1	94
Contaminated Soil/ Spec. Waste	0	0	0	0	0	19	18	2	0	0	0	0	39
Total Non M.R.A.	807	733	963	871	838	817	1314	875	759	1062	606	629	10,274
Batteries	0	0	12	0	8	0	11	0	0	8	0	0	39
Brush & Yard Commercial	11	7	34	61	50	54	40	33	32	64	102	38	5,626
Brush & Yard Homeowners	84	94	197	235	149	140	122	108	164	136	203	110	1,742
Commingles	48	47	59	57	59	57	61	60	58	55	58	39	658
Cardboard	0	6	4	4	4	5	5	7	2	5	4	3	49
Newspaper	34	23	53	20	34	55	23	34	22	34	34	12	378
Mixed Paper	30	27	36	37	23	38	36	47	31	20	27	18	370
Tires	27	18	24	26	67	28	6	34	45	0	22	19	316
Appliances/ Scrap Metal	0	0	0	123	435	144	0	17	431	188	0	0	1,338
Mulch	117	156	195	156	156	273	156	156	390	273	390	195	2,613
Compost	668	668	668	668	501	501	668	1002	1336	668	1002	501	8,851
E-Cycling	0	0	0	0	0	0	0	0	0	0	0	0	0
Recycling Total	1019	1046	1282	1387	1486	1295	1128	1498	2511	1451	1842	935	16,880
Total Waste Landfilled (Tons) =													79,301

*Rows highlighted in blue represent the waste that was disposed within the landfill.

CECIL COUNTY DEPARTMENT OF PUBLIC WORKS
CENTRAL LANDFILL - WASTE ACCEPTANCE RECORD

2002 Material Type	Jan.	Feb.	Mar.	April	May	Jun.	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Residential	1543	692	1074	1447	1516	1406	1609	1472	1170	1582	1390	1477	16,378
Commercial	3635	1249	2457	3450	4194	3857	3999	3278	2745	2704	2704	2990	37,577
Industrial	0	0	0	0	0	0	0	0	0	0	0	0	0
Institutional	76	40	77	76	69	70	68	74	80	84	84	71	869
Homeowners	462	395	440	449	536	446	631	544	501	478	478	476	5,844
School Board	178	85	179	128	165	157	125	106	153	139	139	109	1,652
Total M.R.A.	5894	24613	4227	5550	6480	5936	6432	5474	4649	4795	4795	5123	62,320
LandClearing	63	7	19	23	46	421	425	16	1	1	1	20	1,049
C&D Bldg.	139	153	382	274	484	494	550	526	136	621	621	374	4,565
C&D Road	12	5	31	1	34	9	14	16	4	46	46	10	216
Bulky Objects/ Special Waste	7	24	73	103	47	204	71	41	5	39	39	64	753
Asbestos	0	0	0	0	0	0	1	0	0	0	0	0	3
Sludge	369	184	369	448	671	449	583	339	315	252	252	267	4,559
Litter/ Special Waste	0	0	1	2	0	0	26	27	0	12	12	0	68
Contaminated Soil/ Spec. Waste	0	0	0	0	1	301	0	0	0	0	0	32	334
Total Non M.R.A.	590	373	875	851	1283	1878	1670	965	461	971	863	767	11,547
Batteries	10	0	0	9	0	0	10	0	0	0	0	0	29
Brush & Yard Commercial	32	12	17	58	59	50	29	23	27	121	35	29	492
Brush & Yard Homeowners	72	64	122	207	219	151	167	190	111	217	303	70	1,893
Commingles	49	54	41	47	60	45	77	82	0	12	29	30	526
Cardboard	3	0	3	1	0	2	0	1	0	0	0	0	10
Newspaper	20	22	26	19	0	0	0	10	0	0	13	0	110
Mixed Paper	41	20	31	32	11	0	5	7	0	22	29	44	242
Tires	67	7	38	20	0	0	6	0	0	6	70	28	242
Appliances/ Scrap Metal	0	144	380	18	0	0	126	213	0	0	0	0	881
Mulch	156	117	156	234	195	312	273	273	330	468	429	390	3,333
Compost	1248	750	1249	1500	1249	1999	1749	1749	2500	3000	2750	2500	22,243
E-Cycling	0	0	0	0	0	0	0	0	0	0	0	0	0
Recycling Total	1698	1190	2063	2145	1793	2559	2442	2548	2968	3846	3658	3091	30,001
Total Waste Landfilled (Tons) =													72,818

*Rows highlighted in blue represent the waste that was disposed within the landfill.

CECIL COUNTY DEPARTMENT OF PUBLIC WORKS
CENTRAL LANDFILL - WASTE ACCEPTANCE RECORD

2003 Material Type	Jan.	Feb.	Mar.	April	May	Jun.	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Residential	1380	1155	1857	2040	1968	2261	2101	2063	2647	2083	1975	1998	23,548
Commercial	2986	2138	3046	3373	3509	4030	4802	4536	4635	4555	4124	3816	45,500
Industrial	0	0	0	0	0	0	0	0	0	0	0	0	0
Institutional	71	55	87	79	81	88	76	80	80	86	78	65	926
Homeowners	823	650	1130	1064	1018	1060	1226	1148	1072	1105	883	832	12,011
School Board	235	168	237	144	132	206	212	187	121	137	155	177	2,111
Total M.R.A.	5495	4166	6357	6700	6728	7645	8417	8014	8555	7966	7215	6888	84,146
LandClearing	72	0	22	2	1	0	56	7	22	0	0	2	184
C&D Bldg.	427	199	509	774	704	808	216	1005	899	807	781	551	7,680
C&D Road	8	3	9	27	64	35	12	97	1	7	9	16	288
Bulky Objects/ Special Waste	13	4	21	95	31	66	48	64	28	31	48	114	563
Asbestos	0	0	0	0	0	0	0	0	0	6	2	0	8
Sludge	254	297	213	548	590	435	580	318	352	267	233	308	4,395
Litter/ Special Waste	0	0	0	0	0	0	17	0	0	0	0	0	17
Contaminated Soil/ Spec. Waste	0	0	0	0	7	0	0	2	0	1	0	0	10
Total Non M.R.A.	774	503	774	1446	1397	1344	929	1493	1302	1119	1073	991	13,145
Batteries	0	0	0	0	0	0	0	0	14	9	0	0	23
Brush & Yard Commercial	16	6	29	54	73	81	67	47	92	61	88	8	622
Brush & Yard Homeowners	32	24	75	322	263	120	136	178	317	190	125	43	1,825
Commingles	49	0	59	68	41	67	50	38	52	46	32	57	559
Cardboard	0	0	0	0	0	0	0	0	3	0	0	0	3
Newspaper	0	0	0	9	11	11	10	0	0	0	0	20	61
Mixed Paper	0	14	8	59	26	40	15	14	23	14	28	6	247
Tires	0	0	12	0	30	13	27	28	35	12	16	16	189
Appliances/ Scrap Metal	0	0	447	60	0	7	0	252	466	48	0	0	1,280
Mulch	117	117	156	117	156	195	195	273	156	312	273	750	2,817
Compost	750	750	1249	750	1248	1249	1249	2333	1248	1999	1749	117	14,691
E-Cycling	0	0	0	0	0	0	0	0	0	0	0	0	0
Recycling Total	964	911	2035	1439	1848	1783	1749	3163	2406	2691	2311	1017	22,317
Total Waste Landfilled (Tons) =													97,057

*Rows highlighted in blue represent the waste that was disposed within the landfill.

CECIL COUNTY DEPARTMENT OF PUBLIC WORKS
CENTRAL LANDFILL - WASTE ACCEPTANCE RECORD

2004 Material Type	Jan.	Feb.	Mar.	April	May	Jun.	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Residential	1697	1523	1947	1843	1928	2490	2037	2727	2491	1994	2203	2153	25033
Commercial	3174	3950	4824	4414	4473	5841	5858	5280	4725	5354	4990	5104	57,987
Industrial	0	0	0	0	0	0	0	0	0	0	0	0	0
Institutional	59	64	77	71	71	82	99	89	81	77	78	74	922
Homeowners	801	818	951	1076	1168	1075	892	683	788	990	979	897	11118
School Board	158	138	222	211	235	459	124	145	123	133	97	96	2141
Total M.R.A.	5889	6493	8021	7615	7875	9947	9010	8324	8208	8548	8347	8324	97201
LandClearing	0	25	3	24	2	2	12	34	0	10	1	1	114
C&D Bldg.	538	796	835	744	881	1154	689	904	444	958	839	639	9,421
C&D Road	2	1	18	20	16	5	552	6	5	1	2	0	628
Bulky Objects/ Special Waste	28	45	80	73	102	158	112	107	22	69	37	28	861
Asbestos	0	0	0	0	0	0	0	0	0	0	0	0	0
Sludge	273	451	539	382	424	524	459	553	47	245	196	383	4,476
Litter/ Special Waste	0	0	0	0	0	0	16	7	0	0	0	0	23
Contaminated Soil/ Spec. Waste	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Non M.R.A.	841	1318	1475	1243	1425	1843	1840	1611	518	1283	1075	1051	15523
Batteries	13	0	0	0	10	0	0	12	0	0	11	0	46
Brush & Yard Commercial	2	3	13	47	72	51	34	51	53	53	86	21	486
Brush & Yard Homeowners	46	62	166	131	187	115	120	105	82	86	137	70	1307
Commingles	36	32	53	57	37	41	53	41	9	37	36	55	487
Cardboard	0	4	0	0	0	0	0	0	0	0	0	0	4
Newspaper	0	11	0	26	9	0	0	0	3	0	0	0	49
Mixed Paper	23	29	0	18	7	7	24	0	0	13	21	32	174
Tires	51	16	17	48	15	27	32	30	4	0	16	16	272
Appliances/ Scrap Metal	0	80	423	0	0	0	60	533	19	37	28	357	1537
Mulch	117	117	117	156	156	156	117	156	156	156	156	117	1677
Compost	750	750	750	1248	1249	1249	750	1248	1249	124	1248	750	12490
E-Cycling	0	0	0	0	0	0	0	0	0	0	0	0	0
Recycling Total	1038	1104	1539	1731	1742	1646	1190	2176	1575	1631	1739	1418	18529

Total Waste Landfilled (Tons) = 112,610

*Rows highlighted in blue represent the waste that was disposed within the landfill.

CECIL COUNTY DEPARTMENT OF PUBLIC WORKS
CENTRAL LANDFILL - WASTE ACCEPTANCE RECORD

2005 MATERIAL TYPE	JAN.	FEB.	MAR.	APRIL	MAY	JUN.	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTALS
Residential	1952	1874	2384	2624	2511	2151	2295	2326	2064	1329	2429	2301	26240
Commercial	4158	4140	4644	5269	4852	6017	5460	6236	5904	6346	5028	4081	62135
Industrial	0	0	0	0	2	3	26	11	7	8	8	3	68
Institutional	78	63	66	75	60	55	89	82	78	99	80	62	887
Homeowners	811	686	958	1101	887	1270	1320	1209	946	1149	1061	1052	12450
School Board	106	121	254	155	121	246	89	146	240	100	191	130	1899
Total M.R.A.	7105	6884	8306	9224	8433	9742	9279	10010	9239	9031	8797	7629	103679
LandClearing	159	281	7	45	9	12	1	27	10	8	23	4	586
C&D Bldg.	428	792	940	123	1184	946	2262	2024	717	850	944	1789	12999
C&D Road	0	0	3	14	22	940	667	2053	790	2303	3052	342	10186
Bulky Objects/ Special Waste	11	21	57	43	46	53	8	102	17	14	197	11	580
Asbestos	0	5	0	0	0	0	0	0	0	0	0	8	13
Sludge	338	386	491	590	504	454	410	353	225	460	405	272	4888
Litter/ Special Waste	4	0	0	0	10	27	148	10	728	4	186	4	1121
Contaminated Soil/ Spec. Waste	0	1	0	0	0	16	0	55	0	1	211	0	284
Total Non M.R.A.	940	1486	1498	815	1775	2448	3496	4624	2487	3640	5018	2430	30657
Batteries	0	0	0	13	0	0	8	0	9	0	0	0	30
Brush & Yard Commercial	11	109	21	73	77	29	65	194	164	234	212	121	1310
Brush & Yard Homeowners	48	15	118	45	32	345	307	204	633	176	226	76	2225
Commingles	70	33	53	30	38	51	36	42	33	41	41	48	516
Cardboard	0	0	0	0	0	0	0	0	0	0	0	0	0
Newspaper	0	0	0	4	10	1	0	2	0	0	5	9	31
Mixed Paper	3	30	17	19	21	3	18	41	29	17	33	12	243
Tires	0	61	30	29	0	50	11	15	38	13	0	40	287
Appliances/ Scrap Metal	147	0	0	0	0	371	293	0	0	0	0	260	1071
Mulch Marketed	0	0	1	2	1	1	2	1	5	3	1	0	17
Mulch	0	0	0	0	156	156	156	156	156	156	0	0	936
Compost	0	0	0	0	1248	888	888	888	888	888	0	0	5688
E-Cycling	0	0	0	0	0	0	0	16	8	0	0	0	24
Recycling Total	279	248	240	215	1583	1895	1784	1559	1963	1528	518	566	12378
Total Waste Landfilled (Tons) =													133750

*Rows highlighted in blue represent the waste that was disposed within the landfill.

CECIL COUNTY DEPARTMENT OF PUBLIC WORKS
CENTRAL LANDFILL - WASTE ACCEPTANCE RECORD

2006 MATERIAL TYPE	JAN.	FEB.	MAR.	APRIL	MAY	JUN.	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTALS
Residential	2451	1882	2128	2636	2759	2824	2153	2616	1958	2613	2352	1740	28112
Commercial	4462	3946	5027	4431	5538	5174	5863	5476	5230	4701	4445	4013	58306
Industrial	11	0	0	12	4	7	5	2	18	2	9	11	81
Institutional	31	15	35	10	26	12	33	50	74	41	19	18	364
Homeowners	985	828	1003	1083	1107	1099	1149	1119	1148	1050	1136	1178	12885
School Board	389	163	412	191	333	439	404	383	403	395	284	320	4116
Total M.R.A.	8329	6834	8605	8363	9767	9555	9607	9646	8831	8802	8245	7280	103864
LandClearing	5	22	15	1	21	7	9	3	27	1	0	0	111
C&D Bldg.	1171	750	962	1176	1195	1567	1099	933	1166	1007	1068	1232	13326
C&D Road	482	414	11005	9084	4294	4786	26	714	848	2495	1054	1872	37074
Bulky Objects/ Special Waste	35	16	50	25	45	29	6389	17	59	23	4	1	6693
Asbestos	1	0	0	0	0	0	0	0	0	0	2	0	3
Sludge	359	345	428	377	391	464	363	439	287	481	331	323	4588
Litter/ Special Waste	0	0	3	19	5	3	23	10	0	5	78	29	175
Contaminated Soil/ Spec. Waste	0	0	3	0	0	1	2	0	0	0	4	23	33
Total Non M.R.A.	2053	1547	12466	10682	5951	6857	7911	2116	2387	4012	2541	3480	62003
Batteries	10	0	0	0	15	0	0	0	10	0	0	0	35
Brush & Yard Commercial	239	172	361	248	280	274	318	316	212	132	181	330	3063
Brush & Yard Homeowners	169	131	376	315	309	261	355	347	354	274	288	116	3295
Pallets	11	6	13	10	11	61	10	9	3	1	2	8	145
Commingles	47	31	54	41	47	54	68	48	34	64.58	16.58	26.72	531.88
Cardboard	0	0	0	0	0	0	0	2	0	0	0	0	2
Newspaper	20	18	29	7	10	14	8	13	11	25.68	71.74	104.3	331.72
Mixed Paper	13	38	27	0	26	2	33	50	36	27.75	39.69	63.96	356.4
Tires	29	0	25	57	0	43	0	42	57	0	40	19	312
Appliances/ Scrap Metal	295	0	1	36	1	137	529	3	0	0	462	28	1492
Marketed Mulch	0	3	27	29	23	0	0	0	0	2	0	0	84
Mulch	5733	4446	8178	6014	0	0	1638	0	1580	2456	644	702	31391
Compost	336	260	479	0	0	0	96	27	468	0	0	172	1838
E-Cycling	0	0	0	7	0	0	6	4	4	0	6	5	32
Recycling Total	6902	5105	9570	6764	722	846	3061	861	2769	2983.01	1751.01	1574.98	42909
Total Waste Landfilled (Tons) =													165756

*Rows highlighted in blue represent the waste that was disposed within the landfill.

CECIL COUNTY DEPARTMENT OF PUBLIC WORKS
CENTRAL LANDFILL - WASTE ACCEPTANCE RECORD

2007 Incoming	Jan.	Feb.	Mar.	April	May	Jun.*	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Residential	1741.74	1290.36	1729.44	1819.38	2048.49	1962.85	1749.93	2026.48	1628.98	1757.69	1750.89	1757.65	21263.88
Commercial	3869.36	3098.71	4145.88	3599.73	3627.26	3615.87	3759.46	3836.61	3164.09	3870.83	3524.71	3308.63	43421.14
Industrial	5.49	0.53	10.33	351.17	189.85	9.41	49.26	10.83	11.13	8.88	13.74	127.95	788.57
Institutional	40.34	25.87	35.75	49.22	80.12	95.73	80.44	86.57	68.39	86.29	69.52	80.64	798.88
Homeowners	1030.75	838.36	1103.23	1126.83	1237.27	1208.83	1183.02	1128.81	1043.66	994.83	989.09	1037.19	12921.87
School Board	201.21	162.86	251.32	568.54	862.26	394.67	817.89	1965.70	646.15	325.50	398.34	214.49	6808.93
Total M.R.A.	6888.89	5416.69	7275.95	7514.87	8045.25	7287.36	7640.00	9055.00	6562.40	7044.02	6746.29	6526.55	86003.27
LandClearing	0	0.58	0.00	2.07	0.00	36.76	11.54	0.00	0.00	0.00	0.00	0.00	50.95
C&D Bldg.	1521.81	1057.45	1642.76	2180.26	4782.33	2796.29	3031.30	3010.78	2423.12	2719.79	2339.52	2032.31	29537.72
Dirt	54.43	9.00	4201.23	3897.19	2051.06	4928.10	4425.36	1962.50	1109.71	1542.70	2413.36	1116.59	27711.23
Concrete (stockpiled)	35.45	22.70	48.10	32.15	155.71	270.91	227.91	1.81	33.14	23.50	362.23	80.00	1293.61
Asphalt (stockpiled)	0	0.00	0.00	20.00	0.00	479.23	83.67	305.00	157.50	245.20	651.13	0.00	1941.73
Millings (stockpiled/road base)	60	0.00	0.00	80.00	160.00	120.00	320.00	20.00	60.00	2530.64	77.50	0.00	3428.14
Bulky Objects/ Special Waste	12.3	1.06	7.99	3.70	1.81	26.29	9.42	3.65	5.92	1.11	1.48	2.00	76.73
Asbestos	0	1.79	0.65	13.77	0.00	0.00	0.87	3.05	0.00	1.09	0.68	3.33	25.23
Sludge	427.62	268.72	418.67	372.79	785.55	995.26	391.49	334.55	292.64	320.04	350.00	1036.93	5994.26
Hazardous Waste	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.07	0.00	0.00	9.07
Litter/ Special Waste	16.56	141.35	95.95	93.10	235.37	70.60	144.61	92.07	63.00	36.81	29.90	25.04	1044.36
Contaminated Soil/ Spec. Waste	1.31	0.00	1.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.05
Total Non M.R.A.	2129.48	1502.65	6417.09	6695.03	8171.83	9723.44	8646.17	5733.41	4145.03	7429.95	6225.80	4296.20	71116.08
Batteries	10	0.00	0.00	6.93	0.00	27.30	0.00	0.00	7.93	0.00	0.00	0.00	52.16
Brush & Yard Commercial	249.41	93.72	266.83	222.88	297.05	267.38	128.16	201.92	212.72	238.51	220.23	142.83	2541.64
Brush & Yard Homeowners	134.24	51.62	275.60	417.17	427.12	392.40	358.09	231.36	258.46	224.01	243.75	179.00	3192.82
Pallets	0.5	3.01	2.50	6.01	7.50	27.50	27.50	67.50	7.50	5.00	10.00	12.50	177.02
Commingles	20.56	16.87	23.81	22.77	25.42	24.63	99.63	25.05	24.45	29.98	30.48	32.95	376.60
Newspaper	80.26	65.87	91.83	88.93	99.27	94.98	60.89	97.83	94.31	115.62	117.57	127.08	1134.44
Mixed Paper	49.21	40.39	56.12	54.52	60.86	58.04	25.83	59.98	57.63	70.66	71.85	77.66	682.75
Tires	14.9	3.80	6.29	7.98	22.90	27.69	38.90	23.79	32.42	31.36	21.52	0.00	27.79
Appliances/ Scrap Metal	0	8.21	392.34	0.00	0.00	227.86	121.77	0.00	0.00	270.91	0.00	109.64	1130.73
Mulch	13104	0.00	0.00	6715.80	9945.00	10728.00	10705.50	0.00	9128.34	8798.4	468.00	6470.10	76063.14
Compost	0	0.00	190.27	206.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	396.32
E-Cycling	6.75	10.37	6.00	6.37	18.22	13.43	7.09	3.65	7.45	8.14	13.07	6.61	107.15
Fluorescent Lamps	0	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.32	0.00	0.39	0.73
Textiles	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ink Cartridges	0.045	0.00	0.09	0.03	0.04	0.04	0.04	0.03	0.04	0.00	0.00	0.00	0.34
Nicad Batteries	0	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Alkaline Batteries	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.02
Paint	0	0.00	0.00	6.85	0.00	0.00	0.00	0.00	10.90	0.00	0.00	0.00	17.75
Propane	0	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.03
Freon	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.02
Recycling Total	13669.875	293.86	1311.68	7755.46	10903.38	11889.25	11573.40	711.11	9831.25	9792.59	1196.47	7158.76	85901.46
Total Waste Landfilled (Tons) =													122685

*Rows highlighted in blue represent the waste that was disposed within the landfill.

CECIL COUNTY DEPARTMENT OF PUBLIC WORKS
CENTRAL LANDFILL - WASTE ACCEPTANCE RECORD

2008 Incoming	Jan.	Feb.	Mar.	April	May	Jun.*	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Residential	1752.64	1480.97	1567.60	1642.49	1910.14	1811.19	2012.16	1835.66	1571.12	1189.21	1073.37	1177.17	19023.72
Commercial	3103.21	2648.80	3089.61	3315.74	3452.72	3361.50	3805.26	3960.29	4028.83	4599.60	3606.86	4050.76	43023.18
Industrial	152.84	7.51	9.58	100.71	5.66	3.43	15.92	5.31	7.18	758.68	1.14	12.17	1080.13
Institutional	69.6	79.96	87.19	53.00	67.85	62.12	73.82	53.91	57.51	73.90	76.58	76.80	832.24
Homeowners	940.96	818.54	950.36	1002.38	1080.18	1046.41	1065.09	1074.29	946.87	927.69	841.23	994.20	11688.20
Medications	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.13
Hazardous Waste (HHW)	0	0.00	0.00	7.58	0.00	0.00	0.00	0.00	0.00	9.32	0.00	0.00	9.07
School Board Trash	454.3	295.71	248.47	214.26	227.38	202.16	94.22	47.96	75.72	107.66	129.07	98.78	2195.69
Total M.R.A.	6473.55	5331.49	5952.81	6336.155	6743.93	6486.81	7066.47	6977.42	6687.23	7666.06	5728.38	6409.88	77860.19
LandClearing	0	0.00	0.94	0.00	0.00	2.26	0.00	0.00	0.00	63.63	1.78	0.00	68.61
C&D Bldg.	1934.03	1880.62	2412.86	2693.37	2481.26	2574.84	1759.01	1404.49	1824.56	2293.86	1698.87	1336.15	24293.92
Dirt	887.5	1379.83	414.52	233.81	267.61	2477.92	1100.72	2562.99	3758.96	3002.15	1938.44	1243.61	19268.06
Concrete (stockpiled)	71.46	4.16	16.74	221.74	52.01	94.00	86.83	86.39	40.89	41.72	31.41	18.29	765.64
Asphalt (stockpiled)	0	0.00	0.00	43.08	8.36	11.17	0.90	0.00	13.51	0.00	0.00	0.00	77.02
Millings (stockpiled/road base)	0	0.00	1.94	0.00	85.99	0.00	0.00	0.00	0.00	16.72	0.00	0.00	104.65
Bulky Objects/ Special Waste	45	0.00	1.70	3.85	24.02	16.18	6.01	4.06	5.73	13.92	0.00	0.00	120.47
Asbestos	0	0.06	0.79	3.85	1.15	0.69	0.00	0.00	0.08	0.00	0.82	0.01	7.45
Sludge	380	403.81	439.20	492.33	1054.08	890.24	504.83	359.19	444.79	181.88	395.14	348.65	5894.14
Litter/ Special Waste	148.91	157.05	49.58	77.33	38.18	39.40	62.04	47.93	22.88	95.06	51.05	78.62	868.03
Oil													98.04
Antifreeze													5.21
Freon	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.02
Contaminated Soil/ Spec. Waste	33.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.01
Sharps	0	0.00	0.00	0.00	0.00	0.03	0.03	0.03	0.03	0.24	0.03	0.06	0.45
Vegetable Oil	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tires	39.94	19.14	19.60	18.15	14.30	16.79	13.20	13.36	22.11	13.39	13.21	5.73	208.92
Total Non M.R.A.	3499.91	3825.53	3338.27	3769.36	4012.66	6106.70	3520.34	4465.05	6111.40	5708.96	4117.51	3025.33	51604.27
Brush & Yard Commercial	219.56	185.20	132.88	450.15	355.30	284.79	236.05	181.98	181.07	13.92	232.79	73.81	1204.41
Brush & Yard Homeowners	150.88	110.60	315.00	388.27	363.32	242.04	191.19	116.50	163.54	201.37	228.92	98.46	2570.09
Batteries	0	0.00	4.24	0.00	0.00	0.00	6.03	0.00	0.00	0.00	5.61	0.00	15.88
Pallets	15.89	32.84	12.60	13.72	26.61	21.15	9.77	6.23	5.38	7.19	5.10	4.25	160.73
Commingles	18.119	15.32	18.48	14.48	19.38	22.88	19.68	23.37	24.30	27.11	23.92	23.33	250.35
Newspaper	108.714	91.91	110.85	86.85	116.27	137.27	118.09	140.24	145.80	162.63	164.08	139.96	1522.67
Mixed Paper	54.357	45.96	55.43	43.43	58.14	68.64	59.04	70.12	72.90	81.32	71.75	69.98	751.05
Appliances/ Scrap Metal	0	0.00	195.17	5.95	8.61	133.24	84.95	0.00	154.47	0.00	36.67	0.00	619.06
Mulch	3223.35	2111.85	3779.10	4223.70	5335.20	3590.73	8307.00	6025.50	3978.00	1494.21	6660.23	5279.63	53819.42
Compost	402.52	585.00	0.00	466.11	487.22	600.41	0.00	0.00	3421.64	0.00	20.03	277.65	6260.58
E-Cycling	16.66	27.68	15.36	8.37	10.53	16.52	22.69	15.11	17.92	13.47	14.32	16.65	195.28
Fluorescent Lamps	0.21	0.17	0.32	0.50	0.41	0.39	0.33	0.44	0.53	1.03	0.40	0.96	5.68
Textiles	0	0.00	0.00	4.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.61	10.42
Ink Cartridges	0.114	0.00	0.00	0.15	0.04	0.05	0.00	0.40	0.10	0.10	0.10	0.10	1.15
Mixed Batteries	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.03
Paint	0	0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00	19.50	0.00	0.00	39.50
Propane	0	0.00	0.00	0.82	0.00	0.00	0.00	0.00	0.00	1.15	0.00	0.00	1.97
Recycling Total	3839.93	2910.73	4191.54	4888.88	6062.41	4591.28	8627.58	6281.41	7821.04	2001.21	7002.21	5990.39	63653.78

Total Waste Landfilled (Tons) = 109060

*Rows highlighted in blue represent the waste that was disposed within the landfill.

CECIL COUNTY DEPARTMENT OF PUBLIC WORKS
CENTRAL LANDFILL - WASTE ACCEPTANCE RECORD

2009 Incoming	Jan.	Feb.	Mar.	April	May	Jun.*	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Residential	1192.99	803.72	527.15	1378.05	2592.53	2728.12	2726.85	2543.25	2528.89	2223.69	2556.26	2749.13	22021.74
Commercial	3283.65	3697.68	4895.22	4441.65	3883.37	4040.37	4262.49	3772.40	3907.12	4064.17	4184.87	3391.28	47824.27
Industrial	1.19	0.00	7.43	1.01	28.77	3.60	11.40	0.29	0.00	0.00	1.86	0.00	55.55
Institutional	65.11	60.93	67.61	67.01	73.55	76.39	81.35	68.51	60.96	60.48	67.51	72.86	822.27
Homeowners	853.54	809.24	729.07	1013.37	1081.97	1045.66	1097.91	1063.18	968.16	967.66	900.03	962.00	11491.79
Medications	0	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.10
Hazardous Waste (HHW)	0	0.00	0.00	74.84	0.00	0.00	0.00	0.00	0.00	21.24	0.00	0.00	96.08
School Board Trash	232.69	73.44	59.13	119.62	111.73	113.45	102.85	162.27	104.84	117.22	93.61	79.49	1370.34
Total M.R.A.	5629.17	5445.01	6285.61	7095.6	7771.92	8007.59	8282.85	7609.9	5041.08	7454.51	7804.14	7254.76	83682.14
LandClearing	0	0.00	0.00	28.73	28.50	2.03	9.91	49.78	0.00	0.00	0.11	21.43	140.49
C&D Bldg.	1030.05	797.24	864.88	988.05	533.73	945.91	1993.60	769.64	763.89	832.99	707.26	691.00	10918.24
Dirt	740.21	236.50	1178.6	6177.74	3434.80	778.04	1215.05	810.44	104.62	90.32	203.49	200.63	15170.44
Concrete (stockpiled)	30.49	40.44	55.91	124.79	2.84	57.82	1.84	0.77	20.93	9.14	19.76	0.00	364.73
Asphalt (stockpiled)	0	0.00	0.00	3.66	3.35	27.69	0.00	0.00	0.00	0.00	11.17	0.00	45.87
Millings (stockpiled/road base)	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bulky Objects/ Special Waste	8.55	3.10	0.00	13.02	15.53	11.23	18.60	4.45	8.09	37.91	0.45	1.12	122.05
Asbestos	0	0.00	0.00	0.00	0.00	1.12	0.00	0.00	1.46	0.43	0.00	0.00	3.01
Sludge	471.81	619.09	328.11	706.18	697.84	385.89	416.31	305.50	224.76	403.35	400.63	261.06	5220.53
Litter/ Special Waste	22.27	62.22	46.92	76.97	6.82	39.66	54.32	129.00	56.83	64.07	7.31	2.24	568.63
Central Landfill Oil	3.76	2.80	4.03	6.30	7.70	2.92	4.81	4.44	6.35	4.55	4.20	3.06	54.93
Central Landfill Antifreeze	0.00	0.00	0.00	0.00	2.21	0.00	0.98	0.00	0.00	0.00	2.45	0.00	5.64
Freon	0	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.11
Contaminated Soil/ Spec. Waste	0	5.27	0.00	0.00	3.30	0.00	0.00	0.00	49.64	0.00	0.00	0.00	58.21
Sharps	0.03	0.03	0.30	0.40	0.03	0.12	0.03	0.03	0.03	0.05	0.03	0.03	1.11
Vegetable Oil	0.0875	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.06	0.08	0.66	0.06	1.36
Tires	6.25	20.26	15.81	18.84	16.70	18.45	22.36	9.39	15.72	17.61	27.43	9.77	198.59
Latex Paint Solidified	0	0.00	0.00	0.00	2.24	2.96	3.14	1.93	3.28	6.31	4.23	0.00	24.09
Total Non M.R.A.	2307.14	1766.66	2478.45	8125.48	4736.62	2252.31	3715.42	2074.02	1236.57	1442.83	1356.83	1180.57	32672.90
Brush & Yard Commercial	118.4	130.11	125.63	176.29	198.34	189.91	108.16	144.91	181.79	108.78	222.90	80.38	1785.60
Brush & Yard Homeowners	88.67	120.74	192.60	347.53	286.52	302.86	150.45	242.21	274.70	252.75	240.91	129.64	2629.58
Lead Acid Batteries	0	0.00	0.00	0.00	10.56	0.00	5.39	0.00	8.11	0.00	0.00	0.00	24.06
Pallets	4.45	0.08	8.41	12.70	9.25	11.03	8.61	3.25	10.99	3.78	4.08	5.55	82.18
Commingles	27.226	26.11	24.18	25.82	27.32	33.03	30.06	32.21	32.83	30.57	29.53	33.34	352.20
Newspaper	163.356	156.64	145.05	154.91	163.91	198.18	180.34	193.24	196.96	183.39	196.90	200.01	2132.88
Mixed Paper	81.678	78.32	72.53	77.45	81.96	99.09	90.17	96.62	98.48	91.70	98.45	100.01	1066.44
Appliances/ Scrap Metal	0	0.00	103.79	0.00	0.00	239.26	36.44	0.00	0.00	216.37	32.82	0.00	628.68
Mulch	4355.75	1396.50	3059.00	1596.00	4089.75	6548.85	4469.85	3675.00	6230.00	2182.95	4365.90	1163.75	43133.30
Compost	0	9.10	44.38	12.40	0.00	65.24	236.23	486.91	178.59	0.00	0.00	0.00	1032.85
E-Cycling	10.38	22.22	17.29	12.62	9.82	24.55	13.47	15.98	16.90	17.21	10.76	18.04	189.24
Fluorescent Lamps	0.13	0.36	0.54	0.15	0.33	0.50	0.33	0.48	0.43	0.36	0.38	0.29	4.28
Textiles	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.28	0.00	0.00	0.00	8.28
Ink Cartridges	0	0.05	0.06	0.09	0.25	0.15	0.30	0.25	0.30	0.20	0.30	0.30	2.25
Rechargeable Batteries	0	0.10	0.06	0.16	0.10	0.08	0.06	0.06	0.08	0.10	0.10	0.10	1.00
Recycled Paint	0	0.00	0.00	17.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.40
Cork	0.0025	0.0025	0.00	0.00	0.0025	0.00	0.0001	0.00	0.00	0.00	0.0001	0.00	0.01
Propane	0	0.00	0.00	0.46	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.86
Vinyl Siding	0	0.00	2.40	0.00	2.76	2.54	3.07	0.00	4.07	3.03	2.23	0.00	20.10
Tire Amnesty - Recycled Tires Tire	0	0.00	0.00	0.00	52.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	52.60
Recycling Total	4642.97	1689.47	3477.68	1910.16	4448.61	7222.50	5074.31	4504.00	6781.95	3087.49	4739.22	1731.30	49309.66

Total Waste Landfilled (Tons) = 100477

*Rows highlighted in blue represent the waste that was disposed within the landfill.

CECIL COUNTY DEPARTMENT OF PUBLIC WORKS
CENTRAL LANDFILL - WASTE ACCEPTANCE RECORD

2010 Incoming	Jan.	Feb.	Mar.	April	May	Jun.*	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Residential	2296.91	1743.98	2885.73	3033.58	2780.54	3036.06	2812.75	2694.79	2413.45	2259.91	2303.17	2348.47	30609.34
Commercial	2672.48	1848.19	3439.33	3691.61	3234.44	3677.00	3569.59	3772.71	3392.46	3228.62	2960.45	2776.86	38263.74
Industrial	0.28	5.06	16.11	19.66	14.13	1.15	3.52	4.94	0.00	0.00	0.00	0.00	64.85
Institutional	61.05	55.86	85.40	87.96	56.36	76.84	85.55	63.14	61.47	64.82	49.00	57.38	804.83
Homeowners	953.25	615.99	892.41	985.90	924.93	834.02	986.37	590.38	501.24	546.71	525.58	535.17	8891.95
Medications	0	0.00	0.00	0.08	0	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.18
Hazardous Waste (HHW)	0	0.00	0.00	26.24	0	0.00	0.00	0.00	0.00	32.64	0.00	0.00	58.88
School Board Trash	133.82	278.74	390.15	643.60	193.48	172.40	54.63	214.57	119.45	139.99	119.17	74.45	2534.45
Latex Paint Solidified	5	0.76	8.53	10.63	5	4.43	3.07	5.48	6.09	11.70	6.24	4.24	71.17
Total M.R.A.	6122.79	4548.58	7717.66	8499.256	7208.88	7801.9	7515.48	7346.01	6494.16	6284.49	5963.61	5796.57	81299.3855
LandClearing	14.57	0.00	7.75	0.49	5.43	25.13	92.06	2.85	0.00	0.00	0.00	12.03	160.31
C&D Bldg.	938.28	767.74	1412.16	1752.23	1661.51	2062.07	1526.51	1122.85	847.14	945.95	928.30	733.43	14698.17
Dirt	63.86	43.35	4.04	95.05	64.97	382.74	814.57	323.95	272.49	998.59	925.24	324.41	4313.26
Concrete (stockpiled)	0	0.00	1.16	30.74	37.31	15.57	82.27	96.68	61.04	55.82	48.11	88.92	517.62
Asphalt (stockpiled)	0	0.00	0.00	0.00	0	0.00	1321.85	2.95	7.01	38.83	7.15	32.46	1410.25
Bulky Objects/ Special Waste	0	0.00	11.64	15.55	104.57	11.87	39.17	13.88	28.11	82.63	16.54	1.00	324.96
Asbestos	0.1	0.00	0.00	0.46	0	0.00	0.00	0.00	1.07	0.00	0.00	0.00	1.63
Sludge	340.75	220.59	673.88	512.48	429.43	449.86	309.40	288.72	459.63	412.63	296.16	247.40	4640.93
Litter/ Special Waste	2.9	23.43	50.66	46.57	24.88	4.86	17.67	8.51	8.30	15.44	0.26	0.11	203.59
Oil - LF Only	3.15	0.79	6.30	7.35	5.6	4.90	4.90	8.24	4.9	4.9	6.3	4.9	62.23
Antifreeze - LF Only	0.00	0.00	0.00	0.00	2.21	0.00	0.00	1.96	0.00	0.00	0.00	0.00	4.17
Freon	0	0.00	0.00	0.02	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
Contaminated Soil/ Spec. Waste	0	0.00	0.00	0.11	0	0.00	0.00	0.00	1889.30	0.00	2.70	0.43	1892.54
Sharps	0.03	0.00	0.06	0.00	0.06	0.03	0.00	0.09	0.02	0.02	0.06	0.06	0.43
Vegetable Oil	0	0.00	0.39	0.57	0.01	0.01	0.01	0.39	0.01	0.01	0.01	0.03	1.44
Tires	9.06	6.21	14.42	27.85	38.76	29.48	25.21	15.43	27.22	20.43	79.74	61.27	355.08
Propane- NON MRA Recyclable	0	0.24	0.26	0.36	0.00	0.00	0.00	0.00	0.00	1.31	0.00	0.00	2.17
Total Non M.R.A.	1372.70	1062.35	2182.72	2489.83	2374.74	2986.52	4233.62	1886.50	3606.24	2576.56	2310.57	1506.45	28588.79
Lead Acid Batteries	0	0.00	10.09	0.00	0	0.00	0.00	6.38	0.00	0.00	0.00	0.00	16.47
Pallets	5.14	9.86	5.00	15.65	27.67	30.43	16.50	6.28	8.00	11.21	5.81	6.63	148.18
Single Stream (CLF)	290.27	220.37	334.15	365.86	335.63	391.10	401.26	359.26	350.74	342.26	355.45	378.58	4124.93
Single Stream (WL&SR) to plant direct	67.52	58.25	70.71	49.42	30.44	43.10	0.00	0.00	0.00	0.00	0.00	0.00	319.44
Appliances/ Scrap Metal	0	19.99	157.24	0.00	50.86	105.12	0.00	0.00	190.33	0.00	0.00	111.75	635.29
Mulch	0	1629.25	5187.00	7215.25	3258.5	7165.62	9702.00	2695.00	0.00	9702	358.39	221.26	47134.27
Compost	0	0.00	133.71	2.43	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	136.14
E-Cycling	20.58	7.41	17.34	15.76	17.95	12.59	25.25	12.85	15.61	16.87	16.84	13.18	192.23
Fluorescent Lamps (CLF)	0.24	0.95	0.18	0.30	0.17	0.21	0.56	0.51	0.50	0.95	0.50	0.30	5.37
Fluorescent Lamps (WL&SR)	0.17	0.00	0.00	0.34	0	0.44	0.00	0.56	0.40	0.30	0.25	0.10	2.56
Textiles	0	0.00	0.00	6.56	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.56
Ink Cartridges	0.1	0.004	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.02	0.02	0.23
Rechargeable Batteries	0.12	0.00	0.04	0.15	0.1	0.15	0.04	0.05	0.20	0.20	0.00	0.20	1.25
Cork	0.00125	0.0010	0.002	0.00	0.001	0.0001	0.0010	0.0010	0.00	0.00	0.00	0.002	0.01
Vinyl Siding	0	0.00	0.00	0.00	4.02	1.95	2.65	3.50	0.06	0.09	2.02	0.00	14.29
Eyewear	0.001	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Recycling Total	384.14	1946.08	5915.48	7671.73	3725.35	7750.73	10148.27	3084.40	565.85	10072.34	739.28	732.02	52737.23
Recycling Rate	5.90%	29.96%	43.39%	47.44%	34.07%	49.84%	57.45%	29.57%	8.01%	61.58%	11.03%	11.21%	39.35%
TOTAL WASTE for SWReport	7813.60	7498.76	15745.14	18611.05	13278.53	18495.61	21897.37	12316.35	10665.85	18933.09	9013.21	8034.94	162303.51
SSR COMPACTION AVERAGES/ \$ SAVINGS LANDFILL													
*BKHQ DOWN 4 DAYS ***our bhee													
Tons of Single Stream shipped from LF	290.27	220.37	334.15	365.86	335.63	391.1	401.26	352.77	350.74	342.26	355.45	378.58	4118.44
# Loads pulled by Bestrans from landfill	31	22	35	37	36	43	42	37	35	31	35	39	423
Average tons per trailer	9.4	10.0	9.5	9.9	9.3	9.1	9.6	9.5	10.0	11	10	10	9.7

Cell Tire Formula: (Tons*2000)/100 lbs (	Jan.	Feb.	Mar.	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	Total
Tire Handling Fee \$25/each	19	32	38	30	99	115	72	54	77	90	107	84	817
Cell Tires (per tire)	137	29	76.8	74	76	79	56	49	61	63	48	38	785.8
# Loads Charged mixed tires &ref	2	0	0	2	1	0	0	0	1	0	0	0	6
% Tires Charged in Cell	14%	110%	49%	41%	130%	146%	129%	111%	126%	144%	223%	223%	104%

Total Waste Landfilled (Tons) = 88393.12

*Rows highlighted in blue represent the waste that was disposed within the landfill.

CECIL COUNTY DEPARTMENT OF PUBLIC WORKS
CENTRAL LANDFILL - WASTE ACCEPTANCE RECORD

2011 Incoming	Jan.	Feb.	Mar.	April	May	Jun.*	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Residential	2015.21	1881.43	2520.90	2518.55	2654.47	2753.14	2338.41	2999.99	2693.50	2471.72	2646.22	2336.88	29830.42
Commercial	2407.32	2232.26	2898.91	2745.37	2840.86	3334.72	3045.74	2993.09	2557.84	2349.27	2196.59	2158.58	31760.55
Industrial	0.18	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18
Institutional	51.44	51.70	62.69	55.59	61.14	46.82	40.31	70.70	51.97	57.40	63.22	52.10	665.08
Homeowners	300.06	468.40	531.47	526.73	846.18	603.94	589.32	566.73	526.50	479.46	513.05	538.90	6490.74
Medications	0	0.00	0.00	0.18	0	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.43
Hazardous Waste (HHW)	0	0.00	0.00	39.04	0	0.00	0.00	0.00	0.00	28.57	0.00	0.00	67.61
School Board Trash	69.2	98.71	91.03	59.01	38.68	52.89	0.00	22.65	55.01	63.32	69.21	55.06	674.77
Latex Paint Solidified/Disposed	2.7	1.50	0.88	12.60	2.7875	3.08	0.58	0.55	0.02	0.75	0.25	0.10	25.79
Total M.R.A.	4846.111	4734.00	6105.88	5957.068	6444.1175	6794.585	6014.355	6653.71	5884.84	5450.739	5488.54	5141.62	69515.57
LandClearing	1.87	20.38	25.57	0.00	0	0.11	0.00	60.15	54.48	0.00	30.21	0.00	192.77
C&D Bldg.	523.89	474.61	903.62	1063.08	1034.85	1137.55	906.73	1196.44	2238.63	1878.99	1261.54	904.81	13524.74
Dirt	109.83	59.23	515.64	674.90	423.23	323.12	1517.98	780.50	559.14	1087.57	507.81	689.58	7248.53
Concrete (stockpiled)	19.08	25.35	7.95	13.68	61.39	161.29	51.15	33.76	18.81	24.43	36.62	53.25	506.76
Asphalt (stockpiled)	0	5.02	0.00	14.66	22.85	23.58	595.78	23.58	9.25	43.09	107.77	743.30	1588.88
Bulky Objects/ Special Waste	0	2.87	3.96	3.74	40.26	40.80	35.98	2.80	66.28	5.17	4.86	1.96	208.68
Asbestos	0	0.13	0.00	0.00	0	0.00	0.18	2.90	0.00	0.43	0.56	0.00	4.20
Sludge	226.72	147.17	272.44	251.55	274.71	601.36	397.12	381.85	280.65	407.65	189.75	149.45	3580.42
Litter/ Special Waste	0.41	0.08	1.12	9.57	5.87	0.52	0.15	11.30	9.82	4.03	2.89	2.93	48.69
Oil - LF Only	1.81	1.47	8.14	4.01	6.27	3.62	5.16	3.15	3.50	3.15	5.25	1.9	47.39
Antifreeze - LF Only	0.00	0.00	2.45	0.00	0.00	2.45	0.00	0.00	0.00	0.00	0.00	0.00	4.90
Freon	0	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.03
Contaminated Soil/ Spec. Waste	0	0.00	0.00	2.31	0	4.13	0.23	0.00	0.00	3.84	0.00	0.23	10.74
Sharps	0.06	0.06	0.06	0.20	0.1	0.10	0.00	0.10	0.10	0.20	0.10	0.10	1.18
Vegetable Oil	0	0.00	0.00	0.57	0.15	0.20	0.15	0.20	0.15	0.20	0.40	0.10	2.12
Tires	8.97	4.67	25.00	41.49	38.92	27.29	35.97	8.29	9.03	11.52	12.73	9.08	232.96
Propane Tanks	0	0.00	0.00	0.60	0.00	0.00	0.00	4.37	0.00	1.80	0.00	0.00	6.77
Total Non M.R.A.	892.64	741.04	1765.95	2080.36	1908.61	2326.13	3546.58	2509.39	3249.84	3472.07	2160.49	2556.66	27209.76
Lead Acid Batteries	0	0.00	9.02	0.00	0	0.00	0.00	8.09	0.00	0.00	0.00	5.86	22.97
Pallets	7.59	5.38	4.93	17.58	16.72	3.30	12.67	12.99	5.69	9.82	1.60	3.57	101.84
Single Stream All Facilities leaving	344.71	371.56	515.53	451.68	455.65	533.30	497.70	523.22	539.70	474.16	465.98	437.69	5610.88
Appliances/ Scrap Metal	0	0.00	74.63	0.00	0	189.57	0.00	0.00	72.00	26.09	0.00	91.88	454.17
Mulch	0	0.00	2227.75	3145.45	1392.08	4019.40	3465.00	2520.00	1680.00	0	2668.05	365.75	21483.48
Compost	0	0.00	0.00	15.52	62.08	60.00	0.00	120.00	100.00	60.00	100.00	60.00	577.60
E-Cycling	11.33	4.70	18.51	11.47	10.71	17.83	13.47	26.34	8.73	26.68	19.79	11.20	180.76
Fluorescent Lamps (CLF)	0.10	0.50	0.30	0.46	0.00	0.54	0.00	0.00	0.57	0.44	0.32	0.39	3.62
Fluorescent Lamps (WL&SR)	0.00	0.10	0.10	0.10	0	0.10	0.00	0.00	0.13	0.00	0.00	0.11	0.64
Textiles	0	0.00	7.81	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.81
Ink Cartridges	0.01	0.010	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.04	0.02	0.02	0.23
Rechargeable Batteries	0.02	0.02	0.04	0.05	0	0.04	0.02	0.01	0.03	0.02	0.04	0.02	0.31
Cork	0	0.0000	0.0001	0.0001	0.0001	0.00	0.0001	0.00000	0.000100	0.00010	0.00	0.000	0.001
Vinyl Siding	0	0.00	3.59	0.00	3.39	3.04	0.00	3.52	0.00	0.00	0.00	3.76	17.30
Eyewear	0	0.00	0.00	0.00	0.0001	0.00	0.00	0.00	0.00	0.00	0.0001	0.00	0.00
Mercury Thermostats	0	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03
Propane Gas	0	0.00	0.00	0.00	0	0.00	0.00	4.37	0.00	0.00	0.00	0.00	4.37
Latex Paint Recycled	0	0.00	0.00	0.00	1.125	1.625	0.75	1.00	1.52	4.00	4.38	2.60	17.00
Household Batteries	0	0.00	0.00	0.00	0	0.000	0.00	0.00	0.25	0.50	0.50	0.00	1.25
Braziers	0	0.00	0.00	0.00	0	0.000	0.00	0.00	0.00	0.02	0.01	0.02	0.05
Used Oil Filters	0	0.00	0.00	0.00	0	0.100	0.00	0.20	0.00	0.00	0.20	0.00	0.50
Recycling Total	363.76	382.27	2862.23	3642.32	1941.78	4828.87	3989.63	3219.56	2408.64	601.75	3260.68	982.90	28484.81
Recycling Rate	6.98%	7.47%	31.92%	37.94%	23.16%	41.54%	39.88%	32.61%	29.04%	9.94%	37.27%	16.05%	29.07%
For SW Tonnage report	6102.51	5857.21	10733.96	11679.65	10294.50	13949.48	13550.56	12382.86	11543.19	9524.58	10909.92	8681.07	125209.50
SSR COMPACTION AVERAGES/ \$ SAVINGS LANDFILL													
Tons of Single Stream shipped f	344.71	371.56	515.53	451.68	455.65	533.3	497.7	523.22	539.7	474.16	465.98	437.69	5610.88
# Loads pulled by Bestrans from	31	34	43	38	42	50	47	44	42	37	39	38	485
Average tons per trailer	11.1	10.9	12.0	11.9	10.8	10.7	10.6	11.9	12.9	13	12	12	11.6

Cell Tire Formula: (Tons*2000)/¢	Jan.	Feb.	Mar.	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	Total
Tire Handling Fee \$25/each	67	36	117	143	124	110	73	97	69	78	66	45	1025
Cell Tires (per tire)	65	10	154	49	82	82	93	99	122	116	89		961
# Loads Charged mixed tires &re	0	0	0	0	0	0	0	0	0	0	0	0	0
% Tires Charged in Cell	103%	360%	76%	292%	151%	134%	79%	98%	57%	67%	74%	#DIV/0!	107%

Note: decreased lb. per cell tire from 100 to 60 lb. each

*Rows highlighted in blue represent the waste that was disposed within the landfill.

Total Waste Landfilled (Tons) = 87017.77

ANNUAL 2012 LANDFILL TONNAGES																Calendar Year 2012
MRA WASTE		SWM METHOD	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	TOTAL	
	1001 IN - Residential	Landfill	2395.94	2089.57	2371.09	2379.83	2540.45	2547.13	2616.20	2724.09	2356.73	2326.88	2363.60	2339.99	29251.50	29251.50
	1002 IN - Commercial	Landfill	1914.93	1778.68	2185.87	2111.60	2517.24	2465.39	2626.74	2688.89	2207.47	2219.22	2316.83	1975.09	27007.95	27007.95
	1003 IN - Industrial	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	1004 IN - Institutional	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	1016 IN - School Board MSW	Landfill	78.07	65.69	85.46	81.15	108.05	134.97	50.22	95.95	118.48	88.66	73.44	75.44	1055.58	1055.58
HOMEOWNER	5002 Homeowner \$4 Trash & SSR	Landfill	192.20	182.50	209.20	199.90	215.90	235.60	225.90	221.10	202.40	193.70	202.00	222.30	2502.70	2502.70
	5003 Homeowner \$10 Trash	Landfill	124.50	128.50	185.60	165.80	175.00	185.20	156.90	166.40	158.10	141.80	148.70	148.20	1884.70	1884.70
	1021 IN - Woodlawn Refuse	Landfill	65.36	111.06	95.27	81.00	109.63	104.36	81.96	126.26	90.90	100.78	114.06	86.16	1166.80	1166.80
	1024 IN - Stemmers Refuse	Landfill	28.65	20.10	37.97	28.60	30.20	29.58	31.46	39.28	19.41	33.20	37.70	19.53	355.68	355.68
	1148 IN - Latex Paint Residual Waste	Landfill	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	2.00	0.00	1.00	0.00	5.00	5.00
	1131 OUT - Household Hazardous Was	Landfill	0.00	0.00	0.00	33.25	0.00	0.00	0.00	0.00	0.00	46.59	0.00	0.00	79.84	79.84
MEDICAL WASTE	1135 OUT - Medications	WTE	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.28	
	1128 OUT - Sharps	Biomedical Incinerator	0.14	0.00	0.00	0.08	0.08	0.04	0.02	0.10	0.10	0.20	0.00	0.01	0.77	
NON MRA WASTE		SWM METHOD	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	63310.80	
C&D	1005 IN - Landclearing	Mulched	5.50	5.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.14	11.14
	1006 IN - Demolition	Landfill	0.00	24.78	328.54	33.72	33.46	57.82	16.24	2.48	10.84	0.00	0.00	0.00	507.88	507.88
	1007 IN - Construction	Landfill	758.69	703.11	1148.38	1155.77	1054.39	1054.40	1241.37	1353.89	1462.74	1272.24	1138.30	879.14	13222.42	13222.42
	1008 IN - Dirt / Soil	Stockpiled/Reuse	630.20	374.55	1438.00	202.00	330.41	381.32	273.47	436.78	320.56	522.91	104.33	453.29	5467.82	
	1050 IN - Asphalt & 1087 Millings	Stockpiled/Reuse	5.51	0.00	29.93	90.17	47.09	12.61	0.00	26.43	1.03	1460.78	9.73	14.86	1698.14	
	1051 IN - Concrete	Stockpiled/Reuse	24.68	50.17	296.30	72.74	38.15	16.63	10.79	3.90	27.15	240.63	11.42	63.89	856.45	
LITTER / SPECIAL WASTE	1019 IN - Litter	Landfill	10.02	1.07	4.69	6.55	0.16	0.85	0.00	2.58	0.00	0.47	0.41	0.46	27.26	27.26
	1026 IN - Dead Animals	Landfill	0.07	0.68	0.00	0.13	0.07	0.00	0.07	1.14	0.22	0.67	0.70	5.28	9.03	9.03
	1060 IN - 1/2 Waiver	Landfill	0.00	0.00	0.00	2.90	19.61	22.08	0.00	0.00	0.00	0.00	0.00	0.00	44.59	44.59
	1082 IN - Full Waiver	Landfill	3.50	0.77	0.76	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.43	7.43
	1112 IN - Adopt a Road Litter	Landfill	0.00	0.00	0.10	0.10	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.60	0.60
	1142 IN - Street Sweepings	Landfill	0.00	0.00	0.00	0.00	14.89	8.23	14.68	9.27	17.46	82.36	25.36	22.29	194.54	194.54
BULKY OBJECTS / SPECIAL WASTE	1012 IN - Treatment Plant Sludge	Landfill	375.46	360.70	572.89	508.99	380.44	433.78	344.59	413.47	378.57	366.01	283.80	264.48	4683.18	4683.18
	1055 IN - Boat	Landfill	7.09	0.92	2.04	1.59	2.99	1.32	7.39	0.00	1.00	7.62	0.00	1.53	33.49	33.49
	1059 IN - Mobile Home / 1143 IN - Car	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.79	17.46	23.21	15.03	8.83	68.32	68.32
	1014 IN - Asbestos	Landfill	0.00	0.00	0.00	0.10	0.84	1.91	0.00	0.65	1.00	0.52	0.00	0.07	5.09	5.09
CONTAMINATED SOLID WASTE	1020 IN - Contaminated Soil	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	2.64	0.00	0.00	0.00	10.67	0.00	13.31	13.31
	1061 IN - Stall Waste	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	1052 OUT - Tires	WTE	23.52	25.81	16.41	13.38	15.50	6.68	5.56	21.66	9.76	18.35	13.78	8.38	178.79	
NON MRA RECYCLABLES		SWM METHOD	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	27029.48	82138.03
	1119 OUT - Motor Oil	Recycle	2.38	2.00	2.50	9.80	2.69	2.50	4.14	7.83	8.97	7.01	4.90	5.60	60.32	
	1136 OUT - Antifreeze	Recycle	0.00	0.00	1.49	0.00	0.00	0.00	0.00	1.87	0.00	0.00	0.00	0.00	3.36	
	1137 OUT - Refrigerant (Freon)	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.01	
	1127 OUT - Vegetable Oil	Recycle	2.01	0.00	0.00	0.00	0.09	0.00	0.01	0.12	0.01	0.17	0.08	0.33	2.82	
	1111 OUT - Propane	Recycle	0.00	0.00	0.00	0.00	0.00	4.85	0.00	0.00	0.00	0.00	0.00	0.00	4.85	
	1009 IN - Stumps & Logs	Recycle	0.00	0.00	31.73	127.06	8.56	47.87	28.58	32.98	16.80	6.43	28.14	23.60	351.75	
MRA RECYCLABLES		SWM METHOD	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	423.11	
MIXED YARD WASTE	1138 - Processed Mulch	Recycle	285.00	498.75	142.50	450.00	570.00	247.50	2598.75	1312.50	0.00	1039.50	222.75	498.75	7866.00	
	1046 IN - Compost	Recycle	0.00	2.18	2.18	2.10	22.35	79.75	0.00	1808.77	0.00	470.63	275.10	2838.00	5501.06	
	1096 IN - Pallets	Recycle	0.00	0.50	1.40	2.61	5.16	3.81	2.59	7.07	2.16	0.37	0.75	0.00	26.42	
	1025 IN - Sod	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	1097 OUT - Single Stream Recycling Item	Recycle	469.88	355.44	421.21	367.02	384.70	452.21	392.80	438.09	382.39	407.85	468.63	362.38	4902.60	
	OUT - Shredded Paper	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.42	0.00	3.42	
BATTERIES	1053 OUT - Lead Acid Batteries	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.81	0.00	0.00	3.30	0.67	12.78	
	1120 OUT - Household Batteries	Recycle	2.48	0.00	0.00	0.00	0.72	0.00	0.00	1.80	0.00	0.00	0.45	0.00	5.45	
	1121 OUT - Rechargeable Batteries	Recycle	0.08	0.00	0.12	0.08	0.08	0.06	0.05	0.15	0.00	0.08	0.06	0.06	0.82	
	1117 OUT - Textiles	Recycle	9.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.93	0.00	0.00	16.20	
METALS	1044 OUT - Scrap Metal / Appliances	Recycle	6.74	0.00	32.50	56.13	31.62	0.00	47.42	53.15	22.79	15.24	0.00	0.00	265.59	
	1116 OUT - Metal Tire Rims #1 Steel	Recycle	9.39	0.00	8.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.49	0.00	19.85	
	1130 OUT - Oil Filters	Recycle	0.00	0.15	0.00	0.00	0.10	0.10	0.00	0.15	0.15	0.00	0.00	0.00	0.65	
	1124 OUT - Mercury Thermostats	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.02	
	1126 OUT - Corks	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	
E-WASTE	1088 OUT - Electronics	Recycle	11.41	33.89	11.98	37.54	10.54	22.95	20.20	23.30	9.68	32.91	21.93	12.38	248.71	
	1139 OUT - Printer Cartridges	Recycle	0.04	0.00	0.05	0.05	0.06	0.02	0.03	0.01	0.02	0.01	0.01	0.02	0.32	
	1101 OUT - Vinyl Siding	Recycle	0.00	0.00	4.54	0.00	3.54	0.00	1.90	2.79	0.00	2.91	0.00	0.00	15.68	
TIRES	1052 OUT - Tires (Recycled)	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	3.00	
	1098 OUT - Citizen Scrap Tires (Recycled)	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	1125 OUT - Eyewear	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0003	
	1123 OUT - Latex Paint (Recycled)	Recycle	2.01	2.00	2.00	2.00	2.01	2.00	2.00	2.01	2.00	2.01	1.98	2.00	24.02	
	1118 OUT - Fluorescent Lamps	Recycle	0.48	0.08	0.43	0.55	0.00	0.52	0.50	0.19	0.33	0.37	0.28	0.30	4.03	
	1123 OUT - Bra Recycling	Recycle	0.03	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.06	
	1132 OUT - Polystyrene	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.14	0.15	
Total Solid Waste Accept per Mo			7445.23	6819.29	9672.10	8226.84	8676.77	8566.04	10805.17	12042.71	7848.70	11139.38	8104.55	10333.45		

ANNUAL 2013 LANDFILL TONNAGES																Calendar Year 2013	
MRA WASTE		SWM METHOD	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	TOTAL		
HOMEOWNER	1001 IN - Residential	Landfill	2307.43	1850.03	2109.66	2674.11	2560.47	2451.62	2817.44	2572.83	2412.55	2386.61	2170.65	2485.70	28799.10	28799.10	
	1002 IN - Commercial	Landfill	2046.24	1812.00	1993.28	2179.33	2583.22	2247.18	2610.56	2528.88	2099.29	2010.31	1901.88	2049.63	26061.80	26061.80	
	1003 IN - Industrial	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	1004 IN - Institutional	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	1016 IN - School Board MSW	Landfill	80.41	78.66	83.50	98.32	57.17	104.96	0.27	12.37	93.16	159.06	176.94	102.10	1046.92	1046.92	
	5002 Homeowner \$5 Trash & SSR	Landfill	186.20	164.10	189.20	189.20	201.60	210.30	212.00	215.91	177.91	177.10	184.00	192.51	2300.03	2300.03	
	5003 Homeowner \$10 Trash / \$11 (7/1/13)	Landfill	128.00	113.70	159.10	171.40	174.60	179.00	162.50	162.90	118.70	134.61	138.50	121.30	1764.31	1764.31	
	1021 IN - Woodlawn Refuse	Landfill	125.24	79.64	95.81	99.59	108.53	103.26	99.88	107.20	77.18	94.82	100.40	77.20	1168.75	1168.75	
	1024 IN - Stemmers Refuse	Landfill	31.77	30.91	15.22	29.13	36.71	31.25	41.57	25.94	17.88	37.24	23.13	31.29	352.04	352.04	
	1148 IN - Latex Paint Residual Waste	Landfill	0.50	0.25	0.20	0.19	0.22	0.10	0.10	0.10	0.11	0.22	0.00	0.00	1.99	1.99	
MEDICAL WASTE	1131 OUT - Household Hazardous Waste	Landfill	0.00	0.00	0.00	27.78	0.00	0.00	0.00	0.00	0.00	25.00	0.00	0.00	52.78	52.78	
	1135 OUT - Medications	WTE	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.50		
	1128 OUT - Sharps	Biomedical Incinerator	0.10	0.10	0.10	0.10	0.10	0.00	0.16	0.10	0.00	0.16	0.16	0.12	1.20		
	NON MRA WASTE		SWM METHOD	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	TOTAL	
C&D	1005 IN - Landclearing	Mulched	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	41549.42	
	1006 IN - Demolition	Landfill	55.13	61.74	35.82	45.18	5.71	2.76	0.00	0.00	0.00	17.00	1.49	0.00	224.83	224.83	
	1007 IN - Construction	Landfill	990.29	693.80	1125.06	1489.76	1840.19	1512.34	1714.56	2072.27	2011.04	1830.48	1459.22	11569.47	28308.48	28308.48	
	1008 IN - Dirt / Soil	Stockpiled/Reuse	241.54	404.44	495.99	544.49	407.94	320.25	362.46	657.13	507.18	530.31	708.40	539.72	5719.85		
LITTER / SPECIAL WASTE	1008.1 IN - Topsoil (no charge)	Stockpiled/Reuse	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
	1050 IN - Asphalt & 1087 Millings	Stockpiled/Reuse	3.31	19.18	9.65	11.02	28.42	93.62	58.60	37.61	47.20	36.26	21.57	9.92	376.36		
	1051 IN - Concrete	Stockpiled/Reuse	3.00	21.56	24.11	9.84	58.86	25.99	17.95	13.00	52.42	9.99	12.07	6.46	255.25		
	1019 IN - Litter	Landfill	0.58	3.82	0.85	0.08	0.26	0.49	1.82	1.90	10.92	4.02	1.41	0.53	26.68	26.68	
	1026 IN - Dead Animals	Landfill	0.09	0.12	1.10	0.44	1.57	0.64	0.26	0.64	0.25	0.35	0.27	0.16	5.89	5.89	
	1060 IN - 1/2 Waiver	Landfill	0.00	0.00	0.00	0.67	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.63	3.63	
	1082 IN - Full Waiver	Landfill	0.00	0.00	0.85	0.76	10.24	0.13	0.60	0.00	0.00	1.64	0.00	0.00	14.22	14.22	
	1112 IN - Adopt a Road Litter	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	1142 IN - Street Sweepings	Landfill	20.76	13.06	13.09	15.53	22.66	11.95	41.53	237.06	52.56	46.88	177.64	7.94	660.66	660.66	
	1012 IN - Treatment Plant Sludge	Landfill	320.30	381.24	542.17	835.56	490.60	462.63	378.19	453.96	424.62	476.71	252.41	328.00	5346.39	5346.39	
BULKY OBJECTS / SPECIAL WASTE	1055 IN - Boat	Landfill	0.84	3.51	0.89	9.79	4.56	6.03	2.33	4.44	0.24	7.54	0.07	2.04	42.28	42.28	
	1059 IN - Mobile Home	Landfill	0.00	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.90	0.90	
	1145 IN - Special Handling Wastes	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.50	0.50	
	1143 IN - Carpet	Landfill	11.11	8.59	9.64	11.96	11.59	13.18	8.76	3.88	3.78	5.98	3.48	4.92	96.87	96.87	
	1014 IN - Asbestos	Landfill	1.22	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	1.28	1.28	
CONTAMINATED SOIL / SP. WASTE	1020 IN - Contaminated Soil	Landfill	0.00	0.37	0.00	0.39	0.00	0.00	0.00	0.00	3.86	1.00	0.00	0.00	5.62	5.62	
	1061 IN - Stall Waste	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.16		
	1052 OUT - Tires	WTE	7.69	0.00	14.58	8.29	16.33	11.38	16.27	16.96	3.76	19.02	9.44	6.97	130.69		
NON MRA RECYCLABLES		SWM METHOD	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	TOTAL		
	1119 OUT - Motor Oil	Recycle	0.49	0.40	6.40	6.26	6.00	9.19	4.06	5.39	2.24	4.28	3.88	0.74	49.33		
	1136 OUT - Antifreeze	Recycle	0.00	1.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.32		
	1137 OUT - Refrigerant (Freon)	Recycle	0.00	0.01	0.00	0.01000	0.00	0.01	0.01	0.01	0.00	0.01	0.00	0.00	0.06		
	1127 OUT - Vegetable Oil	Recycle	0.16	0.00	0.21	0.21	0.07	0.16	0.00	0.39	0.00	0.29	0.00	0.38	1.87		
	1111 OUT - Propane tanks	Recycle	0.00	0.00	0.00	0.00	1.86	0.00	0.00	3.10	0.00	0.00	0.00	0.00	4.96		
MRA RECYCLABLES		SWM METHOD	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	TOTAL		
MIXED YARD WASTE	1138 - Processed Mulch (from grinders)	Recycle	71.25	213.75	0.00	558.13	498.75	346.50	990.00	487.50	225.00	575.19	222.75	427.50	4616.32		
	Compost	Recycle	0.00	706.85	176.24	10.45	76.99	0.00	0.00	0.00	0.00	0.00	0.00	721.26	1691.79		
	1097 OUT - Single Stream Recycling leaving CLF	Recycle	409.91	315.09	383.46	360.69	419.86	480.30	495.92	420.47	407.45	445.63	387.72	494.89	5021.39		
BATTERIES	OUT - Shredded Paper	Recycle	0.00	0.00	3.14	0.00	0.00	2.98	0.00	0.00	2.16	0.00	2.28	0.00	10.56		
	1053 OUT - Lead Acid Batteries	Recycle	0.70	0.00	1.41	2.52	0.75	1.18	1.21	1.40	0.80	1.77	0.51	0.64	12.89		
	1120 OUT - Household Batteries	Recycle	0.00	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.90	0.00	0.00	2.70		
	1121 OUT - Rechargeable Batteries	Recycle	0.12	0.10	0.00	0.12	0.04	0.04	0.04	0.04	0.04	0.08	0.00	0.10	0.72		
	1117 OUT - Textiles	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.22	0.00	0.00	0.00	7.22		
	1044 OUT - Scrap Metal / Appliances	Recycle	0.00	26.90	92.75	39.45	30.44	8.60	41.50	31.95	38.09	20.29	35.82	38.12	403.91		
METALS	1044.1 OUT - Roads Scrap Metal	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.45	0.00	15.66	4.90	2.47	31.48		
	1116 OUT - Metal Tire Rims #1 Steel	Recycle	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	6.36	6.41		
	1130 OUT - Oil Filters	Recycle	0.20	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.25	0.00	0.00	0.00	0.65		
	1124 OUT - Mercury Thermostats	Recycle	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.02		
	1126 OUT - Corks	Recycle	0.0000	0.0000	0.0000	0.0000	0.0050	0.0050	0.0050	0.0000	0.0000	0.0050	0.0000	0.0050	0.03		
	1088 OUT - Electronics	Recycle	21.07	25.13	13.95	25.16	32.73	11.15	33.73	12.66	21.23	38.52	10.33	21.25	266.91		
E-WASTE	1139 OUT - Printer Cartridges	Recycle	0.04	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.03	0.01	0.00	0.00	0.13		
	1101 OUT - Vinyl Siding	Recycle	2.90	0.00	0.00	3.92	0.00	3.08	0.00	2.50	0.00	3.06	0.00	0.00	15.46		
	1052 OUT - Tires (Recycled)	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
	1098 OUT - Citizen Scrap Tires (Recycled)	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	35.45	0.00	13.71	0.00	49.16		
TIRES	1125 OUT- Eyewear	Recycle	0.0000	0.0000	0.00	0.0000	0.00	0.01	0.00	0.00	0.00	0.00	0.0000	0.00	0.01		
	1123 OUT - Latex Paint (Recycled)	Recycle	2.01	1.99	2.00	2.50	3.00	3.50	3.51	3.49	3.50	4.00	3.50	3.50	36.50		
	1118 OUT - Fluorescent Lamps	Recycle	0.31	0.23	0.30	0.44	0.33	0.42	0.00	0.34	0.34	0.17	0.64	0.00	3.52		
	1123 OUT - Bra Recycling	Recycle	0.01	0.000	0.00	0.00	0.025	0.03	0.00	0.001	0.000	0.001	0.000	0.000	0.06		
	1132 OUT - Polystyrene	Recycle	0.0400	0.1400	0.1000	0.1900	0.1200	0.0900	0.3700	0.1200	0.1500	0.2100	0.3700	0.0900	1.99		
	TOTAL ALL WASTE AND RECYCLING			7070.96	7034.53	7599.83	9463.24	9696.38	8656.60	10118.83	10102.89	8858.59	9122.64	8029.55	19253.29	115007.31	

ANNUAL 2014 LANDFILL TONNAGES																	
		SWM METHOD	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	TOTAL		
HOMEOWNER	MRA WASTE																
	1001 IN - Residential	Landfill	2160.20	1857.02	2110.03	2520.12	2606.57	2531.57	2784.72	2501.37	2614.40	2423.42	2178.82	2682.33	28970.570	28970.57	
	1002 IN - Commercial	Landfill	1938.32	1852.37	1993.16	2478.13	2687.60	2597.73	2653.64	2338.32	2490.18	2389.06	1968.56	2191.68	27578.750	27578.75	
	1003 IN - Industrial	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	
	1004 IN - Institutional	Landfill	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.430	1.43	
	1016 IN - School Board MSW	Landfill	64.68	5.17	57.73	0.00	9.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	136.890	136.89	
	5002 Homeowner Trash & SSR	Landfill	153.60	147.90	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00	0.00	0.00	301.790	301.79	
	5003 Homeowner / 6000 Non Scale Refuse	Landfill	92.20	94.60	40.67	139.55	168.33	126.15	149.29	154.88	135.37	126.15	129.48	154.45	1511.120	1511.12	
	1021 IN - Woodlawn Refuse	Landfill	99.47	81.61	66.47	99.09	122.28	89.43	98.27	78.04	94.58	85.92	74.48	89.57	1079.210	1079.21	
	1024 IN - Stemmers Refuse	Landfill	28.32	20.15	25.04	37.57	26.87	20.04	25.64	37.01	26.61	23.34	35.77	20.51	326.870	326.87	
MEDICAL WASTE	1148 IN - Latex Paint Residual Waste	Landfill	2.50	0.00	2.00	3.00	0.00	2.00	1.50	0.00	1.50	3.00	2.00	1.00	18.500	18.50	
	1131 OUT - Household Hazardous Waste	Landfill	0.00	0.00	0.00	26.86	0.00	0.00	0.00	0.00	0.00	53.68	0.00	0.00	80.540	80.54	
	1135 OUT - Medications	WTE	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.400		
	1128 OUT - Sharps	Biomedical Incinerator	0.00	0.00	0.08	0.00	0.28	0.00	0.02	0.02	0.02	0.04	0.06	0.02	0.540		
C&D	NON MRA WASTE																
	1005 IN - Landclearing	Mulched	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	60006.610		
	1006 IN - Demolition + 1082.1 Full Waiver (	Landfill	0.00	0.00	39.34	43.18	183.55	33.84	2.94	7.70	126.63	76.13	0.00	137.96	651.270	651.27	
	1007 IN - Construction	Landfill	873.85	788.93	1125.38	1722.94	1999.53	1928.53	1929.80	1846.26	1778.26	1955.91	1155.36	1552.31	18657.060	18657.06	
	1008 IN - Dirt / Soil + 1008.2 Ditch Spoils	Landfilled	94.69	194.15	501.05	231.09	603.90	994.50	6259.92	283.62	368.68	71.74	178.19	219.26	10000.790	10000.79	
	1008.1 IN - Topsoil (no charge)	Stockpiled/Reuse	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1026.26	64.87	0.00	1091.130		
	1050 IN - Asphalt	Landfilled	0.00	0.00	6.18	7.49	68.38	31.94	30.95	6.64	21.80	33.82	0.00	0.00	207.200	207.20	
	1041 IN - Asphalt Stockpiled & 1087 Milling	Stockpiled/Reuse	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000		
	1051 IN - Concrete	Landfilled	0.58	0.00	3.85	16.12	92.14	10.90	13.43	13.54	250.73	392.10	0.00	0.00	793.390	793.39	
	1051.1 IN - Concrete Stockpiled	Stockpiled/Reuse	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.86	178.77	58.40	292.030		
LITTER / SPECIAL WASTE	1019 IN - Litter	Landfill	0.90	0.00	0.47	2.40	0.77	0.30	0.10	0.30	0.30	0.00	0.00	0.18	5.720	5.72	
	1026 IN - Dead Animals	Landfill	0.09	0.78	0.11	0.12	0.22	0.00	0.00	0.30	0.38	0.73	0.28	0.55	3.560	3.56	
	1060 IN - 1/2 Waiver	Landfill	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.040	0.04	
	1082 IN - Full Waiver	Landfill	0.00	0.00	0.00	4.85	2.74	0.37	0.00	0.00	0.57	0.08	0.00	0.00	8.610	8.61	
	1112 IN - Adopt a Road Litter	Landfill	0.00	0.00	0.00	0.00	0.10	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.200	0.20	
	1142 IN - Street Sweepings	Landfill	1.93	3.02	34.04	67.13	33.48	25.20	17.68	29.84	20.37	33.57	15.74	58.51	340.510	340.51	
BULKY OBJECTS / SPECIAL WASTE	1012 IN - Treatment Plant Sludge	Landfill	189.32	287.65	387.62	450.49	413.54	358.30	401.92	422.35	247.36	245.05	185.99	341.24	3930.830	3930.83	
	1055 IN - Boat	Landfill	0.00	0.00	4.16	0.85	2.66	0.94	9.92	1.54	2.96	9.23	2.66	2.06	36.980	36.98	
	1059 IN - Mobile Home	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	
	1145 IN - Special Handling Wastes	Landfill	0.00	0.00	0.00	0.00	1.27	0.47	0.00	0.00	0.00	0.00	0.00	0.00	1.740	1.74	
CONTAMINATED SOIL	1143 IN - Carpet	Landfill	4.60	4.98	6.83	7.99	5.21	2.98	4.27	7.95	4.09	7.28	6.48	6.39	69.050	69.05	
	1014 IN - Asbestos	Landfill	0.00	0.03	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.160	0.16	
	1020 IN - Contaminated Soil	Landfill	0.00	31.52	8.32	7.33	0.00	0.00	6.41	0.00	0.00	0.00	0.00	0.00	53.580	53.58	
	1061 IN - Stall Waste	Landfill	0.00	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.740	0.74	
NON MRA RECYCLABLES	1052 OUT - Tires	WTE	9.16	6.32	11.62	22.54	23.82	9.49	16.54	8.09	8.49	20.81	9.21	6.73	152.820		
	1119 OUT - Motor Oil	Recycle	2.08	1.01	2.29	5.50	5.50	1.80	6.42	7.40	2.00	4.40	2.60	4.80	45.800		
	1136 OUT - Antifreeze	Recycle	0.00	0.00	2.12	0.00	0.00	0.00	0.00	1.23	0.00	0.00	0.00	0.00	3.350		
	1137 OUT - Refrigerant (Freon)	Recycle	0.00	0.00	0.01	0.01000	0.00	0.00	0.01	0.00	0.01	0.00	0.01	0.02	0.070		
	1127 OUT - Vegetable Oil	Recycle	0.00	0.08	0.36	0.00	0.41	0.00	0.00	0.51	0.00	0.39	0.00	0.00	1.750		
	1111 OUT - Propane tanks	Recycle	0.00	0.00	0.00	2.29	0.00	0.00	0.00	0.00	0.00	0.00	2.45	0.00	4.740		
	1009 IN - Stumps & Logs	Recycle	9.77	9.09	9.99	16.31	38.64	14.98	28.94	22.76	8.38	2.43	7.25	28.66	197.200		
	MRA RECYCLABLES																
	1138 - Processed Mulch	Recycle	0.00	275.00	136.25	682.50	440.50	0.00	737.50	480.13	500.00	50.00	249.50	297.50	3848.880		
	1046 IN - Compost	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000		
MIXED YARD WASTE	Stockpiled Yard Waste (Leaves & Grassclippings)	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	327.48	0.00	327.480		
	1096 IN - Pallets	Recycle	0.00	1.83	1.14	5.20	1.36	0.12	1.56	0.92	0.67	1.70	1.66	0.83	16.990		
	1025 IN - Sod	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000		
	1146 IN - Woodchips	Recycle	8.05	0.00	0.00	3.29	0.00	0.00	4.64	1.74	1.79	0.00	6.73	0.36	26.600		
BATTERIES	1097 OUT - Single Stream Recycling leaving	Recycle	425.37	352.05	422.00	431.12	484.26	455.93	484.05	459.64	470.78	470.26	439.08	504.48	5399.020	5096.675	
	OUT - Shredded Paper	Recycle	0.00	0.00	3.16	0.00	0.00	2.48	0.00	0.00	2.86	0.00	1.30	0.00	9.800		
	1053 OUT - Lead Acid Batteries	Recycle	0.51	0.00	0.52	2.44	0.74	0.64	1.83	0.55	1.33	1.01	0.67	0.57	10.810		
	1120 OUT - Household Batteries	Recycle	0.00	0.00	0.00	0.00	0.00	1.50	0.00	0.00	0.00	0.00	0.00	0.00	1.500		
METALS	1121 OUT - Rechargeable Batteries	Recycle	0.04	0.00	0.00	0.00	0.04	0.04	0.02	0.04	0.05	0.03	0.00	0.00	0.260		
	1117 OUT - Textiles	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	8.52	0.00	0.00	0.00	0.00	0.00	8.520		
	1044 OUT - Scrap Metal / Appliances	Recycle	48.82	0.13	10.74	18.12	14.79	28.06	9.08	34.36	39.49	15.14	25.15	18.31	262.190		
	1044.1 OUT - Roads Scrap Metal	Recycle	7.63	0.00	0.00	9.04	6.96	4.56	0.00	6.40	0.00	11.15	4.28	0.00	50.020		
E-WASTE	1116 OUT - Metal Tire Rims #1 Steel	Recycle	0.00	0.00	0.00	0.00	0.00	3.64	0.00	0.00	0.47	0.00	0.98	0.00	5.090		
	1130 OUT - Oil Filters	Recycle	0.00	0.00	0.00	0.00	0.15	0.15	0.00	0.00	0.00	0.10	0.00	0.00	0.400		
	1124 OUT - Mercury Thermostats	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000		
	1126 OUT - Corks	Recycle	0.0000	0.0000	0.0001	0.0000	0.0000	0.0000	0.0001	0.0000	0.0001	0.0000	0.0000	0.0001	0.000		
TIRES	1088 OUT - Electronics	Recycle	17.63	8.48	24.36	27.16	18.13	19.50	26.76	15.66	27.41	26.05	16.75	26.17	254.060		
	1139 OUT - Printer Cartridges	Recycle	0.03	0.00	0.00	0.00	0.00	0.04	0.02	0.00	0.01	0.00	0.00	0.00	0.100		
	1101 OUT - Vinyl Siding	Recycle	0.00	0.00	0.00	2.61	0.00	2.74	0.00	2.68	0.00	1.64	0.00	0.00	9.670		
	1052 OUT - Tires (Recycled)	Recycle															

ANNUAL 2015 LANDFILL TONNAGES																
	MRA WASTE	SWM METHOD	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	TOTAL	
HOMEOWN	1001 IN - Residential	Landfill	2156.05	1786.85	2381.32	2576.83	2541.05	2871.20	2797.45	2631.52	2587.38	2379.60	2491.39	2664.95	29865.59	
	1002 IN - Commercial	Landfill	1925.00	1660.56	2270.48	2345.74	2291.97	2674.35	2738.26	2509.65	2346.76	2297.45	2049.36	2251.96	27361.54	
	1003 IN - Industrial	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	1004 IN - Institutional	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	1016 IN - School Board MSW	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	5002 Homeowner Trash & SSR	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	5003 Homeowner / 6000 Non Scale Refuse	Landfill	120.07	112.92	153.82	167.73	174.76	179.11	190.94	176.27	151.13	163.82	159.60	173.34	1923.51	
	1021 IN - Woodlawn Refuse	Landfill	99.92	61.39	70.55	96.03	99.67	78.63	108.46	79.27	87.95	88.79	65.26	97.92	1033.84	
	1024 IN - Stemmers Refuse	Landfill	25.34	22.28	28.37	31.11	22.29	35.05	22.27	32.79	27.95	30.96	19.53	31.30	329.24	
ME DIC	1148 IN - Latex Paint Residual Waste	Landfill	0.00	7.41	2.00	6.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	31.41	
	1131 OUT - Household Hazardous Waste	Landfill	0.00	0.00	0.00	30.17	0.00	0.00	0.00	0.00	0.00	19.68	0.00	0.00	49.85	
	1135 OUT - Medications	WTE	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.40	
C&D	1128 OUT - Sharps	Medical Incinerator	0.10	0.00	0.10	0.14	0.00	0.00	0.01	0.01	0.01	0.16	0.00	0.00	0.53	
	NON MRA WASTE		SWM METHOD	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	60595.91
	1005 IN - Landclearing	Mulched	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LITTER / SPECIAL	1006 IN - Demolition + 1082.1 Full Waiver C&I	Landfill	41.44	0.00	20.65	2.20	11.43	145.19	39.80	49.90	75.61	74.11	1075.00	0.00	1535.33	
	1007 IN - Construction + 1060.1 Half Waiver C&I	Landfill	928.65	1215.27	1197.58	1607.39	1685.07	1770.49	1694.05	1630.11	1535.40	1610.84	1479.25	1441.78	17795.88	
	1008 IN - Dirt / Soil & 1008.2 Ditch Spoils	Landfilled	46.53	115.67	250.56	623.61	212.66	193.83	254.05	318.77	259.74	649.57	166.63	182.71	3274.33	
	1008.1 IN - Topsoil (no charge)	Stockpiled/Reuse	0.00	0.00	0.00	0.00	391.43	118.28	204.37	12.00	157.16	15.06	88.25	40.53	1027.08	
	1050 IN - Asphalt	Landfilled	0.00	2.08	0.00	9.94	12.86	70.32	3.32	5.17	7.45	42.05	0.00	22.08	175.27	
	1041 IN - Asphalt Stockpiled & 1087 Millings	Stockpiled/Reuse	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	1051 IN - Concrete	Landfilled	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.39	
	1051.1 IN - Concrete Stockpiled	Stockpiled/Reuse	81.58	714.32	401.03	192.01	86.95	283.59	16.23	19.11	105.95	102.73	28.02	13.99	2045.51	
	1019 IN - Litter	Landfill	0.00	0.55	1.52	2.92	2.09	0.32	0.00	0.28	0.11	0.30	0.69	0.14	8.92	
	1026 IN - Dead Animals	Landfill	0.05	0.00	0.12	0.10	0.02	0.23	0.00	0.06	0.11	3.67	1.04	2.34	7.74	
BULKY OBJECT	1060 IN - 1/2 Waiver	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	1082 IN - Full Waiver	Landfill	0.00	0.00	0.00	3.87	2.41	0.00	0.00	0.00	0.22	0.00	0.00	0.00	6.50	
	1112 IN - Adopt a Road Litter	Landfill	0.10	0.10	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	
	1142 IN - Street Sweepings	Landfill	8.48	4.60	27.05	22.78	48.73	20.94	47.71	13.23	30.47	28.42	18.32	15.90	286.63	
	1012 IN - Treatment Plant Sludge	Landfill	356.75	227.16	306.48	406.24	447.06	395.35	219.06	450.91	288.81	309.58	258.76	90.59	3756.75	
	1055 IN - Boat	Landfill	0.00	1.69	2.40	0.73	0.51	3.77	1.29	0.96	14.16	2.30	1.07	1.29	30.17	
	1059 IN - Mobile Home	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	1145 IN - Special Handling Wastes	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	1143 IN - Carpet	Landfill	5.39	5.41	5.04	7.74	4.27	7.57	5.26	6.25	6.46	3.65	7.56	3.67	68.27	
	1014 IN - Asbestos	Landfill	0.00	0.00	0.10	0.00	0.02	0.40	0.20	0.02	0.00	0.00	0.00	0.00	0.74	
CO NTA	1020 IN - Contaminated Soil	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	1061 IN - Stall Waste	Landfill	0.00	0.00	0.00	1.05	0.00	1.12	3.52	4.52	7.55	59.34	0.00	0.00	77.10	
	1052 OUT - Tires	WTE	9.95	9.07	9.41	23.88	10.64	8.15	12.18	9.96	12.51	10.10	9.85	13.05	138.75	
	NON MRA RECYCLABLES		SWM METHOD	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	30235.66
MIXED YARD	1119 OUT - Motor Oil	Recycle	4.88	0.00	3.00	3.00	7.90	3.20	5.20	3.00	0.00	9.40	1.00	3.70	44.28	
	1136 OUT - Antifreeze	Recycle	2.20	0.00	0.00	0.00	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.10	
	1137 OUT - Refrigerant (Freon)	Recycle	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.03	
	1127 OUT - Vegetable Oil	Recycle	0.00	0.00	0.35	0.24	0.00	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.83	
	1111 OUT - Propane tanks	Recycle	1.52	0.00	0.00	0.00	0.00	2.06	0.00	0.00	0.00	1.29	0.00	0.00	4.87	
	1009 IN - Stumps & Logs	Recycle	13.94	6.30	16.24	47.03	25.06	30.07	14.50	27.23	9.86	37.41	6.45	4.96	239.05	
	MRA RECYCLABLES		SWM METHOD	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	256.16
	1138 - Processed Mulch	Recycle	71.25	150.00	400.00	250.00	368.75	481.25	1450.00	960.50	300.00	625.00	293.75	597.00	5947.50	
	1046 IN - Compost	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Stockpiled Yard Waste (Leaves & Grassclippings)	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	855.00	0.00	0.00	0.00	0.00	0.00	855.00	
	1096 IN - Pallets	Recycle	0.83	0.25	0.47	0.24	1.87	0.56	1.12	2.99	0.58	0.00	0.00	0.81	9.72	
1025 IN - Sod	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
BATTEE	1146 IN - Woodchips	Recycle	6.69	14.57	4.09	0.00	1.09	17.10	14.45	7.75	1.21	5.83	0.00	17.13	89.91	
	1097 OUT - Single Stream Recycling leaving C	Recycle	470.92	325.51	473.99	474.13	513.68	543.41	568.43	487.82	528.14	561.44	502.27	600.45	6050.19	
	OUT - Shredded Paper	Recycle	0.00	0.00	3.92	0.00	0.00	2.16	0.00	0.00	1.75	0.00	1.89	0.00	9.72	
	1053 OUT - Lead Acid Batteries or 1053.2	Recycle	0.52	0.30	0.34	2.06	1.50	0.77	0.82	1.36	0.54	1.75	0.89	0.45	11.30	
	1120 OUT - Household Batteries	Recycle	0.00	0.00	0.00	1.11	0.00	1.20	0.00	0.00	0.00	1.11	0.00	0.00	3.42	
	1121 OUT - Rechargeable Batteries	Recycle	0.02	0.00	0.02	0.06	0.04	0.04	0.02	0.00	0.02	0.20	0.02	0.02	0.46	
	1117 OUT - Textiles	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	9.58	0.00	0.00	0.00	0.00	0.00	9.58	
	1044 OUT - Scrap Metal / Appliances & 1044.1	Recycle	27.10	0.00	40.31	16.73	33.34	162.12	62.56	27.55	18.98	36.57	33.64	29.77	488.67	
	1044.1 OUT - Roads Scrap Metal	Recycle	7.82	0.00	0.00	6.66	14.77	0.00	0.00	0.00	0.00	0.00	0.00	10.00	39.25	
	1116 OUT - Metal Tire Rims #1 Steel	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
E- WA	1130 OUT - Oil Filters	Recycle	0.10	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.20	
	1124 OUT - Mercury Thermostats	Recycle	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.03	
	1126 OUT - Corks	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	1088 OUT - Electronics	Recycle	20.89	16.36	11.43	44.86	20.90	23.18	26.48	19.14	22.71	19.62	1.16	4.89	231.62	
	1139 OUT - Printer Cartridges	Recycle	0.00	0.02	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.01	0.00	0.01	0.06	
	1101 OUT - Vinyl Siding	Recycle	0.00	2.80	0.00	0.00	4.01	2.65	1.73	0.00	2.44	3.16	0.00	1.66	18.45	
	1052 OUT - Tires (Recycled)	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	1098 OUT - Citizen Scrap Tires (Recycled)	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	1125 OUT - Eyewear	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	
	1123 OUT - Latex Paint (Recycled)	Recycle	0.00	0.00	3.00	3.20	3.00	2.95	3.00	3.00	3.00	3.00	3.00	3.00	30.15	
TIR ES	1118 OUT - Fluorescent Lamps	Recycle	0.35	0.26	0.00	0.35	0.59	0.00	0.49	0.24	0.22	0.29	0.00	0.24	3.03	
	1123 OUT - Bra Recycling	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	
	1132 OUT - Polystyrene	Recycle	0.17	0.15	0.18	0.11	0.14	0.20	0.07	0.17	0.09	0.17	0.06	0.12	1.63	
	MONTHLY TOTAL WASTE		6434.60	6463.85	8085.92	9008.21	9049.92	10132.91	11374.14	9493.51	8594.44	9200.65	8765.72	8323.76	104927.62	

ANNUAL 2016 LANDFILL TONNAGES																		
	MRA WASTE	SWM METHOD	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	TOTAL			
	1001 IN - Residential	Landfill	2144	2360	2597	2522	2732	2898	2581	3030	2673	2521	2598	2580	31236	31236		
	1002 IN - Commercial	Landfill	1912	2223	2304	2266	2400	2755	2507	2924	2473	2281	2558	2994	29599	29598.59		
	1003 IN - Industrial	Landfill	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	1004 IN - Institutional	Landfill	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	1016 IN - School Board MSW	Landfill	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
HOMEOWNERS	5002 Homeowner Trash & SSR	Landfill	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	5003 Homeowner / 6000 Non Scale Refuse	Landfill	145	149	186	191	177	168	186	183	141	169	163	164	2020	2020		
	1021 IN - Woodlawn Refuse	Landfill	81	58	80	87	85	88	98	69	100	60	92	82	980	980.11		
	1024 IN - Stemmers Refuse	Landfill	17	18	29	17	32	37	19	25	30	23	32	26	306	305.94		
	1148 IN - Latex Paint Residual Waste	Landfill	0	2	2	2	2	2	2	2	2	2	1	2	21	21		
	1131 OUT - Household Hazardous Waste	Landfill	0	0	0	36	0	0	0	0	0	0	0	0	36	35.71		
MEDICAL	1135 OUT - Medications	WTE	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	1128 OUT - Sharps	Biomedical Incinerator	0	0	0	0	0	0	0	0	0	0	0	0	1	1		
	NON MRA WASTE	SWM METHOD	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	64198			
	1005 IN - Landclearing	Mulched	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
C&D	1006 IN - Demolition + 1082.1 Full Waiver C&D	Landfill	26	3	19	25	44	34	17	7	38	138	76	82	507	506.6		
	1007 IN - Construction+1060.1 Half Waiver C&D	Landfill	1137	1004	1585	1464	1566	1725	1367	1478	1608	1453	1598	1129	17113	17113.03		
	1008 IN - Dirt / Soil & 1008.2 Ditch Spoils	Landfilled	100	229	477	25	460	237	163	731	393	388	286	80	3568	3568.49		
	1008.1 IN - Topsoil (no charge)	Stockpiled/Reuse	0	9	389	32	0	0	0	0	0	0	0	0	429			
	1050 IN - Asphalt	Landfilled	0	1	0	18	2	0	0	14	1	5	0	3	44	43.59		
	1041 IN - Asphalt Stockpiled & 1087 Millings	Stockpiled/Reuse	0	0	0	0	0	0	0	0	0	0	4	4	8			
	1051 IN - Concrete	Landfilled	0	0	0	1	0	0	0	0	0	1	0	2	3	3.46		
	1051.1 IN - Concrete Stockpiled	Stockpiled/Reuse	10	2	13	12	34	33	47	43	13	28	26	4	266			
LITTER / SPECIAL WASTE	1019 IN - Litter	Landfill	0	0	1	1	1	0	0	0	0	0	0	0	4	3.83		
	1026 IN - Dead Animals	Landfill	0	0	0	0	0	1	0	0	0	0	0	1	3	2.9		
	1060 IN - 1/2 Waiver	Landfill	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	1082 IN - Full Waiver	Landfill	0	0	0	5	0	5	0	0	0	0	0	0	10	10.05		
	1112 IN - Adopt a Road Litter	Landfill	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	1142 IN - Street Sweepings	Landfill	11	11	20	17	17	14	14	12	10	11	13	10	160	159.92		
	1012 IN - Treatment Plant Sludge	Landfill	187.93	97.27	437.21	409.21	418.69	188.27	188.31	243.32	208.69	207.08	221.20	220.42	3027.60	3027.6		
BULKY OBJECTS /	1055 IN - Boat	Landfill	0	0	17	3	4	1	2	1	1	3	0	0	34	34.18		
	1059 IN - Mobile Home	Landfill	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	1145 IN - Special Handling Wastes	Landfill	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	1143 IN - Carpet	Landfill	5	5	5	4	7	6	7	6	4	8	8	2	64	64.2		
CONTAMINATED MATERIAL	1014 IN - Asbestos	Landfill	0	0	0	0	0	0	2	0	0	2	0	0	4	3.97		
	1020 IN - Contaminated Soil	Landfill	0	0	0	0	0	0	0	0	0	2	0	0	2	2.23		
	1061 IN - Stall Waste	Landfill	1	0	0	2	0	0	0	0	0	0	0	0	3	3.35		
	1052 OUT - Tires	WTE	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	NON MRA RECYCLABLES	SWM METHOD													25251	88744.75		
	1119 OUT - Motor Oil	Recycle	4	1	6	4	7	3	3	5	5	3	9	5	55			
	1136 OUT - Antifreeze	Recycle	0	0	2	0	0	0	0	0	0	0	0	2	5			
	1137 OUT - Refrigerant (Freon)	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	0			
	1127 OUT - Vegetable Oil	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	0			
	1111 OUT - Propane tanks	Recycle	0	0	0	0	0	0	0	0	2	0	0	0	2			
	1009 IN - Stumps & Logs	Recycle	6	15	58	79	22	54	57	33	16	26	38	8	411			
	MRA RECYCLABLES	SWM METHOD													473			
MIXED YARD WASTE	1138 - Processed Mulch	Recycle	71	321	134	368	431	1203	1525	1610	600	425	371	371	7429			
	1046 IN - Compost & 1046.1	Recycle	0	0	0	0	0	0	0	0	0	0	121	308	429			
	Stockpiled Yard Waste (Leaves & Grassclippings)	Recycle	0	0	0	0	0	0	0	0	0	0	0	1719	1719			
	1096 IN - Pallets	Recycle	1	2	0	0	1	2	0	3	1	0	0	0	10			
	1025 IN - Sod	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	0			
	1146 IN - Woodchips	Recycle	2	0	4	2	3	22	20	39	15	18	0	6	132			
	1097 OUT - Single Stream Recycling leaving CLF	Recycle	406	323	270	244	262	299	262	247	245	213	211	215	3196			
	OUT - Shredded Paper	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	0			
BATTERIES	1053 OUT - Lead Acid Batteries or 1053.2	Recycle	1	0	1	2	0	1	0	1	1	1	1	1	10			
	1120 OUT - Household Batteries	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	0			
	1121 OUT - Rechargeable Batteries	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	0			
	1117 OUT - Textiles	Recycle	0	0	0	0	0	0	6	0	0	0	1	0	8			
METALS	1044 OUT - Scrap Metal / Appliances & 1044.2	Recycle	16	12	27	38	24	45	25	33	32	36	29	23	340			
	1044.1 OUT - Roads Scrap Metal	Recycle	7	0	0	0	9	12	0	0	7	6	12	0	53			
	1116 OUT - Metal Tire Rims #1 Steel	Recycle	0	0	0	0	0	8	0	0	0	0	0	0	8			
	1116.2 OUT - Aluminum Rims & 1116.2 Al bk rims	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	0			
	1130 OUT - Oil Filters	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	1			
	1124 OUT - Mercury Thermostats	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	0			
E-WASTE	1126 OUT - Corks	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	0			
	1088 OUT - Electronics	Recycle	0	5	0	0	6	0	6	0	0	5	0	0	22			
	1139 OUT - Printer Cartridges	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	0			
TIRES	1101 OUT - Vinyl Siding	Recycle	0	0	0	0	0	4	3	0	2	0	0	2	10			
	1052 OUT - Tires (Recycled)	Recycle	12	13	14	18	0	22	0	14	12	16	10	18	148			
	1098 OUT - Citizen Scrap Tires (Recycled)+AG Tires 1032.4 1032.5	Recycle	259	0	0	0	0	0	0	0	0	0	0	0	259			
	1125 OUT- Eyewear	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	0			
	1123 OUT - Latex Paint (Recycled)	Recycle	0	0	0	3	3	3	3	3	3	3	2	3	26			
	1118 OUT - Fluorescent Lamps	Recycle	1	0	0	1	0	0	0	0	0	0	0	0	3			
	1122 OUT - Bra Recycling	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	0			
	1132 OUT - Polystyrene	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	1.5			
	9000 OUT - Govdeals auction	Recycle/ Reuse	0	0	7	0	0	0	0	0	2	0	0	0	9			
MONTHLY TOTAL WASTE			6562	6863	8686	7896	8748	9869	9111	10758	8639	8056	8480	10068	103736			

		ANNUAL 2017 LANDFILL TONNAGES														
MRA WASTE		SWM METHOD	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	TOTAL	
HOMEOWNE	1001 IN - Residential	Landfill	2518.25	2167.68	2444.56	2461.72	2665.71	2855.55	2718.72	2785.67	2475.87	2476.96	2447.09	2171.14	30189	30188.92
	1002 IN - Commercial	Landfill	2549.75	2046.97	2519.78	2641.15	3075.98	3050.98	2947.85	3189.92	2849.29	2966.97	2735.83	2510.27	33085	33084.74
	1003 IN - Industrial	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0
	1004 IN - Institutional	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0
	1016 IN - School Board MSW	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0
	5002 Homeowner Trash & SSR	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	
	5003 Homeowner / 6000 Non Scale R	Landfill	147.63	104.71	135.22	122.93	113.52	154.42	125.34	122.59	72.31	132.33	62.37	56.62	1350	1349.99
	1021 IN - Woodlawn Refuse	Landfill	91.12	56.81	71.63	92.09	89.05	86.54	89.59	95.03	82.69	88.72	75.79	79.20	998	998.26
	1024 IN - Stemmers Refuse	Landfill	21.54	22.76	36.77	28.58	20.43	41.57	25.91	36.59	21.35	26.93	36.00	19.49	338	337.920
	1148 IN - Latex Paint Residual Waste	Landfill	2.00	2.00	2.00	3.00	3.00	2.00	3.00	2.00	2.00	2.00	2.00	1.00	26	
MEDI CAL	1131 OUT - Household Hazardous W	Landfill	0.00	0.00	0.00	14.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15	
	1135 OUT - Medications	WTE	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	
	1128 OUT - Sharps	Biomedical Incinerator	0.08	0.00	0.12	0.26	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	1	
NON MRA WASTE		SWM METHOD	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	66002	
C&D	1005 IN - Landclearing	Mulched	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	
	1006 IN - Demolition + 1082.1 Full Waiver C&D	Landfill	24.03	78.66	33.63	116.58	47.69	73.48	190.90	112.82	92.33	84.43	17.04	208.34	1080	1079.93
	1007 IN - Construction+1060.1 Half Waiver C&D	Landfill	1048.44	1272.78	1219.17	1766.82	1749.70	1736.44	2741.68	2443.98	1805.80	1911.40	1450.76	1164.73	20312	20311.7
	1008 IN - Dirt / Soil & 1008.2 Ditch Spoils	Landfilled	65.74	148.02	75.21	216.05	118.73	202.66	258.57	375.61	358.07	341.31	172.40	102.59	2435	
	1008.1 IN - Topsoil (no charge)	Stockpiled/Reuse	0.00	78.08	0.00	0.00	0.00	0.00	0.00	753.29	167.42	0.00	0.00	0.00	999	
	1050 IN - Asphalt	Landfilled	0.00	5.18	0.00	0.00	8.13	0.00	0.00	2.46	0.00	0.48	4.81	0.00	21	
	1041 IN - Asphalt Stockpiled & 1087 Millings	Stockpiled/Reuse	13.12	0.00	0.00	4.33	7.22	0.00	0.00	86.06	1.86	34.36	18.77	0.00	166	
	1051 IN - Concrete	Landfilled	0.00	0.00	0.00	0.00	2.08	0.00	0.68	0.00	0.00	0.91	6.71	0.00	10	
	1051.1 IN - Concrete Stockpiled	Stockpiled/Reuse	1.69	4.34	11.48	18.29	66.82	16.13	3.01	19.02	7.46	13.65	14.50	3.43	180	
	1019 IN - Litter	Landfill	0.42	0.18	0.16	0.00	0.26	0.00	0.00	0.00	0.00	0.23	0.00	0.00	1	1.25
LITTER / SPECIAL	1026 IN - Dead Animals	Landfill	0.99	0.18	0.00	0.03	0.00	0.59	0.09	0.00	0.06	0.64	0.07	0.47	3	3.12
	1060 IN - 1/2 Waiver	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0
	1082 IN - Full Waiver	Landfill	0.00	0.00	0.00	4.77	14.83	0.00	0.00	0.00	0.09	1.21	0.00	0.00	21	20.9
BULKY OBJECTS / TAM.	1112 IN - Adopt a Road Litter	Landfill	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.1
	1142 IN - Street Sweepings	Landfill	13.39	9.11	4.07	11.70	11.04	12.46	7.98	25.97	11.04	12.76	10.80	4.14	134	
	1012 IN - Treatment Plant Sludge	Landfill	280.27	279.98	449.95	442.13	457.39	413.67	297.72	288.97	362.49	315.88	305.41	249.50	4143	4143.36
	1055 IN - Boat	Landfill	0.00	1.49	1.36	2.68	3.35	0.36	0.84	4.38	5.89	3.44	4.57	1.26	30	29.62
	1059 IN - Mobile Home	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0
	1145 IN - Special Handling Wastes	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0
	1143 IN - Carpet	Landfill	2.03	3.19	3.14	4.06	4.00	5.49	2.35	0.72	1.07	0.57	5.78	2.49	35	34.89
	1014 IN - Asbestos	Landfill	0.00	0.00	0.01	0.01	4.34	0.03	0.00	0.01	0.00	0.23	0.00	0.02	5	4.65
	1020 IN - Contaminated Soil	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0
	1061 IN - Stall Waste	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0
1052 OUT - Tires	WTE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	
NON MRA RECYCLABLES		SWM METHOD													29575	91589.35
	1119 OUT - Motor Oil	Recycle	0.00	3.60	4.00	1.96	7.12	5.46	2.82	6.52	6.54	3.88	4.76	0.60	47	
	1136 OUT - Antifreeze	Recycle	0.00	0.00	0.00	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2	
	1137 OUT - Refrigerant (Freon)	Recycle	0.00	0.00	0.00	0.10	0.00	0.00	0.10	0.00	0.01	0.00	0.01	0.00	0	
	1127 OUT - Vegetable Oil	Recycle	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	
	1111 OUT - Propane tanks	Recycle	0.00	0.00	0.00	0.00	1.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2	
	1009 IN - Stumps & Logs	Recycle	20.82	65.00	55.53	127.16	62.97	116.57	41.03	68.27	175.31	44.62	22.04	18.76	818	
MRA RECYCLABLES		SWM METHOD													869	
MIXED YARD WASTE	1138 - Processed Mulch	Recycle	831.25	493.75	1073.13	1070.00	368.75	1228.75	700.00	568.00	550.00	350.00	321.50	0.00	7555	
	1046 IN - Compost & 1046.1	Recycle	322.06	0.00	185.26	225.57	0.00	30.16	212.82	905.40	0.00	0.00	0.00	182.57	2064	
	Stockpiled Leaves & Grassclippings & Compos	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	913.88	0.00	0.00	914	
	1096 IN - Pallets	Recycle	0.00	0.00	0.79	1.26	0.48	0.70	2.64	0.73	17.50	0.00	0.00	0.00	24	
	1025 IN - Sod	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	
	1146 IN - Woodchips	Recycle	9.04	9.09	38.41	45.24	0.00	57.78	6.51	10.22	23.78	4.93	0.88	3.27	209	
BATTERIE	1097 OUT - Single Stream Recycling	Recycle	197.38	184.45	200.16	208.71	270.14	302.72	309.33	287.11	244.49	247.07	278.28	308.12	3038	
	OUT - Shredded Paper	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	
	1053 OUT - Lead Acid Batteries or 10	Recycle	1.82	0.65	0.72	1.65	0.74	0.97	0.60	0.79	0.00	1.64	1.08	0.00	11	
	1120 OUT - Household Batteries	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	
	1121 OUT - Rechargeable Batteries	Recycle	0.00	0.02	0.00	0.06	0.05	0.04	0.02	0.04	0.04	0.02	0.02	0.04	0	
	1117 OUT - Textiles	Recycle	0.14	0.48	0.17	0.26	0.46	0.18	0.23	0.41	0.10	0.26	0.70	0.15	4	
METALS	1044 OUT - Scrap Metal/ Appliances & 1044.2&1066	Recycle	23.61	27.63	51.31	46.35	38.50	31.85	62.70	37.50	32.45	88.91	45.97	25.08	512	
	1044.1 OUT - Roads Scrap Metal	Recycle	6.06	4.10	0.00	0.00	10.94	0.00	9.39	0.00	0.00	0.00	12.01	0.00	43	
	1116 OUT - Metal Tire Rims #1 Steel	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	2.70	0.00	0.00	0.00	0.00	0.00	3	
	1116.2 OUT - Aluminum Rims & 1116.2 Al bk rims	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	
	1130 OUT - Oil Filters	Recycle	0.00	0.00	0.45	0.00	0.00	0.00	0.10	0.15	0.00	0.00	0.00	0.00	1	
	1124 OUT - Mercury Thermostats	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0	
E-																

ANNUAL 2018 LANDFILL TONNAGES															
MRA WASTE		SWM METHOD	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	TOTAL
HOMEOWNER	1001 IN - Residential	Landfill	2432	1997	2381	2548	2843	2646	2782	2927	2396	2707	2621	2392	30674
	1002 IN - Commercial	Landfill	2417	2452	2683	2824	3470	3204	3022	3204	2749	2881	2783	2717	34406
	1003 IN - Industrial	Landfill	0	0	0	0	0	0	0	0	0	0	0	0	0
	1004 IN - Institutional	Landfill	0	0	0	0	0	0	4	0	2	0	2	0	8
	1016 IN - School Board MSW	Landfill	0	0	0	0	0	0	0	0	0	0	0	0	0
	5002 Homeowner Trash & SSR	Landfill	0	0	0	0	0	0	0	0	0	0	0	0	0
	5003 Homeowner / 6000 Non Scale Refuse	Landfill	101	99	122	127	131	151	141	130	119	124	112	110	1466
	1021 IN - Woodlawn Refuse	Landfill	73.78	75.64	92.69	84.16	104.60	86.43	81.97	119.66	85.37	99.64	94.71	76.35	1075
	1024 IN - Stemmers Refuse	Landfill	24.47	29.59	21.09	33.91	47.49	36.05	31.55	40.38	26.51	35.55	42.04	23.31	392
	1148 IN - Latex Paint Residual Waste	Landfill	3	3	3	2	2	2	2	2	2	2	2	2	27
WASTE	1131 OUT - Household Hazardous Waste	Landfill	0	0	0	39	0	0	0	0	0	0	0	0	39
	1135 OUT - Medications	WTE	0	0	0	0	0	0	0	0	0	0	0	0	0
	1128 OUT - Sharps	medical Inciner	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	2
NON MRA WASTE		SWM METHOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC	68088
C&D	1005 IN - Landclearing	Mulched	0	0	0	0	0	0	0	0	0	0	0	0	0
	1006 IN - Demolition + 1082.1 Full Waiver C&D	Landfill	64	138	74	116	227	120	82	76	51	1631	40	20	2638
	1007 IN - Construction+1060.1 Half Waiver C&D	Landfill	942	975	1554	1731	2265	2099	2211	2003	1522	86	1297	1253	17938
LITTER / SPECIAL WASTE	1008 IN - Dirt / Soil & 1008.2 Ditch Spoils	Landfilled	31	216	63	212	68	494	54	365	458	206	283	31	2481
	1008.1 IN - Topsoil (no charge)	stockpiled/Reuse	0	1134	0	0	0	1216	0	0	2202	2785	1491	4972	13799
	1050 IN - Asphalt	Landfilled	0	0	0	0	0	0	0	13	0	0	0	7	20
	1041 IN - Asphalt Stockpiled & 1087 Millings	stockpiled/Reuse	0	0	1	11	6	0	0	0	9	0	0	0	28
	1051 IN - Concrete	Landfilled	0	0	0	0	0	0	2	2	1	183	7	1	196
	1051.1 IN - Concrete Stockpiled	stockpiled/Reuse	0	7	13	5	8	54	2	10	6	0	4	4	113
	1019 IN - Litter	Landfill	0	2	4	0	1	0	0	0	0	0	0	0	6
	1026 IN - Dead Animals	Landfill	0	0	0	0	0	0	0	0	0	0	3	0	4
	1060 IN - 1/2 Waiver	Landfill	0	0	0	0	0	0	148	0	0	0	0	0	148
	1082 IN - Full Waiver	Landfill	0	0	0	5	25	0	0	0	0	6	0	0	37
BULKY OBJECTS	1112 IN - Adopt a Road Litter	Landfill	0	0	0	0	0	0	0	0	0	0	0	0	0
	1142 IN - Street Sweepings	Landfill	10	20	16	11	44	34	16	28	22	30	25	35	290
	1012 IN - Treatment Plant Sludge	Landfill	205	343	381	447	482	412	514	624	374	490	223	305	4800
	1012.1 IN - Grits & Screenings	Landfill	0	0	7	0	0	0	0	0	0	0	4	0	11
	1055 IN - Boat	Landfill	0	0	1	3	4	0	7	4	1	12	0	1	35
	1059 IN - Mobile Home	Landfill	0	0	0	0	0	0	0	1	0	0	0	0	1
	1145 IN - Special Handling Wastes	Landfill	0	0	0	0	0	0	0	0	0	0	0	0	0
	1143 IN - Carpet	Landfill	4	7	6	5	6	10	3	6	7	6	7	7	74
	1014 IN - Asbestos	Landfill	0	0	0	0	0	0	0	0	0	0	0	0	0
	1020 IN - Contaminated Soil	Landfill	0	0	0	0	0	0	0	0	0	0	0	0	0
CONTAMINATED MATERIAL	1061 IN - Stall Waste	Landfill	0	0	0	0	0	0	0	0	0	0	0	0	0
	1052 OUT - Tires	WTE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NON MRA RECYCLABLES	SWM METHOD													42620
NON MRA RECYCLABLES	1119 OUT - Motor Oil	Recycle	1	5	3	7	5	2	5	3	1	6	3	3	44
	1136 OUT - Antifreeze	Recycle	2	0	0	0	2	0	0	3	0	0	0	0	8
	1137 OUT - Refrigerant (Freon)	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	0
	1127 OUT - Vegetable Oil	Recycle	0	0	0	0	0	0	0	0	0	0	1	0	1
	1111 OUT - Propane tanks	Recycle	0	0	0	0	3	0	0	0	0	0	0	0	3
	1009 IN - Stumps & Logs	Recycle	16	38	111	83	45	41	134	116	38	13	31	35	700
	MRA RECYCLABLES	SWM METHOD													756
WEEKLY YARD WASTE	1138 - Processed Mulch	Recycle	166	143	713	570	594	150	594	125	100	0	396	119	3670
	1046 IN - Compost & 1046.1	Recycle	0	184	84	0	125	56	198	244	1503	409	439	945	4187
	Stockpiled Leaves & Grassclippings & Compost	Recycle	0	0	0	0	0	0	0	0	0	1447	0	0	1447
	1096 IN - Pallets	Recycle	1	1	0	0	3	0	0	3	0	1	1	0	10
	1025 IN - Sod	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	0
	1146 IN - Woodchips	Recycle	2	0	58	14	28	8	4	36	34	67	17	2	271
	1097 OUT - Single Stream Recycling leaving CLF	Recycle	287	265	285	256	317	302	310	287	235	253	304	341	3442
	OUT - Shredded Paper	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	0
	1053 OUT - Lead Acid Batteries or 1053.2	Recycle	0	1	0	2	1	0	1	3	1	1	1	1	12
	1120 OUT - Household Batteries	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	0
BATTERIES	1121 OUT - Rechargeable Batteries	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	1
	1117 OUT - Textiles	Recycle	0	0	0	0	0	0	1	0	0	0	0	1	3
	1044 OUT - Scrap Metal / Appliances & 1044.2	Recycle	18	15	17	34	36	33	51	25	44	19	25	25	341
METALS	1044.1 OUT - Roads Scrap Metal	Recycle	13	0	0	0	10	0	0	7	7	0	0	13	50
	1116 OUT - Metal Tire Rims #1 Steel	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	0
	1116.2 OUT - Aluminum Rims & 1116.2 Al bk rims	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	0
	1130 OUT - Oil Filters	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	1
	1124 OUT - Mercury Thermostats	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	0
	1126 OUT - Corks	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	0
E-WASTE	1088 OUT - Electronics	Recycle	0	0	0	5	0	0	5	0	5	0	5	0	19
	1139 OUT - Printer Cartridges	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	0
	1101 OUT - Vinyl Siding	Recycle	0	0	0	0	3	6	0	4	0	3	0	3	17
TIRES	1052 OUT - Tires (Recycled)	Recycle	13	6	29	13	15	9	26	13	19	14	15	16	188
	1098 OUT - Citizen Scrap Tires (Recycled)+AG Tires														
	1032.4 1032.5	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	0
	1125 OUT- Eyewear	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	0
	1123 OUT - Latex Paint (Recycled)	Recycle	1	2	3	3	2	2	2	2	2	2	2	2	25
	1118 OUT - Fluorescent Lamps	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	1
	1122 OUT - Bra Recycling	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	0
TIRES	1132 OUT - Polystyrene	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	2
	9000 OUT - Govdeals auction	Recycle/ Reuse	0	0	1	0	1	0	0	0	1	0	2	1	5
MONTHLY TOTAL WASTE			6308	7498	7423	8205	9735	10566	9104	9554	10033	11284	9041	11958	110708

Total waste disposal reported for 2018 analysis: 93,381.46 tons

SECTION B. Waste-to-Energy/Incinerator Facilities ONLY

1. Tonnage of MSW ash generated from solid waste accepted at facility:
2. Tonnage of Non-MSW ash generated from solid waste accepted at facility:
3. Tonnage of by-pass generated from solid waste accepted at facility:

	n/a
	n/a
	n/a

SECTION C. Total Amount of Waste Managed at Facility in 2019

TOTAL IN TABLE A1	195,857.71	A1
MSW ASH GENERATED (WTE ONLY)	n/a	B1
NON-MSW ASH GENERATED (WTE ONLY)	n/a	B2
BY-PASS GENERATED (WTE ONLY)	n/a	B3
Stored Waste from Previous Year *	13,940.00	C1
GRAND TOTAL (A1+B1+B2+B3+C1) ^	209,797.71	C2

* Means the waste that was temporarily stockpiled at the site in the previous year but wasn't managed until the current year. See Section C for instructions and additional information.

^ The total reported in C2 MUST equal the total tons reported in Section D (See Section E).

SECTION D. Methods of Solid Waste Management**Table D1 – On-Site Management (In Tons)**

	Landfilled	Incinerated	Projects at Landfills ^	Stored	Reused (RU) or Recycled (RC) or Composted/Mulched (CM)	TOTAL
MSW	70,590.89				RU RC CM	70,590.89
MSW Ash ¹	0				RU RC CM	0.00
Non-MSW Ash ¹	0				RU RC CM	0.00
Asbestos	0.04				RU RC CM	0.04
Asphalt	24			272	RU RC CM	296.00
C&D ¹	22,022				RU RC CM	22,022.00
Concrete ¹	887.00			316.00	RU RC CM	1,203.00
Industrial	0				RU RC CM	0.00
LCD	0				RU RC CM	0.00

Front-end Scrap Metal ¹	0					RU	0.00
						RC	
						CM	
Back-end Scrap Metal ¹	0					RU	0.00
						RC	
						CM	
Scrap Metal ¹	0					RU	0.00
						RC	
						CM	
Scrap Tires	0					RU	0.00
						RC	
						CM	
Sewage Sludge	4599.00					RU	4,599.00
						RC	
						CM	
Soil	4190.35			79797.65		RU	97,928.00
						RC	
						CM	
Special Medical Waste	0					RU	0.00
						RC	
						CM	
Stored Waste (C1)	0				13,799.00	RU	#REF!
					141.00	RC	
						CM	
Other 1*: [list] LATEX SOLID/ LATEX RU/ WOODCHIPS	25.00				27.00	RU	120.00
						RC	
					68.00	CM	
Other 2*: [list] BULKY OBJECTS & LITTER	122.07					RU	122.07
						RC	
						CM	
Other 3*: [list] PALLETS						RU	25.00
						RC	
					25.00	CM	
Other 4*: [list] TEXTILES RU, YARD WASTE						RU	8,215.00
						RC	
					8,215.00	CM	
Other 5*: [list]						RU	0.00
						RC	
						CM	
TOTAL TONS (D1)	102,460.35	0.00	0.00	80,385.65	13,826.00	RU	205,121.00
					141.00	RC	
					8,308.00	CM	

^ Means the use of solid waste or other materials for projects at landfills (e.g. , daily cover, road construction, etc.).

¹ See Section D for definitions and additional information.

* Includes materials such as, but not limited to, white goods, compost, wood waste, yard waste, food waste, electronics, pallets, by-pass, and textiles. See Section D for definitions and additional

Total Waste Landfilled in 2019 (omitting non-putrescible items such as soil, concrete waste, asphalt, latex and asbestos) = 97333.96 tons

SECTION B. Waste-to-Energy/Incinerator Facilities ONLY

1. Tonnage of MSW ash generated from solid waste accepted at facility:
2. Tonnage of Non-MSW ash generated from solid waste accepted at facility:
3. Tonnage of by-pass generated from solid waste accepted at facility:

	n/a
	n/a
	n/a

SECTION C. Total Amount of Waste Managed at Facility in 2020

TOTAL IN TABLE A1	199,880	A1
MSW ASH GENERATED (WTE ONLY)	n/a	B1
NON-MSW ASH GENERATED (WTE ONLY)	n/a	B2
BY-PASS GENERATED (WTE ONLY)	n/a	B3
Stored Waste from Previous Year *	80,386.00	C1
GRAND TOTAL (A1+B1+B2+B3+C1) ^	280,266	C2

* Means the waste that was temporarily stockpiled at the site in the previous year but wasn't managed until the current year. See Section C for instructions and additional information.

^ The total reported in C2 MUST equal the total tons reported in Section D (See Section E).

SECTION D. Methods of Solid Waste Management**Table D1 – On-Site Management (In Tons)**

	Landfilled	Incinerated	Projects at Landfills ^	Stored	Reused (RU) or Recycled (RC) or Composted/Mulched (CM)	TOTAL
MSW	73094				RU RC CM	73,094.00
MSW Ash ¹	0				RU RC CM	0.00
Non-MSW Ash ¹	0				RU RC CM	0.00
Asbestos	3.00				RU RC CM	3.00
Asphalt	11			27	RU RC CM	38.00
C&D ¹	24,773				RU RC CM	24,773.00
Concrete ¹	16			288	RU RC CM	304.00
Industrial	0				RU RC CM	0.00
LCD	0				RU RC CM	0.00

Front-end Scrap Metal ¹	0					RU	0.00
						RC	
						CM	
Back-end Scrap Metal ¹	0					RU	0.00
						RC	
						CM	
Scrap Metal ¹	0					RU	0.00
						RC	
						CM	
Scrap Tires	0					RU	0.00
						RC	
						CM	
Sewage Sludge	4447					RU	4,447.00
						RC	
						CM	
Soil	4083			83520		RU	87,603.00
						RC	
						CM	
Special Medical Waste	0					RU	0.00
						RC	
						CM	
Stored Waste (C1)	0				79,798	RU	80,386.00
					588.00	RC	
						CM	
Other 1*: [list] LATEX SOLID/ LATEX RU/ WOODCHIPS	21.00					RU	21.00
						RC	
						CM	
Other 2*: [list] BULKY OBJECTS & LITTER	159.00					RU	159.00
						RC	
						CM	
Other 3*: [list] PALLETS	0					RU	0.00
						RC	
						CM	
Other 4*: [list] TEXTILES RU, YARD WASTE						RU	4,847.00
						RC	
					4,847.00	CM	
Other 5*: [list]						RU	0.00
						RC	
						CM	
TOTAL TONS (D1)	106,607.00	0.00	0.00	83,835.00	79,798.00	RU	275,675.00
					588.00	RC	
					4,847.00	CM	

^ Means the use of solid waste or other materials for projects at landfills (e.g. , daily cover, road construction, etc.).

¹ See Section D for definitions and additional information.

* Includes materials such as, but not limited to, white goods, compost, wood waste, yard waste, food waste, electronics, pallets, by-pass, and textiles. See Section D for definitions and additional

Total Waste Landfilled in 2020 (omitting non-putrescible items such as soil, concrete waste, asphalt, latex and asbestos) = 102,473 tons

SECTION B. Waste-to-Energy/Incinerator Facilities ONLY

1. Tonnage of MSW ash generated from solid waste accepted at facility:
2. Tonnage of Non-MSW ash generated from solid waste accepted at facility:
3. Tonnage of by-pass generated from solid waste accepted at facility:

	n/a
	n/a
	n/a

SECTION C. Total Amount of Waste Managed at Facility in 2021

TOTAL IN TABLE A1	208,303.00	A1
MSW ASH GENERATED (WTE ONLY)	n/a	B1
NON-MSW ASH GENERATED (WTE ONLY)	n/a	B2
BY-PASS GENERATED (WTE ONLY)	n/a	B3
Stored Waste from Previous Year *	83,835.00	C1
GRAND TOTAL (A1+B1+B2+B3+C1) ^	292,138.00	C2

* Means the waste that was temporarily stockpiled at the site in the previous year but wasn't managed until the current year. See Section C for instructions and additional information.

^ The total reported in C2 MUST equal the total tons reported in Section D (See Section E).

SECTION D. Methods of Solid Waste Management**Table D1 – On-Site Management (In Tons)**

	Landfilled	Incinerated	Projects at Landfills ^	Stored	Reused (RU) or Recycled (RC) or Composted/Mulched (CM)	TOTAL
MSW	81,698.00				RU RC CM	81,698.00
MSW Ash ¹	0				RU RC CM	0.00
Non-MSW Ash ¹	0				RU RC CM	0.00
Asbestos	1				RU RC CM	1.00
Asphalt	30			593	RU RC CM	623.00
C&D ¹	27,166				RU RC CM	27,166.00
Concrete ¹	61			367	RU RC CM	428.00
Industrial	0				RU RC CM	0.00
LCD	0				RU RC CM	0.00

Front-end Scrap Metal ¹	0					RU	0.00
						RC	
						CM	
Back-end Scrap Metal ¹	0					RU	0.00
						RC	
						CM	
Scrap Metal ¹	0					RU	0.00
						RC	
						CM	
Scrap Tires	0					RU	0.00
						RC	
						CM	
Sewage Sludge	6,001					RU	6,001.00
						RC	
						CM	
Soil	4596			76620		RU	81,216.00
						RC	
						CM	
Special Medical Waste						RU	0.00
						RC	
						CM	
Stored Waste (C1)	0				315	RU	83,835.00
					83,520	RC	
						CM	
Other 2*: [list] BULKY OBJECTS & LITTER	178					RU	178.00
						RC	
						CM	
Other 3*: [list] PALLETS	0					RU	0.00
						RC	
						CM	
Other 4*: [list] YARD WASTE						RU	5,490.00
						RC	
					5,490	CM	
Other 5*: [list]						RU	0.00
						RC	
						CM	
						RU	0.00
						RC	
						CM	
TOTAL TONS (D1)	119,731.00	0.00	0.00	77,580.00	315.00	RU	286,636.00
					83,520.00	RC	
					5,490.00	CM	

^ Means the use of solid waste or other materials for projects at landfills (e.g., daily cover, road construction, etc.).

¹ See Section D for definitions and additional information.

* Includes materials such as, but not limited to, white goods, compost, wood waste, yard waste, food waste, electronics, pallets, by-pass, and textiles. See Section D for definitions and additional

Total Waste Landfilled in 2021 (omitting non-putrescible items such as soil, concrete waste, asphalt, latex and asbestos) = 115,043 tons

SECTION B. Waste-to-Energy/Incinerator Facilities ONLY

1. Tonnage of MSW ash generated from solid waste accepted at facility:
2. Tonnage of Non-MSW ash generated from solid waste accepted at facility:
3. Tonnage of by-pass generated from solid waste accepted at facility:

	N/A
	N/A
	N/A

SECTION C. Total Amount of Waste Managed at Facility in 2022

TOTAL IN TABLE A1	251,512.00	A1
MSW ASH GENERATED (WTE ONLY)	N/A	B1
NON-MSW ASH GENERATED (WTE ONLY)	N/A	B2
BY-PASS GENERATED (WTE ONLY)	N/A	B3
Stored Waste from Previous Year *	77,580.00	C1
GRAND TOTAL (A1+B1+B2+B3+C1) ^	329,092.00	C2

* Means the waste that was temporarily stockpiled at the site in the previous year but wasn't managed until the current year. See Section C for instructions and additional information.

^ The total reported in C2 MUST equal the total tons reported in Section D (See Section E).

SECTION D. Methods of Solid Waste Management**Table D1 – On-Site Management (In Tons)**

	Landfilled	Incinerated	Projects at Landfills ^	Stored	Reused (RU) or Recycled (RC) or Composted/Mulched (CM)	TOTAL
MSW	83,037.00				RU RC CM	83,037.00
MSW Ash ¹	0				RU RC CM	0.00
Non-MSW Ash ¹	0				RU RC CM	0.00
Asbestos	2				RU RC CM	2.00
Asphalt	37			448	RU RC CM	485.00
C&D ¹	23,093				RU RC CM	23,093.00
Concrete ¹	47			934	RU RC CM	981.00
Industrial	0				RU RC CM	0.00
LCD	0				RU RC CM	0.00

Front-end Scrap Metal ¹	0					RU	0.00
						RC	
						CM	
Back-end Scrap Metal ¹	0					RU	0.00
						RC	
						CM	
Scrap Metal ¹	0					RU	0.00
						RC	
						CM	
Scrap Tires	0					RU	0.00
						RC	
						CM	
Sewage Sludge	4,949					RU	4,949.00
						RC	
						CM	
Soil	3158			126496		RU	129,654.00
						RC	
						CM	
Special Medical Waste						RU	0.00
						RC	
						CM	
Stored Waste (C1)	0				960.00	RU	77,580.00
					76,620.00	RC	
						CM	
Other 1*: [list] BULKY OBJECTS & LITTER	122					RU	122.00
						RC	
						CM	
Other 2*: [list] PALLETES	0					RU	0.00
						RC	
						CM	
Other 3*: [list] YARD WASTE						RU	3,544.00
						RC	
					3,544.00	CM	
Other 4*: [list]						RU	0.00
						RC	
						CM	
Other 5*: [list]						RU	0.00
						RC	
						CM	
TOTAL TONS (D1)	114,445.00	0.00	0.00	127,878.00	960.00	RU	323,447.00
					76,620.00	RC	
					3,544.00	CM	

^ Means the use of solid waste or other materials for projects at landfills (e.g. , daily cover, road construction, etc.).

¹ See Section D for definitions and additional information.

* Includes materials such as, **but not limited to**, white goods, compost, wood waste, yard waste, food waste, electronics, pallets, by-pass, and textiles. See Section D for definitions and additional

Total Waste Landfilled in 2022 (omitting non-putrescible items such as soil, concrete waste, asphalt, latex and asbestos) = 111,201 tons

SECTION B. Waste-to-Energy/Incinerator Facilities ONLY

1. Tonnage of MSW ash generated from solid waste accepted at facility:
2. Tonnage of Non-MSW ash generated from solid waste accepted at facility:
3. Tonnage of by-pass generated from solid waste accepted at facility:

	N/A
	N/A
	N/A

SECTION C. Total Amount of Waste Managed at Facility in 2022

TOTAL IN TABLE A1	176,378.00	A1
MSW ASH GENERATED (WTE ONLY)	N/A	B1
NON-MSW ASH GENERATED (WTE ONLY)	N/A	B2
BY-PASS GENERATED (WTE ONLY)	N/A	B3
Stored Waste from Previous Year *	127,878.00	C1
GRAND TOTAL (A1+B1+B2+B3+C1) ^	304,256.00	C2

* Means the waste that was temporarily stockpiled at the site in the previous year but wasn't managed until the current year. See Section C for instructions and additional information.

^ The total reported in C2 MUST equal the total tons reported in Section D (See Section E).

SECTION D. Methods of Solid Waste Management

Table D1 – On-Site Management (In Tons)

	Landfilled	Incinerated	Projects at Landfills ^	Stored	Reused (RU) or Recycled (RC) or Composted/Mulched (CM)	TOTAL
MSW	75,844.90				RU	75,844.90
					RC	
					CM	
MSW Ash ¹	0				RU	0.00
					RC	
					CM	
Non-MSW Ash ¹	0				RU	0.00
					RC	
					CM	
Asbestos	1				RU	1.00
					RC	
					CM	
Asphalt	70.4			325.6	RU	396.00
					RC	
					CM	
C&D ¹	22,760.2				RU	22,760.20
					RC	
					CM	
Concrete ¹	26.2			270	RU	295.80
					RC	
					CM	
Industrial	0				RU	0.00
					RC	
					CM	
LCD	0				RU	0.00
					RC	
					CM	

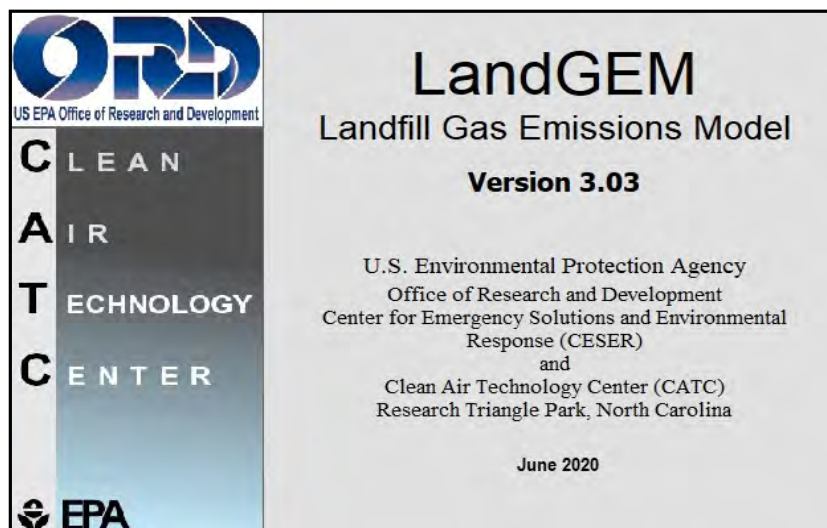
Front-end Scrap Metal ¹	0					RU	0.00
						RC	
						CM	
Back-end Scrap Metal ¹	0					RU	0.00
						RC	
						CM	
Scrap Metal ¹	0					RU	0.00
						RC	
						CM	
Scrap Tires	0					RU	0.00
						RC	
						CM	
Sewage Sludge	4888.2					RU	4,888.20
						RC	
						CM	
Soil	3698.2			59061.6		RU	62,759.80
						RC	
						CM	
Special Medical Waste						RU	0.00
						RC	
						CM	
Stored Waste (C1)	0				1,382.00	RU	127,878.00
					126,496.00	RC	
						CM	
Other 1*: [list] BULKY OBJECTS & LITTER	133.6					RU	133.60
						RC	
						CM	
Other 2*: [list] PALLETS	0					RU	0.00
						RC	
						CM	
Other 3*: [list] YARD WASTE						RU	2,741.60
						RC	
					2,741.60	CM	
Other 4*: [list] WOOD CHIPS						RU	1,212.00
						RC	
					1,212.00	CM	
Other 5*: [list]						RU	0.00
						RC	
						CM	
TOTAL TONS (D1)	107,422.70	0.00	0.00	59,656.80	1,382.00	RU	298,911.10
					126,496.00	RC	
					3,953.60	CM	

^A Means the use of solid waste or other materials for projects at landfills (e.g., daily cover, road construction, etc.).

¹ See Section D for definitions and additional information.

* Includes materials such as, but not limited to, white goods, compost, wood waste, yard waste, food waste, electronics, pallets, by-pass, and textiles. See Section D for definitions and additional

Total Waste Landfilled in 2023 (omitting non-putrescible items such as soil, concrete waste, asphalt, and asbestos)
= 103,626.9 tons



Summary Report

Landfill Name or Identifier: Cecil County Central Landfill

Date: Thursday, March 28, 2024

Description/Comments:

About LandGEM:

First-Order Decomposition Rate Equation:

$$Q_{CH_4} = \sum_{i=1}^n \sum_{j=0.1}^1 k L_o \left(\frac{M_i}{10} \right) e^{-k t_{ij}}$$

Where,

Q_{CH_4} = annual methane generation in the year of the calculation ($m^3/year$)

i = 1-year time increment

n = (year of the calculation) - (initial year of waste acceptance)

j = 0.1-year time increment

k = methane generation rate ($year^{-1}$)

L_o = potential methane generation capacity (m^3/Mg)

M_i = mass of waste accepted in the i^{th} year (Mg)

t_{ij} = age of the j^{th} section of waste mass M_i accepted in the i^{th} year
(decimal years, e.g., 3.2 years)

LandGEM is based on a first-order decomposition rate equation for quantifying emissions from the decomposition of landfilled waste in municipal solid waste (MSW) landfills. The software provides a relatively simple approach to estimating landfill gas emissions. Model defaults are based on empirical data from U.S. landfills. Field test data can also be used in place of model defaults when available. Further guidance on EPA test methods, Clean Air Act (CAA) regulations, and other guidance regarding landfill gas emissions and control technology requirements can be found at <http://www.epa.gov/ttnatw01/landfill/landflpg.html>.

LandGEM is considered a screening tool — the better the input data, the better the estimates. Often, there are limitations with the available data regarding waste quantity and composition, variation in design and operating practices over time, and changes occurring over time that impact the emissions potential. Changes to landfill operation, such as operating under wet conditions through leachate recirculation or other liquid additions, will result in generating more gas at a faster rate. Defaults for estimating emissions for this type of operation are being developed to include in LandGEM along with defaults for conventional landfills (no leachate or liquid additions) for developing emission inventories and determining CAA applicability. Refer to the Web site identified above for future updates.

Input Review

LANDFILL CHARACTERISTICS

Landfill Open Year	1978	
Landfill Closure Year (with 80-year limit)	2023	
Actual Closure Year (without limit)	2023	
Have Model Calculate Closure Year?	No	
Waste Design Capacity	3,830,388	<i>short tons</i>

MODEL PARAMETERS

Methane Generation Rate, k	0.040	<i>year⁻¹</i>
Potential Methane Generation Capacity, L ₀	100	<i>m³/Mg</i>
NMOC Concentration	355	<i>ppmv as hexane</i>
Methane Content	50	<i>% by volume</i>

GASES / POLLUTANTS SELECTED

Gas / Pollutant #1:	Total landfill gas
Gas / Pollutant #2:	Methane
Gas / Pollutant #3:	Carbon dioxide
Gas / Pollutant #4:	NMOC

WASTE ACCEPTANCE RATES

Year	Waste Accepted		Waste-In-Place	
	(Mg/year)	(short tons/year)	(Mg)	(short tons)
1978	52,908	58,198	0	0
1979	53,623	58,985	52,908	58,198
1980	53,623	58,985	106,530	117,183
1981	54,338	59,771	160,153	176,168
1982	55,053	60,558	214,491	235,940
1983	55,053	60,558	269,543	296,498
1984	55,768	61,344	324,596	357,056
1985	56,483	62,131	380,364	418,400
1986	56,483	62,131	436,846	480,531
1987	57,198	62,917	493,329	542,662
1988	57,198	62,917	550,526	605,579
1989	59,342	65,277	607,724	668,496
1990	58,627	64,490	667,066	733,773
1991	65,460	72,006	725,694	798,263
1992	63,737	70,111	791,154	870,269
1993	65,460	72,006	854,891	940,380
1994	64,599	71,059	920,351	1,012,386
1995	60,292	66,321	984,950	1,083,445
1996	58,569	64,426	1,045,242	1,149,766
1997	59,431	65,374	1,103,811	1,214,193
1998	64,599	71,059	1,163,242	1,279,566
1999	63,819	70,201	1,227,841	1,350,625
2000	69,485	76,433	1,291,660	1,420,826
2001	72,092	79,301	1,361,145	1,497,259
2002	66,198	72,818	1,433,236	1,576,560
2003	88,234	97,057	1,499,434	1,649,378
2004	102,373	112,610	1,587,668	1,746,435
2005	121,591	133,750	1,690,041	1,859,045
2006	150,687	165,756	1,811,632	1,992,795
2007	111,532	122,685	1,962,319	2,158,551
2008	99,145	109,060	2,073,851	2,281,236
2009	91,343	100,477	2,172,996	2,390,296
2010	80,357	88,393	2,264,339	2,490,773
2011	79,107	87,018	2,344,696	2,579,166
2012	74,671	82,138	2,423,803	2,666,184
2013	87,533	96,286	2,498,474	2,748,322
2014	86,152	94,767	2,586,007	2,844,608
2015	79,654	87,619	2,672,159	2,939,375
2016	80,677	88,745	2,751,813	3,026,994
2017	83,263	91,589	2,832,490	3,115,739

WASTE ACCEPTANCE RATES (Continued)

Year	Waste Accepted		Waste-In-Place	
	(Mg/year)	(short tons/year)	(Mg)	(short tons)
2018	84,892	93,381	2,915,753	3,207,328
2019	88,485	97,334	3,000,645	3,300,710
2020	93,157	102,473	3,089,131	3,398,044
2021	104,585	115,043	3,182,288	3,500,517
2022	101,092	111,201	3,286,872	3,615,560
2023	94,206	103,627	3,387,964	3,726,761
2024	0	0	3,482,171	3,830,388
2025	0	0	3,482,171	3,830,388
2026	0	0	3,482,171	3,830,388
2027	0	0	3,482,171	3,830,388
2028	0	0	3,482,171	3,830,388
2029	0	0	3,482,171	3,830,388
2030	0	0	3,482,171	3,830,388
2031	0	0	3,482,171	3,830,388
2032	0	0	3,482,171	3,830,388
2033	0	0	3,482,171	3,830,388
2034	0	0	3,482,171	3,830,388
2035	0	0	3,482,171	3,830,388
2036	0	0	3,482,171	3,830,388
2037	0	0	3,482,171	3,830,388
2038	0	0	3,482,171	3,830,388
2039	0	0	3,482,171	3,830,388
2040	0	0	3,482,171	3,830,388
2041	0	0	3,482,171	3,830,388
2042	0	0	3,482,171	3,830,388
2043	0	0	3,482,171	3,830,388
2044	0	0	3,482,171	3,830,388
2045	0	0	3,482,171	3,830,388
2046	0	0	3,482,171	3,830,388
2047	0	0	3,482,171	3,830,388
2048	0	0	3,482,171	3,830,388
2049	0	0	3,482,171	3,830,388
2050	0	0	3,482,171	3,830,388
2051	0	0	3,482,171	3,830,388
2052	0	0	3,482,171	3,830,388
2053	0	0	3,482,171	3,830,388
2054	0	0	3,482,171	3,830,388
2055	0	0	3,482,171	3,830,388
2056	0	0	3,482,171	3,830,388
2057	0	0	3,482,171	3,830,388

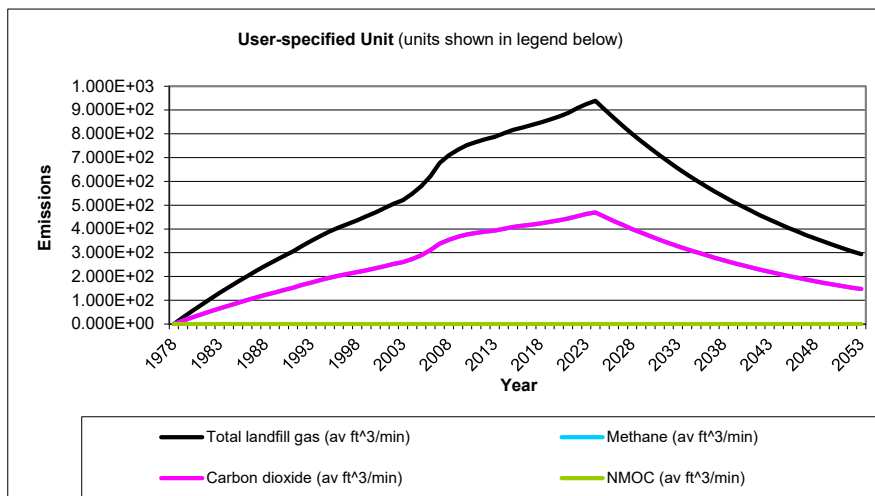
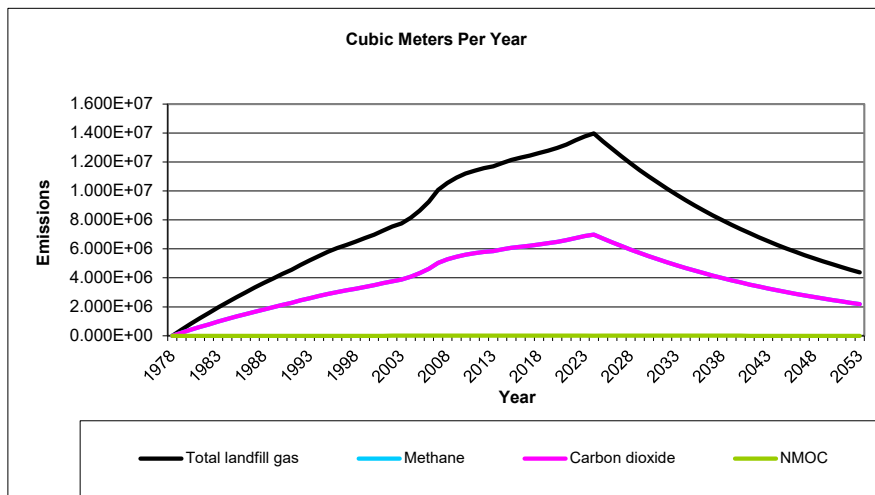
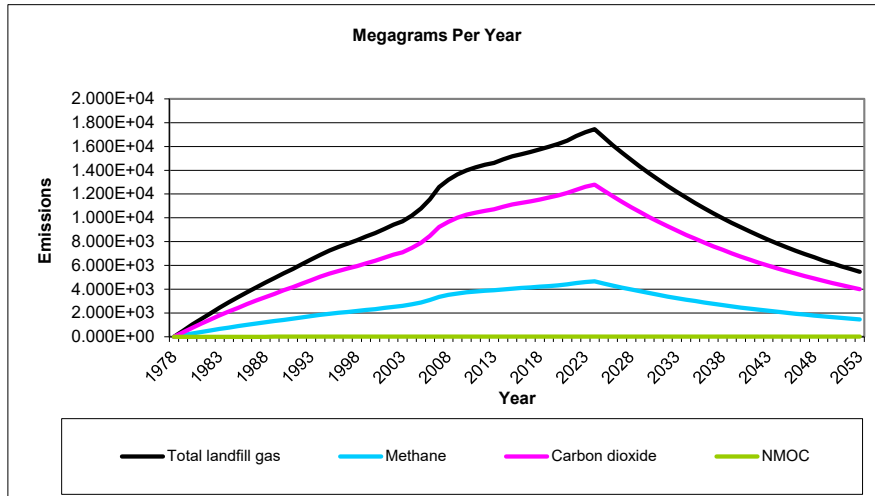
Pollutant Parameters

Gas / Pollutant Default Parameters:				User-specified Pollutant Parameters:	
	Compound	Concentration (ppmv)	Molecular Weight	Concentration (ppmv)	Molecular Weight
Gases	Total landfill gas		0.00		
	Methane		16.04		
	Carbon dioxide		44.01		
	NMOC		86.18		
Pollutants	1,1,1-Trichloroethane (methyl chloroform) - HAP	0.48	133.41		
	1,1,2,2-Tetrachloroethane - HAP/VOC	1.1	167.85		
	1,1-Dichloroethane (ethylidene dichloride) - HAP/VOC	2.4	98.97		
	1,1-Dichloroethene (vinylidene chloride) - HAP/VOC	0.20	96.94		
	1,2-Dichloroethane (ethylene dichloride) - HAP/VOC	0.41	98.96		
	1,2-Dichloropropane (propylene dichloride) - HAP/VOC	0.18	112.99		
	2-Propanol (isopropyl alcohol) - VOC	50	60.11		
	Acetone	7.0	58.08		
	Acrylonitrile - HAP/VOC	6.3	53.06		
	Benzene - No or Unknown Co-disposal - HAP/VOC	1.9	78.11		
	Benzene - Co-disposal - HAP/VOC	11	78.11		
	Bromodichloromethane - VOC	3.1	163.83		
	Butane - VOC	5.0	58.12		
	Carbon disulfide - HAP/VOC	0.58	76.13		
	Carbon monoxide	140	28.01		
	Carbon tetrachloride - HAP/VOC	4.0E-03	153.84		
	Carbonyl sulfide - HAP/VOC	0.49	60.07		
	Chlorobenzene - HAP/VOC	0.25	112.56		
	Chlorodifluoromethane	1.3	86.47		
	Chloroethane (ethyl chloride) - HAP/VOC	1.3	64.52		
	Chloroform - HAP/VOC	0.03	119.39		
	Chloromethane - VOC	1.2	50.49		
	Dichlorobenzene - (HAP for para isomer/VOC)	0.21	147		
	Dichlorodifluoromethane	16	120.91		
	Dichlorofluoromethane - VOC	2.6	102.92		
	Dichloromethane (methylene chloride) - HAP	14	84.94		
	Dimethyl sulfide (methyl sulfide) - VOC	7.8	62.13		
	Ethane	890	30.07		
	Ethanol - VOC	27	46.08		

Pollutant Parameters (Continued)

Gas / Pollutant Default Parameters:				User-specified Pollutant Parameters:	
	Compound	Concentration (ppmv)	Molecular Weight	Concentration (ppmv)	Molecular Weight
Pollutants	Ethyl mercaptan (ethanethiol) - VOC	2.3	62.13		
	Ethylbenzene - HAP/VOC	4.6	106.16		
	Ethylene dibromide - HAP/VOC	1.0E-03	187.88		
	Fluorotrichloromethane - VOC	0.76	137.38		
	Hexane - HAP/VOC	6.6	86.18		
	Hydrogen sulfide	36	34.08		
	Mercury (total) - HAP	2.9E-04	200.61		
	Methyl ethyl ketone - HAP/VOC	7.1	72.11		
	Methyl isobutyl ketone - HAP/VOC	1.9	100.16		
	Methyl mercaptan - VOC	2.5	48.11		
	Pentane - VOC	3.3	72.15		
	Perchloroethylene (tetrachloroethylene) - HAP	3.7	165.83		
	Propane - VOC	11	44.09		
	t-1,2-Dichloroethene - VOC	2.8	96.94		
	Toluene - No or Unknown Co-disposal - HAP/VOC	39	92.13		
	Toluene - Co-disposal - HAP/VOC	170	92.13		
	Trichloroethylene (trichloroethene) - HAP/VOC	2.8	131.40		
	Vinyl chloride - HAP/VOC	7.3	62.50		
	Xylenes - HAP/VOC	12	106.16		

Graphs



Results

Year	Total landfill gas			Methane		
	(Mg/year)	(m ³ /year)	(av ft ³ /min)	(Mg/year)	(m ³ /year)	(av ft ³ /min)
1978	0	0	0	0	0	0
1979	5.192E+02	4.157E+05	2.793E+01	1.387E+02	2.079E+05	1.397E+01
1980	1.025E+03	8.208E+05	5.515E+01	2.738E+02	4.104E+05	2.757E+01
1981	1.511E+03	1.210E+06	8.130E+01	4.036E+02	6.050E+05	4.065E+01
1982	1.985E+03	1.589E+06	1.068E+02	5.302E+02	7.947E+05	5.340E+01
1983	2.447E+03	1.960E+06	1.317E+02	6.537E+02	9.799E+05	6.584E+01
1984	2.892E+03	2.316E+06	1.556E+02	7.724E+02	1.158E+06	7.779E+01
1985	3.326E+03	2.663E+06	1.789E+02	8.883E+02	1.331E+06	8.946E+01
1986	3.749E+03	3.002E+06	2.017E+02	1.002E+03	1.501E+06	1.009E+02
1987	4.157E+03	3.328E+06	2.236E+02	1.110E+03	1.664E+06	1.118E+02
1988	4.555E+03	3.647E+06	2.451E+02	1.217E+03	1.824E+06	1.225E+02
1989	4.938E+03	3.954E+06	2.657E+02	1.319E+03	1.977E+06	1.328E+02
1990	5.326E+03	4.265E+06	2.866E+02	1.423E+03	2.133E+06	1.433E+02
1991	5.693E+03	4.559E+06	3.063E+02	1.521E+03	2.279E+06	1.531E+02
1992	6.112E+03	4.894E+06	3.288E+02	1.633E+03	2.447E+06	1.644E+02
1993	6.498E+03	5.203E+06	3.496E+02	1.736E+03	2.602E+06	1.748E+02
1994	6.885E+03	5.513E+06	3.704E+02	1.839E+03	2.757E+06	1.852E+02
1995	7.249E+03	5.805E+06	3.900E+02	1.936E+03	2.902E+06	1.950E+02
1996	7.557E+03	6.051E+06	4.066E+02	2.018E+03	3.026E+06	2.033E+02
1997	7.835E+03	6.274E+06	4.215E+02	2.093E+03	3.137E+06	2.108E+02
1998	8.111E+03	6.495E+06	4.364E+02	2.167E+03	3.247E+06	2.182E+02
1999	8.427E+03	6.748E+06	4.534E+02	2.251E+03	3.374E+06	2.267E+02
2000	8.723E+03	6.985E+06	4.693E+02	2.330E+03	3.492E+06	2.347E+02
2001	9.063E+03	7.257E+06	4.876E+02	2.421E+03	3.628E+06	2.438E+02
2002	9.415E+03	7.539E+06	5.065E+02	2.515E+03	3.769E+06	2.533E+02
2003	9.695E+03	7.763E+06	5.216E+02	2.590E+03	3.882E+06	2.608E+02
2004	1.018E+04	8.152E+06	5.478E+02	2.719E+03	4.076E+06	2.739E+02
2005	1.079E+04	8.637E+06	5.803E+02	2.881E+03	4.319E+06	2.902E+02
2006	1.156E+04	9.254E+06	6.218E+02	3.087E+03	4.627E+06	3.109E+02
2007	1.258E+04	1.008E+07	6.769E+02	3.361E+03	5.038E+06	3.385E+02
2008	1.318E+04	1.056E+07	7.093E+02	3.521E+03	5.278E+06	3.546E+02
2009	1.364E+04	1.092E+07	7.338E+02	3.643E+03	5.461E+06	3.669E+02
2010	1.400E+04	1.121E+07	7.533E+02	3.740E+03	5.606E+06	3.766E+02
2011	1.424E+04	1.140E+07	7.662E+02	3.804E+03	5.701E+06	3.831E+02
2012	1.446E+04	1.158E+07	7.779E+02	3.862E+03	5.789E+06	3.889E+02
2013	1.462E+04	1.171E+07	7.868E+02	3.906E+03	5.855E+06	3.934E+02
2014	1.491E+04	1.194E+07	8.022E+02	3.982E+03	5.969E+06	4.011E+02
2015	1.517E+04	1.215E+07	8.162E+02	4.052E+03	6.074E+06	4.081E+02
2016	1.536E+04	1.230E+07	8.263E+02	4.102E+03	6.149E+06	4.131E+02
2017	1.555E+04	1.245E+07	8.365E+02	4.153E+03	6.225E+06	4.182E+02
2018	1.575E+04	1.262E+07	8.476E+02	4.208E+03	6.308E+06	4.238E+02
2019	1.597E+04	1.279E+07	8.592E+02	4.266E+03	6.394E+06	4.296E+02
2020	1.621E+04	1.298E+07	8.722E+02	4.330E+03	6.491E+06	4.361E+02
2021	1.649E+04	1.320E+07	8.872E+02	4.405E+03	6.602E+06	4.436E+02
2022	1.687E+04	1.351E+07	9.076E+02	4.506E+03	6.754E+06	4.538E+02
2023	1.720E+04	1.377E+07	9.254E+02	4.594E+03	6.887E+06	4.627E+02
2024	1.745E+04	1.397E+07	9.389E+02	4.661E+03	6.987E+06	4.694E+02
2025	1.677E+04	1.343E+07	9.021E+02	4.478E+03	6.713E+06	4.510E+02
2026	1.611E+04	1.290E+07	8.667E+02	4.303E+03	6.450E+06	4.333E+02
2027	1.548E+04	1.239E+07	8.327E+02	4.134E+03	6.197E+06	4.164E+02

Results (Continued)

Year	Total landfill gas			Methane		
	(Mg/year)	(m ³ /year)	(av ft ³ /min)	(Mg/year)	(m ³ /year)	(av ft ³ /min)
2028	1.487E+04	1.191E+07	8.001E+02	3.972E+03	5.954E+06	4.000E+02
2029	1.429E+04	1.144E+07	7.687E+02	3.816E+03	5.720E+06	3.843E+02
2030	1.373E+04	1.099E+07	7.385E+02	3.667E+03	5.496E+06	3.693E+02
2031	1.319E+04	1.056E+07	7.096E+02	3.523E+03	5.280E+06	3.548E+02
2032	1.267E+04	1.015E+07	6.818E+02	3.385E+03	5.073E+06	3.409E+02
2033	1.217E+04	9.749E+06	6.550E+02	3.252E+03	4.874E+06	3.275E+02
2034	1.170E+04	9.367E+06	6.293E+02	3.124E+03	4.683E+06	3.147E+02
2035	1.124E+04	8.999E+06	6.047E+02	3.002E+03	4.500E+06	3.023E+02
2036	1.080E+04	8.647E+06	5.810E+02	2.884E+03	4.323E+06	2.905E+02
2037	1.037E+04	8.307E+06	5.582E+02	2.771E+03	4.154E+06	2.791E+02
2038	9.968E+03	7.982E+06	5.363E+02	2.663E+03	3.991E+06	2.681E+02
2039	9.577E+03	7.669E+06	5.153E+02	2.558E+03	3.834E+06	2.576E+02
2040	9.201E+03	7.368E+06	4.951E+02	2.458E+03	3.684E+06	2.475E+02
2041	8.841E+03	7.079E+06	4.756E+02	2.361E+03	3.540E+06	2.378E+02
2042	8.494E+03	6.802E+06	4.570E+02	2.269E+03	3.401E+06	2.285E+02
2043	8.161E+03	6.535E+06	4.391E+02	2.180E+03	3.267E+06	2.195E+02
2044	7.841E+03	6.279E+06	4.219E+02	2.094E+03	3.139E+06	2.109E+02
2045	7.533E+03	6.032E+06	4.053E+02	2.012E+03	3.016E+06	2.027E+02
2046	7.238E+03	5.796E+06	3.894E+02	1.933E+03	2.898E+06	1.947E+02
2047	6.954E+03	5.569E+06	3.742E+02	1.858E+03	2.784E+06	1.871E+02
2048	6.682E+03	5.350E+06	3.595E+02	1.785E+03	2.675E+06	1.797E+02
2049	6.420E+03	5.141E+06	3.454E+02	1.715E+03	2.570E+06	1.727E+02
2050	6.168E+03	4.939E+06	3.318E+02	1.648E+03	2.469E+06	1.659E+02
2051	5.926E+03	4.745E+06	3.188E+02	1.583E+03	2.373E+06	1.594E+02
2052	5.694E+03	4.559E+06	3.063E+02	1.521E+03	2.280E+06	1.532E+02
2053	5.470E+03	4.380E+06	2.943E+02	1.461E+03	2.190E+06	1.472E+02
2054	5.256E+03	4.209E+06	2.828E+02	1.404E+03	2.104E+06	1.414E+02
2055	5.050E+03	4.044E+06	2.717E+02	1.349E+03	2.022E+06	1.358E+02
2056	4.852E+03	3.885E+06	2.610E+02	1.296E+03	1.943E+06	1.305E+02
2057	4.662E+03	3.733E+06	2.508E+02	1.245E+03	1.866E+06	1.254E+02
2058	4.479E+03	3.586E+06	2.410E+02	1.196E+03	1.793E+06	1.205E+02
2059	4.303E+03	3.446E+06	2.315E+02	1.149E+03	1.723E+06	1.158E+02
2060	4.134E+03	3.311E+06	2.224E+02	1.104E+03	1.655E+06	1.112E+02
2061	3.972E+03	3.181E+06	2.137E+02	1.061E+03	1.590E+06	1.069E+02
2062	3.817E+03	3.056E+06	2.053E+02	1.019E+03	1.528E+06	1.027E+02
2063	3.667E+03	2.936E+06	1.973E+02	9.795E+02	1.468E+06	9.865E+01
2064	3.523E+03	2.821E+06	1.896E+02	9.411E+02	1.411E+06	9.478E+01
2065	3.385E+03	2.711E+06	1.821E+02	9.042E+02	1.355E+06	9.106E+01
2066	3.252E+03	2.604E+06	1.750E+02	8.687E+02	1.302E+06	8.749E+01
2067	3.125E+03	2.502E+06	1.681E+02	8.347E+02	1.251E+06	8.406E+01
2068	3.002E+03	2.404E+06	1.615E+02	8.019E+02	1.202E+06	8.076E+01
2069	2.885E+03	2.310E+06	1.552E+02	7.705E+02	1.155E+06	7.760E+01
2070	2.771E+03	2.219E+06	1.491E+02	7.403E+02	1.110E+06	7.455E+01
2071	2.663E+03	2.132E+06	1.433E+02	7.112E+02	1.066E+06	7.163E+01
2072	2.558E+03	2.049E+06	1.376E+02	6.834E+02	1.024E+06	6.882E+01
2073	2.458E+03	1.968E+06	1.322E+02	6.566E+02	9.841E+05	6.612E+01
2074	2.362E+03	1.891E+06	1.271E+02	6.308E+02	9.455E+05	6.353E+01
2075	2.269E+03	1.817E+06	1.221E+02	6.061E+02	9.085E+05	6.104E+01
2076	2.180E+03	1.746E+06	1.173E+02	5.823E+02	8.729E+05	5.865E+01
2077	2.095E+03	1.677E+06	1.127E+02	5.595E+02	8.386E+05	5.635E+01
2078	2.012E+03	1.611E+06	1.083E+02	5.376E+02	8.057E+05	5.414E+01

Results (Continued)

Year	Total landfill gas			Methane		
	(Mg/year)	(m ³ /year)	(av ft ³ /min)	(Mg/year)	(m ³ /year)	(av ft ³ /min)
2079	1.934E+03	1.548E+06	1.040E+02	5.165E+02	7.741E+05	5.202E+01
2080	1.858E+03	1.488E+06	9.995E+01	4.962E+02	7.438E+05	4.998E+01
2081	1.785E+03	1.429E+06	9.603E+01	4.768E+02	7.146E+05	4.802E+01
2082	1.715E+03	1.373E+06	9.227E+01	4.581E+02	6.866E+05	4.613E+01
2083	1.648E+03	1.319E+06	8.865E+01	4.401E+02	6.597E+05	4.432E+01
2084	1.583E+03	1.268E+06	8.517E+01	4.229E+02	6.338E+05	4.259E+01
2085	1.521E+03	1.218E+06	8.183E+01	4.063E+02	6.090E+05	4.092E+01
2086	1.461E+03	1.170E+06	7.862E+01	3.903E+02	5.851E+05	3.931E+01
2087	1.404E+03	1.124E+06	7.554E+01	3.750E+02	5.621E+05	3.777E+01
2088	1.349E+03	1.080E+06	7.258E+01	3.603E+02	5.401E+05	3.629E+01
2089	1.296E+03	1.038E+06	6.973E+01	3.462E+02	5.189E+05	3.487E+01
2090	1.245E+03	9.972E+05	6.700E+01	3.326E+02	4.986E+05	3.350E+01
2091	1.196E+03	9.581E+05	6.437E+01	3.196E+02	4.790E+05	3.219E+01
2092	1.150E+03	9.205E+05	6.185E+01	3.071E+02	4.602E+05	3.092E+01
2093	1.104E+03	8.844E+05	5.942E+01	2.950E+02	4.422E+05	2.971E+01
2094	1.061E+03	8.497E+05	5.709E+01	2.834E+02	4.249E+05	2.855E+01
2095	1.020E+03	8.164E+05	5.485E+01	2.723E+02	4.082E+05	2.743E+01
2096	9.796E+02	7.844E+05	5.270E+01	2.617E+02	3.922E+05	2.635E+01
2097	9.412E+02	7.536E+05	5.064E+01	2.514E+02	3.768E+05	2.532E+01
2098	9.043E+02	7.241E+05	4.865E+01	2.415E+02	3.620E+05	2.433E+01
2099	8.688E+02	6.957E+05	4.674E+01	2.321E+02	3.478E+05	2.337E+01
2100	8.347E+02	6.684E+05	4.491E+01	2.230E+02	3.342E+05	2.246E+01
2101	8.020E+02	6.422E+05	4.315E+01	2.142E+02	3.211E+05	2.157E+01
2102	7.706E+02	6.170E+05	4.146E+01	2.058E+02	3.085E+05	2.073E+01
2103	7.403E+02	5.928E+05	3.983E+01	1.978E+02	2.964E+05	1.992E+01
2104	7.113E+02	5.696E+05	3.827E+01	1.900E+02	2.848E+05	1.914E+01
2105	6.834E+02	5.473E+05	3.677E+01	1.825E+02	2.736E+05	1.838E+01
2106	6.566E+02	5.258E+05	3.533E+01	1.754E+02	2.629E+05	1.766E+01
2107	6.309E+02	5.052E+05	3.394E+01	1.685E+02	2.526E+05	1.697E+01
2108	6.061E+02	4.854E+05	3.261E+01	1.619E+02	2.427E+05	1.631E+01
2109	5.824E+02	4.663E+05	3.133E+01	1.556E+02	2.332E+05	1.567E+01
2110	5.595E+02	4.481E+05	3.010E+01	1.495E+02	2.240E+05	1.505E+01
2111	5.376E+02	4.305E+05	2.892E+01	1.436E+02	2.152E+05	1.446E+01
2112	5.165E+02	4.136E+05	2.779E+01	1.380E+02	2.068E+05	1.390E+01
2113	4.963E+02	3.974E+05	2.670E+01	1.326E+02	1.987E+05	1.335E+01
2114	4.768E+02	3.818E+05	2.565E+01	1.274E+02	1.909E+05	1.283E+01
2115	4.581E+02	3.668E+05	2.465E+01	1.224E+02	1.834E+05	1.232E+01
2116	4.401E+02	3.525E+05	2.368E+01	1.176E+02	1.762E+05	1.184E+01
2117	4.229E+02	3.386E+05	2.275E+01	1.130E+02	1.693E+05	1.138E+01
2118	4.063E+02	3.254E+05	2.186E+01	1.085E+02	1.627E+05	1.093E+01

Results (Continued)

Year	Carbon dioxide			NMOC		
	(Mg/year)	(m ³ /year)	(av ft ³ /min)	(Mg/year)	(m ³ /year)	(av ft ³ /min)
1978	0	0	0	0	0	0
1979	3.805E+02	2.079E+05	1.397E+01	5.295E-01	1.477E+02	9.925E-03
1980	7.512E+02	4.104E+05	2.757E+01	1.045E+00	2.916E+02	1.959E-02
1981	1.107E+03	6.050E+05	4.065E+01	1.541E+00	4.299E+02	2.889E-02
1982	1.455E+03	7.947E+05	5.340E+01	2.024E+00	5.647E+02	3.795E-02
1983	1.794E+03	9.799E+05	6.584E+01	2.496E+00	6.963E+02	4.678E-02
1984	2.119E+03	1.158E+06	7.779E+01	2.949E+00	8.227E+02	5.528E-02
1985	2.437E+03	1.331E+06	8.946E+01	3.391E+00	9.461E+02	6.357E-02
1986	2.748E+03	1.501E+06	1.009E+02	3.824E+00	1.067E+03	7.167E-02
1987	3.046E+03	1.664E+06	1.118E+02	4.239E+00	1.183E+03	7.946E-02
1988	3.338E+03	1.824E+06	1.225E+02	4.645E+00	1.296E+03	8.707E-02
1989	3.619E+03	1.977E+06	1.328E+02	5.035E+00	1.405E+03	9.439E-02
1990	3.904E+03	2.133E+06	1.433E+02	5.432E+00	1.515E+03	1.018E-01
1991	4.172E+03	2.279E+06	1.531E+02	5.806E+00	1.620E+03	1.088E-01
1992	4.479E+03	2.447E+06	1.644E+02	6.233E+00	1.739E+03	1.168E-01
1993	4.762E+03	2.602E+06	1.748E+02	6.626E+00	1.849E+03	1.242E-01
1994	5.046E+03	2.757E+06	1.852E+02	7.022E+00	1.959E+03	1.316E-01
1995	5.313E+03	2.902E+06	1.950E+02	7.393E+00	2.062E+03	1.386E-01
1996	5.538E+03	3.026E+06	2.033E+02	7.706E+00	2.150E+03	1.445E-01
1997	5.742E+03	3.137E+06	2.108E+02	7.990E+00	2.229E+03	1.498E-01
1998	5.945E+03	3.247E+06	2.182E+02	8.272E+00	2.308E+03	1.551E-01
1999	6.176E+03	3.374E+06	2.267E+02	8.594E+00	2.398E+03	1.611E-01
2000	6.393E+03	3.492E+06	2.347E+02	8.896E+00	2.482E+03	1.667E-01
2001	6.642E+03	3.628E+06	2.438E+02	9.242E+00	2.578E+03	1.732E-01
2002	6.900E+03	3.769E+06	2.533E+02	9.601E+00	2.679E+03	1.800E-01
2003	7.105E+03	3.882E+06	2.608E+02	9.887E+00	2.758E+03	1.853E-01
2004	7.461E+03	4.076E+06	2.739E+02	1.038E+01	2.897E+03	1.946E-01
2005	7.905E+03	4.319E+06	2.902E+02	1.100E+01	3.069E+03	2.062E-01
2006	8.470E+03	4.627E+06	3.109E+02	1.179E+01	3.288E+03	2.209E-01
2007	9.221E+03	5.038E+06	3.385E+02	1.283E+01	3.580E+03	2.405E-01
2008	9.662E+03	5.278E+06	3.546E+02	1.344E+01	3.751E+03	2.520E-01
2009	9.996E+03	5.461E+06	3.669E+02	1.391E+01	3.880E+03	2.607E-01
2010	1.026E+04	5.606E+06	3.766E+02	1.428E+01	3.983E+03	2.676E-01
2011	1.044E+04	5.701E+06	3.831E+02	1.452E+01	4.051E+03	2.722E-01
2012	1.060E+04	5.789E+06	3.889E+02	1.474E+01	4.113E+03	2.764E-01
2013	1.072E+04	5.855E+06	3.934E+02	1.491E+01	4.161E+03	2.796E-01
2014	1.093E+04	5.969E+06	4.011E+02	1.520E+01	4.242E+03	2.850E-01
2015	1.112E+04	6.074E+06	4.081E+02	1.547E+01	4.316E+03	2.900E-01
2016	1.126E+04	6.149E+06	4.131E+02	1.566E+01	4.369E+03	2.936E-01
2017	1.139E+04	6.225E+06	4.182E+02	1.585E+01	4.423E+03	2.972E-01
2018	1.155E+04	6.308E+06	4.238E+02	1.607E+01	4.482E+03	3.012E-01
2019	1.170E+04	6.394E+06	4.296E+02	1.629E+01	4.543E+03	3.053E-01
2020	1.188E+04	6.491E+06	4.361E+02	1.653E+01	4.612E+03	3.099E-01
2021	1.209E+04	6.602E+06	4.436E+02	1.682E+01	4.692E+03	3.152E-01
2022	1.236E+04	6.754E+06	4.538E+02	1.720E+01	4.800E+03	3.225E-01
2023	1.261E+04	6.887E+06	4.627E+02	1.754E+01	4.894E+03	3.288E-01
2024	1.279E+04	6.987E+06	4.694E+02	1.780E+01	4.965E+03	3.336E-01
2025	1.229E+04	6.713E+06	4.510E+02	1.710E+01	4.770E+03	3.205E-01
2026	1.181E+04	6.450E+06	4.333E+02	1.643E+01	4.583E+03	3.079E-01
2027	1.134E+04	6.197E+06	4.164E+02	1.578E+01	4.403E+03	2.959E-01

Results (Continued)

Year	Carbon dioxide			NMOC		
	(Mg/year)	(m ³ /year)	(av ft ³ /min)	(Mg/year)	(m ³ /year)	(av ft ³ /min)
2028	1.090E+04	5.954E+06	4.000E+02	1.516E+01	4.231E+03	2.843E-01
2029	1.047E+04	5.720E+06	3.843E+02	1.457E+01	4.065E+03	2.731E-01
2030	1.006E+04	5.496E+06	3.693E+02	1.400E+01	3.905E+03	2.624E-01
2031	9.666E+03	5.280E+06	3.548E+02	1.345E+01	3.752E+03	2.521E-01
2032	9.287E+03	5.073E+06	3.409E+02	1.292E+01	3.605E+03	2.422E-01
2033	8.923E+03	4.874E+06	3.275E+02	1.242E+01	3.464E+03	2.327E-01
2034	8.573E+03	4.683E+06	3.147E+02	1.193E+01	3.328E+03	2.236E-01
2035	8.237E+03	4.500E+06	3.023E+02	1.146E+01	3.197E+03	2.148E-01
2036	7.914E+03	4.323E+06	2.905E+02	1.101E+01	3.072E+03	2.064E-01
2037	7.603E+03	4.154E+06	2.791E+02	1.058E+01	2.952E+03	1.983E-01
2038	7.305E+03	3.991E+06	2.681E+02	1.017E+01	2.836E+03	1.905E-01
2039	7.019E+03	3.834E+06	2.576E+02	9.767E+00	2.725E+03	1.831E-01
2040	6.744E+03	3.684E+06	2.475E+02	9.384E+00	2.618E+03	1.759E-01
2041	6.479E+03	3.540E+06	2.378E+02	9.016E+00	2.515E+03	1.690E-01
2042	6.225E+03	3.401E+06	2.285E+02	8.662E+00	2.417E+03	1.624E-01
2043	5.981E+03	3.267E+06	2.195E+02	8.323E+00	2.322E+03	1.560E-01
2044	5.747E+03	3.139E+06	2.109E+02	7.996E+00	2.231E+03	1.499E-01
2045	5.521E+03	3.016E+06	2.027E+02	7.683E+00	2.143E+03	1.440E-01
2046	5.305E+03	2.898E+06	1.947E+02	7.381E+00	2.059E+03	1.384E-01
2047	5.097E+03	2.784E+06	1.871E+02	7.092E+00	1.979E+03	1.329E-01
2048	4.897E+03	2.675E+06	1.797E+02	6.814E+00	1.901E+03	1.277E-01
2049	4.705E+03	2.570E+06	1.727E+02	6.547E+00	1.826E+03	1.227E-01
2050	4.520E+03	2.469E+06	1.659E+02	6.290E+00	1.755E+03	1.179E-01
2051	4.343E+03	2.373E+06	1.594E+02	6.043E+00	1.686E+03	1.133E-01
2052	4.173E+03	2.280E+06	1.532E+02	5.806E+00	1.620E+03	1.088E-01
2053	4.009E+03	2.190E+06	1.472E+02	5.579E+00	1.556E+03	1.046E-01
2054	3.852E+03	2.104E+06	1.414E+02	5.360E+00	1.495E+03	1.005E-01
2055	3.701E+03	2.022E+06	1.358E+02	5.150E+00	1.437E+03	9.653E-02
2056	3.556E+03	1.943E+06	1.305E+02	4.948E+00	1.380E+03	9.275E-02
2057	3.416E+03	1.866E+06	1.254E+02	4.754E+00	1.326E+03	8.911E-02
2058	3.282E+03	1.793E+06	1.205E+02	4.568E+00	1.274E+03	8.562E-02
2059	3.154E+03	1.723E+06	1.158E+02	4.388E+00	1.224E+03	8.226E-02
2060	3.030E+03	1.655E+06	1.112E+02	4.216E+00	1.176E+03	7.903E-02
2061	2.911E+03	1.590E+06	1.069E+02	4.051E+00	1.130E+03	7.594E-02
2062	2.797E+03	1.528E+06	1.027E+02	3.892E+00	1.086E+03	7.296E-02
2063	2.687E+03	1.468E+06	9.865E+01	3.740E+00	1.043E+03	7.010E-02
2064	2.582E+03	1.411E+06	9.478E+01	3.593E+00	1.002E+03	6.735E-02
2065	2.481E+03	1.355E+06	9.106E+01	3.452E+00	9.631E+02	6.471E-02
2066	2.384E+03	1.302E+06	8.749E+01	3.317E+00	9.253E+02	6.217E-02
2067	2.290E+03	1.251E+06	8.406E+01	3.187E+00	8.890E+02	5.973E-02
2068	2.200E+03	1.202E+06	8.076E+01	3.062E+00	8.542E+02	5.739E-02
2069	2.114E+03	1.155E+06	7.760E+01	2.942E+00	8.207E+02	5.514E-02
2070	2.031E+03	1.110E+06	7.455E+01	2.826E+00	7.885E+02	5.298E-02
2071	1.952E+03	1.066E+06	7.163E+01	2.715E+00	7.576E+02	5.090E-02
2072	1.875E+03	1.024E+06	6.882E+01	2.609E+00	7.279E+02	4.891E-02
2073	1.801E+03	9.841E+05	6.612E+01	2.507E+00	6.993E+02	4.699E-02
2074	1.731E+03	9.455E+05	6.353E+01	2.408E+00	6.719E+02	4.515E-02
2075	1.663E+03	9.085E+05	6.104E+01	2.314E+00	6.456E+02	4.338E-02
2076	1.598E+03	8.729E+05	5.865E+01	2.223E+00	6.202E+02	4.167E-02
2077	1.535E+03	8.386E+05	5.635E+01	2.136E+00	5.959E+02	4.004E-02
2078	1.475E+03	8.057E+05	5.414E+01	2.052E+00	5.726E+02	3.847E-02

Results (Continued)

Year	Carbon dioxide			NMOC		
	(Mg/year)	(m ³ /year)	(av ft ³ /min)	(Mg/year)	(m ³ /year)	(av ft ³ /min)
2079	1.417E+03	7.741E+05	5.202E+01	1.972E+00	5.501E+02	3.696E-02
2080	1.362E+03	7.438E+05	4.998E+01	1.895E+00	5.285E+02	3.551E-02
2081	1.308E+03	7.146E+05	4.802E+01	1.820E+00	5.078E+02	3.412E-02
2082	1.257E+03	6.866E+05	4.613E+01	1.749E+00	4.879E+02	3.278E-02
2083	1.208E+03	6.597E+05	4.432E+01	1.680E+00	4.688E+02	3.150E-02
2084	1.160E+03	6.338E+05	4.259E+01	1.614E+00	4.504E+02	3.026E-02
2085	1.115E+03	6.090E+05	4.092E+01	1.551E+00	4.327E+02	2.908E-02
2086	1.071E+03	5.851E+05	3.931E+01	1.490E+00	4.158E+02	2.794E-02
2087	1.029E+03	5.621E+05	3.777E+01	1.432E+00	3.995E+02	2.684E-02
2088	9.887E+02	5.401E+05	3.629E+01	1.376E+00	3.838E+02	2.579E-02
2089	9.499E+02	5.189E+05	3.487E+01	1.322E+00	3.688E+02	2.478E-02
2090	9.127E+02	4.986E+05	3.350E+01	1.270E+00	3.543E+02	2.380E-02
2091	8.769E+02	4.790E+05	3.219E+01	1.220E+00	3.404E+02	2.287E-02
2092	8.425E+02	4.602E+05	3.092E+01	1.172E+00	3.271E+02	2.197E-02
2093	8.094E+02	4.422E+05	2.971E+01	1.126E+00	3.142E+02	2.111E-02
2094	7.777E+02	4.249E+05	2.855E+01	1.082E+00	3.019E+02	2.029E-02
2095	7.472E+02	4.082E+05	2.743E+01	1.040E+00	2.901E+02	1.949E-02
2096	7.179E+02	3.922E+05	2.635E+01	9.990E-01	2.787E+02	1.873E-02
2097	6.898E+02	3.768E+05	2.532E+01	9.598E-01	2.678E+02	1.799E-02
2098	6.627E+02	3.620E+05	2.433E+01	9.222E-01	2.573E+02	1.729E-02
2099	6.367E+02	3.478E+05	2.337E+01	8.860E-01	2.472E+02	1.661E-02
2100	6.118E+02	3.342E+05	2.246E+01	8.513E-01	2.375E+02	1.596E-02
2101	5.878E+02	3.211E+05	2.157E+01	8.179E-01	2.282E+02	1.533E-02
2102	5.647E+02	3.085E+05	2.073E+01	7.858E-01	2.192E+02	1.473E-02
2103	5.426E+02	2.964E+05	1.992E+01	7.550E-01	2.106E+02	1.415E-02
2104	5.213E+02	2.848E+05	1.914E+01	7.254E-01	2.024E+02	1.360E-02
2105	5.009E+02	2.736E+05	1.838E+01	6.970E-01	1.944E+02	1.306E-02
2106	4.812E+02	2.629E+05	1.766E+01	6.696E-01	1.868E+02	1.255E-02
2107	4.624E+02	2.526E+05	1.697E+01	6.434E-01	1.795E+02	1.206E-02
2108	4.442E+02	2.427E+05	1.631E+01	6.181E-01	1.725E+02	1.159E-02
2109	4.268E+02	2.332E+05	1.567E+01	5.939E-01	1.657E+02	1.113E-02
2110	4.101E+02	2.240E+05	1.505E+01	5.706E-01	1.592E+02	1.070E-02
2111	3.940E+02	2.152E+05	1.446E+01	5.482E-01	1.530E+02	1.028E-02
2112	3.786E+02	2.068E+05	1.390E+01	5.268E-01	1.470E+02	9.874E-03
2113	3.637E+02	1.987E+05	1.335E+01	5.061E-01	1.412E+02	9.487E-03
2114	3.494E+02	1.909E+05	1.283E+01	4.863E-01	1.357E+02	9.115E-03
2115	3.357E+02	1.834E+05	1.232E+01	4.672E-01	1.303E+02	8.757E-03
2116	3.226E+02	1.762E+05	1.184E+01	4.489E-01	1.252E+02	8.414E-03
2117	3.099E+02	1.693E+05	1.138E+01	4.313E-01	1.203E+02	8.084E-03
2118	2.978E+02	1.627E+05	1.093E+01	4.144E-01	1.156E+02	7.767E-03

ATTACHMENT 2

FLARE EMISSION CALCULATIONS

Proj No: 23-CCDPW-137 **Sheet** 1 **of** 4 **By:** KEF **Date:** 3/2024
Calc Title: Central Landfill 2023 Flare Emission Calculations **Ch:** MDH **Date:** 3/2024

Estimate 2023 emissions from the control device (i.e. flare) serving the Central Landfill.

- All landfill gas extracted in 2023 was diverted to the flare.
- For a conservative estimate, assume that the flare operated 24 hours/day, 365 days/year or 8,760 hours/year. According to Attachment 1, the average LFG flow to the flare was 321 scfm and based on monthly methane monitoring completed by BAI, the average methane content in 2023 was approximately 41.0%.
- EPA's LandGEM Model Ver. 3.03 was used to generate 2023 emissions inventory, refer to LandGEM Summary Report and 2023 Inventory Report enclosed under Attachment 1.
- Based on manufacturer's specifications, the NO_x and CO emission factors for the subject flare are 0.068 and 0.37 lb/MMBtu, respectively.
- Use AP-42, Table 2.4-5 Particulate Matter emission factor to calculate PM-10 emissions, which is 17 lb/10⁶ dscf Methane.
- N₂O emission factor of 0.630 g/MMBtu or 0.00139 lb/MMBtu based on <http://www.epa.gov/climateleadership/documents/emission-factors.pdf>.
- Assume that the flares control efficiency is 98% based on NSPS minimum control efficiency requirement.
- Assume that the Btu value of Landfill gas is 449.4 Btu/cf calculated by multiplying the heating value of methane by the average methane content – 1010 Btu/cf * 41.0% = 414.1 Btu/cf

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BAI GROUP
CALCULATION WORKSHEET

Proj No: 23-CCDPW-137 **Sheet** 2 **of** 4 **By:** KEF **Date:** 3/2024
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$$\begin{aligned} &= 321 \text{ scfm} \times 8,760 \text{ hrs/yr} \times 60 \text{ min/hr} \times 440.4 \text{ Btu/scf} \times 1/1 \times 10^6 \\ &= 74,303 \text{ MMBtu/yr} \end{aligned}$$

$$\text{CO Emissions} = 0.37 \text{ lb/MMBtu} \times 74,303 \text{ MMBtu/yr} \times 1 \text{ ton}/2,000 \text{ lb} = \mathbf{13.7 \text{ tons/yr}}$$

$$\text{NOx Emissions} = 0.068 \text{ lb/MMBtu} \times 74,303 \text{ MMBtu/yr} \times 1 \text{ ton}/2,000 \text{ lb} = \mathbf{2.5 \text{ tons/yr}}$$

$$\text{N}_2\text{O Emissions} = 0.00139 \text{ lb/MMBtu} \times 74,303 \text{ MMBtu/yr} \times 1 \text{ ton}/2,000 \text{ lb} = \mathbf{0.052 \text{ tons/yr}}$$

$$\text{PM-10 Emissions} = 17 \text{ lb}/10^6 \text{ dscf Methane} \times 69,174,216 \text{ ft}^3 \text{ Methane/yr} \times 1 \text{ ton}/2,000 \text{ lb} = \mathbf{0.59 \text{ tons/yr}}$$

SOx Emissions:

- The SOx emissions were calculated as SO₂ emissions using procedures outlined in EPA AP-42 Chapter 2.4 dated November 1998. AP-42 default value of 46.9 ppm was used for the sulfur concentration.
- Determine sulfur emission rate, Q_s using the following equation:

$$Q_s = (1.82) (Q_{\text{CH}_4}) (C_s / 1.0 \times 10^6)$$

where:

Q_s = Emission rate of sulfur, m³/yr;

Q_{CH₄} = Methane generation rate, m³/yr – *use actual methane throughput*;

C_s = Concentration of sulfur in landfill gas, ppmv; and

1.82 = Multiplication factor (assumes that approximately 55% of landfill gas is CH₄) - *use 1/(actual methane %)*

$$\begin{aligned} Q_{\text{CH}_4} &= \text{Total methane throughput to the flare in 2023 calculated above} \\ &= 69,174,216 \text{ ft}^3 / \text{yr} \text{ or } 1,958,796 \text{ m}^3 / \text{yr} \end{aligned}$$

$$Q_s = (1/41.0\%) (1,958,796 \text{ m}^3 / \text{yr}) (46.9 \text{ ppmv} / 1 \times 10^6) = 224 \text{ m}^3 / \text{yr}.$$

- Determine the uncontrolled mass emissions of sulfur, U_Ms (kg/yr) using following equation:

$$U_{M_s} = (Q_s) (MW_s) (1 \text{ atm}) / ((8.205 \times 10^{-5} \text{ m}^3\text{-atm/gmol-}^\circ\text{K}) (1000 \text{ g/kg}) (273 + T^\circ\text{K}))$$

where:

U_Ms = Uncontrolled mass emissions of sulfur, kg/yr

MW_s = Molecular weight of sulfur, g/gmol;

Q_s = Sulfur emission rate, m³/yr; and

T = Temperature of landfill gas, °C, default temperature is 25°C.

$$U_{M_s} = (224 \text{ m}^3 / \text{yr}) (32.1 \text{ g/gmol}) (1 \text{ atm}) / ((8.205 \times 10^{-5} \text{ m}^3\text{-atm/gmol-}^\circ\text{K}) (1000 \text{ g/kg}) (273 + 25^\circ\text{K}))$$

$$U_{M_s} = 294.1 \text{ kg/yr}$$

- Determine the controlled mass emissions of SO₂, kg/yr using the following equation:

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$$CM_{SO_2} = (UM_s) (n_{col}/100) (2.00)$$

where:

CM_{SO_2} = Controlled mass emissions of SO_2 , kg/yr;

UM_s = Uncontrolled mass emissions of sulfur, kg/yr;

n_{col} = Efficiency of landfill gas collection system, percent - use 100% as actual flow to the flare is used; and

2.00 = Ratio of molecular weight of SO_2 to molecular weight of S.

$$CM_{SO_2} = (294.1 \text{ kg/yr}) (100\%) (2.00) = 588.2 \text{ kg/yr or } \mathbf{0.648 \text{ tons/yr}}$$

HCl Emissions:

- The HCl emissions were calculated using procedures outlined in EPA AP-42 Chapter 2.4 dated November 1998. AP-42 default value of 42.0 ppm was used for the chloride concentration.
- Determine chloride emission rate, Q_{Cl} using the following equation:

$$Q_{Cl} = (1.82) (Q_{CH_4}) (C_{Cl} / 1.0 \times 10^6)$$

where:

Q_{Cl} = Emission rate of chloride, m^3 /yr;

Q_{CH_4} = Methane generation rate, m^3 /yr – *use actual methane throughput*;

C_{Cl} = Concentration of chloride in landfill gas, ppmv; and

1.82 = Multiplication factor (assumes that approximately 55% of landfill gas is CH_4) - *use 1/(actual methane %)*

$$Q_{CH_4} = \text{Total methane throughput to the flare in 2023 calculated above} \\ = 69,174,216 \text{ ft}^3/\text{yr or } 1,958,796 \text{ m}^3/\text{yr}$$

$$Q_{Cl} = (1/41.0\%) (1,958,796 \text{ m}^3/\text{yr}) (42.0 \text{ ppmv}/1 \times 10^6) = 200.66 \text{ m}^3/\text{yr}.$$

- Determine the uncontrolled mass emissions of chloride, UM_{Cl} (kg/yr) using following equation:

$$UM_{Cl} = (Q_{Cl}) (MW_{Cl}) (1 \text{ atm}) / ((8.205 \times 10^{-5} \text{ m}^3\text{-atm/gmol-}^\circ\text{K}) (1000 \text{ g/kg}) (273 + T^\circ\text{K}))$$

where:

UM_{Cl} = Uncontrolled mass emissions of chloride, kg/yr

MW_{Cl} = Molecular weight of chloride, g/gmol;

Q_{Cl} = Chloride emission rate, m^3 /yr; and

T = Temperature of landfill gas, $^\circ\text{C}$, default temperature is 25°C .

$$UM_{Cl} = (200.66 \text{ m}^3/\text{yr})(35.5\text{g/gmol})(1 \text{ atm}) / ((8.205 \times 10^{-5} \text{ m}^3\text{-atm/gmol-}^\circ\text{K})(1000 \text{ g/kg})(273+25^\circ\text{K}))$$

$$UM_{Cl} = 291.34 \text{ kg/yr}$$

- Determine the controlled mass emissions of HCl, kg/yr using the following equation:

$$CM_{HCL} = (UM_{Cl}) (n_{col}/100) (1.03) (n_{cnt}/100)$$

**BAI GROUP
CALCULATION WORKSHEET**

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where:

CM_{HCL} = Controlled mass emissions of HCl, kg/yr;

UM_{Cl} = Uncontrolled mass emissions of chloride, kg/yr;

n_{col} = Efficiency of landfill gas collection system, percent - use 100% as actual flow to the flare is used;

1.03 = Ratio of molecular weight of HCl to molecular weight of Cl; and

n_{cnt} = Control efficiency of landfill gas control device, percent use 98%.

$$CM_{HCL} = (291.34 \text{ kg/yr}) (100\%) (1.03) (98\%) = 294.1 \text{ kg/yr or } \mathbf{0.324 \text{ tons/yr}}$$

CONCLUSION

The VOC, Total HAPs, Highest Individual (HAP), CO, NOx, N2O, PM-10, SOx and HCl emissions from the flare at Central Landfill is estimated to be 0.073, 0.050, 0.02, 13.7, 2.5, 0.052, 0.59, 0.65 and 0.32 tons for 2023, respectively.

End Calculation

**CECIL COUNTY DEPARTMENT OF PUBLIC WORKS
CENTRAL LANDFILL**

2023 FUGITIVE AND FLARE EMISSIONS

2023 LFG Collection Efficiency = 34.69% (Attachment 1)
Flare Control Efficiency = 98% (AP-42)

Gas / Pollutant	2023 Generation Rates ¹	Fugitive Emissions	Flare Emissions ²	Flare Emissions ³	Total Emissions		
	(tons/year)	(tons/year)	(tons/year)	(tons/year)	(lb/hr)	(lb/day)	(tons/year)
Methane ⁹	5.05E+03	3.30E+03	3.51E+01	-	7.62E+02	1.83E+04	3.34E+03
Carbon dioxide ^{4,9}	1.39E+04	9.06E+03	4.81E+03	4.82E+03	4.27E+03	1.02E+05	1.87E+04
1,1,1-Trichloroethane (methyl chloroform) - HAP	4.04E-02	2.64E-02	2.80E-04	-	6.08E-03	1.46E-01	2.66E-02
1,1,2,2-Tetrachloroethane - HAP/VOC	1.16E-01	7.60E-02	8.07E-04	-	1.75E-02	4.21E-01	7.68E-02
1,1-Dichloroethane (ethylidene dichloride) - HAP/VOC	1.50E-01	9.78E-02	1.04E-03	-	2.26E-02	5.41E-01	9.88E-02
1,1-Dichloroethene (vinylidene chloride) - HAP/VOC	1.22E-02	7.98E-03	8.48E-05	-	1.84E-03	4.42E-02	8.06E-03
1,2-Dichloroethane (ethylene dichloride) - HAP/VOC	2.56E-02	1.67E-02	1.77E-04	-	3.85E-03	9.25E-02	1.69E-02
1,2-Dichloropropane (propylene dichloride) - HAP/VOC	1.28E-02	8.37E-03	8.89E-05	-	1.93E-03	4.64E-02	8.46E-03
2-Propanol (isopropyl alcohol) - VOC	1.89E+00	1.24E+00	1.31E-02	-	2.85E-01	6.85E+00	1.25E+00
Acetone	2.56E-01	1.67E-01	1.78E-03	-	3.86E-02	9.27E-01	1.69E-01
Acrylonitrile - HAP/VOC	2.11E-01	1.38E-01	1.46E-03	-	3.17E-02	7.62E-01	1.39E-01
Benzene - No or Unknown Co-disposal - HAP/VOC	9.35E-02	6.11E-02	6.49E-04	-	1.41E-02	3.38E-01	6.17E-02
Benzene - Co-disposal - HAP/VOC	5.41E-01	3.54E-01	3.76E-03	-	8.16E-02	1.96E+00	3.57E-01
Bromodichloromethane - VOC	3.20E-01	2.09E-01	2.22E-03	-	4.82E-02	1.16E+00	2.11E-01
Butane - VOC	1.83E-01	1.20E-01	1.27E-03	-	2.76E-02	6.62E-01	1.21E-01
Carbon disulfide - HAP/VOC	2.78E-02	1.82E-02	1.93E-04	-	4.19E-03	1.01E-01	1.84E-02
Carbon monoxide ⁵	2.47E+00	1.61E+00	0.00E+00	1.37E+01	3.50E+00	8.39E+01	1.53E+01
Carbon tetrachloride - HAP/VOC	3.88E-04	2.53E-04	2.69E-06	-	5.84E-05	1.40E-03	2.56E-04
Carbonyl sulfide - HAP/VOC	1.85E-02	1.21E-02	1.29E-04	-	2.80E-03	6.71E-02	1.22E-02
Chlorobenzene - HAP/VOC	1.77E-02	1.16E-02	1.23E-04	-	2.67E-03	6.41E-02	1.17E-02
Chlorodifluoromethane	7.08E-02	4.63E-02	4.91E-04	-	1.07E-02	2.56E-01	4.68E-02
Chloroethane (ethyl chloride) - HAP/VOC	5.29E-02	3.45E-02	3.67E-04	-	7.97E-03	1.91E-01	3.49E-02
Chloroform - HAP/VOC	2.26E-03	1.47E-03	1.57E-05	-	3.40E-04	8.16E-03	1.49E-03
Chloromethane - VOC	3.82E-02	2.49E-02	2.65E-04	-	5.75E-03	1.38E-01	2.52E-02
Dichlorobenzene - (HAP for para isomer/VOC)	1.95E-02	1.27E-02	1.35E-04	-	2.93E-03	7.04E-02	1.28E-02
Dichlorodifluoromethane	1.22E+00	7.96E-01	8.46E-03	-	1.84E-01	4.41E+00	8.05E-01
Dichlorofluoromethane - VOC	1.69E-01	1.10E-01	1.17E-03	-	2.54E-02	6.10E-01	1.11E-01
Dichloromethane (methylene chloride) - HAP	7.49E-01	4.89E-01	5.20E-03	-	1.13E-01	2.71E+00	4.95E-01
Dimethyl sulfide (methyl sulfide) - VOC	3.05E-01	1.99E-01	2.12E-03	-	4.60E-02	1.10E+00	2.02E-01
Ethane	1.69E+01	1.10E+01	1.17E-01	-	2.54E+00	6.10E+01	1.11E+01
Ethanol - VOC	7.84E-01	5.12E-01	5.44E-03	-	1.18E-01	2.84E+00	5.18E-01
Ethyl mercaptan (ethanethiol) - VOC	9.00E-02	5.88E-02	6.25E-04	-	1.36E-02	3.26E-01	5.94E-02
Ethylbenzene - HAP/VOC	3.08E-01	2.01E-01	2.13E-03	-	4.64E-02	1.11E+00	2.03E-01
Ethylene dibromide - HAP/VOC	1.18E-04	7.73E-05	8.21E-07	-	1.78E-05	4.28E-04	7.81E-05
Fluorotrichloromethane - VOC	6.58E-02	4.30E-02	4.56E-04	-	9.92E-03	2.38E-01	4.34E-02
Hexane - HAP/VOC	3.58E-01	2.34E-01	2.49E-03	-	5.40E-02	1.30E+00	2.37E-01
Hydrogen sulfide	7.73E-01	5.05E-01	5.36E-03	-	1.17E-01	2.80E+00	5.10E-01
Mercury (total) - HAP ⁶	3.67E-05	2.39E-05	1.27E-05	-	8.37E-06	2.01E-04	3.67E-05
Methyl ethyl ketone - HAP/VOC	3.23E-01	2.11E-01	2.24E-03	-	4.86E-02	1.17E+00	2.13E-01
Methyl isobutyl ketone - HAP/VOC	1.20E-01	7.83E-02	8.32E-04	-	1.81E-02	4.34E-01	7.92E-02
Methyl mercaptan - VOC	7.58E-02	4.95E-02	5.26E-04	-	1.14E-02	2.74E-01	5.00E-02
Pentane - VOC	1.50E-01	9.80E-02	1.04E-03	-	2.26E-02	5.43E-01	9.90E-02
Perchloroethylene (tetrachloroethylene) - HAP	3.87E-01	2.53E-01	2.68E-03	-	5.83E-02	1.40E+00	2.55E-01
Propane - VOC	3.06E-01	2.00E-01	2.12E-03	-	4.61E-02	1.11E+00	2.02E-01
t-1,2-Dichloroethene - VOC	1.71E-01	1.12E-01	1.19E-03	-	2.58E-02	6.19E-01	1.13E-01
Toluene - No or Unknown Co-disposal - HAP/VOC	2.26E+00	1.48E+00	1.57E-02	-	3.41E-01	8.19E+00	1.49E+00
Toluene - Co-disposal - HAP/VOC	9.87E+00	6.45E+00	6.85E-02	-	1.49E+00	3.57E+01	6.51E+00
Trichloroethylene (trichloroethene) - HAP/VOC	2.32E-01	1.51E-01	1.61E-03	-	3.49E-02	8.39E-01	1.53E-01
Vinyl chloride - HAP/VOC	2.88E-01	1.88E-01	1.99E-03	-	4.33E-02	1.04E+00	1.90E-01
Xylenes - HAP/VOC	8.03E-01	5.24E-01	5.57E-03	-	1.21E-01	2.90E+00	5.30E-01
Highest Individual HAP ⁷	2.26E+00	1.48E+00	1.57E-02	-	3.41E-01	8.19E+00	1.49E+00
Total HAP ⁷	7.17E+00	4.68E+00	4.98E-02	-	1.08E+00	2.59E+01	4.73E+00
Total VOC ⁸	1.05E+01	6.89E+00	7.32E-02	-	1.59E+00	3.82E+01	6.96E+00

Notes:

- Values in this table are taken from the LandGEM Model Ver. 3.03, Inventory Report.
5. Emissions of compounds present in LFG that enter the flare with the LFG and are emitted based on the flares destruction efficiency. Does not apply to Carbon Dioxide and Carbon Monoxide emissions.
- Emissions from flare calculated based on manufacturers specifications and other emission factors, see enclosed calculation worksheet.
6. The destruction efficiency for mercury and carbon dioxide is assumed zero.
- Total HAP generation rate is obtained by adding all HAP's and HAP/VOC's above. Since there was no co-disposal at Central Landfill the Toluene generation rate for no co-disposal is included in the total. The generation rate for Toluene (co-disposal) is not included in the total.
- Total VOC generation rate is obtained by adding all VOC's and HAP/VOC's above. Since there was no co-disposal at Central Landfill the Toluene generation rate for no co-disposal is included in the total. The generation rate for Toluene (co-disposal) is not included in the total.
- Combustion of one mole methane produces 1 mole carbon dioxide. The molar masses of methane and carbondioxide are 16 and 44 g/mole, respectively. Therefore combustion of 1 lb methane produces 2.75 lb (44/16) carbon dioxide.

ATTACHMENT 3

GRINDER EMISSION CALCULATIONS

**CECIL COUNTY DEPARTMENT OF PUBLIC WORKS
CENTRAL LANDFILL**

MORBARK 1300 TUB GRINDER EMISSION CALCULATIONS (EU04)

Fuel Consumption	2.2 MMBtu/hr
	513.7 gallons used in 2023
Hours of Operation	0.8 hrs/day
	11.50 days/year
	276 hours/year
Engine Size	860 hp-hr

Pollutant	Emission Factor ¹ (lbs/MMBtu)	Emissions (lbs/day)	Emissions (tons/year)
NO _x	4.41E+00	2.32E+02	1.33E+00
CO	9.50E-01	4.99E+01	2.87E-01
SO _x	2.90E-01	1.52E+01	8.76E-02
PM-10	3.10E-01	1.63E+01	9.36E-02
N ₂ O	1.32E-03	6.93E-02	3.99E-04
CO ₂	1.64E+02	8.61E+03	4.95E+01
VOC	4.30E-01	2.26E+01	1.30E-01
HAPs			
Benzene	9.33E-04	4.90E-02	2.82E-04
Toluene	4.09E-04	2.15E-02	1.24E-04
Xylenes	2.85E-04	1.50E-02	8.61E-05
Propylene	2.58E-03	1.35E-01	7.79E-04
1,3-Butadiene	3.91E-05	2.05E-03	1.18E-05
Formaldehyde	1.18E-03	6.20E-02	3.56E-04
Acetaldehyde	7.67E-04	4.03E-02	2.32E-04
Acrolein	9.25E-05	4.86E-03	2.79E-05
Polycyclic Aromatic Hydrocarbons (PAH)	1.68E-04	8.82E-03	5.07E-05
Total HAP's		3.39E-01	1.95E-03

¹ From U.S. EPA AP-42, Tables 3.3-1 and 3.3-2, October 1996. N₂O emission factor based on <http://www.epa.gov/climateleadership/documents/emission-factors.pdf>

**CECIL COUNTY DEPARTMENT OF PUBLIC WORKS
CENTRAL LANDFILL**

VERMEER HG6000 HORIZONTAL GRINDER EMISSION CALCULATIONS (EU05)

Fuel Consumption	1.6 MMBtu/hr
	1888.0 gallons used in 2023
Hours of Operation	1.6 hrs/day
	24.3 days/year
	584 hours/year
Engine Size	630 hp-hr

Pollutant	Emission Factor ¹ (lbs/MMBtu)	Emissions (lbs / day)	Emissions (tons / year)
NO _x	4.41E+00	1.70E+02	2.06E+00
CO	9.50E-01	3.65E+01	4.45E-01
SO _x	2.90E-01	1.12E+01	1.36E-01
PM-10	3.10E-01	1.19E+01	1.45E-01
N ₂ O	1.32E-03	5.08E-02	6.18E-04
CO ₂	1.64E+02	6.31E+03	7.68E+01
VOC	4.30E-01	1.65E+01	2.01E-01
HAPs			
Benzene	9.33E-04	3.59E-02	4.37E-04
Toluene	4.09E-04	1.57E-02	1.91E-04
Xylenes	2.85E-04	1.10E-02	1.33E-04
Propylene	2.58E-03	9.93E-02	1.21E-03
1,3-Butadiene	3.91E-05	1.50E-03	1.83E-05
Formaldehyde	1.18E-03	4.54E-02	5.52E-04
Acetaldehyde	7.67E-04	2.95E-02	3.59E-04
Acrolein	9.25E-05	3.56E-03	4.33E-05
Polycyclic Aromatic Hydrocarbons (PAH)	1.68E-04	6.46E-03	7.86E-05
Total HAP's		2.48E-01	3.02E-03

¹ From U.S. EPA AP-42, Tables 3.3-1 and 3.3-2, October 1996. N₂O emission factor based on <http://www.epa.gov/climateleadership/documents/emission-factors.pdf>

ATTACHMENT 4

FUGITIVE DUST EMISSION CALCULATIONS

**CECIL COUNTY DEPARTMENT OF PUBLIC WORKS
CENTRAL LANDFILL**

LANDFILL WORKING FACE FUGITIVE DUST EMISSION CALCULATIONS

PM₁₀ Emissions from Construction & Landfill Operations:

Input Parameters:

Landfill Operations

Number of Dozers:	3 (Site specific data)
Number of Compactors:	2 (Site specific data)
Waste Accepted in 2023:	103,627 tons
Cover Material Placed:	144,317 tons/yr (Based on 2023 Cover Soil Logs maintained at the facility)
Mean wind speed:	8.9 miles/hr
Material silt content (%):	12 (U.S.EPA AP-42, Table 13.2.4-1)
Material moisture content (%):	11 (U.S.EPA AP-42, Table 13.2.4-1)
Operation schedule:	2,504 hours/yr (Conservatively assumed to be 313 days/year, 8 hrs/day)

Methodology:

Source 1 - Emissions from operating bulldozers and compactors are: (U.S.EPA AP-42, Table 11.9-1, July 1998)

$$EF = [1.0 (S)^{1.5} / (M)^{1.4}] (0.75)$$

Where:

EF= emission factor, lb/hr

s= material silt content (%)

M= material moisture content (%)

Source 2 - Emissions from loading/unloading daily cover into dumptrucks are: (U.S.EPA AP-42, Eq.1, Section 13.2.4, January 1995)

$$EF = k(0.0032) [(U/5)^{1.3} / (M/2)^{1.4}]$$

Where:

EF= emission factor, lb/ton

k= particle size multiplier = 0.74 for PM₃₀ and 0.35 for PM₁₀

U= mean wind speed, miles/hr(mph)

M= material moisture content (%)

Calculations:

Pollutant	Emission Factor		Emission Rate	
	Source 1 (lbs/hr)	Source 2 (lbs/ton)	lbs/yr	ton/yr
PM ₁₀	1.09E+00	2.18E-04	13,652	6.83

ATTACHMENT 3

2022 TIER 2 NMOC EMISSIONS 5 YEAR RECHECK REPORT AND NMOC
CALCULATIONS

CECIL COUNTY DEPARTMENT OF PUBLIC WORKS
CENTRAL LANDFILL

NMOC EMISSION RATE REPORT

NOTE: THIS NMOC EMISSION RATE REPORT IS BEING PROVIDED IN ACCORDANCE WITH THE REPORTING REQUIREMENT 40 CFR 62.16724(C). THE NMOC REPORT HAS BEEN PREPARED USING THE RESULTS OF THE RECENT 5-YEAR RETEST TO DETERMINE THE TIER 2 SITE SPECIFIC NMOC CONCENTRATION CONDUCTED MAY 17, 2022. THE 5 YEAR RETEST FOR TIER 2 WAS CONDUCTED IN COMPLIANCE WITH THE PART 70 PERMIT NO. 24-015-00163

CALCULATION WORKSHEET

Proj No: 23-CCDPW-137 Sheet 1 of 1 By: MDH Date: 09/2023
Calc Title: 2022 NMOC Emission Rate Estimate Ch: PW Date: 09/2023

OBJECTIVE

Calculate the actual non-methane organic compounds (NMOC) emission rate for the Central Landfill for calendar year 2022 and estimate the next 5-year period.

METHOD & CONDITIONS

The NMOC emission rates for Central Landfill were estimated using the EPA's LandGEM Model (Ver 3.03). The parameters used for the Model are as follows.

- **Waste Acceptance Rate:**
Waste acceptance records for 1978 through 1998 were not available or not accurate. However, the Central Landfill since its opening in 1978 has accepted waste exclusively from Cecil County. As a result, based on the guidance provided in Mandatory Greenhouse Gas Reporting Rule 40 CFR §98, Subpart HH the population of Cecil County in conjunction with Equation HH-2 was used to estimate the disposal rate for the period of 1978 through 1998.

The disposal rates for 1999 through 2022 are based on enclosed scale house records. Additionally, waste composition records and records showing the type of waste disposed within the landfill were also available for 1999 through 2022. As a result, for those years only the waste disposed within the landfill was used within the calculations. Information regarding the putrescible and non-putrescible portion of waste deposited into the landfill was available. As such, for the years 2019 through 2022 only the putrescible portion of waste accepted was used for modeling.

For the purposes of these calculations and a conservative estimate, the future waste acceptance rate for 2023 through 2027 was assumed to increase 2% incrementally each year.

- **Potential Methane Generation Capacity (L_0):**
Potential Methane Generation Capacity (L_0) was based on the Clean Air Act (CAA) default value of 170 m³/Mg provided in the Model.
- **Methane Generation Rate (k):**
Methane Generation Rate (k) based on the CAA default value of 0.05 year⁻¹ provided in the Model.
- **NMOC Concentration:**
NMOC concentration of 355.0 ppmv as Hexane was based on Tier 2 test report dated May 2022

CALCULATION

According to the enclosed LandGEM Model results, the 2022 through 2027 NMOC emission rates were estimated as follows:

Year	NMOC Emission Rates (Mg/year)
2022	31.95
2023	32.53
2024	33.12
2025	33.74
2026	34.36
2027	35.00

End Calculation

Table 1: Summary of Tier 2 NMOC Analytical Results

			Method 25 C Results		Method 3C Results			
Test Date	Sample ID	Test Time	TMNOC (ppmv-C)	TMNOC (ppmv-Hexane)	CH4% volume	CO2% Volume	O2% volume	N2% volume
05/17/2022	30634	11:47 - 12:17	2560	426.7	40.8	25.6	2.66	15.1
	36957	11:00 - 11:30	2390	398.3	40.4	27.3	2.51	15.2
	38755	9:27 - 9:57	1700	283.3	43.6	31.4	1.92	14.1
	36448	10:15 - 10:45	1870	311.7	43.2	30.3	1.86	13.6
Overall Average			2130	355.0	42.0	28.7	2.2	14.5



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Certificate of Analysis

Final Report

Laboratory Order ID 22E1025

Client Name:	BAI Group	Date Received:	May 18, 2022 10:06
	366 Walker Drivem Suite 300	Date Issued:	May 31, 2022 14:22
	State College, PA 16801	Project Number:	21-CCDPW-130
Submitted To:	Laura Vallett	Purchase Order:	21-CCDPW-130
Client Site I.D.:	Cecil Co. Central Landfill		

Enclosed are the results of analyses for samples received by the laboratory on 05/18/2022 10:06. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,

A handwritten signature in black ink that reads 'Ted Soyars'.

Ted Soyars
Technical Director

End Notes:

The test results listed in this report relate only to the samples submitted to the laboratory and as received by the Laboratory.

Unless otherwise noted, the test results for solid materials are calculated on a wet weight basis. Analyses for pH, dissolved oxygen, temperature, residual chlorine and sulfite that are performed in the laboratory do not meet NELAC requirements due to extremely short holding times. These analyses should be performed in the field. The results of field analyses performed by the Sampler included in the Certificate of Analysis are done so at the client's request and are not included in the laboratory's fields of certification nor have they been audited for adherence to a reference method or procedure.

The signature on the final report certifies that these results conform to all applicable NELAC standards unless otherwise specified. For a complete list of the Laboratory's NELAC certified parameters please contact customer service.

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	State College, PA 16801	Project Number:	21-CCDPW-130
Submitted To:	Laura Vallett	Purchase Order:	21-CCDPW-130
Client Site I.D.:	Cecil Co. Central Landfill		

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
30634	22E1025-01	Air	05/17/2022 12:17	05/18/2022 10:06
36957	22E1025-02	Air	05/17/2022 11:30	05/18/2022 10:06
38755	22E1025-03	Air	05/17/2022 09:57	05/18/2022 10:06
36448	22E1025-04	Air	05/17/2022 10:45	05/18/2022 10:06



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366 Walker Drivem Suite 300

Date Received: May 18, 2022 10:06
Date Issued: May 31, 2022 14:22

State College, PA 16801

Submitted To: Laura Vallett

Project Number: 21-CCDPW-130

Client Site I.D.: Cecil Co. Central Landfill

Purchase Order: 21-CCDPW-130

ANALYTICAL RESULTS

Project Location:

Sample Description/Location:

Initial Vacuum(in Hg): 30

Field Sample #: 30634

Sub Description/Location:

Final Vacuum(in Hg): 25.8

Sample ID: 22E1025-01

Canister ID: 063-00135: 30634

Receipt Vacuum(in Hg): 25.8

Sample Matrix: Air

Canister Size: 6

Flow Controller Type: Passive

Sampled: 5/17/2022 12:17

Flow Controller ID: RMA-13-SSV

Sample Type: LV

Volatile Organic Compounds by GC/FID

Analyte	ppmv-C			Flag/Qual	EPA Method 25C			Dilution	PF	Date/Time Analyzed	Analyst
	Results	MDL	LOQ		Results	MDL	LOQ				
TNMOC as Carbon (Mean), N2 corrected	2560	272	272		426.7	45.3	45.3	8	1	5/25/22 12:28	DFH
TNMOC as Carbon (1), N2 corrected	2570	272	272		428.3	45.3	45.3	8	1	5/25/22 12:28	DFH
TNMOC as Carbon (2), N2 corrected	2590	272	272		431.7	45.3	45.3	8	1	5/25/22 12:28	DFH
TNMOC as Carbon (3), N2 corrected	2520	272	272		420.0	45.3	45.3	8	1	5/25/22 12:28	DFH
TNMOC as Carbon (Mean), O2 corrected	2360	272	272		393.3	45.3	45.3	8	1	5/25/22 12:28	DFH
TNMOC as Carbon (1), O2 corrected	2370	272	272		395.0	45.3	45.3	8	1	5/25/22 12:28	DFH
TNMOC as Carbon (2), O2 corrected	2390	272	272		398.3	45.3	45.3	8	1	5/25/22 12:28	DFH
TNMOC as Carbon (3), O2 corrected	2330	272	272		388.3	45.3	45.3	8	1	5/25/22 12:28	DFH

Volatile Organic Compounds by GC/TCD - Unadjusted, as received basis EPA 3C

Analyte	Vol%			Flag/Qual	Dilution	PF	Date/Time Analyzed	Analyst
	Result	MDL	LOQ					
Methane, as received	40.8	0.45	0.45		9	1	5/26/22 9:08	DFH
Carbon dioxide, as received	25.6	0.45	0.45		9	1	5/26/22 9:08	DFH
Oxygen (O2), as received	2.66	0.45	0.45		9	1	5/26/22 9:08	DFH
Hydrogen (H2), as received	ND	0.18	0.18		9	1	5/26/22 9:08	DFH
Nitrogen (N2), as received	15.1	0.45	0.45		9	1	5/26/22 9:08	DFH
Carbon Monoxide, as received	ND	0.009	0.009		9	1	5/26/22 9:08	DFH



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366 Walker Drivem Suite 300

Date Received: May 18, 2022 10:06
Date Issued: May 31, 2022 14:22

State College, PA 16801

Submitted To: Laura Vallett

Project Number: 21-CCDPW-130

Client Site I.D.: Cecil Co. Central Landfill

Purchase Order: 21-CCDPW-130

ANALYTICAL RESULTS

Project Location:

Sample Description/Location:

Initial Vacuum(in Hg): 30

Field Sample #: 36957

Sub Description/Location:

Final Vacuum(in Hg): 24.2

Sample ID: 22E1025-02

Canister ID: 063-00134: 30634

Receipt Vacuum(in Hg): 24.2

Sample Matrix: Air

Canister Size: 6

Flow Controller Type: Passive

Sampled: 5/17/2022 11:30

Flow Controller ID: RMA-13-SSV

Sample Type: LV

Volatile Organic Compounds by GC/FID

Analyte	ppmv-C			Flag/Qual	EPA Method 25C			Dilution	PF	Date/Time Analyzed	Analyst
	Results	MDL	LOQ		Results	MDL	LOQ				
TNMOC as Carbon (Mean), N2 corrected	2390	204	204		398.3	34.0	34.0	6	1	5/25/22 17:01	DFH
TNMOC as Carbon (1), N2 corrected	2340	204	204		390.0	34.0	34.0	6	1	5/25/22 17:01	DFH
TNMOC as Carbon (2), N2 corrected	2430	204	204		405.0	34.0	34.0	6	1	5/25/22 17:01	DFH
TNMOC as Carbon (3), N2 corrected	2390	204	204		398.3	34.0	34.0	6	1	5/25/22 17:01	DFH
TNMOC as Carbon (Mean), O2 corrected	2180	204	204		363.3	34.0	34.0	6	1	5/25/22 17:01	DFH
TNMOC as Carbon (1), O2 corrected	2140	204	204		356.7	34.0	34.0	6	1	5/25/22 17:01	DFH
TNMOC as Carbon (2), O2 corrected	2220	204	204		370.0	34.0	34.0	6	1	5/25/22 17:01	DFH
TNMOC as Carbon (3), O2 corrected	2190	204	204		365.0	34.0	34.0	6	1	5/25/22 17:01	DFH

Volatile Organic Compounds by GC/TCD - Unadjusted, as received basis EPA 3C

Analyte	Vol%			Flag/Qual	Dilution	PF	Date/Time Analyzed	Analyst
	Result	MDL	LOQ					
Methane, as received	40.4	0.45	0.45		9	1	5/26/22 10:10	DFH
Carbon dioxide, as received	27.3	0.45	0.45		9	1	5/26/22 10:10	DFH
Oxygen (O2), as received	2.51	0.45	0.45		9	1	5/26/22 10:10	DFH
Hydrogen (H2), as received	ND	0.18	0.18		9	1	5/26/22 10:10	DFH
Nitrogen (N2), as received	15.2	0.45	0.45		9	1	5/26/22 10:10	DFH
Carbon Monoxide, as received	ND	0.009	0.009		9	1	5/26/22 10:10	DFH



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Certificate of Analysis

Final Report

Laboratory Order ID 22E1025

Client Name: BAI Group
366 Walker Drivem Suite 300

Date Received: May 18, 2022 10:06
Date Issued: May 31, 2022 14:22

State College, PA 16801

Submitted To: Laura Vallett

Project Number: 21-CCDPW-130

Client Site I.D.: Cecil Co. Central Landfill

Purchase Order: 21-CCDPW-130

ANALYTICAL RESULTS

Project Location:

Sample Description/Location:

Initial Vacuum(in Hg): 30

Field Sample #: 38755

Sub Description/Location:

Final Vacuum(in Hg): 13.8

Sample ID: 22E1025-03

Canister ID: 063-00144: 38755

Receipt Vacuum(in Hg): 13.8

Sample Matrix: Air

Canister Size: 6

Flow Controller Type: Passive

Sampled: 5/17/2022 09:57

Flow Controller ID: RMA-13-SSV

Sample Type: LV

Volatile Organic Compounds by GC/FID

Analyte	ppmv-C			Flag/Qual	EPA Method 25C			Dilution	PF	Date/Time Analyzed	Analyst
	Results	MDL	LOQ		Results	MDL	LOQ				
TNMOC as Carbon (Mean), N2 corrected	1700	85.0	85.0		283.3	14.2	14.2	2.5	1	5/26/22 12:06	DFH
TNMOC as Carbon (1), N2 corrected	1650	85.0	85.0		275.0	14.2	14.2	2.5	1	5/26/22 12:06	DFH
TNMOC as Carbon (2), N2 corrected	1770	85.0	85.0		295.0	14.2	14.2	2.5	1	5/26/22 12:06	DFH
TNMOC as Carbon (3), N2 corrected	1680	85.0	85.0		280.0	14.2	14.2	2.5	1	5/26/22 12:06	DFH
TNMOC as Carbon (Mean), O2 corrected	1530	85.0	85.0		255.0	14.2	14.2	2.5	1	5/26/22 12:06	DFH
TNMOC as Carbon (1), O2 corrected	1490	85.0	85.0		248.3	14.2	14.2	2.5	1	5/26/22 12:06	DFH
TNMOC as Carbon (2), O2 corrected	1600	85.0	85.0		266.7	14.2	14.2	2.5	1	5/26/22 12:06	DFH
TNMOC as Carbon (3), O2 corrected	1520	85.0	85.0		253.3	14.2	14.2	2.5	1	5/26/22 12:06	DFH

Volatile Organic Compounds by GC/TCD - Unadjusted, as received basis EPA 3C

Analyte	Vol%			Flag/Qual	Dilution	PF	Date/Time Analyzed	Analyst
	Result	MDL	LOQ					
Methane, as received	43.6	0.45	0.45		9	1	5/27/22 13:47	DFH
Carbon dioxide, as received	31.4	0.45	0.45		9	1	5/27/22 13:47	DFH
Oxygen (O2), as received	1.92	0.45	0.45		9	1	5/27/22 13:47	DFH
Hydrogen (H2), as received	ND	0.18	0.18		9	1	5/27/22 13:47	DFH
Nitrogen (N2), as received	14.1	0.45	0.45		9	1	5/27/22 13:47	DFH
Carbon Monoxide, as received	ND	0.009	0.009		9	1	5/27/22 13:47	DFH



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Date Received: May 18, 2022 10:06
Date Issued: May 31, 2022 14:22

State College, PA 16801

Submitted To: Laura Vallett

Project Number: 21-CCDPW-130

Client Site I.D.: Cecil Co. Central Landfill

Purchase Order: 21-CCDPW-130

ANALYTICAL RESULTS

Project Location:

Sample Description/Location:

Initial Vacuum(in Hg): 30

Field Sample #: 36448

Sub Description/Location:

Final Vacuum(in Hg): 20.8

Sample ID: 22E1025-04

Canister ID: 063-00233: 36448

Receipt Vacuum(in Hg): 20.8

Sample Matrix: Air

Canister Size: 6

Flow Controller Type: Passive

Sampled: 5/17/2022 10:45

Flow Controller ID: RMA-13-SSV

Sample Type: LV

Volatile Organic Compounds by GC/FID

Analyte	ppmv-C			Flag/Qual	EPA Method 25C			Dilution	PF	Date/Time Analyzed	Analyst
	Results	MDL	LOQ		Results	MDL	LOQ				
TNMOC as Carbon (Mean), N2 corrected	1870	136	136		311.7	22.7	22.7	4	1	5/26/22 16:46	DFH
TNMOC as Carbon (1), N2 corrected	1850	136	136		308.3	22.7	22.7	4	1	5/26/22 16:46	DFH
TNMOC as Carbon (2), N2 corrected	1920	136	136		320.0	22.7	22.7	4	1	5/26/22 16:46	DFH
TNMOC as Carbon (3), N2 corrected	1840	136	136		306.7	22.7	22.7	4	1	5/26/22 16:46	DFH
TNMOC as Carbon (Mean), O2 corrected	1690	136	136		281.7	22.7	22.7	4	1	5/26/22 16:46	DFH
TNMOC as Carbon (1), O2 corrected	1670	136	136		278.3	22.7	22.7	4	1	5/26/22 16:46	DFH
TNMOC as Carbon (2), O2 corrected	1730	136	136		288.3	22.7	22.7	4	1	5/26/22 16:46	DFH
TNMOC as Carbon (3), O2 corrected	1670	136	136		278.3	22.7	22.7	4	1	5/26/22 16:46	DFH

Volatile Organic Compounds by GC/TCD - Unadjusted, as received basis EPA 3C

Analyte	Vol%			Flag/Qual	Dilution	PF	Date/Time Analyzed	Analyst
	Result	MDL	LOQ					
Methane, as received	43.2	0.45	0.45		9	1	5/27/22 14:50	DFH
Carbon dioxide, as received	30.3	0.45	0.45		9	1	5/27/22 14:50	DFH
Oxygen (O2), as received	1.86	0.45	0.45		9	1	5/27/22 14:50	DFH
Hydrogen (H2), as received	ND	0.18	0.18		9	1	5/27/22 14:50	DFH
Nitrogen (N2), as received	13.6	0.45	0.45		9	1	5/27/22 14:50	DFH
Carbon Monoxide, as received	ND	0.009	0.009		9	1	5/27/22 14:50	DFH



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Certificate of Analysis

Final Report

Laboratory Order ID 22E1025

Client Name: BAI Group
366 Walker Drivem Suite 300

Date Received: May 18, 2022 10:06
Date Issued: May 31, 2022 14:22

State College, PA 16801

Submitted To: Laura Vallett

Project Number: 21-CCDPW-130

Client Site I.D.: Cecil Co. Central Landfill

Purchase Order: 21-CCDPW-130

Analytical Summary

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Volatile Organic Compounds by GC/FID			Preparation Method:	No Prep VOC GC Air	
22E1025-01	1.00 mL / 1.00 mL	EPA Method 25C	BFE1040	SFE0957	AF10074
22E1025-02	1.00 mL / 1.00 mL	EPA Method 25C	BFE1040	SFE0957	AF10074
22E1025-03	1.00 mL / 1.00 mL	EPA Method 25C	BFE1047	SFE0959	AF10074
22E1025-04	1.00 mL / 1.00 mL	EPA Method 25C	BFE1047	SFE0959	AF10074
Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Volatile Organic Compounds by GC/TCD - Unadjusted, as received basis			Preparation Method:	No Prep VOC GC Air	
22E1025-01	1.00 mL / 1.00 mL	EPA 3C	BFE1039	SFE0955	AG00026
22E1025-02	1.00 mL / 1.00 mL	EPA 3C	BFE1039	SFE0955	AG00026
22E1025-03	1.00 mL / 1.00 mL	EPA 3C	BFE1100	SFE1022	AG00026
22E1025-04	1.00 mL / 1.00 mL	EPA 3C	BFE1100	SFE1022	AG00026



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Client Site I.D.: Cecil Co. Central Landfill

Purchase Order: 21-CCDPW-130

Volatile Organic Compounds by GC/TCD - Unadjusted, as received basis - Quality Control

Enthalpy Analytical

Analyte	Reporting Result	Limit	Units	Spike Level	Source Result	%REC %REC Limits	RPD RPD	Limit	Qual
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Batch BFE1039 - No Prep VOC GC Air

Blank (BFE1039-BLK1)

Prepared & Analyzed: 05/26/2022

Methane	<	0.05	Vol%
Carbon dioxide	<	0.05	Vol%
Oxygen (O2)	<	0.05	Vol%
Hydrogen (H2)	<	0.02	Vol%
Nitrogen (N2)	<	0.05	Vol%
Carbon Monoxide	<	0.001	Vol%

LCS (BFE1039-BS1)

Prepared & Analyzed: 05/26/2022

Methane	4620	0.05	ppmv	5000	92.4	70-130
Carbon dioxide	4240	0.05	ppmv	5000	84.8	70-130
Oxygen (O2)	4910	0.05	ppmv	5000	98.1	70-130
Nitrogen (N2)	5130	0.05	ppmv	5000	103	70-130
Hydrogen (H2)	5330	0.02	ppmv	5100	104	70-130
Carbon Monoxide	4740	0.001	ppmv	5000	94.9	70-130

Duplicate (BFE1039-DUP1)

Source: 22E1025-01

Prepared & Analyzed: 05/26/2022

Methane	40.9	0.45	Vol%	40.8	0.276	5
Carbon dioxide	25.4	0.45	Vol%	25.6	0.535	5
Oxygen (O2)	2.67	0.45	Vol%	2.66	0.234	5
Nitrogen (N2)	15.1	0.45	Vol%	15.1	0.0907	5
Hydrogen (H2)	<	0.18	Vol%	<0.18	NA	5
Carbon Monoxide	<	0.009	Vol%	<0.009	NA	5

Duplicate (BFE1039-DUP2)

Source: 22E1025-02

Prepared & Analyzed: 05/26/2022

Methane	40.5	0.45	Vol%	40.4	0.0711	5
Carbon dioxide	27.5	0.45	Vol%	27.3	0.837	5
Oxygen (O2)	2.51	0.45	Vol%	2.51	0.0496	5
Hydrogen (H2)	<	0.18	Vol%	<0.18	NA	5
Nitrogen (N2)	15.2	0.45	Vol%	15.2	0.00493	5
Carbon Monoxide	<	0.009	Vol%	<0.009	NA	5



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Final Report

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366 Walker Drivem Suite 300

Date Received: May 18, 2022 10:06
Date Issued: May 31, 2022 14:22

State College, PA 16801

Submitted To: Laura Vallett

Project Number: 21-CCDPW-130

Client Site I.D.: Cecil Co. Central Landfill

Purchase Order: 21-CCDPW-130

Volatile Organic Compounds by GC/TCD - Unadjusted, as received basis - Quality Control

Enthalpy Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	Limit	RPD	Limit	Qual
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Batch BFE1039 - No Prep VOC GC Air

Duplicate (BFE1039-DUP3)

Source: 22E1246-01

Prepared & Analyzed: 05/26/2022

Methane	56.5	0.45	Vol%		57.0		1.04	5		
Carbon dioxide	36.0	0.45	Vol%		36.2		0.425	5		
Oxygen (O2)	<	0.45	Vol%		<0.45		NA	5		
Nitrogen (N2)	<	0.45	Vol%		<0.45		NA	5		
Hydrogen (H2)	<	0.18	Vol%		<0.18		NA	5		
Carbon Monoxide	<	0.009	Vol%		<0.009		NA	5		

Batch BFE1100 - No Prep VOC GC Air

Blank (BFE1100-BLK1)

Prepared & Analyzed: 05/27/2022

Methane	<	0.05	Vol%							
Carbon dioxide	<	0.05	Vol%							
Oxygen (O2)	<	0.05	Vol%							
Nitrogen (N2)	<	0.05	Vol%							
Hydrogen (H2)	<	0.02	Vol%							
Carbon Monoxide	<	0.001	Vol%							

LCS (BFE1100-BS1)

Prepared & Analyzed: 05/27/2022

Methane	4530	0.05	ppmv	5000	90.6	70-130				
Carbon dioxide	4010	0.05	ppmv	5000	80.2	70-130				
Oxygen (O2)	4830	0.05	ppmv	5000	96.5	70-130				
Hydrogen (H2)	5320	0.02	ppmv	5100	104	70-130				
Nitrogen (N2)	5060	0.05	ppmv	5000	101	70-130				
Carbon Monoxide	4670	0.001	ppmv	5000	93.3	70-130				

Duplicate (BFE1100-DUP1)

Source: 22E1385-03

Prepared & Analyzed: 05/27/2022

Methane	25.0	0.45	Vol%		24.9		0.344	5		
Carbon dioxide	50.9	0.45	Vol%		50.7		0.244	5		
Oxygen (O2)	0.69	0.45	Vol%		0.68		0.990	5		
Nitrogen (N2)	9.82	0.45	Vol%		9.80		0.253	5		
Carbon Monoxide	0.04	0.009	Vol%		0.04		0.409	5		



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Certificate of Analysis

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Laboratory Order ID 22E1025

Client Name: BAI Group
366 Walker Drivem Suite 300

Date Received: May 18, 2022 10:06
Date Issued: May 31, 2022 14:22

State College, PA 16801

Submitted To: Laura Vallett

Project Number: 21-CCDPW-130

Client Site I.D.: Cecil Co. Central Landfill

Purchase Order: 21-CCDPW-130

Volatile Organic Compounds by GC/TCD - Unadjusted, as received basis - Quality Control

Enthalpy Analytical

Analyte	Reporting			Spike Level	Source		%REC		RPD	
	Result	Limit	Units		Result	%REC	Limits	RPD	Limit	Qual

Batch BFE1100 - No Prep VOC GC Air

Duplicate (BFE1100-DUP2)

Source: 22E1385-04

Prepared & Analyzed: 05/27/2022

Methane	0.64	0.45	Vol%		0.65		0.0907	5
Carbon dioxide	62.3	0.45	Vol%		62.4		0.0738	5
Oxygen (O2)	1.35	0.45	Vol%		1.35		0.0825	5
Nitrogen (N2)	5.44	0.45	Vol%		5.45		0.0794	5
Carbon Monoxide	0.32	0.009	Vol%		0.32		0.177	5

Duplicate (BFE1100-DUP3)

Source: 22E1025-03

Prepared & Analyzed: 05/27/2022

Methane	43.6	0.45	Vol%		43.6		0.0744	5
Carbon dioxide	31.5	0.45	Vol%		31.4		0.235	5
Oxygen (O2)	1.92	0.45	Vol%		1.92		0.0589	5
Hydrogen (H2)	<	0.18	Vol%		<0.18		NA	5
Nitrogen (N2)	14.1	0.45	Vol%		14.1		0.0642	5
Carbon Monoxide	<	0.009	Vol%		<0.009		NA	5

Duplicate (BFE1100-DUP4)

Source: 22E1025-04

Prepared & Analyzed: 05/27/2022

Methane	43.2	0.45	Vol%		43.2		0.0164	5
Carbon dioxide	30.3	0.45	Vol%		30.3		0.0323	5
Oxygen (O2)	1.86	0.45	Vol%		1.86		0.00580	5
Hydrogen (H2)	<	0.18	Vol%		<0.18		NA	5
Nitrogen (N2)	13.6	0.45	Vol%		13.6		0.000954	5
Carbon Monoxide	<	0.009	Vol%		<0.009		NA	5

Duplicate (BFE1100-DUP5)

Source: 22E1106-01

Prepared: 05/27/2022 Analyzed: 05/31/2022

Methane	38.3	0.45	Vol%		37.5		2.11	5
Carbon dioxide	31.4	0.45	Vol%		30.5		2.64	5
Oxygen (O2)	1.59	0.45	Vol%		1.55		2.10	5
Nitrogen (N2)	23.4	0.45	Vol%		22.9		2.17	5
Hydrogen (H2)	<	0.18	Vol%		<0.18		NA	5
Carbon Monoxide	<	0.009	Vol%		<0.009		NA	5



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Date Received: May 18, 2022 10:06
Date Issued: May 31, 2022 14:22

State College, PA 16801

Submitted To: Laura Vallett

Project Number: 21-CCDPW-130

Client Site I.D.: Cecil Co. Central Landfill

Purchase Order: 21-CCDPW-130

Volatile Organic Compounds by GC/TCD - Unadjusted, as received basis - Quality Control

Enthalpy Analytical

Analyte	Reporting			Spike Level	Source		%REC		RPD	
	Result	Limit	Units		Result	%REC	Limits	RPD	Limit	Qual

Batch BFE1100 - No Prep VOC GC Air

Duplicate (BFE1100-DUP6)

Source: 22E1155-02

Prepared: 05/27/2022 Analyzed: 05/31/2022

Methane	56.2	0.45	Vol%	56.2	0.0542	5
Carbon dioxide	39.7	0.45	Vol%	39.7	0.00814	5
Oxygen (O2)	<	0.45	Vol%	<0.45	NA	5
Nitrogen (N2)	<	0.45	Vol%	<0.45	NA	5
Hydrogen (H2)	<	0.18	Vol%	<0.18	NA	5
Carbon Monoxide	<	0.009	Vol%	<0.009	NA	5



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State College, PA 16801

Submitted To: Laura Vallett

Project Number: 21-CCDPW-130

Client Site I.D.: Cecil Co. Central Landfill

Purchase Order: 21-CCDPW-130

Volatile Organic Compounds by GC/FID - Quality Control

Enthalpy Analytical

Analyte	Reporting			Spike Level	Source		%REC		RPD	
	Result	Limit	Units		Result	%REC	Limits	RPD	Limit	Qual

Batch BFE1040 - No Prep VOC GC Air

Blank (BFE1040-BLK1)

Prepared & Analyzed: 05/25/2022

TNMOC as Carbon (Mean), N2 corrected	<	34.0	ppmv-C
TNMOC as Carbon (1), N2 corrected	<	34.0	ppmv-C
TNMOC as Carbon (2), N2 corrected	<	34.0	ppmv-C
TNMOC as Carbon (3), N2 corrected	<	34.0	ppmv-C
TNMOC as Carbon (Mean), O2 corrected	<	34.0	ppmv-C
TNMOC as Carbon (1), O2 corrected	<	34.0	ppmv-C
TNMOC as Carbon (2), O2 corrected	<	34.0	ppmv-C
TNMOC as Carbon (3), O2 corrected	<	34.0	ppmv-C

Batch BFE1047 - No Prep VOC GC Air

Blank (BFE1047-BLK1)

Prepared & Analyzed: 05/26/2022

TNMOC as Carbon (Mean), N2 corrected	<	34.0	ppmv-C
TNMOC as Carbon (1), N2 corrected	<	34.0	ppmv-C
TNMOC as Carbon (2), N2 corrected	<	34.0	ppmv-C
TNMOC as Carbon (3), N2 corrected	<	34.0	ppmv-C
TNMOC as Carbon (Mean), O2 corrected	<	34.0	ppmv-C
TNMOC as Carbon (1), O2 corrected	<	34.0	ppmv-C
TNMOC as Carbon (2), O2 corrected	<	34.0	ppmv-C
TNMOC as Carbon (3), O2 corrected	<	34.0	ppmv-C



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State College, PA 16801

Submitted To: Laura Vallett

Project Number: 21-CCDPW-130

Client Site I.D.: Cecil Co. Central Landfill

Purchase Order: 21-CCDPW-130

Certified Analytes included in this Report

Analyte	Certifications	Analyte	Certifications
<i>EPA 3C in Air</i>			
Methane	VELAP		
Oxygen (O2)	VELAP		
Nitrogen (N2)	VELAP		

Code	Description	Laboratory ID	Expires
MADEP	Massachusetts DEP	M-VA913	06/30/2022
MdDOE	Maryland DE Drinking Water	341	12/31/2022
NC	North Carolina DENR	495	07/31/2022
NCDEQ	North Carolina DEQ	495	12/31/2022
NCDOH	North Carolina Department of Health	51714	07/31/2022
NJDEP	NELAP-New Jersey DEP	VA015	06/30/2022
NYDOH	New York DOH Drinking Water	12096	04/01/2023
PADEP	NELAP-Pennsylvania Certificate #007	68-03503	10/31/2022
VELAP	NELAP-Virginia Certificate #11821	460021	06/14/2022
WVDEP	West Virginia DEP	350	11/30/2022

Qualifiers and Definitions

RPD	Relative Percent Difference
Qual	Qualifiers
-RE	Denotes sample was re-analyzed
PF	Preparation Factor
MDL	Method Detection Limit
LOQ	Limit of Quantitation
ppbv	parts per billion by volume

TIC Tentatively Identified Compounds are compounds that are identified by comparing the analyte mass spectral pattern with the NIST spectral library. A TIC spectral match is reported when the pattern is at least 75% consistent with the published pattern. Compound concentrations are estimated and are calculated using an internal standard response factor of 1.

All EPA method 3C results are reported as normalized values when the sum total of all evaluated constituents is outside $\pm 10\%$ of the absolute.



Equipment Must be Returned By:

AIR ANALYSIS

CHAIN OF CUSTODY

1941 REYMET ROAD
RICHMOND, VIRGINIA 23237
(804) 358-8295 PHONE
(804) 358-8297 FAX

Page 1 of 1

COMPANY NAME: BAI Group	INVOICE TO: Mchapman@baigroupllc.com	PROJECT NAME/Quote #: Cecil Co. Central Landfill
CONTACT: Laura Vallett	INVOICE CONTACT: Melissa Chapman	SITE NAME: Cecil County Central Landfill
ADDRESS: 366 Walker Drive, Suite #300	INVOICE ADDRESS: 366 Walker Drive, Suite 300	PROJECT NUMBER: 21-CCDPW-130
PHONE #: 814-238-2060	INVOICE PHONE #: 610-495-5585	P.O. #: 21-CCDPW-130
FAX #:	EMAIL: Lvallett@baigroupllc.com	Pretreatment Program:
Is sample for compliance reporting? YES NO		YES NO PWS I.D. #:

SAMPLER NAME (PRINT): Mike Bogan

Regulatory State: MD Is sample from a chlorinated supply? YES NO

SAMPLER SIGNATURE: *MBogan* Turn Around Time: Circle: 10 5 Days or Day(s)

Matrix Codes: AA=Indoor/Ambient Air SG=Soil Gas LV=Landfill/Vent Gas OT=Other LV																			
CLIENT SAMPLE I.D.	Regulator Info		Canister Information					Sampling Start Information				Sampling Stop Information				ANALYSIS			
	Flow Controller ID	Cal Flow (mL/min)	Canister ID	6	Cleaning Batch ID	LAB Outgoing Canister Vacuum (in Hg/psia)	LAB Receiving Canister Vacuum (in Hg)	Barometric Pres. (in Hg):				Barometric Pres. (in Hg):				Matrix (See Codes)	EPA 3C	25C	
								Start Date	Start Time (24hr clock)	Initial Canister Vacuum (in Hg)	Starting Sample Temp °F	Stop Date	Stop Time (24hr clock)	Final Canister Vacuum (in Hg)	Ending Sample Temp °F				
1) 30634	RMA-13-SSV	125	30634	6	IC220425-02	30	25.8	5/17/22	11:47	27	58	5/17/22	12:17	23	58			✓	
2) 36957	RMA-13-SSV	200	36957	6	IC220425-02	30	24.2	5/17/22	11:00	30	58	5/17/22	11:30	24	58			✓	
3) 38755	RMA-13-SSV	125	38755	6	IC220425-02	30	13.8	5/17/22	09:27	30	58	5/17/22	09:57	15	58			✓	
4) 36448	RMA-13-SSV	250	36448	6	IC220426-01	30	20.8	5/17/22	10:15	30	58	5/17/22	10:45	22	58			✓	

RELINQUISHED: <i>MBogan</i>	DATE / TIME: 5/17/22 15:05	RECEIVED: <i>UPS</i>	DATE / TIME: 5/17/22 10:00	QC Data Package	LAB USE ONLY
UNQUISHED: <i>UPS</i>	DATE / TIME: 5/17/22 15:05	RECEIVED: <i>UPS</i>	DATE / TIME: 5/17/22 10:00	Level I ☐	Level II ☒
UNQUISHED: <i>UPS</i>	DATE / TIME: 5/17/22 15:05	RECEIVED: <i>UPS</i>	DATE / TIME: 5/17/22 10:00	Level III ☐	Level IV ☐

BAI Group 22E1025
Cecil Co. Central Landfill
Recd: 05/18/2022 Due: 06/02/2022

LANDFILL GAS MONITORING LOG

Cecil County Department of Public Works
Central Landfill

Site: Central Landfill		Date: 5/17/22		Ambient Temperature: 77°F	
Weather Conditions: Sunny		Barometric Pressure:			

Calibration Sequence:

- Turn on gas analyzer and run pump for five minutes.
- Using CH₄/CO₂ test gas, CH₄ reads 15 %, O₂ reads 0 %, CO₂ reads 15 %.
- Run pump one minute to purge.
- Using O₂ test gas, O₂ reads — %.
- Run pump one minute to purge.
- Take initial reading in atmosphere to check that O₂=20.8±0.3%, CH₄=0.0 to 0.1%.

Sample ID	Time	CH ₄	O ₂	CO ₂	Balance Gas	Notes
1	09:20	50.7	0.9	35.6	12.8	Before Sample 38755 was taken
2	10:10	50.7	0.9	35.6	12.8	Before Sample 36448 was taken
3	10:56	50.8	0.9	35.3	13.0	Before Sample 36957 was taken
4	11:43	50.8	0.9	35.3	13.0	Before Sample 30634 was taken
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						

Name: Mike Began

Signature: MBBegan



1941 Reymet Road • Richmond, Virginia 23237 • Tel: (804)-358-8295 Fax: (804)-358-8297

Certificate of Analysis

Final Report

Laboratory Order ID 22E1025

Client Name:	BAI Group	Date Received:	May 18, 2022 10:06
	366 Walker Drivem Suite 300	Date Issued:	May 31, 2022 14:22
	State College, PA 16801		
Submitted To:	Laura Vallett	Project Number:	21-CCDPW-130
Client Site I.D.:	Cecil Co. Central Landfill	Purchase Order:	21-CCDPW-130

Sample Conditions Checklist

Samples Received at:	21.00°C
How were samples received?	UPS
Were Custody Seals used? If so, were they received intact?	No
Are the custody papers filled out completely and correctly?	No
Do all bottle labels agree with custody papers?	Yes
Is the temperature blank or representative sample within acceptable limits or received on ice, and recently taken?	Yes
Are all samples within holding time for requested laboratory tests?	Yes
Is a sufficient amount of sample provided to perform the tests included?	Yes
Are all samples in appropriate containers for the analyses requested?	Yes
Were volatile organic containers received?	No
Are all volatile organic and TOX containers free of headspace?	NA
Is a trip blank provided for each VOC sample set? VOC sample sets include EPA8011, EPA504, EPA8260, EPA624, EPA8015 GRO, EPA8021, EPA524, and RSK-175.	NA
Are all samples received appropriately preserved? Note that metals containers do not require field preservation but lab preservation may delay analysis.	Yes

Analyze EPA 3C per Larua Valle via email. SE 5/23/22



U.S. Census Bureau

American FactFinder

POPULATION FINDER

United States | Maryland | Cecil County

Cecil County, Maryland

County, Maryland is 99,926.

The 2008 population
estimate for Cecil

city/ town, county, or zip

cecil

state

Maryland



search by address »

Note: Information about challenges to population estimates data can be found on the Population Estimates Challenges page.

View population trends...

	2008	2000	1990
Population	99,926	85,951	71,347

Source: [U.S. Census Bureau](#), 2008 Population Estimates, Census 2000, 1990 Census

View more results...

Population for all counties in Maryland, 2000:

[alphabetic](#) | [ranked](#)

Map of Persons per Square Mile, Maryland by County:

[2000](#) | [1990](#)

Map of Persons per Square Mile, County by County Subdivision:

[2000](#) | [1990](#)

See more data for Cecil County, Maryland on the Fact Sheet.

The letters PDF or symbol  indicate a document is in the Portable Document Format (PDF). To view the file you will need the Adobe® Acrobat® Reader, which is available for **free** from the Adobe web site.

**CECIL COUNTY DEPARTMENT OF PUBLIC WORKS
CENTRAL LANDFILL**

WASTE DISPOSAL RATES

Year	Population of Cecil County for Year X	Average Per Capita Waste Generation Rate For Year X	% of Waste Generated Managed at Landfills	Quantity of Waste Disposed in Year X ^{1,2}	Quantity of Waste Disposed in Year X
	(capita)	(t/capita)	(%)	(metric tons, t)	Short Tons
X	POP _x	WGR _x	SWDS _x	W _x = POP _x x WGR _x x SWDS _x	
1978	71,347	0.74	100.00%	52,797	58,198
1979	71,347	0.75	100.00%	53,510	58,985
1980	71,347	0.75	100.00%	53,510	58,985
1981	71,347	0.76	100.00%	54,224	59,771
1982	71,347	0.77	100.00%	54,937	60,558
1983	71,347	0.77	100.00%	54,937	60,558
1984	71,347	0.78	100.00%	55,651	61,344
1985	71,347	0.79	100.00%	56,364	62,131
1986	71,347	0.79	100.00%	56,364	62,131
1987	71,347	0.80	100.00%	57,078	62,917
1988	71,347	0.80	100.00%	57,078	62,917
1989	71,347	0.85	84.00%	50,942	56,154
1990	71,347	0.84	87.00%	52,140	57,475
1991	85,951	0.78	76.00%	50,952	56,165
1992	85,951	0.76	72.00%	47,032	51,844
1993	85,951	0.78	71.00%	47,600	52,470
1994	85,951	0.77	67.00%	44,342	48,879
1995	85,951	0.72	63.00%	38,987	42,976
1996	85,951	0.71	62.00%	37,836	41,707
1997	85,951	0.72	61.00%	37,750	41,612
1998	85,951	0.78	61.00%	40,895	45,080
1999	---	---	---	63,685	70,201
2000	---	---	---	69,339	76,433
2001	---	---	---	71,941	79,301
2002	---	---	---	66,059	72,818
2003	---	---	---	88,049	97,057
2004	---	---	---	102,158	112,610
2005	---	---	---	121,336	133,750
2006	---	---	---	150,371	165,756
2007	--	---	--	111,298	122,685
2008	--	---	--	98,938	109,060
2009	---	---	--	91,151	100,477
2010	---	---	--	80,189	88,393
2011	---	---	--	78,941	87,018

Notes:

1. Waste acceptance records for 1978 through 1998 were not available or not accurate. However, the Central Landfill since its opening in 1978 has accepted waste exclusively from Cecil County. As a result, the population of Cecil County in conjunction with Equation HH-2 was used to estimate the disposal rate for the period of 1978 through 1998. The population of Cecil County for 1990 and 2000 based the enclosed on U.S. Census Bureau report is 71,347 and 85,951, respectively. Therefore, conservatively a population 71,347 was used for years 1978 through 1990 and 85,951 was used for years 1991 through 1998.

2. The disposal rates for 1999 through 2011 are based on enclosed scale house records. Additionally, waste composition records and records showing the type of waste disposed within the landfill were also available for 1999 through 2011. As a result, for those years, only the waste disposed within the landfill was used within the calculations.

CECIL COUNTY DEPARTMENT OF PUBLIC WORKS
CENTRAL LANDFILL - WASTE ACCEPTANCE RECORD

1999 Material Type	Jan.	Feb.	Mar.	April	May	Jun.	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Residential	1404	1257	1501	1721	1673	2263	1957	2363	2583	2168	2220	1468	22,578
Commercial	747	857	1068	1538	1428	1602	2149	2143	2190	2027	1757	1240	18,746
Industrial	31	39	50	68	61	94	82	156	159	141	139	58	1,078
Institutional	42	48	47	46	56	58	53	45	74	84	80	81	714
Homeowners	1291	1185	1236	1391	1426	40	1517	1503	1579	1589	1558	1540	15,855
School Board	121	118	122	106	107	162	163	119	106	136	122	12	1,394
Total M.R.A.	3636	3504	4024	4870	4751	4219	5921	6329	6691	6145	5876	4399	60,365
Land Clearing	16	1	34	75	27	40	60	14	785	103	103	168	1,366
C&D Bldg.	325	426	362	494	513	483	680	623	468	465	465	481	6,164
C&D Road	0	55	6	2	1	4	1	17	20	10	10	24	286
Bulky Objects/ Special Waste	4	8	12	18	5	8	6	18	34	14	14	21	214
Asbestos	0	2	0	0	0	0	0	0	0	0	0	0	2
Sludge	199	250	263	309	243	259	211	211	264	308	308	384	3,141
Litter/ Special Waste	0	1	0	4	0	2	2	1	0	2	2	1	14
Contaminated Soil/ Spec. Waste	0	0	0	0	14	0	1	0	0	0	0	0	15
Total Non M.R.A.	544	743	677	902	803	796	961	884	1571	902	902	1079	11,202
Batteries	2	2	2	4	2	0	5	2	0	0	0	0	26
Brush & Yard Commercial	10	11	12	26	53	29	29	22	33	125	125	30	445
Brush & Yard Homeowners	138	128	251	317	256	1718	535	739	503	304	304	365	5,718
Commingsles	37	28	33	44	30	41	44	14	38	38	38	51	443
Cardboard	1	0	4	2	0	4	3	1	0	2	2	0	19
Newspaper	22	23	14	41	32	34	25	30	20	14	14	37	323
Mixed Paper	40	34	40	35	49	47	42	39	39	55	55	47	528
Tires	37	9	22	32	62	0	38	12	10	40	40	59	342
Appliances/ Scrap Metal	0	0	0	0	444	166	0	0	162	0	0	0	1,109
Mulch	117	39	39	156	156	117	78	78	156	234	234	156	1,482
Compost	668	334	668	167	668	501	334	501	668	668	668	501	6,012
E-Cycling	0	0	0	0	0	0	0	0	0	0	0	0	0
Recycling Total	1072	608	1085	824	1752	2657	1133	1438	1629	1480	1480	1246	16,447

Total Waste Landfilled (Tons) = 70,201

*Rows highlighted in blue represent the waste that was disposed within the landfill.

CECIL COUNTY DEPARTMENT OF PUBLIC WORKS
CENTRAL LANDFILL - WASTE ACCEPTANCE RECORD

2000 Material Type	Jan.	Feb.	Mar.	April	May	Jun.	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Residential	1567	1392	1444	1588	1638	1473	1354	1474	1228	1561	1400	1182	17,301
Commercial	1054	1449	2079	2955	3578	3537	2823	3066	3006	3149	2672	1874	31,242
Industrial	104	76	11	2	10	4	6	6	5	11	10	7	252
Institutional	75	81	81	109	98	99	79	89	72	74	74	66	997
Homeowners	1259	1296	1370	1500	1587	1354	1357	1418	1386	1317	1015	660	15,519
School Board	101	111	103	59	137	149	179	140	173	111	178	98	1,539
Total M.R.A.	4160	4405	5088	6213	7048	6616	5798	6193	5870	6223	5349	3887	66,850
Land Clearing	42	138	271	60	76	111	36	7	68	237	237	2	1,069
C&D Bldg.	268	360	386	367	531	283	337	387	487	541	541	308	5,029
C&D Road	0	0	135	0	7	9	5	11	0	204	204	167	562
Bulky Objects/ Special Waste	17	5	29	35	42	70	35	170	24	70	70	23	669
Asbestos	0	2	0	0	0	1	0.4	0	0	1	1	0	7
Sludge	269	266	313	265	331	316	244	267	262	236	236	265	3,289
Litter/ Special Waste	8	0	1	1	0	0	0	0	2	2	2	0	14
Contaminated Soil/ Spec. Waste	0	0	103	0	0	0	6	0	0	0	0	7	13
Total Non M.R.A.	604	771	1238	728	987	790	663	842	843	1241	1291	772	10,770
Batteries	14	0	0	0	9	0	13	0	0	0	0	0	36
Brush & Yard Commercial	5	0.1	17	53	58	50	31	68	32	76	76	20	463
Brush & Yard Homeowners	184	142	396	341	535	469	277	370	267	189	189	98	3,453
Commingsles	44	42	53	39	51	50	46	47	42	52	52	14	508
Cardboard	4	0	0	2	2	2	3	2	4	5	5	4	31
Newspaper	37	8	15	16	17	8	19	38	31	47	47	37	330
Mixed Paper	39	42	58	34	47	42	73	43	32	34	34	19	503
Tires	17	35	18	10	8	29	57	34	7	37	37	59	346
Appliances/ Scrap Metal	0	0	307	236	0	0	0	138	249	0	0	0	1,295
Mulch	156	156	78	156	78	156	78	156	585	273	273	78	2,067
Compost	668	501	668	334	668	501	501	668	1169	835	835	501	7,515
E-Cycling	0	0	0	0	0	0	0	0	0	0	0	0	0
Recycling Total	1168	926	1610	1221	1473	1307	1098	1564	2418	1381	1548	830	16,544

Total Waste Landfilled (Tons) = 76,433

*Rows highlighted in blue represent the waste that was disposed within the landfill.

CECIL COUNTY DEPARTMENT OF PUBLIC WORKS
CENTRAL LANDFILL - WASTE ACCEPTANCE RECORD

2001 Material Type	Jan.	Feb.	Mar.	April	May	Jun.	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Residential	1045	844	1067	1450	1966	1729	1631	1699	1430	1748	16546	1500	17,765
Commercial	1549	1392	1998	2689	3873	4376	4640	4944	4227	4321	4224	3961	42,194
Industrial	5	6	11	11	30	13	8	14	11	14	18	0	141
Institutional	80	58	82	90	88	67	75	77	64	81	86	81	929
Homeowners	660	596	731	745	708	719	701	644	563	668	576	583	7,894
School Board	108	109	119	99	155	249	313	109	138	120	135	150	1,804
Total M.R.A.	3447	3005	4008	5084	6820	7153	7368	7487	6433	6952	6695	62756	70,727
Land Clearing	12	58	106	164	192	181	619	143	82	73	47	23	1,700
C&D Bldg.	333	226	309	321	280	256	304	311	295	441	380	280	3,736
C&D Road	87	68	240	13	49	23	51	9	16	19	47	1	623
Bulky Objects/ Special Waste	16	3	29	18	7	10	29	14	9	106	24	16	281
Asbestos	1	0	0	1	1	0	0	0	1	0	0	1	5
Sludge	352	378	279	352	309	326	273	335	355	422	108	307	3,796
Litter/ Special Waste	6	0	0	2	0	2	20	61	1	1	0	1	94
Contaminated Soil/ Spec. Waste	0	0	0	0	0	19	18	2	0	0	0	0	39
Total Non M.R.A.	807	733	963	871	838	817	1314	875	759	1062	606	629	10,274
Batteries	0	0	12	0	8	0	11	0	0	8	0	0	39
Brush & Yard Commercial	11	7	34	61	50	54	40	33	32	64	102	38	5,626
Brush & Yard Homeowners	84	94	197	235	149	140	122	108	164	136	203	110	1,742
Commingsles	48	47	59	57	59	57	61	60	58	55	58	39	658
Cardboard	0	6	4	4	4	5	5	7	2	5	4	3	49
Newspaper	34	23	53	20	34	55	23	34	22	34	34	12	378
Mixed Paper	30	27	36	37	23	38	36	47	31	20	27	18	370
Tires	27	18	24	26	67	28	6	34	45	0	22	19	316
Appliances/ Scrap Metal	0	0	0	123	435	144	0	17	431	188	0	0	1,338
Mulch	117	156	195	156	156	273	156	156	390	273	390	195	2,613
Compost	668	668	668	668	501	501	668	1002	1336	668	1002	501	8,861
E-Cycling	0	0	0	0	0	0	0	0	0	0	0	0	0
Recycling Total	1019	1046	1282	1387	1496	1295	1128	1498	2511	1451	1842	935	16,880

Total Waste Landfilled (Tons) = 79,301

*Rows highlighted in blue represent the waste that was disposed within the landfill.

CECIL COUNTY DEPARTMENT OF PUBLIC WORKS
CENTRAL LANDFILL - WASTE ACCEPTANCE RECORD

2002 Material Type	Jan.	Feb.	Mar.	April	May	Jun.	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Residential	1543	692	1074	1447	1516	1406	1609	1472	1170	1582	1390	1477	16,378
Commercial	3635	1249	2457	3450	4194	3857	3999	3278	2745	2704	2704	2990	37,577
Industrial	0	0	0	0	0	0	0	0	0	0	0	0	0
Institutional	76	40	77	76	69	70	68	74	80	84	84	71	869
Homeowners	462	395	440	449	536	446	631	544	501	478	478	476	5,844
School Board	178	85	179	128	165	157	125	106	153	139	139	109	1,652
Total M.R.A.	5894	24613	4227	5550	6480	5936	6432	5474	4649	4795	4795	5123	62,320
Land Clearing	63	7	19	23	46	421	425	16	1	1	1	20	1,049
C&D Bldg.	139	153	382	274	484	494	550	526	136	621	621	374	4,565
C&D Road	12	5	31	1	34	9	14	16	4	46	46	10	216
Bulky Objects/ Special Waste	7	24	73	103	47	204	71	41	5	39	39	64	753
Asbestos	0	0	0	0	0	0	1	0	0	0	0	0	3
Sludge	369	184	369	448	671	449	583	339	315	252	252	267	4,559
Litter/ Special Waste	0	0	1	2	0	0	26	27	0	12	12	0	68
Contaminated Soil/ Spec. Waste	0	0	0	0	1	301	0	0	0	0	0	32	334
Total Non M.R.A.	590	373	875	851	1283	1878	1670	965	481	971	863	787	11,547
Batteries	10	0	0	9	0	0	10	0	0	0	0	0	29
Brush & Yard Commercial	32	12	17	58	59	50	29	23	27	121	35	29	492
Brush & Yard Homeowners	72	64	122	207	219	151	167	190	111	217	303	70	1,893
Commingsles	49	54	41	47	60	45	77	82	0	12	29	30	526
Cardboard	3	0	3	1	0	2	0	1	0	0	0	0	10
Newspaper	20	22	26	19	0	0	0	10	0	0	13	0	110
Mixed Paper	41	20	31	32	11	0	5	7	0	22	29	44	242
Tires	67	7	38	20	0	0	6	0	0	6	70	28	242
Appliances/ Scrap Metal	0	144	380	18	0	0	126	213	0	0	0	0	881
Mulch	156	117	156	234	195	312	273	273	330	468	429	390	3,333
Compost	1248	750	1249	1500	1249	1999	1749	1749	2500	3000	2750	2500	22,243
E-Cycling	0	0	0	0	0	0	0	0	0	0	0	0	0
Recycling Total	1698	1190	2063	2145	1793	2559	2442	2548	2988	3846	3658	3091	30,001

Total Waste Landfilled (Tons) = 72,818

*Rows highlighted in blue represent the waste that was disposed within the landfill.

CECIL COUNTY DEPARTMENT OF PUBLIC WORKS
CENTRAL LANDFILL - WASTE ACCEPTANCE RECORD

2003 Material Type	Jan.	Feb.	Mar.	April	May	Jun.	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Residential	1380	1155	1857	2040	1968	2261	2101	2063	2647	2083	1975	1998	23,548
Commercial	2986	2138	3046	3373	3509	4030	4802	4536	4635	4555	4124	3816	45,500
Industrial	0	0	0	0	0	0	0	0	0	0	0	0	0
Institutional	71	55	87	79	81	88	76	80	80	86	78	65	926
Homeowners	823	650	1130	1064	1018	1060	1226	1148	1072	1105	883	832	12,011
School Board	235	168	237	144	132	206	212	187	121	137	155	177	2,111
Total M.R.A.	5495	4166	6357	6700	6728	7645	8417	8014	8555	7966	7215	6888	84,146
Land Clearing	72	0	22	2	1	0	56	7	22	0	0	2	184
C&D Bldg.	427	199	509	774	704	808	216	1005	899	807	781	551	7,680
C&D Road	8	3	9	27	64	35	12	97	1	7	9	16	288
Bulky Objects/ Special Waste	13	4	21	95	31	66	48	64	28	31	48	114	563
Asbestos	0	0	0	0	0	0	0	0	0	6	2	0	8
Sludge	254	297	213	548	590	435	580	318	352	267	233	308	4,395
Litter/ Special Waste	0	0	0	0	0	0	17	0	0	0	0	0	17
Contaminated Soil/ Spec. Waste	0	0	0	0	7	0	0	2	0	1	0	0	10
Total Non M.R.A.	774	503	774	1446	1397	1344	929	1493	1302	1119	1073	991	13,145
Batteries	0	0	0	0	0	0	0	0	14	9	0	0	23
Brush & Yard Commercial	16	6	29	54	73	81	67	47	92	61	88	8	622
Brush & Yard Homeowners	32	24	75	322	263	120	136	178	317	190	125	43	1,825
Commingsles	49	0	59	68	41	67	50	38	52	46	32	57	559
Cardboard	0	0	0	0	0	0	0	0	3	0	0	0	3
Newspaper	0	0	0	9	11	11	10	0	0	0	0	20	61
Mixed Paper	0	14	8	59	26	40	15	14	23	14	28	6	247
Tires	0	0	12	0	30	13	27	28	35	12	16	16	189
Appliances/ Scrap Metal	0	0	447	60	0	7	0	252	466	48	0	0	1,280
Mulch	117	117	156	117	156	195	195	273	156	312	273	750	2,817
Compost	750	750	1249	750	1248	1249	1249	2333	1248	1999	1749	117	14,691
E-Cycling	0	0	0	0	0	0	0	0	0	0	0	0	0
Recycling Total	964	911	2035	1439	1848	1783	1749	3163	2406	2691	2311	1017	22,317

Total Waste Landfilled (Tons) = 97,057

*Rows highlighted in blue represent the waste that was disposed within the landfill.

CECIL COUNTY DEPARTMENT OF PUBLIC WORKS
CENTRAL LANDFILL - WASTE ACCEPTANCE RECORD

2004 Material Type	Jan.	Feb.	Mar.	April	May	Jun.	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Residential	1697	1523	1947	1843	1928	2490	2037	2727	2491	1994	2203	2153	25033
Commercial	3174	3950	4824	4414	4473	5841	5858	5280	4725	5354	4990	5104	57,987
Industrial	0	0	0	0	0	0	0	0	0	0	0	0	0
Institutional	59	64	77	71	71	82	99	89	81	77	78	74	922
Homeowners	801	818	951	1076	1168	1075	892	683	788	990	979	897	11118
School Board	158	138	222	211	235	459	124	145	123	133	97	96	2141
Total M.R.A.	5889	6493	8021	7615	7875	9947	9010	8324	8208	8548	8347	8324	97201
Land Clearing	0	25	3	24	2	2	12	34	0	10	1	1	114
C&D Bldg.	538	796	835	744	881	1154	689	904	444	958	839	639	9,421
C&D Road	2	1	18	20	16	5	552	6	5	1	2	0	628
Bulky Objects/ Special Waste	28	45	80	73	102	158	112	107	22	69	37	28	861
Asbestos	0	0	0	0	0	0	0	0	0	0	0	0	0
Sludge	273	451	539	382	424	524	459	553	47	245	196	383	4,476
Litter/ Special Waste	0	0	0	0	0	0	16	7	0	0	0	0	23
Contaminated Soil/ Spec. Waste	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Non M.R.A.	841	1318	1475	1243	1425	1843	1840	1811	518	1283	1075	1051	15523
Batteries	13	0	0	0	10	0	0	12	0	0	11	0	46
Brush & Yard Commercial	2	3	13	47	72	51	34	51	53	53	86	21	486
Brush & Yard Homeowners	46	62	166	131	187	115	120	105	82	86	137	70	1307
Commingsles	36	32	53	57	37	41	53	41	9	37	36	55	487
Cardboard	0	4	0	0	0	0	0	0	0	0	0	0	4
Newspaper	0	11	0	26	9	0	0	0	3	0	0	0	49
Mixed Paper	23	29	0	18	7	7	24	0	0	13	21	32	174
Tires	51	16	17	48	15	27	32	30	4	0	16	16	272
Appliances/ Scrap Metal	0	80	423	0	0	0	60	533	19	37	28	357	1537
Mulch	117	117	117	156	156	156	117	156	156	156	156	117	1677
Compost	750	750	750	1248	1249	1249	750	1248	1249	124	1248	750	12490
E-Cycling	0	0	0	0	0	0	0	0	0	0	0	0	0
Recycling Total	1038	1104	1539	1731	1742	1646	1190	2176	1575	1631	1739	1418	18529

Total Waste Landfilled (Tons) = 112,610

*Rows highlighted in blue represent the waste that was disposed within the landfill.

CECIL COUNTY DEPARTMENT OF PUBLIC WORKS
CENTRAL LANDFILL - WASTE ACCEPTANCE RECORD

2005 MATERIAL TYPE	JAN.	FEB.	MAR.	APRIL	MAY	JUN.	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTALS
Residential	1952	1874	2384	2624	2511	2151	2295	2326	2064	1329	2429	2301	26240
Commercial	4158	4140	4644	5269	4852	6017	5460	6236	5904	6346	5028	4081	62135
Industrial	0	0	0	0	2	3	26	11	7	8	8	3	68
Institutional	78	63	66	75	60	55	89	82	78	99	80	62	887
Homeowners	811	686	958	1101	887	1270	1320	1209	946	1149	1061	1052	12450
School Board	106	121	254	155	121	246	89	146	240	100	191	130	1899
Total M.R.A.	7105	6884	8306	9224	8433	9742	9279	10010	9239	9031	8797	7629	103679
LandClearing	159	281	7	45	9	12	1	27	10	8	23	4	586
C&D Bldg.	428	792	940	123	1184	946	2262	2024	717	850	944	1789	12999
C&D Road	0	0	3	14	22	940	667	2053	790	2303	3052	342	10186
Bulky Objects/ Special Waste	11	21	57	43	46	53	8	102	17	14	197	11	580
Asbestos	0	5	0	0	0	0	0	0	0	0	0	8	13
Sludge	338	386	491	590	504	454	410	353	225	460	405	272	4888
Litter/ Special Waste	4	0	0	0	10	27	148	10	728	4	186	4	1121
Contaminated Soil/ Spec. Waste	0	1	0	0	0	16	0	55	0	1	211	0	284
Total Non M.R.A.	940	1488	1498	815	1775	2448	3496	4824	2487	3640	5018	2430	30657
Batteries	0	0	0	13	0	0	8	0	9	0	0	0	30
Brush & Yard Commercial	11	109	21	73	77	29	65	194	164	234	212	121	1310
Brush & Yard Homeowners	48	15	118	45	32	345	307	204	633	176	226	76	2225
Commingles	70	33	53	30	38	51	36	42	33	41	41	48	516
Cardboard	0	0	0	0	0	0	0	0	0	0	0	0	0
Newspaper	0	0	0	4	10	1	0	2	0	0	5	9	31
Mixed Paper	3	30	17	19	21	3	18	41	29	17	33	12	243
Tires	0	61	30	29	0	50	11	15	38	13	0	40	287
Appliances/ Scrap Metal	147	0	0	0	0	371	293	0	0	0	0	260	1071
Mulch Marketed	0	0	1	2	1	1	2	1	5	3	1	0	17
Mulch	0	0	0	0	156	156	156	156	156	156	0	0	936
Compost	0	0	0	0	1248	888	888	888	888	888	0	0	5688
E-Cycling	0	0	0	0	0	0	0	16	8	0	0	0	24
Recycling Total	279	248	240	215	1583	1895	1784	1559	1963	1528	518	566	12378
Total Waste Landfilled (Tons) =													133750

*Rows highlighted in blue represent the waste that was disposed within the landfill.

CECIL COUNTY DEPARTMENT OF PUBLIC WORKS
CENTRAL LANDFILL - WASTE ACCEPTANCE RECORD

2006 MATERIAL TYPE	JAN.	FEB.	MAR.	APRIL	MAY	JUN.	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTALS
Residential	2451	1882	2128	2636	2759	2824	2153	2616	1958	2613	2352	1740	28112
Commercial	4462	3946	5027	4431	5538	5174	5863	5476	5230	4701	4445	4013	58306
Industrial	11	0	0	12	4	7	5	2	18	2	9	11	81
Institutional	31	15	35	10	26	12	33	50	74	41	19	18	364
Homeowners	985	828	1003	1083	1107	1099	1149	1119	1148	1050	1136	1178	12885
School Board	389	163	412	191	333	439	404	383	403	395	284	320	4116
Total M.R.A.	8329	6834	8605	8363	9767	9555	9607	9646	8831	8802	8245	7280	103864
LandClearing	5	22	15	1	21	7	9	3	27	1	0	0	111
C&D Bldg.	1171	750	962	1176	1195	1567	1099	933	1166	1007	1068	1232	13326
C&D Road	482	414	11005	9084	4294	4786	26	714	848	2495	1054	1872	37074
Bulky Objects/ Special Waste	35	16	50	25	45	29	6389	17	59	23	4	1	6693
Asbestos	1	0	0	0	0	0	0	0	0	0	2	0	3
Sludge	359	345	428	377	391	464	363	439	287	481	331	323	4588
Litter/ Special Waste	0	0	3	19	5	3	23	10	0	5	78	29	175
Contaminated Soil/ Spec. Waste	0	0	3	0	0	1	2	0	0	0	4	23	33
Total Non M.R.A.	2053	1547	12486	10682	5951	6857	7911	2116	2387	4012	2541	3480	62003
Batteries	10	0	0	0	15	0	0	0	10	0	0	0	35
Brush & Yard Commercial	239	172	361	248	280	274	318	316	212	132	181	330	3063
Brush & Yard Homeowners	169	131	376	315	309	261	355	347	354	274	288	116	3295
Pallets	11	6	13	10	11	61	10	9	3	1	2	8	145
Commingles	47	31	54	41	47	54	68	48	34	64.58	16.58	26.72	531.88
Cardboard	0	0	0	0	0	0	0	2	0	0	0	0	2
Newspaper	20	18	29	7	10	14	8	13	11	25.68	71.74	104.3	331.72
Mixed Paper	13	38	27	0	26	2	33	50	36	27.75	39.69	63.96	356.4
Tires	29	0	25	57	0	43	0	42	57	0	40	19	312
Appliances/ Scrap Metal	295	0	1	36	1	137	529	3	0	0	462	28	1492
Marketed Mulch	0	3	27	29	23	0	0	0	0	2	0	0	84
Mulch	5733	4446	8178	6014	0	0	1638	0	1580	2456	644	702	31391
Compost	336	260	479	0	0	0	96	27	468	0	0	172	1838
E-Cycling	0	0	0	7	0	0	6	4	4	0	6	5	32
Recycling Total	6902	5105	9570	6764	722	846	3061	861	2769	2983.01	1751.01	1574.98	42909
Total Waste Landfilled (Tons) =													165756

*Rows highlighted in blue represent the waste that was disposed within the landfill.

CECIL COUNTY DEPARTMENT OF PUBLIC WORKS
CENTRAL LANDFILL - WASTE ACCEPTANCE RECORD

2007 Incoming	Jan.	Feb.	Mar.	April	May	Jun.*	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Residential	1741.74	1290.36	1729.44	1819.38	2048.49	1962.85	1749.93	2026.48	1628.98	1757.69	1750.89	1757.65	21263.88
Commercial	3869.36	3098.71	4145.88	3599.73	3627.26	3615.87	3759.46	3836.61	3164.09	3870.83	3524.71	3308.63	43421.14
Industrial	5.49	0.53	10.33	351.17	189.85	9.41	49.26	10.83	11.13	8.88	13.74	127.95	788.57
Institutional	40.34	25.87	35.75	49.22	80.12	95.73	80.44	86.57	68.39	86.29	69.52	80.64	798.88
Homeowners	1030.75	838.36	1103.23	1126.83	1237.27	1208.83	1183.02	1128.81	1043.66	994.83	989.09	1037.19	12921.87
School Board	201.21	162.86	251.32	568.54	862.26	394.67	817.89	1965.70	646.15	325.50	398.34	214.49	6808.93
Total M.R.A.	6888.89	5416.69	7275.95	7514.87	8045.25	7287.36	7640.00	9055.00	6562.40	7044.02	6746.29	6526.55	86003.27
LandClearing	0	0.58	0.00	2.07	0.00	36.76	11.54	0.00	0.00	0.00	0.00	0.00	50.95
C&D Bldg.	1521.81	1057.45	1642.76	2180.26	4782.33	2796.29	3031.30	3010.78	2423.12	2719.79	2339.52	2032.31	29537.72
Dirt	54.43	9.00	4201.23	3897.19	2051.06	4928.10	4425.36	1962.50	1109.71	1542.70	2413.36	1116.59	27711.23
Concrete (stockpiled)	35.45	22.70	48.10	32.15	155.71	270.91	227.91	1.81	33.14	23.50	362.23	80.00	1293.61
Asphalt (stockpiled)	0	0.00	0.00	20.00	0.00	479.23	83.67	305.00	157.50	245.20	651.13	0.00	1941.73
Millings (stockpiled/road base)	60	0.00	0.00	80.00	160.00	120.00	320.00	20.00	60.00	2530.64	77.50	0.00	3428.14
Bulky Objects/ Special Waste	12.3	1.06	7.99	3.70	1.81	26.29	9.42	3.65	5.92	1.11	1.48	2.00	76.73
Asbestos	0	1.79	0.65	13.77	0.00	0.00	0.87	3.05	0.00	1.09	0.68	3.33	25.23
Sludge	427.62	268.72	418.67	372.79	785.55	995.26	391.49	334.55	292.64	320.04	350.00	1036.93	5994.26
Hazardous Waste	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.07	0.00	0.00	9.07
Litter/ Special Waste	16.56	141.35	95.95	93.10	235.37	70.60	144.61	92.07	63.00	36.81	29.90	25.04	1044.36
Contaminated Soil/ Spec. Waste	1.31	0.00	1.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.05
Total Non M.R.A.	2129.48	1502.65	6417.09	6695.03	8171.83	9723.44	8646.17	5733.41	4145.03	7429.95	6225.80	4296.20	71116.08
Batteries	10	0.00	0.00	6.93	0.00	27.30	0.00	0.00	7.93	0.00	0.00	0.00	52.16
Brush & Yard Commercial	249.41	93.72	266.83	222.88	297.05	267.38	128.16	201.92	212.72	238.51	220.23	142.83	2541.64
Brush & Yard Homeowners	134.24	51.62	275.60	417.17	427.12	392.40	358.09	231.36	258.46	224.01	243.75	179.00	3192.82
Pallets	0.5	3.01	2.50	6.01	7.50	27.50	27.50	67.50	7.50	5.00	10.00	12.50	177.02
Commingles	20.56	16.87	23.81	22.77	25.42	24.63	99.63	25.05	24.45	29.98	30.48	32.95	376.60
Newspaper	80.26	65.87	91.83	88.93	99.27	94.98	60.89	97.83	94.31	115.62	117.57	127.08	1134.44
Mixed Paper	49.21	40.39	56.12	54.52	60.86	58.04	25.83	59.98	57.63	70.66	71.85	77.66	682.75
Tires	14.9	3.80	6.29	7.98	22.90	27.69	38.90	23.79	32.42	31.36	21.52	0.00	27.79
Appliances/ Scrap Metal	0	8.21	392.34	0.00	0.00	227.86	121.77	0.00	0.00	270.91	0.00	109.64	1130.73
Mulch	13104	0.00	0.00	6715.80	9945.00	10728.00	10705.50	0.00	9128.34	8798.4	468.00	6470.10	76063.14
Compost	0	0.00	190.27	206.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	396.32
E-Cycling	6.75	10.37	6.00	6.37	18.22	13.43	7.09	3.65	7.45	8.14	13.07	6.61	107.15
Fluorescent Lamps	0	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.32	0.00	0.39	0.73
Textiles	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ink Cartridges	0.045	0.00	0.09	0.03	0.04	0.04	0.04	0.03	0.04	0.00	0.00	0.00	0.34
Nicad Batteries	0	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Alkaline Batteries	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.02
Paint	0	0.00	0.00	6.85	0.00	0.00	0.00	0.00	10.90	0.00	0.00	0.00	17.75
Propane	0	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.03
Freon	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.02
Recycling Total	13669.875	293.86	1311.68	7755.46	10903.38	11889.25	11573.40	711.11	9831.25	9792.59	1196.47	7158.76	85901.46
Total Waste Landfilled (Tons) =													122685

*Rows highlighted in blue represent the waste that was disposed within the landfill.

CECIL COUNTY DEPARTMENT OF PUBLIC WORKS
CENTRAL LANDFILL - WASTE ACCEPTANCE RECORD

2008 Incoming	Jan.	Feb.	Mar.	April	May	Jun.*	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Residential	1752.64	1480.97	1567.60	1642.49	1910.14	1811.19	2012.16	1835.66	1571.12	1189.21	1073.37	1177.17	19023.72
Commercial	3103.21	2648.80	3089.61	3315.74	3452.72	3361.50	3805.26	3960.29	4028.83	4599.60	3606.86	4050.76	43023.18
Industrial	152.84	7.51	9.58	100.71	5.66	3.43	15.92	5.31	7.18	758.68	1.14	12.17	1080.13
Institutional	69.6	79.96	87.19	53.00	67.85	62.12	73.82	53.91	57.51	73.90	76.58	76.80	832.24
Homeowners	940.96	818.54	950.36	1002.38	1080.18	1046.41	1065.09	1074.29	946.87	927.69	841.23	994.20	11688.20
Medications	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.13
Hazardous Waste (HHW)	0	0.00	0.00	7.58	0.00	0.00	0.00	0.00	0.00	9.32	0.00	0.00	9.07
School Board Trash	454.3	295.71	248.47	214.26	227.38	202.16	94.22	47.96	75.72	107.66	129.07	98.78	2195.69
Total M.R.A.	6473.55	5331.49	5952.81	6336.155	6743.93	6486.81	7066.47	6977.42	6687.23	7666.06	5728.38	6409.88	77860.19
LandClearing	0	0.00	0.94	0.00	0.00	2.26	0.00	0.00	0.00	63.63	1.78	0.00	68.61
C&D Bldg.	1934.03	1880.62	2412.86	2693.37	2481.26	2574.84	1759.01	1404.49	1824.56	2293.86	1698.87	1336.15	24293.92
Dirt	887.5	1379.83	414.52	233.81	267.61	2477.92	1100.72	2562.99	3758.96	3002.15	1938.44	1243.61	19268.06
Concrete (stockpiled)	71.46	4.16	16.74	221.74	52.01	94.00	86.83	86.39	40.89	41.72	31.41	18.29	765.64
Asphalt (stockpiled)	0	0.00	0.00	43.08	8.36	11.17	0.90	0.00	13.51	0.00	0.00	0.00	77.02
Millings (stockpiled/road base)	0	0.00	1.94	0.00	85.99	0.00	0.00	0.00	0.00	16.72	0.00	0.00	104.65
Bulky Objects/ Special Waste	45	0.00	1.70	3.85	24.02	16.18	6.01	4.06	5.73	13.92	0.00	0.00	120.47
Asbestos	0	0.06	0.79	3.85	1.15	0.69	0.00	0.00	0.08	0.00	0.82	0.01	7.45
Sludge	380	403.81	439.20	492.33	1054.08	890.24	504.83	359.19	444.79	181.88	395.14	348.65	5894.14
Litter/ Special Waste	148.91	157.05	49.58	77.33	38.18	39.40	62.04	47.93	22.88	95.06	51.05	78.62	868.03
Oil													98.04
Antifreeze													5.21
Freon	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.02
Contaminated Soil/ Spec. Waste	33.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.01
Sharps	0	0.00	0.00	0.00	0.00	0.03	0.03	0.03	0.03	0.24	0.03	0.06	0.45
Vegetable Oil	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tires	39.94	19.14	19.60	18.15	14.30	16.79	13.20	13.36	22.11	13.39	13.21	5.73	208.92
Total Non M.R.A.	3499.91	3825.53	3338.27	3769.36	4012.66	6106.70	3520.34	4465.05	6111.40	5708.96	4117.51	3025.33	51604.27
Brush & Yard Commercial	219.56	185.20	132.88	450.15	355.30	284.79	236.05	181.98	181.07	13.92	232.79	73.81	1204.41
Brush & Yard Homeowners	150.88	110.60	315.00	388.27	363.32	242.04	191.19	116.50	163.54	201.37	228.92	98.46	2570.09
Batteries	0	0.00	4.24	0.00	0.00	0.00	6.03	0.00	0.00	0.00	5.61	0.00	15.88
Pallets	15.89	32.84	12.60	13.72	26.61	21.15	9.77	6.23	5.38	7.19	5.10	4.25	160.73
Commingles	18.119	15.32	18.48	14.48	19.38	22.88	19.68	23.37	24.30	27.11	23.92	23.33	250.35
Newspaper	108.714	91.91	110.85	86.85	116.27	137.27	118.09	140.24	145.80	162.63	164.08	139.96	1522.67
Mixed Paper	54.357	45.96	55.43	43.43	58.14	68.64	59.04	70.12	72.90	81.32	71.75	69.98	751.05
Appliances/ Scrap Metal	0	0.00	195.17	5.95	8.61	133.24	84.95	0.00	154.47	0.00	36.67	0.00	619.06
Mulch	3223.35	2111.85	3779.10	4223.70	5335.20	3590.73	8307.00	6025.50	3978.00	1494.21	6660.23	5279.63	53819.42
Compost	402.52	585.00	0.00	466.11	487.22	600.41	0.00	0.00	3421.64	0.00	20.03	277.65	6260.58
E-Cycling	16.66	27.68	15.36	8.37	10.53	16.52	22.69	15.11	17.92	13.47	14.32	16.65	195.28
Fluorescent Lamps	0.21	0.17	0.32	0.50	0.41	0.39	0.33	0.44	0.53	1.03	0.40	0.96	5.68
Textiles	0	0.00	0.00	4.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.61	10.42
Ink Cartridges	0.114	0.00	0.00	0.15	0.04	0.05	0.00	0.40	0.10	0.10	0.10	0.10	1.15
Mixed Batteries	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.03
Paint	0	0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00	19.50	0.00	0.00	39.50
Propane	0	0.00	0.00	0.82	0.00	0.00	0.00	0.00	0.00	1.15	0.00	0.00	1.97
Recycling Total	3839.93	2910.73	4191.54	4888.88	6062.41	4591.28	8627.58	6281.41	7821.04	2001.21	7002.21	5990.39	63653.78
Total Waste Landfilled (Tons) =													109060

*Rows highlighted in blue represent the waste that was disposed within the landfill.

CECIL COUNTY DEPARTMENT OF PUBLIC WORKS
CENTRAL LANDFILL - WASTE ACCEPTANCE RECORD

2009 Incoming	Jan.	Feb.	Mar.	April	May	Jun.*	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Residential	1192.99	803.72	527.15	1378.05	2592.53	2728.12	2726.85	2543.25	2528.89	2223.69	2556.26	2749.13	22021.74
Commercial	3283.65	3697.68	4895.22	4441.65	3883.37	4040.37	4262.49	3772.40	3907.12	4064.17	4184.87	3391.28	47824.27
Industrial	1.19	0.00	7.43	1.01	28.77	3.60	11.40	0.29	0.00	0.00	1.86	0.00	55.55
Institutional	65.11	60.93	67.61	67.01	73.55	76.39	81.35	68.51	60.96	60.48	67.51	72.86	822.27
Homeowners	853.54	809.24	729.07	1013.37	1081.97	1045.66	1097.91	1063.18	968.16	967.66	900.03	962.00	11491.79
Medications	0	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.10
Hazardous Waste (HHW)	0	0.00	0.00	74.84	0.00	0.00	0.00	0.00	0.00	21.24	0.00	0.00	96.08
School Board Trash	232.69	73.44	59.13	119.62	111.73	113.45	102.85	162.27	104.84	117.22	93.61	79.49	1370.34
Total M,R,A.	5629.17	5445.01	6285.61	7095.6	7771.92	8007.59	8282.85	7609.9	5041.08	7454.51	7804.14	7254.76	83682.14
LandClearing	0	0.00	0.00	28.73	28.50	2.03	9.91	49.78	0.00	0.00	0.11	21.43	140.49
C&D Bldg.	1030.05	797.24	864.88	988.05	533.73	945.91	1993.60	769.64	763.89	832.99	707.26	691.00	10918.24
Dirt	740.21	236.50	1178.6	6177.74	3434.80	778.04	1215.05	810.44	104.62	90.32	203.49	200.63	15170.44
Concrete (stockpiled)	30.49	40.44	55.91	124.79	2.84	57.82	1.84	0.77	20.93	9.14	19.76	0.00	364.73
Asphalt (stockpiled)	0	0.00	0.00	3.66	3.35	27.69	0.00	0.00	0.00	0.00	11.17	0.00	45.87
Millings (stockpiled/road base)	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bulky Objects/ Special Waste	8.55	3.10	0.00	13.02	15.53	11.23	18.60	4.45	8.09	37.91	0.45	1.12	122.05
Asbestos	0	0.00	0.00	0.00	0.00	1.12	0.00	0.00	1.46	0.43	0.00	0.00	3.01
Sludge	471.81	619.09	328.11	706.18	697.84	385.89	416.31	305.50	224.76	403.35	400.63	261.06	5220.53
Litter/ Special Waste	22.27	62.22	46.92	76.97	6.82	39.66	54.32	129.00	56.83	64.07	7.31	2.24	568.63
Central Landfill Oil	3.76	2.80	4.03	6.30	7.70	2.92	4.81	4.44	6.35	4.55	4.20	3.06	54.93
Central Landfill Antifreeze	0.00	0.00	0.00	0.00	2.21	0.00	0.98	0.00	0.00	0.00	2.45	0.00	5.64
Freon	0	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.11
Contaminated Soil/ Spec. Waste	0	5.27	0.00	0.00	3.30	0.00	0.00	0.00	49.64	0.00	0.00	0.00	58.21
Sharps	0.03	0.03	0.30	0.40	0.03	0.12	0.03	0.03	0.03	0.05	0.03	0.03	1.11
Vegetable Oil	0.0875	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.06	0.08	0.66	0.06	1.36
Tires	6.25	20.26	15.81	18.84	16.70	18.45	22.36	9.39	15.72	17.61	27.43	9.77	198.59
Latex Paint Solidified	0	0.00	0.00	0.00	2.24	2.96	3.14	1.93	3.28	6.31	4.23	0.00	24.09
Total Non M,R,A.	2307.14	1766.66	2478.45	8125.48	4736.62	2252.31	3715.42	2074.02	1236.57	1442.83	1356.83	1180.57	32672.90
Brush & Yard Commercial	118.4	130.11	125.63	176.29	198.34	189.91	108.16	144.91	181.79	108.78	222.90	80.38	1785.60
Brush & Yard Homeowners	88.67	120.74	192.60	347.53	286.52	302.86	150.45	242.21	274.70	252.75	240.91	129.64	2629.58
Lead Acid Batteries	0	0.00	0.00	0.00	10.56	0.00	5.39	0.00	8.11	0.00	0.00	0.00	24.06
Pallets	4.45	0.08	8.41	12.70	9.25	11.03	8.61	3.25	10.99	3.78	4.08	5.55	82.18
Commingles	27.226	26.11	24.18	25.82	27.32	33.03	30.06	32.21	32.83	30.57	29.53	33.34	352.20
Newspaper	163.356	156.64	145.05	154.91	163.91	198.18	180.34	193.24	196.96	183.39	196.90	200.01	2132.88
Mixed Paper	81.678	78.32	72.53	77.45	81.96	99.09	90.17	96.62	98.48	91.70	98.45	100.01	1066.44
Appliances/ Scrap Metal	0	0.00	103.79	0.00	0.00	239.26	36.44	0.00	0.00	216.37	32.82	0.00	628.68
Mulch	4355.75	1396.50	3059.00	1596.00	4089.75	6548.85	4469.85	3675.00	6230.00	2182.95	4365.90	1163.75	43133.30
Compost	0	9.10	44.38	12.40	0.00	65.24	236.23	486.91	178.59	0.00	0.00	0.00	1032.85
E-Cycling	10.38	22.22	17.29	12.62	9.82	24.55	13.47	15.98	16.90	17.21	10.76	18.04	189.24
Fluorescent Lamps	0.13	0.36	0.54	0.15	0.33	0.50	0.33	0.48	0.43	0.36	0.38	0.29	4.28
Textiles	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.28	0.00	0.00	0.00	8.28
Ink Cartridges	0	0.05	0.06	0.09	0.25	0.15	0.30	0.25	0.30	0.20	0.30	0.30	2.25
Rechargeable Batteries	0	0.10	0.06	0.16	0.10	0.08	0.06	0.06	0.08	0.10	0.10	0.10	1.00
Recycled Paint	0	0.00	0.00	17.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.40
Cork	0.0025	0.0025	0.00	0.00	0.0025	0.00	0.0001	0.00	0.00	0.00	0.0001	0.00	0.01
Propane	0	0.00	0.00	0.46	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.86
Vinyl Siding	0	0.00	2.40	0.00	2.76	2.54	3.07	0.00	4.07	3.03	2.23	0.00	20.10
Tire Amnesty - Recycled Tires Tire	0	0.00	0.00	0.00	52.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	52.60
Recycling Total	4642.97	1689.47	3477.68	1910.16	4448.61	7222.50	5074.31	4504.00	6781.95	3087.49	4739.22	1731.30	49309.66
Total Waste Landfilled (Tons) =													100477

*Rows highlighted in blue represent the waste that was disposed within the landfill.

CECIL COUNTY DEPARTMENT OF PUBLIC WORKS
CENTRAL LANDFILL - WASTE ACCEPTANCE RECORD

2010 Incoming	Jan.	Feb.	Mar.	April	May	Jun.*	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Residential	2296.91	1743.98	2885.73	3033.58	2780.54	3036.06	2812.75	2694.79	2413.45	2259.91	2303.17	2348.47	30609.34
Commercial	2672.48	1848.19	3439.33	3691.61	3234.44	3677.00	3569.59	3772.71	3392.46	3228.62	2960.45	2776.86	38263.74
Industrial	0.28	5.06	16.11	19.66	14.13	1.15	3.52	4.94	0.00	0.00	0.00	0.00	64.85
Institutional	61.05	55.86	85.40	87.96	56.36	76.84	85.55	63.14	61.47	64.82	49.00	57.38	804.83
Homeowners	953.25	615.99	892.41	985.90	924.93	834.02	986.37	590.38	501.24	546.71	525.58	535.17	8891.95
Medications	0	0.00	0.00	0.08	0	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.18
Hazardous Waste (HHW)	0	0.00	0.00	26.24	0	0.00	0.00	0.00	0.00	32.64	0.00	0.00	58.88
School Board Trash	133.82	278.74	390.15	643.60	193.48	172.40	54.63	214.57	119.45	139.99	119.17	74.45	2534.45
Latex Paint Solidified	5	0.76	8.53	10.63	5	4.43	3.07	5.48	6.09	11.70	6.24	4.24	71.17
Total M.R.A.	6122.79	4548.58	7717.66	8499.256	7208.88	7801.9	7515.48	7346.01	6494.16	6284.49	5963.61	5796.57	81299.3855
Land Clearing	14.57	0.00	7.75	0.49	5.43	25.13	92.06	2.85	0.00	0.00	0.00	12.03	160.31
C&D Bldg.	938.28	767.74	1412.16	1752.23	1661.51	2062.07	1526.51	1122.85	847.14	945.95	928.30	733.43	14698.17
Dirt	63.86	43.35	4.04	95.05	64.97	382.74	814.57	323.95	272.49	998.59	925.24	324.41	4313.26
Concrete (stockpiled)	0	0.00	1.16	30.74	37.31	15.57	82.27	96.68	61.04	55.82	48.11	88.92	517.62
Asphalt (stockpiled)	0	0.00	0.00	0.00	0	0.00	1321.85	2.95	7.01	38.83	7.15	32.46	1410.25
Bulky Objects/ Special Waste	0	0.00	11.64	15.55	104.57	11.87	39.17	13.88	28.11	82.63	16.54	1.00	324.96
Asbestos	0.1	0.00	0.00	0.46	0	0.00	0.00	0.00	1.07	0.00	0.00	0.00	1.63
Sludge	340.75	220.59	673.88	512.48	429.43	449.86	309.40	288.72	459.63	412.63	296.16	247.40	4640.93
Litter/ Special Waste	2.9	23.43	50.66	46.57	24.88	4.86	17.67	8.51	8.30	15.44	0.26	0.11	203.59
Oil - LF Only	3.15	0.79	6.30	7.35	5.6	4.90	4.90	8.24	4.9	4.9	6.3	4.9	62.23
Antifreeze - LF Only	0.00	0.00	0.00	0.00	2.21	0.00	0.00	1.96	0.00	0.00	0.00	0.00	4.17
Freon	0	0.00	0.00	0.02	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
Contaminated Soil/ Spec. Waste	0	0.00	0.00	0.11	0	0.00	0.00	0.00	1889.30	0.00	2.70	0.43	1892.54
Sharps	0.03	0.00	0.06	0.00	0.06	0.03	0.00	0.09	0.02	0.02	0.06	0.06	0.43
Vegetable Oil	0	0.00	0.39	0.57	0.01	0.01	0.01	0.39	0.01	0.01	0.01	0.03	1.44
Tires	9.06	6.21	14.42	27.85	38.76	29.48	25.21	15.43	27.22	20.43	79.74	61.27	355.08
Propane- NON MRA Recyclable	0	0.24	0.26	0.36	0.00	0.00	0.00	0.00	0.00	1.31	0.00	0.00	2.17
Total Non M.R.A.	1372.70	1062.35	2182.72	2489.83	2374.74	2986.52	4233.62	1886.50	3606.24	2576.56	2310.57	1506.45	28588.79
Lead Acid Batteries	0	0.00	10.09	0.00	0	0.00	0.00	6.38	0.00	0.00	0.00	0.00	16.47
Pallets	5.14	9.86	5.00	15.65	27.67	30.43	16.50	6.28	8.00	11.21	5.81	6.63	148.18
Single Stream (CLF)	290.27	220.37	334.15	365.86	335.63	391.10	401.26	359.26	350.74	342.26	355.45	378.58	4124.93
Single Stream (WL&SR) to plant direct	67.52	58.25	70.71	49.42	30.44	43.10	0.00	0.00	0.00	0.00	0.00	0.00	319.44
Appliances/ Scrap Metal	0	19.99	157.24	0.00	50.86	105.12	0.00	0.00	190.33	0.00	0.00	111.75	635.29
Mulch	0	1629.25	5187.00	7215.25	3258.5	7165.62	9702.00	2695.00	0.00	9702	358.39	221.26	47134.27
Compost	0	0.00	133.71	2.43	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	136.14
E-Cycling	20.58	7.41	17.34	15.76	17.95	12.59	25.25	12.85	15.61	16.87	16.84	13.18	192.23
Fluorescent Lamps (CLF)	0.24	0.95	0.18	0.30	0.17	0.21	0.56	0.51	0.50	0.95	0.50	0.30	5.37
Fluorescent Lamps (WL&SR)	0.17	0.00	0.00	0.34	0	0.44	0.00	0.56	0.40	0.30	0.25	0.10	2.56
Textiles	0	0.00	0.00	6.56	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.56
Ink Cartridges	0.1	0.004	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.02	0.02	0.23
Rechargeable Batteries	0.12	0.00	0.04	0.15	0.1	0.15	0.04	0.05	0.20	0.20	0.00	0.20	1.25
Cork	0.00125	0.0010	0.002	0.00	0.001	0.0001	0.0010	0.0010	0.00	0.00	0.00	0.002	0.01
Vinyl Siding	0	0.00	0.00	0.00	4.02	1.95	2.65	3.50	0.06	0.09	2.02	0.00	14.29
Eyewear	0.001	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Recycling Total	384.14	1946.08	5915.48	7671.73	3725.35	7750.73	10148.27	3084.40	565.85	10072.34	739.28	732.02	52737.23
Recycling Rate	5.90%	29.96%	43.39%	47.44%	34.07%	49.84%	57.45%	29.57%	8.01%	61.58%	11.03%	11.21%	39.35%
TOTAL WASTE for SWIRepor	7813.60	7498.76	15745.14	18611.05	13278.53	18495.61	21897.37	12316.35	10665.85	18933.09	9013.21	8034.94	162303.51
SSR COMPACTION AVERAGES/ \$ SAVINGS LANDFILL													
Tons of Single Stream shipped from LF	290.27	220.37	334.15	365.86	335.63	391.1	401.26	352.77	350.74	342.26	355.45	378.58	4118.44
# Loads pulled by Bestrans from landfill	31	22	35	37	36	43	42	37	35	31	35	39	423
Average tons per trailer	9.4	10.0	9.5	9.9	9.3	9.1	9.6	9.5	10.0	11	10	10	9.7
Cell Tire Formula: (Tons*2000)/100 lbs =													
Tire Handling Fee \$25/each	19	32	38	30	99	115	72	54	77	90	107	84	817
Cell Tires (per tire)	137	29	76.8	74	76	79	56	49	61	63	48	38	785.8
# Loads Charged mixed tires & ref	2	0	0	2	1	0	0	0	1	0	0	0	6
% Tires Charged in Cell	14%	110%	49%	41%	130%	146%	129%	111%	126%	144%	223%	223%	104%
Total Waste Landfilled (Tons) =													88393.12

*Rows highlighted in blue represent the waste that was disposed within the landfill.

CECIL COUNTY DEPARTMENT OF PUBLIC WORKS
CENTRAL LANDFILL - WASTE ACCEPTANCE RECORD

2011 Incoming	Jan.	Feb.	Mar.	April	May	Jun.*	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Residential	2015.21	1881.43	2520.90	2518.55	2654.47	2753.14	2338.41	2999.99	2693.50	2471.72	2646.22	2336.88	29830.42
Commercial	2407.32	2232.26	2898.91	2745.37	2840.86	3334.72	3045.74	2993.09	2557.84	2349.27	2196.59	2158.58	31760.55
Industrial	0.18	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18
Institutional	51.44	51.70	62.69	55.59	61.14	48.82	40.31	70.70	51.97	57.40	63.22	52.10	665.08
Homeowners	300.06	468.40	531.47	526.73	846.18	603.94	589.32	566.73	526.50	479.46	513.05	538.90	6490.74
Medications	0	0.00	0.00	0.18	0	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.43
Hazardous Waste (HH-W)	0	0.00	0.00	39.04	0	0.00	0.00	0.00	0.00	28.57	0.00	0.00	67.61
School Board Trash	69.2	98.71	91.03	59.01	38.68	52.89	0.00	22.65	55.01	63.32	69.21	55.06	674.77
Latex Paint Solidified/Disposed	2.7	1.50	0.88	12.60	2,787.5	3.08	0.58	0.55	0.02	0.75	0.25	0.10	25.79
Total M.R.A.	4846.111	4734.00	6105.88	5957.068	6444.1175	6794.585	6014.355	6653.71	5884.84	5450.739	5488.54	5141.62	69515.57
Land Clearing	1.87	20.38	25.57	0.00	0	0.11	0.00	60.15	54.48	0.00	30.21	0.00	192.77
C&D Bldg.	523.89	474.61	903.62	1063.08	1034.85	1137.55	906.73	1196.44	2238.63	1878.99	1261.54	904.81	13524.74
Dirt	109.83	59.23	515.64	674.90	423.23	323.12	1517.98	780.50	559.14	1087.57	507.81	689.58	7248.53
Concrete (stockpiled)	19.08	25.35	7.95	13.68	61.39	161.29	51.15	33.78	18.81	24.43	36.62	53.25	506.76
Asphalt (stockpiled)	0	5.02	0.00	14.66	22.85	23.58	595.78	23.58	9.25	43.09	107.77	743.30	1588.88
Bulky Objects/ Special Waste	0	2.87	3.96	3.74	40.26	40.80	35.96	2.80	66.28	5.17	4.86	1.96	208.68
Asbestos	0	0.13	0.00	0.00	0	0.00	0.18	2.90	0.43	0.56	0.00	0.00	4.20
Sludge	226.72	147.17	272.44	251.55	274.71	601.36	397.12	381.85	280.65	407.65	189.75	149.45	3580.42
Litter/ Special Waste	0.41	0.08	1.12	9.57	5.87	0.52	0.15	11.30	9.82	4.03	2.89	2.93	48.69
Oil - LF Only	1.81	1.47	8.14	4.01	6.27	3.62	5.16	3.15	3.50	3.15	5.25	1.9	47.39
Antifreeze - LF Only	0.00	0.00	2.45	0.00	0.00	2.45	0.00	0.00	0.00	0.00	0.00	0.00	4.90
Freon	0	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.03
Contaminated Soil/ Spec. Waste	0	0.00	0.00	2.31	0	4.13	0.23	0.00	0.00	3.84	0.00	0.23	10.74
Sharps	0.06	0.06	0.06	0.20	0.1	0.10	0.00	0.10	0.10	0.20	0.10	0.10	1.18
Vegetable Oil	0	0.00	0.00	0.57	0.15	0.20	0.15	0.20	0.15	0.20	0.40	0.10	2.12
Tires	8.97	4.67	25.00	41.49	38.92	27.29	35.97	8.29	9.03	11.52	12.73	9.08	232.96
Propane Tanks	0	0.00	0.00	0.60	0.00	0.00	0.00	4.37	0.00	1.80	0.00	0.00	6.77
Total Non M.R.A.	892.64	741.04	1765.95	2080.36	1908.61	2326.13	3546.58	2509.39	3249.84	3472.07	2160.49	2556.66	27209.76
Lead Acid Batteries	0	0.00	9.02	0.00	0	0.00	0.00	8.09	0.00	0.00	0.00	5.86	22.97
Pallets	7.59	5.38	4.93	17.58	16.72	3.30	12.67	12.99	5.69	9.62	1.60	3.57	101.84
Single Stream All Facilities leaving	344.71	371.56	515.53	451.68	455.65	533.30	497.70	523.22	539.70	474.16	465.98	437.69	5610.88
Appliances/ Scrap Metal	0	0.00	74.63	0.00	0	189.57	0.00	0.00	72.00	26.09	0.00	91.88	454.17
Mulch	0	0.00	2227.75	3145.45	1392.08	4019.40	3465.00	2520.00	1680.00	0	2668.05	365.75	21483.48
Compost	0	0.00	0.00	15.52	62.08	60.00	0.00	120.00	100.00	60.00	100.00	60.00	577.60
E-Cycling	11.33	4.70	18.51	11.47	10.71	17.83	13.47	26.34	8.73	26.68	19.79	11.20	180.76
Fluorescent Lamps (CLF)	0.10	0.50	0.30	0.46	0.00	0.54	0.00	0.00	0.57	0.44	0.32	0.39	3.62
Fluorescent Lamps (WL&SR)	0.00	0.10	0.10	0.10	0	0.10	0.00	0.00	0.13	0.00	0.00	0.11	0.64
Textiles	0	0.00	7.81	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.81
Ink Cartridges	0.01	0.010	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.04	0.02	0.02	0.23
Rechargeable Batteries	0.02	0.02	0.04	0.05	0	0.04	0.02	0.01	0.03	0.02	0.04	0.02	0.31
Cork	0	0.0000	0.0001	0.0001	0.0001	0.00	0.0001	0.000000	0.000100	0.00010	0.00	0.000	0.001
Vinyl Siding	0	0.00	3.59	0.00	3.39	3.04	0.00	3.52	0.00	0.00	0.00	3.76	17.30
Eyewear	0	0.00	0.00	0.00	0.0001	0.00	0.00	0.00	0.00	0.00	0.0001	0.00	0.00
Mercury Thermostats	0	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03
Propane Gas	0	0.00	0.00	0.00	0	0.00	0.00	4.37	0.00	0.00	0.00	0.00	4.37
Latex Paint Recycled	0	0.00	0.00	0.00	1.125	1.625	0.75	1.00	1.52	4.00	4.38	2.60	17.00
Household Batteries	0	0.00	0.00	0.00	0	0.0000	0.00	0.00	0.25	0.50	0.50	0.00	1.25
Braziers	0	0.00	0.00	0.00	0	0.0000	0.00	0.00	0.00	0.02	0.01	0.02	0.05
Used Oil Filters	0	0.00	0.00	0.00	0	0.100	0.00	0.20	0.00	0.00	0.20	0.00	0.50
Recycling Total	363.76	382.27	2862.23	3642.32	1941.78	4828.87	3988.63	3219.56	2408.64	601.75	3260.68	982.90	28484.81
Recycling Rate	6.98%	7.47%	31.82%	37.94%	23.16%	41.54%	39.88%	32.61%	29.04%	9.94%	37.27%	16.05%	29.07%
For SW Tonnage report	6102.51	5857.21	10733.96	11679.65	10294.50	13949.48	13550.56	12382.86	11543.19	9524.58	10909.92	8681.07	125209.50
SSR COMPACTION AVERAGES/ \$ SAVINGS LANDFILL													
Tons of Single Stream shipped to	344.71	371.56	515.53	451.68	455.65	533.3	497.7	523.22	539.7	474.16	465.98	437.69	5610.88
# Loads pulled by Bestrans from	31	34	43	38	42	50	47	44	42	37	39	38	485
Average tons per trailer	11.1	10.9	12.0	11.9	10.8	10.7	10.6	11.9	12.9	13	12	12	11.6
Cell Tire Formula: (Tons*2000)/6													
Tire Handling Fee \$25/each	67	36	117	143	124	110	73	97	69	78	66	45	1025
Cell Tires (per tire)	65	10	154	49	82	82	93	99	122	116	89	89	961
# Loads Charged mixed tires &c	0	0	0	0	0	0	0	0	0	0	0	0	0
% Tires Charged in Cell	103%	360%	76%	292%	151%	134%	79%	98%	57%	67%	74%	#DN/O!	107%
<i>Note: decreased lb. per cell tire from 100 to 60 lb. each</i>													
*Rows highlighted in blue represent the waste that was disposed within the landfill.													
Total Waste Landfilled (Tons) =													87017.77

ANNUAL 2012 LANDFILL TONNAGES															Calendar Year 2012	
MRA WASTE		SWM METHOD	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	TOTAL	
HOMEOWNERS	1001 IN - Residential	Landfill	2395.94	2089.57	2371.09	2379.83	2540.45	2547.13	2616.20	2724.09	2356.73	2326.88	2563.60	2339.99	29251.50	29251.50
	1002 IN - Commercial	Landfill	1914.93	1778.68	2185.87	2111.60	2517.24	2485.39	2626.74	2688.89	2207.47	2219.22	2316.83	1975.09	27007.95	27007.95
	1003 IN - Industrial	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	1004 IN - Institutional	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	1016 IN - School Board MSW	Landfill	78.07	65.69	85.46	81.15	108.05	134.97	50.22	95.95	118.48	88.66	73.44	75.44	1055.58	1055.58
HOMEOWNERS	5002 Homeowner \$4 Trash & SSR	Landfill	192.20	182.50	209.20	199.90	215.90	235.60	225.90	221.10	202.40	193.70	202.00	222.30	2502.70	2502.70
	5003 Homeowner \$10 Trash	Landfill	124.50	128.50	185.60	165.80	175.00	185.20	156.90	166.40	158.10	141.80	148.70	148.20	1884.70	1884.70
	1021 IN - Woodlawn Refuse	Landfill	65.36	111.06	95.27	81.00	109.63	104.36	81.96	126.26	90.90	100.78	114.06	86.16	1166.80	1166.80
	1024 IN - Stemmers Refuse	Landfill	28.65	20.10	37.97	28.60	30.20	29.58	31.46	39.28	19.41	33.20	37.70	19.53	355.68	355.68
MEDICAL WASTE	1148 IN - Latex Paint Residual Waste	Landfill	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	2.00	0.00	1.00	0.00	5.00	5.00
	1131 OUT - Household Hazardous Was	Landfill	0.00	0.00	0.00	0.00	33.25	0.00	0.00	0.00	0.00	46.59	0.00	0.00	79.84	79.84
	1135 OUT - Medications	WTE	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.28	
	1128 OUT - Sharps	Biomedical Incinerator	0.14	0.00	0.00	0.08	0.08	0.04	0.02	0.10	0.10	0.20	0.00	0.01	0.77	
NON MRA WASTE		SWM METHOD	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	63310.80	
C&D	1005 IN - Landclearing	Mulched	5.50	5.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.14	11.14
	1006 IN - Demolition	Landfill	0.00	24.78	328.54	33.72	33.46	57.82	16.24	2.48	10.84	0.00	0.00	0.00	507.88	507.88
	1007 IN - Construction	Landfill	758.69	703.11	1148.38	1155.77	1054.39	1054.40	1241.37	1353.89	1462.74	1272.24	1138.30	879.14	13222.42	13222.42
	1008 IN - Dirt / Soil	Stockpiled/Reuse	630.20	374.55	1438.00	202.00	330.41	381.32	273.47	436.78	320.56	522.91	104.33	453.29	5467.82	
	1050 IN - Asphalt & 1087 Millings	Stockpiled/Reuse	5.51	0.00	29.93	90.17	47.09	12.61	0.00	26.43	1.03	1460.78	9.73	14.86	1698.14	
UTTER / SPECIAL WASTE	1051 IN - Concrete	Stockpiled/Reuse	24.68	50.17	296.30	72.74	38.15	16.63	10.79	3.90	27.15	240.63	11.42	63.89	856.45	
	1019 IN - Litter	Landfill	10.02	1.07	4.89	6.55	0.16	0.85	0.00	2.58	0.00	0.47	0.41	0.46	27.26	27.26
	1026 IN - Dead Animals	Landfill	0.07	0.68	0.00	0.13	0.07	0.00	0.07	1.14	0.22	0.67	0.70	5.28	9.03	9.03
	1060 IN - 1/2 Waiver	Landfill	0.00	0.00	0.00	2.90	19.61	22.08	0.00	0.00	0.00	0.00	0.00	0.00	44.59	44.59
	1082 IN - Full Waiver	Landfill	3.50	0.77	0.76	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.43	7.43
BULKY OBJECTS SPECIAL WASTE	1112 IN - Adopt a Road Litter	Landfill	0.00	0.00	0.10	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.60	0.60
	1142 IN - Street Sweepings	Landfill	0.00	0.00	0.00	0.00	14.89	8.23	14.68	9.27	17.46	82.36	25.36	22.29	194.54	194.54
	1012 IN - Treatment Plant Sludge	Landfill	375.46	360.70	572.89	508.99	380.44	433.78	344.59	413.47	378.57	366.01	283.80	264.48	4683.18	4683.18
CONTAMINATED SOIL / WASTE	1055 IN - Boat	Landfill	7.09	0.92	2.04	1.59	2.99	1.32	7.39	0.00	1.00	7.62	0.00	1.53	33.49	33.49
	1059 IN - Mobile Home / 1143 IN - Car	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.79	17.46	23.21	15.03	8.83	68.32	68.32
	1014 IN - Asbestos	Landfill	0.00	0.00	0.00	0.10	0.84	1.91	0.00	0.65	1.00	0.52	0.00	0.07	5.09	5.09
NON MRA RECYCLABLES	1020 IN - Contaminated Soil	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	2.84	0.00	0.00	0.00	10.67	0.00	13.31	13.31
	1061 IN - Stall Waste	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	1052 OUT - Tires	WTE	23.52	25.81	16.41	13.38	15.50	6.68	5.56	21.66	9.76	18.35	13.78	8.38	178.79	
NON MRA RECYCLABLES		SWM METHOD	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	27029.48	82138.03
MIXED YARD WASTE	1119 OUT - Motor Oil	Recycle	2.38	2.00	2.50	9.80	2.69	2.50	4.14	7.83	8.97	7.01	4.90	5.60	60.32	
	1136 OUT - Antifreeze	Recycle	0.00	0.00	1.49	0.00	0.00	0.00	0.00	1.87	0.00	0.00	0.00	0.00	3.36	
	1137 OUT - Refrigerant (Freon)	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.01	
	1127 OUT - Vegetable Oil	Recycle	2.01	0.00	0.00	0.00	0.09	0.00	0.01	0.12	0.01	0.17	0.08	0.33	2.82	
	1111 OUT - Propane	Recycle	0.00	0.00	0.00	0.00	0.00	4.85	0.00	0.00	0.00	0.00	0.00	0.00	4.85	
	1009 IN - Stumps & Logs	Recycle	0.00	0.00	31.73	127.06	8.56	47.87	28.58	32.98	16.80	6.43	28.14	23.60	351.75	
	1138 - Processed Mulch	Recycle	285.00	498.75	142.50	450.00	570.00	247.50	2598.75	1312.50	0.00	1039.50	222.75	498.75	7866.00	
	1046 IN - Compost	Recycle	0.00	2.18	2.10	22.35	79.75	0.00	1808.77	0.00	470.63	275.10	2838.00	5501.06		
	1096 IN - Pallets	Recycle	0.00	0.50	1.40	2.61	5.16	3.81	2.59	7.07	2.19	0.37	0.75	0.00	26.42	
	1025 IN - Sod	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
BATTERIES	1097 OUT - Single Stream Recycling Is	Recycle	468.88	355.44	421.21	367.02	384.70	452.21	392.80	438.09	382.39	407.85	468.63	362.38	4902.60	
	OUT - Shredded Paper	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.42	0.00	3.42
	1053 OUT - Lead Acid Batteries	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.81	0.00	0.00	3.30	0.67	12.78	
	1120 OUT - Household Batteries	Recycle	2.48	0.00	0.00	0.00	0.72	0.00	0.00	1.80	0.00	0.00	0.45	0.00	5.45	
	1121 OUT - Rechargeable Batteries	Recycle	0.08	0.00	0.12	0.08	0.08	0.06	0.05	0.15	0.00	0.00	0.08	0.06	0.82	
METALS	1117 OUT - Textiles	Recycle	9.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.93	0.00	0.00	16.20	
	1044 OUT - Scrap Metal / Appliances	Recycle	6.74	0.00	32.50	56.13	31.62	0.00	47.42	53.15	22.79	15.24	0.00	0.00	265.59	
	1116 OUT - Metal Tire Rims #1 Steel	Recycle	9.39	0.00	8.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.49	0.00	19.85	
	1130 OUT - Oil Filters	Recycle	0.00	0.15	0.00	0.00	0.10	0.10	0.00	0.15	0.15	0.00	0.00	0.00	0.65	
	1124 OUT - Mercury Thermostats	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.02	
E-WASTE	1126 OUT - Corks	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	
	1088 OUT - Electronics	Recycle	11.41	33.89	11.98	37.54	10.54	22.95	20.20	23.30	9.68	32.91	21.93	12.38	248.71	
	1139 OUT - Printer Cartridges	Recycle	0.04	0.00	0.05	0.05	0.06	0.02	0.03	0.01	0.02	0.01	0.01	0.02	0.32	
TIRES	1101 OUT - Vinyl Siding	Recycle	0.00	0.00	4.54	0.00	3.54	0.00	1.90	2.79	0.00	2.91	0.00	0.00	15.68	
	1052 OUT - Tires (Recycled)	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	3.00	
	1098 OUT - Citizen Scrap Tires (Recycl	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	1125 OUT - Eyewear	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0003	
	1123 OUT - Latex Paint (Recycled)	Recycle	2.01	2.00	2.00	2.00	2.01	2.00	2.00	2.01	2.00	2.01	1.98	2.00	24.02	
	1118 OUT - Fluorescent Lamps	Recycle	0.48	0.08	0.43	0.55	0.00	0.52	0.50	0.19	0.33	0.37	0.28	0.30	4.03	
	1123 OUT - Bra Recycling	Recycle	0.03	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.06	
	1132 OUT - Polystyrene	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.14	0.15
Total Solid Waste Accept per Mo			7445.23	6819.29	9672.10	8226.84	8676.77	8566.04	10805.17	12042.71	7848.70	11139.38	8104.55	10333.45		

ANNUAL 2013 LANDFILL TONNAGES																	Calendar Year 2013
MRA WASTE		SWM METHOD	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	TOTAL		
HOMEOWNERS	1001 IN - Residential	Landfill	2307,43	1850,03	2109,66	2674,11	2560,47	2451,62	2817,44	2572,83	2412,55	2396,61	2170,65	2485,70	28799,10	28799,10	
	1002 IN - Commercial	Landfill	2046,24	1812,00	1993,26	2178,33	2583,22	2247,16	2610,56	2528,86	2096,25	2010,31	1901,86	2049,63	26061,80	26061,80	
	1003 IN - Industrial	Landfill	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	
	1004 IN - Institutional	Landfill	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	
	1016 IN - School Board MSW	Landfill	80,41	78,69	83,50	96,32	57,11	104,96	0,27	12,37	93,16	159,06	176,94	102,10	1046,92	1046,92	
	5002 Homeowner \$5 Trash & SSR	Landfill	186,20	164,10	189,20	189,20	201,60	210,30	212,00	215,91	177,91	177,10	184,00	192,50	2300,03	2300,03	
	5003 Homeowner \$10 Trash / \$11 (7/11/13)	Landfill	128,00	113,70	159,10	171,40	174,60	179,00	162,50	162,90	118,70	134,61	138,50	121,30	1764,31	1764,31	
	1021 IN - Woodawn Refuse	Landfill	125,24	79,64	95,81	99,56	108,53	103,26	99,88	107,20	77,16	94,82	100,40	77,20	1168,75	1168,75	
	1024 IN - Stemmers Refuse	Landfill	31,77	30,91	15,22	29,13	36,71	31,25	41,57	25,94	17,86	37,24	23,13	31,25	352,04	352,04	
	1148 IN - Latex Paint Residual Waste	Landfill	0,50	0,25	0,20	0,15	0,22	0,10	0,10	0,10	0,11	0,22	0,00	0,00	1,99	1,99	
MEDICAL WASTE	1131 OUT - Household Hazardous Waste	Landfill	0,00	0,00	0,00	0,00	27,76	0,00	0,00	0,00	0,00	0,00	25,00	0,00	52,76	52,76	
	1135 OUT - Medications	WTE	0,00	0,00	0,00	0,25	0,00	0,00	0,00	0,00	0,00	0,25	0,00	0,00	0,50	0,50	
	1128 OUT - Sharps	Biomedical Incinerator	0,10	0,10	0,10	0,10	0,10	0,00	0,16	0,10	0,00	0,16	0,16	0,10	1,20	1,20	
	NON MRA WASTE		SWM METHOD	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	61549,42	
	1005 IN - Landclearing	Mulched	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
	1006 IN - Demolition	Landfill	55,13	61,74	35,82	45,18	5,71	2,76	0,00	0,00	0,00	0,00	17,00	1,49	0,00	224,83	224,83
	1007 IN - Construction	Landfill	990,29	693,80	1125,06	1489,76	1840,19	1512,34	1714,56	2072,27	2011,04	1830,48	1459,22	11569,47	28308,48	28308,48	
	1008 IN - Dirt / Soil	Stockpiled/Reuse	241,54	404,44	495,59	544,49	407,94	320,25	362,46	657,13	507,18	530,31	708,40	539,72	5719,85		
	1008.1 IN - Topsoil (no charge)	Stockpiled/Reuse	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
	1050 IN - Asphalt & 1087 Millings	Stockpiled/Reuse	3,31	19,18	9,65	11,02	28,42	93,62	58,60	37,61	47,20	36,26	21,57	9,92	376,36		
UTILITY / SPECIAL WASTE	1051 IN - Concrete	Stockpiled/Reuse	3,00	21,56	24,11	9,84	58,86	25,99	17,95	13,00	52,42	9,99	12,07	6,46	255,25		
	1019 IN - Litter	Landfill	0,58	3,82	0,85	0,08	0,26	0,49	1,82	1,90	10,92	4,02	1,41	0,53	26,68	26,68	
	1026 IN - Dead Animals	Landfill	0,09	0,12	1,10	0,44	1,57	0,64	0,26	0,64	0,26	0,35	0,27	0,16	5,89	5,89	
	1060 IN - 1/2 Waiver	Landfill	0,00	0,00	0,00	0,67	2,96	0,00	0,00	0,00	0,00	0,00	0,00	0,00	3,63	3,63	
	1082 IN - Full Waiver	Landfill	0,00	0,00	0,85	0,76	10,24	0,13	0,60	0,00	0,00	1,64	0,00	0,00	14,22	14,22	
	1112 IN - Adopt a Road Litter	Landfill	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	
	1142 IN - Street Sweepings	Landfill	20,76	13,06	13,09	15,53	22,66	11,95	41,53	237,06	52,56	46,88	177,64	7,94	660,66	660,66	
	1012 IN - Treatment Plant Sludge	Landfill	320,30	381,24	542,17	835,56	490,60	462,63	378,19	453,96	424,62	476,71	252,41	328,00	5346,39	5346,39	
	1055 IN - Boat	Landfill	0,84	3,51	0,89	9,79	4,56	6,03	2,33	4,44	0,24	7,54	0,07	2,04	42,28	42,28	
	1059 IN - Mobile Home	Landfill	0,00	0,00	0,00	0,00	0,90	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,90	0,90	
BULKY / SPECIAL WASTE	145 IN - Special Handling Wastes	Landfill	0,00	0,00	0,00	0,00	0,00	0,00	0,50	0,00	0,00	0,00	0,00	0,00	0,50	0,50	
	143 IN - Carpet	Landfill	11,11	8,59	9,64	11,96	11,59	13,18	8,76	3,88	3,78	5,98	3,48	4,92	96,87	96,87	
	1014 IN - Asbestos	Landfill	1,22	0,00	0,00	0,03	0,00	0,00	0,00	0,00	0,03	0,00	0,00	0,00	1,28	1,28	
	1020 IN - Contaminated Soil	Landfill	0,00	0,37	0,00	0,39	0,00	0,00	0,00	0,00	3,86	1,00	0,00	0,00	5,62	5,62	
	1061 IN - Stall Waste	Landfill	0,00	0,00	0,00	0,00	0,00	0,00	0,16	0,00	0,00	0,00	0,00	0,00	0,16	0,16	
	1052 OUT - Tires	WTE	7,69	0,00	14,58	8,29	16,33	11,38	16,27	16,96	3,76	19,02	9,44	6,97	130,69	130,69	
	NON MRA RECYCLABLES		SWM METHOD	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	41220,54	96285,95
	1119 OUT - Motor Oil	Recycle	0,49	0,40	6,40	6,26	6,00	9,19	4,06	5,39	2,24	4,28	3,88	0,74	49,33		
	1136 OUT - Antifreeze	Recycle	0,00	1,32	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	1,32		
	1137 OUT - Refrigerant (Freon)	Recycle	0,00	0,01	0,00	0,01000	0,00	0,01	0,01	0,01	0,00	0,01	0,00	0,00	0,06		
1127 OUT - Vegetable Oil	Recycle	0,16	0,00	0,21	0,21	0,07	0,16	0,00	0,39	0,00	0,29	0,00	0,38	1,87			
MRA RECYCLABLES	1111 OUT - Propane tanks	Recycle	0,00	0,00	0,00	0,00	1,86	0,00	0,00	3,10	0,00	0,00	0,00	0,00	4,96		
	MRA RECYCLABLES		SWM METHOD	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	57,54	
	1138 - Processed Mulch (from grinders)	Recycle	71,25	213,75	0,00	556,13	498,75	346,50	990,00	487,50	225,00	575,19	222,75	427,50	4616,32		
	Compost	Recycle	0,00	706,85	176,24	10,45	76,99	0,00	0,00	0,00	0,00	0,00	0,00	0,00	721,26	1691,79	
	1097 OUT - Single Stream Recycling leaving CLF	Recycle	409,91	315,09	383,46	360,69	419,86	480,30	495,92	420,47	407,45	445,63	387,72	494,89	5021,39		
	OUT - Shredded Paper	Recycle	0,00	0,00	3,14	0,00	0,00	2,98	0,00	0,00	2,16	0,00	2,28	0,00	10,56		
	1053 OUT - Lead Acid Batteries	Recycle	0,70	0,00	1,41	2,52	0,75	1,18	1,21	1,40	0,80	1,77	0,51	0,64	12,89		
	120 OUT - Household Batteries	Recycle	0,00	1,80	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,90	0,00	0,00	2,70		
	121 OUT - Rechargeable Batteries	Recycle	0,12	0,10	0,00	0,12	0,04	0,04	0,04	0,04	0,04	0,08	0,00	0,10	0,72		
	1117 OUT - Textiles	Recycle	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	7,22	0,00	0,00	0,00	7,22		
METALS	1044 OUT - Scrap Metal / Appliances	Recycle	0,00	26,90	92,75	39,45	30,44	8,60	41,60	31,95	38,09	20,29	35,82	38,12	403,91		
	1044.1 OUT - Roads Scrap Metal	Recycle	0,00	0,00	0,00	0,00	0,00	0,00	0,00	8,45	0,00	15,66	4,90	2,47	31,48		
	1116 OUT - Metal Tire Rims #1 Steel	Recycle	0,00	0,00	0,00	0,00	0,00	0,05	0,00	0,00	0,00	0,00	0,00	0,00	6,36	6,41	
	130 OUT - Oil Filters	Recycle	0,20	0,00	0,00	0,00	0,00	0,20	0,00	0,00	0,25	0,00	0,00	0,00	0,65		
	124 OUT - Mercury Thermostats	Recycle	0,00	0,00	0,00	0,01	0,00	0,00	0,00	0,00	0,00	0,00	0,01	0,00	0,02		
	1126 OUT - Corks	Recycle	0,0000	0,0000	0,0000	0,0000	0,0050	0,0050	0,0050	0,0000	0,0000	0,0050	0,0000	0,0050	0,03		
	1088 OUT - Electronics	Recycle	21,07	25,13	13,95	25,16	32,73	11,15	33,73	12,66	21,23	38,52	10,33	21,25	266,91		
	1139 OUT - Printer Cartridges	Recycle	0,04	0,00	0,00	0,00	0,00	0,05	0,00	0,00	0,03	0,01	0,00	0,00	0,13		
	1101 OUT - Vinyl Siding	Recycle	2,90	0,00	0,00	3,92	0,00	3,08	0,00	2,50	0,00	3,06	0,00	0,00	15,46		
	1052 OUT - Tires (Recycled)	Recycle	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	
TIRE S	1098 OUT - Citizen Scrap Tires (Recycled)	Recycle	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	35,45	0,00	13,71	0,00	49,16		
	1125 OUT - Eyewear	Recycle	0,0000	0,0000	0,00	0,0000	0,00	0,01	0,00	0,00	0,00	0,00	0,0000	0,00	0,01		
	1123 OUT - Latex Paint (Recycled)	Recycle	2,01	1,99	2,00	2,50	3,00	3,50	3,51	3,49	3,50	4,00	3,50	3,50	36,50		
	1118 OUT - Fluorescent Lamps	Recycle	0,31	0,23	0,30	0,44	0,33	0,42	0,00	0,34	0,34	0,17	0,64	0,00	3,52		
	1123 OUT - Bra Recycling	Recycle	0,01	0,00	0,00	0,00	0,025	0,03	0,00	0,00	0,00	0,00	0,00	0,00	0,06		
	1123 OUT - Polystyrene	Recycle	0,000	0,1400	0,1000	0,1900	0,1200	0,0900	0,3700	0,1200	0,1500	0,2100	0,3700	0,0900	1,99		
	TOTAL ALL WASTE AND RECYCLING		7070,96	7034,53	7599,83	9463,24	9696,38	8656,60	10118,83	10102,89	8658,59	9122,64	8200,55	19253,29	115007,31		

ANNUAL 2014 LANDFILL TONNAGES																
MRA WASTE		SWM METHOD	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	TOTAL	
HOMEOWNER WASTE	1001 IN - Residential	Landfill	2160.20	1857.02	2110.03	2520.12	2606.57	2531.57	2784.72	2501.37	2614.40	2423.42	2178.82	2682.33	28970.570	28970.57
	1002 IN - Commercial	Landfill	1936.32	1852.37	1963.16	2478.13	2687.60	2597.73	2653.64	2336.32	2490.18	2386.06	1968.56	2191.68	27578.750	27578.75
	1003 IN - Industrial	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00
	1004 IN - Institutional	Landfill	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.430	1.43
	1016 IN - School Board MSW	Landfill	64.68	5.17	57.73	0.00	9.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	136.890	136.89
	5002 Homeowner Trash & SSR	Landfill	153.60	147.90	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	301.790
HOUSEHOLD WASTE	5003 Homeowner / 6000 Non Scale Refuse	Landfill	92.20	94.60	40.67	139.55	168.33	126.15	149.29	154.88	135.37	126.15	129.48	154.45	1511.120	1511.12
	1021 IN - Woodlawn Refuse	Landfill	99.47	81.61	66.47	99.09	122.28	86.43	98.27	78.04	94.58	85.92	74.48	89.57	1079.210	1079.21
	1024 IN - Stemmers Refuse	Landfill	28.32	20.15	25.04	37.57	26.87	20.04	25.64	37.01	26.61	23.34	35.77	20.51	326.870	326.87
	1148 IN - Latex Paint Residual Waste	Landfill	2.50	0.00	2.00	3.00	0.00	2.00	1.50	0.00	1.50	3.00	2.00	1.00	18.500	18.50
	1131 OUT - Household Hazardous Waste	Landfill	0.00	0.00	0.00	26.86	0.00	0.00	0.00	0.00	0.00	53.68	0.00	0.00	80.540	80.54
	1135 OUT - Medications	WTE	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.400	0.40
MEDICAL WASTE	1128 OUT - Sharps	Biomedical Incinerator	0.00	0.00	0.08	0.00	0.28	0.00	0.02	0.02	0.02	0.04	0.06	0.02	0.540	0.54
	NON MRA WASTE		SWM METHOD	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	60006.610
COLD WASTE	1005 IN - Landclearing	Mulched	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00
	1006 IN - Demolition + 1082.1 Full Waiver (	Landfill	0.00	0.00	39.34	43.18	183.55	33.84	2.94	7.70	126.63	76.13	0.00	137.96	651.270	651.27
	1007 IN - Construction	Landfill	873.85	788.93	1125.38	1722.94	1999.53	1928.53	1929.80	1846.26	1778.26	1955.91	1155.36	1552.31	18657.060	18657.06
	1008 IN - Dirt / Soil & 1008.2 Ditch Spoils	Landfilled	94.69	194.15	501.05	231.09	603.90	994.50	6259.92	283.62	368.68	71.74	178.19	218.26	10000.790	10000.79
	1008.1 IN - Topsoil (no charge)	Stockpiled/Reuse	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1026.26	64.87	0.00	1091.130	1091.13
	1050 IN - Asphalt	Landfilled	0.00	0.00	6.18	7.49	68.38	31.94	30.95	6.64	21.80	33.82	0.00	0.00	207.200	207.20
UTILITY / SPECIAL WASTE	1041 IN - Asphalt Stockpiled & 1087 Milling	Stockpiled/Reuse	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00
	1051 IN - Concrete	Landfilled	0.58	0.00	3.85	16.12	92.14	10.90	13.43	13.54	250.73	392.10	0.00	0.00	793.390	793.39
	1051.1 IN - Concrete Stockpiled	Stockpiled/Reuse	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.86	178.77	58.40	292.030	292.03
	1019 IN - Litter	Landfill	0.90	0.00	0.47	2.40	0.77	0.30	0.10	0.30	0.30	0.00	0.00	0.18	5.720	5.72
	1026 IN - Dead Animals	Landfill	0.09	0.78	0.11	0.12	0.22	0.00	0.00	0.30	0.38	0.73	0.28	0.55	3.560	3.56
	1060 IN - 1/2 Waiver	Landfill	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.040	0.04
BULKY OBJECTS / SPECIAL WASTE	1082 IN - Full Waiver	Landfill	0.00	0.00	0.00	4.85	2.74	0.37	0.00	0.00	0.57	0.08	0.00	0.00	8.610	8.61
	1112 IN - Adopt a Road Litter	Landfill	0.00	0.00	0.00	0.00	0.10	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.200	0.20
	1142 IN - Street Sweepings	Landfill	1.93	3.02	34.04	67.13	33.48	25.20	17.88	29.84	20.37	33.57	15.74	58.51	340.510	340.51
	1012 IN - Treatment Plant Sludge	Landfill	189.32	287.65	387.62	450.49	413.54	358.30	401.92	422.35	247.36	245.05	185.99	341.24	3930.830	3930.83
	1055 IN - Boat	Landfill	0.00	0.00	4.16	0.85	2.66	0.94	9.92	1.54	2.96	9.23	2.66	2.06	36.980	36.98
	1059 IN - Mobile Home	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00
MISC. BULKY WASTE	1145 IN - Special Handling Wastes	Landfill	0.00	0.00	0.00	0.00	1.27	0.47	0.00	0.00	0.00	0.00	0.00	0.00	1.740	1.74
	1143 IN - Carpet	Landfill	4.60	4.98	6.83	7.99	5.21	2.98	4.27	7.95	4.09	7.28	6.48	6.39	69.050	69.05
	1014 IN - Asbestos	Landfill	0.00	0.03	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.160	0.16
	1020 IN - Contaminated Soil	Landfill	0.00	31.52	8.32	7.33	0.00	0.00	6.41	0.00	0.00	0.00	0.00	0.00	53.580	53.58
	1061 IN - Stall Waste	Landfill	0.00	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.740	0.74
	1052 OUT - Tires	WTE	9.16	6.32	11.62	22.54	23.82	8.49	16.54	8.09	8.49	20.81	9.21	6.73	152.920	152.92
NON MRA RECYCLABLES	SWM METHOD	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	35297.410	35297.41	
	1119 OUT - Motor Oil	Recycle	2.08	1.01	2.29	5.50	5.50	1.80	6.42	7.40	2.00	4.40	2.60	4.80	45.800	45.80
	1136 OUT - Antifreeze	Recycle	0.00	0.00	2.12	0.00	0.00	0.00	0.00	1.23	0.00	0.00	0.00	0.00	3.350	3.35
	1137 OUT - Refrigerant (Freon)	Recycle	0.00	0.00	0.01	0.01000	0.00	0.00	0.01	0.00	0.01	0.00	0.01	0.02	0.070	0.07
	1127 OUT - Vegetable Oil	Recycle	0.00	0.08	0.36	0.00	0.41	0.00	0.00	0.51	0.00	0.39	0.00	0.00	1.750	1.75
	1111 OUT - Propane tanks	Recycle	0.00	0.00	0.00	2.29	0.00	0.00	0.00	0.00	0.00	0.00	2.45	0.00	4.740	4.74
MIXED YARD WASTE	1009 IN - Stumps & Logs	Recycle	9.77	9.09	9.99	16.31	36.64	14.98	28.94	22.76	8.38	2.43	7.25	28.66	197.200	197.20
	MRA RECYCLABLES		SWM METHOD	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	252.510
	1138 - Processed Mulch	Recycle	0.00	275.00	136.25	682.50	440.50	0.00	737.50	480.13	500.00	50.00	249.50	297.50	3848.880	3848.88
	1046 IN - Compost	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00
	Stockpiled Yard Waste (Leaves & Grass)	Recycle	0.00	0.00	0.00	0.00	0.00 need	0.00	0.00	0.00	0.00	0.00	327.48	0.00	327.480	327.48
	1096 IN - Pallets	Recycle	0.00	1.83	1.14	5.20	1.36	0.12	1.56	0.92	0.67	1.70	1.66	0.83	16.990	16.99
BATTERIES	1025 IN - Sod	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00
	1146 IN - Woodchips	Recycle	8.05	0.00	0.00	3.29	0.00	0.00	1.74	4.67	1.79	0.00	6.73	0.36	26.600	26.60
	1097 OUT - Single Stream Recycling leavin	Recycle	425.37	352.05	422.00	431.12	484.26	455.93	484.05	459.64	470.78	470.26	439.08	504.48	5399.020	5399.02
	OUT - Shredded Paper	Recycle	0.00	0.00	3.16	0.00	0.00	2.48	0.00	0.00	2.86	0.00	1.30	0.00	9.800	9.80
	1053 OUT - Lead Acid Batteries	Recycle	0.51	0.00	0.52	2.44	0.74	0.64	1.83	0.55	1.33	1.01	0.67	0.57	10.810	10.81
	1120 OUT - Household Batteries	Recycle	0.00	0.00	0.00	0.00	0.00	1.50	0.00	0.00	0.00	0.00	0.00	0.00	1.500	1.50
METALS	1121 OUT - Rechargeable Batteries	Recycle	0.04	0.00	0.00	0.00	0.04	0.04	0.02	0.04	0.05	0.03	0.00	0.00	0.260	0.26
	1117 OUT - Textiles	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	8.52	0.00	0.00	0.00	0.00	0.00	8.520	8.52
	1044 OUT - Scrap Metal / Appliances	Recycle	48.82	0.13	10.74	18.12	14.79	28.06	9.08	34.36	39.49	15.14	25.15	18.31	262.190	262.19
	1044.1 OUT - Roads Scrap Metal	Recycle	7.63	0.00	0.00	9.04	6.96	4.56	0.00	6.40	0.00	11.15	4.28	0.00	50.020	50.02
	1116 OUT - Metal Tire Rims #1 Steel	Recycle	0.00	0.00	0.00	0.00	0.00	3.84	0.00	0.00	0.47	0.00	0.98	0.00	5.090	5.09
	1130 OUT - Oil Filters	Recycle	0.00	0.00	0.00	0.00	0.15	0.15	0.00	0.00	0.00	0.10	0.00	0.00	0.400	0.40
PRE-INDUSTRIAL WASTE	1124 OUT - Mercury Thermostats	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00
	1126 OUT - Corks	Recycle	0.0000	0.0000	0.0001	0.0000	0.0000	0.0000	0.0001	0.0000	0.0001	0.0000	0.0000	0.0001	0.000	0.00
	1088 OUT - Electronics	Recycle	17.83	8.48	24.36	27.16	18.13	19.50	26.76	15.66	27.41	26.05	16.75	26.17	254.060	254.06
	1139 OUT - Printer Cartridges	Recycle	0.03	0.00	0.00	0.00	0.00	0.04	0.02	0.00	0.01	0.00	0.00	0.00	0.100	0.10
	1101 OUT - Vinyl Siding	Recycle	0.00	0.00	0.00	2.61	0.00	2.74	0.00	2.88	0.00	1.64	0.00	0.00	9.670	9.67
	1052 OUT - Tires (Recycled)	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00
TIRE S	1098 OUT - Citizen Scrap Tires (Recycled)	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00
	1125 OUT - Eyewear	Recycle	0.0000	0.0000	0.00	0.0000	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.00	0.000	0.00
	1123 OUT - Latex Paint (Recycled)	Recycle	0.00	0.00	0.00	3.50	3.00	3.50	3.00	3.50	3.50	3.00	2.00	1.00	26.00.	

		ANNUAL 2015 LANDFILL TONNAGES														
		JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	TOTAL		
HOMEOWN	1001 IN - Residential	Landfill	2156.05	1786.85	2381.32	2576.83	2541.05	2871.20	2787.45	2631.52	2587.38	2379.60	2491.39	2664.95	2986.59	
	1002 IN - Commercial	Landfill	1925.00	1660.56	2270.48	2345.74	2281.87	2874.35	2738.26	2509.85	2346.76	2287.45	2046.36	2251.96	27361.54	
	1003 IN - Industrial	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	1004 IN - Institutional	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	1016 IN - School Board MSW	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	5002 Homeowner Trash & SSR	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	5003 Homeowner / 6000 Non Scale Refuse	Landfill	120.07	112.92	153.82	167.73	174.76	179.11	190.94	176.27	151.13	163.82	159.60	173.34	1923.51	
	1021 IN - Woodawn Refuse	Landfill	99.92	61.39	70.55	96.03	99.67	78.63	108.46	79.27	87.95	88.79	65.26	97.92	1033.84	
	1024 IN - Stemmers Refuse	Landfill	25.34	22.28	28.37	31.11	22.29	35.05	22.27	32.79	27.95	30.96	19.53	31.30	329.24	
	1148 IN - Latex Paint Residual Waste	Landfill	0.00	7.41	2.00	6.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	31.41	
DE C&E	1131 OUT - Household Hazardous Waste	Landfill	0.00	0.00	0.00	36.17	0.00	0.00	0.00	0.00	19.68	0.00	0.00	0.00	49.85	
	1135 OUT - Medications	WTE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	
	1128 OUT - Sharps	omedical Incinerat	0.10	0.00	0.10	0.14	0.00	0.00	0.01	0.01	0.01	0.16	0.00	0.00	0.53	
	NON MRA WASTE														60595.81	
	1005 IN - Landclearing	Mulched	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	1006 IN - Demolition + 1082.1 Full Waiver C&E	Landfill	41.44	0.00	20.65	2.20	11.43	145.19	39.80	49.90	75.61	74.11	1075.00	0.00	1535.33	
	1007 IN - Construction+1060.1 Half Waiver C&E	Landfill	928.65	1215.27	1197.58	1607.39	1685.07	1770.49	1694.05	1630.11	1535.40	1610.84	1478.25	1441.78	17795.88	
	1008 IN - Dirt / Soil & 1008.2 Ditch Spoils	Landfilled	46.53	115.67	250.56	623.61	212.66	193.83	254.05	318.77	259.74	649.57	166.63	182.71	3274.33	
	1008.1 IN - Topsoil (no charge)	Stockpiled/Reuse	0.00	0.00	0.00	0.00	391.43	118.28	204.37	12.00	157.16	15.06	88.25	40.53	1027.09	
	1050 IN - Asphalt	Landfilled	0.00	2.08	0.00	9.94	12.86	70.32	3.32	5.17	7.45	42.05	0.00	22.08	175.27	
UTTER / SPECIAL	1041 IN - Asphalt Stockpiled & 1087 Millings	Stockpiled/Reuse	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	1051 IN - Concrete	Landfilled	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.39	
	1051.1 IN - Concrete Stockpiled	Stockpiled/Reuse	81.58	714.32	401.03	192.01	86.95	283.59	16.23	19.11	105.95	102.73	28.02	13.99	2045.51	
	1019 IN - Litter	Landfill	0.00	0.55	1.52	2.92	2.09	0.32	0.00	0.28	0.11	0.30	0.09	0.14	8.92	
	1026 IN - Dead Animals	Landfill	0.05	0.00	0.12	0.10	0.02	0.23	0.00	0.06	0.11	3.67	1.04	2.34	7.74	
	1060 IN - 1/2 Waiver	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	1082 IN - Full Waiver	Landfill	0.00	0.00	0.00	0.00	3.87	2.41	0.00	0.00	0.22	0.00	0.00	0.00	6.50	
	1112 IN - Adopt a Road Litter	Landfill	0.10	0.10	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	
	1142 IN - Street Sweepings	Landfill	8.48	4.60	27.95	22.78	48.73	20.94	47.71	13.23	30.48	28.42	18.32	15.90	286.63	
	BULKY / OBJECT	1012 IN - Treatment Plant Sludge	Landfill	356.75	227.16	306.48	406.24	447.06	395.35	219.06	450.91	288.81	309.58	258.76	90.59	3756.75
1055 IN - Boat		Landfill	0.00	1.69	2.40	0.73	0.51	3.77	1.29	0.96	14.16	2.30	1.07	1.29	30.17	
1059 IN - Mobile Home		Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1145 IN - Special Handling Wastes		Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1143 IN - Carpet		Landfill	5.39	5.41	5.04	7.74	4.27	7.57	5.26	6.25	6.46	3.65	7.56	3.67	68.27	
1014 IN - Asbestos		Landfill	0.00	0.00	0.10	0.00	0.02	0.40	0.20	0.02	0.00	0.00	0.00	0.00	0.74	
1020 IN - Contaminated Soil		Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1061 IN - Stall Waste		Landfill	0.00	0.00	0.00	1.05	0.00	1.12	3.52	4.52	7.55	58.34	0.00	0.00	77.10	
1052 OUT - Tires		WTE	6.95	9.07	9.41	23.88	10.84	8.15	12.18	9.98	12.51	10.10	9.85	13.05	139.75	
NON MRA RECYCLABLES															30235.66	
MINED - YARD	1119 OUT - Motor Oil	Recycle	4.88	0.00	3.00	3.00	7.90	3.20	5.20	3.00	0.00	9.40	1.00	3.70	44.28	
	1135 OUT - Antifreeze	Recycle	2.20	0.00	0.00	0.00	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.10	
	1137 OUT - Refrigerant (Freon)	Recycle	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.03	
	1127 OUT - Vegetable Oil	Recycle	0.00	0.00	0.35	0.24	0.00	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.83	
	1111 OUT - Propane tanks	Recycle	1.52	0.00	0.00	0.00	0.00	2.06	0.00	0.00	0.00	1.29	0.00	0.00	4.87	
	1009 IN - Stumps & Logs	Recycle	13.94	6.30	16.24	47.03	25.06	30.07	14.50	27.23	9.86	37.41	6.45	4.96	239.05	
	MRA RECYCLABLES															298.06
	1138 - Processed Mulch	Recycle	71.25	150.00	400.00	250.00	368.75	481.25	1450.00	980.50	300.00	625.00	293.75	597.00	5847.50	
	1046 IN - Compost	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Stockpiled Yard Waste (Leaves & Grassclippin	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	855.00	0.00	0.00	0.00	0.00	0.00	855.00	
BATTER	1096 IN - Pallets	Recycle	0.83	0.25	0.47	0.24	1.87	0.56	1.12	2.99	0.58	0.00	0.00	0.81	9.72	
	1025 IN - Sod	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	1146 IN - Woodchips	Recycle	6.69	14.57	4.09	0.00	1.09	17.10	14.45	7.75	1.21	5.83	0.00	17.13	89.91	
	1097 OUT - Single Stream Recycling leaving C	Recycle	470.92	325.51	473.99	474.13	513.68	543.41	568.43	487.82	528.14	561.44	502.27	600.45	6050.19	
	OUT - Shredded Paper	Recycle	0.00	0.00	3.92	0.00	0.00	2.16	0.00	0.00	1.75	0.00	1.89	0.00	9.72	
	1053 OUT - Lead Acid Batteries or 1053.2	Recycle	0.52	0.30	0.34	2.06	1.50	0.77	0.82	1.36	0.54	1.75	0.89	0.45	11.30	
	1120 OUT - Household Batteries	Recycle	0.00	0.00	0.00	1.11	0.00	1.20	0.00	0.00	0.00	1.11	0.00	0.00	3.42	
	1121 OUT - Rechargeable Batteries	Recycle	0.02	0.00	0.02	0.06	0.04	0.04	0.02	0.00	0.02	0.20	0.02	0.02	0.46	
	1117 OUT - Textiles	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	9.58	0.00	0.00	0.00	0.00	0.00	9.58	
	1044 OUT - Scrap Metal / Appliances & 1044.2	Recycle	27.10	0.00	40.31	16.73	33.34	162.12	62.56	27.55	18.98	36.57	33.64	29.77	488.67	
F-WA	1044.1 OUT - Roasts Scrap Metal	Recycle	7.82	0.00	0.00	6.66	14.77	0.00	0.00	0.00	0.00	0.00	0.00	10.00	39.25	
	1116 OUT - Metal Tire Rims #1 Steel	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	1130 OUT - Oil Filters	Recycle	0.10	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.20	
	1124 OUT - Mercury Thermostats	Recycle	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.03	
	1126 OUT - Cords	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	1088 OUT - Electronics	Recycle	20.89	16.36	11.43	44.86	20.90	23.18	26.48	19.14	22.71	19.62	1.16	4.89	231.62	
	1139 OUT - Printer Cartridges	Recycle	0.00	0.02	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.01	0.00	0.01	0.06	
	1101 OUT - Vinyl Siding	Recycle	0.00	2.80	0.00	0.00	4.01	2.65	1.73	0.00	2.44	3.16	0.00	1.66	18.45	
	1052 OUT - Tires (Recycled)	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	1088 OUT - Citizen Scrap Tires (Recycled)	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
TPI ES	1125 OUT - Eyewear	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	
	1123 OUT - Latex Paint (Recycled)	Recycle	0.00	0.00	3.00	3.20	3.30	2.95	3.00	3.00	3.00	3.00	3.00	3.00	30.15	
	1118 OUT - Fluorescent Lamps	Recycle	0.35	0.26	0.00	0.35	0.59	0.00	0.49	0.24	0.22	0.29	0.00	0.24	3.03	
	1123 OUT - Bra Recycling	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	
	1132 OUT - Robustness	Recycle	0.15	0.15	0.14	0.11	0.10	0.10	0.07	0.10	0.16	0.17	0.10	0.10	1.02	
	MONTHLY TOTAL WASTE															6434.60
	6463.85															8085.92
	9008.21															9049.92
	10132.91															11374.14
	9493.51															8594.44
9200.65															8765.72	
8332.76															104527.62	
															104927.12	

MRA WASTE		ANNUAL 2017 LANDFILL TONNAGES												TOTAL	Comments	
		SWW METHOD	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC		
MRA WASTE	1001 IN - Residential	Landfill	2518.25	2167.88	2444.56	2461.72	2685.71	2855.55	2718.72	2785.87	2475.87	2476.96	2447.09	2171.14	30189	30189
	1002 IN - Commercial	Landfill	2549.75	2046.97	2519.78	2641.15	3075.98	3050.98	2947.85	3189.82	2849.29	2966.97	2735.83	2510.27	33085	33085
	1003 IN - Industrial	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0
	1004 IN - Institutional	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0
	1016 IN - School Board MSW	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0
	5002 Homeowner Trash & SSR	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0
	5003 Homeowner / 6000 Non Scale R	Landfill	147.63	104.71	135.22	122.83	113.52	154.42	125.34	122.59	72.31	132.23	62.27	56.62	1350	1350
	1021 IN - Woodawn Refuse	Landfill	91.12	56.81	71.63	92.09	89.05	86.54	89.59	95.03	82.69	88.72	75.79	79.20	998	998
	1024 IN - Stemmers Refuse	Landfill	21.54	22.76	36.77	28.58	20.43	41.57	25.91	36.59	21.35	26.93	36.00	19.49	338	338
	1148 IN - Latex Paint Residual Waste	Landfill	2.00	2.00	2.00	3.00	3.00	2.00	3.00	2.00	2.00	2.00	2.00	1.00	26	26
	1131 OUT - Household Hazardous W	Landfill	0.00	0.00	0.00	14.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15	15
NON MRA WASTE	1135 OUT - Medications	WTE	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0
	1128 OUT - Sharps	Biomedical Incinerator	0.08	0.00	0.12	0.26	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	1	1
	1005 IN - Landclearing	Midwest	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0
	1006 IN - Demolition + 100.1 Full Waiver C&D	Landfill	24.03	78.66	33.63	116.58	47.89	73.48	190.90	112.82	92.23	84.43	17.04	208.24	1080	1079
	1007 IN - Construction + 100.1 Half Waiver C&D	Landfill	1048.44	1272.78	1219.17	1768.82	1749.70	1736.44	2741.68	2443.98	1805.80	1911.40	1450.76	1164.73	20312	20312
	1008 IN - C&D Soil + 100.2 Ditch Banks	Landfill	65.74	148.02	75.21	216.05	118.73	202.66	258.57	375.81	398.07	341.31	172.40	102.89	2415	2415
	1008,1 IN - Topsoil (no charge)	Stockpiled/Reuse	0.00	78.08	0.00	0.00	0.00	0.00	0.00	753.29	167.42	0.00	0.00	0.00	999	999
	1050 IN - Asphalt	Landfill	0.00	5.18	0.00	0.00	8.13	0.00	0.00	2.46	0.00	0.48	4.81	0.00	21	21
	1041 IN - Asphalt Stockpiled + 1087 Millings	Stockpiled/Reuse	13.12	0.00	0.00	4.33	7.22	0.00	0.00	85.06	1.86	34.26	18.77	0.00	166	166
	1051 IN - Concrete	Landfill	0.00	0.00	0.00	0.00	2.08	0.00	0.68	0.00	0.00	0.91	6.71	0.00	10	10
	1051,1 IN - Concrete Stockpiled	Stockpiled/Reuse	1.69	4.34	11.48	18.29	66.82	16.13	3.01	19.02	7.46	13.65	14.50	3.43	180	180
UTILITY / SPECIAL OBJECTS	1019 IN - Litter	Landfill	0.42	0.18	0.16	0.00	0.26	0.00	0.00	0.00	0.00	0.23	0.00	0.00	1	1
	1026 IN - Dead Animals	Landfill	0.99	0.18	0.00	0.03	0.00	0.59	0.09	0.00	0.06	0.64	0.07	0.47	3	3
	1060 IN - 1/2 Waiver	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0
	1082 IN - Full Waiver	Landfill	0.00	0.00	0.00	4.77	14.83	0.00	0.00	0.00	0.09	1.21	0.00	0.00	21	20
	1112 IN - Adopt a Road Litter	Landfill	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0
	1142 IN - Street Sweepings	Landfill	13.39	9.11	4.07	11.70	11.04	12.46	7.98	25.97	11.04	12.76	10.00	4.14	134	134
	1012 IN - Treatment Plant Sludge	Landfill	280.27	278.98	449.95	442.13	457.39	413.87	297.72	288.97	382.49	318.38	305.41	249.50	4143	4143
	1055 IN - Boat	Landfill	1.00	1.49	1.26	2.68	3.35	0.36	0.84	4.38	5.89	3.44	4.57	1.26	30	30
	1059 IN - Mobile Home	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0
	1145 IN - Special Handling Wastes	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0
	1143 IN - Carpet	Landfill	2.03	3.19	3.14	4.06	4.00	5.49	2.35	0.72	1.07	0.57	5.78	2.49	35	35
CON TAIL	1014 IN - Asbestos	Landfill	0.00	0.00	0.01	0.01	4.34	0.03	0.00	0.01	0.00	0.23	0.00	0.02	5	5
	1020 IN - Contaminated Soil	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0
	1061 IN - Shell Waste	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0
	1052 OUT - Tires	WTE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0
	NON MRA RECYCLABLES	SWW METHOD	0.00	0.00	0.00	1.98	7.12	5.46	2.82	6.52	6.54	3.88	4.78	0.00	28678	27962
	1119 OUT - Motor Oil	Recycle	0.00	3.60	4.00	1.86	7.12	5.46	2.82	6.52	6.54	3.88	4.78	0.00	47	47
	1136 OUT - Antifreeze	Recycle	0.00	0.00	0.00	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2	2
	1137 OUT - Refrigerant (Freon)	Recycle	0.00	0.00	0.00	0.10	0.00	0.00	0.10	0.00	0.01	0.00	0.01	0.00	0	0
	1127 OUT - Vegetable Oil	Recycle	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0	0
	1111 OUT - Propane tanks	Recycle	0.00	0.00	0.00	0.00	1.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2	2
	1009 IN - Stumps & Logs	Recycle	20.83	85.00	55.53	127.16	62.87	116.57	41.93	68.27	175.31	44.62	22.04	18.76	818	818
	MRA RECYCLABLES	SWW METHOD	831.28	493.75	1073.13	1070.00	368.75	1228.75	700.00	568.00	550.00	350.00	321.50	0.00	7855	7855
LANDFILL WASTE	1136 - Processed Mulch	Recycle	322.08	0.00	185.26	225.57	0.00	30.16	212.82	905.40	0.00	0.00	0.00	182.57	2064	2064
	1046 IN - Compost + 1046.1 Stockpiled Leaves & Grassclippings & Compost	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	913.88	0.00	0.00	914	914
	1096 IN - Pallets	Recycle	0.00	0.00	0.79	1.26	0.48	0.70	2.64	0.73	17.50	0.00	0.00	0.00	24	24
	1025 IN - Sod	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0
	1146 IN - Woodchips	Recycle	9.04	9.09	38.41	45.24	0.00	57.78	6.51	10.22	23.78	4.93	0.88	3.27	209	209
	1097 OUT - Single Stream Recycling	Recycle	197.38	184.45	200.16	208.71	270.14	302.72	309.23	287.11	244.49	247.07	278.28	308.12	3038	3038
	OUT - Shredded Paper	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0
	1053 OUT - Lead Acid Batteries or 10	Recycle	1.82	0.85	0.72	1.85	0.74	0.87	0.80	0.79	0.00	1.64	1.08	0.00	11	11
	1120 OUT - Household Batteries	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0
	1121 OUT - Rechargeable Batteries	Recycle	0.00	0.02	0.00	0.06	0.05	0.04	0.02	0.04	0.04	0.02	0.02	0.04	0	0
	1117 OUT - Textiles	Recycle	0.14	0.48	0.17	0.26	0.46	0.18	0.23	0.41	0.10	0.26	0.70	0.15	4	4
METALS	1044 OUT - Scrap Metal Appliances & 1044.28 1098	Recycle	23.61	27.83	51.21	46.35	36.50	31.85	62.70	37.50	32.45	88.91	45.97	25.08	512	512
	1044,1 OUT - Roads Scrap Metal	Recycle	6.06	4.10	0.00	0.00	10.84	0.00	9.39	0.00	0.00	0.00	12.01	0.00	43	43
	1116 OUT - Metal Tire Rims #1 Steel	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	2.70	0.00	0.00	0.00	0.00	0.00	3	3
	1116,2 OUT - Aluminum Rims & 1116.2 #16 Rims	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0
	1130 OUT - Oil Filters	Recycle	0.00	0.00	0.45	0.00	0.00	0.00	0.10	0.15	0.00	0.00	0.00	0.00	1	1
	1124 OUT - Mercury Thermostats	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0	0
	1126 OUT - Corks	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0
	1088 OUT - Electronics	Recycle	4.84	0.00	0.00	5.02	0.00	0.00	6.17	0.00	0.00	5.09	0.00	4.72	26	26
	1138 OUT - Printer Cartridges	Recycle	0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.01	0	0
	1101 OUT - Vinyl Siding	Recycle	0.00	0.00	0.00	0.00	2.79	0.00	2.62	0.00	2.89	0.00	0.00	3.38	12	12
	1052 OUT - Tires (Recycled)	Recycle	9.52	0.00	31.59	0.00	17.72	17.22	40.59	0.00	17.44	0.00	17.36	13.55	165	165
TIRES	1098 OUT - Citizen Scrap Tires (Recycled)+AG Tires 1032,4 1032,5	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0
	1125 OUT - Eyewear	Recycle	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0	0
	1123 OUT - Latex Paint (Recycled)	Recycle	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	2.00	1.00	33	33
	1118 OUT - Fluorescent Lamps	Recycle	0.28	0.00	0.26	0.32	0.00	0.00	0.23	0.00	0.21	0.00	0.00	0.25	2	2
	1122 OUT - Bra Recycling	Recycle	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.01	0	0
	1132 OUT - Polystyrene	Recycle	0.26	0.18	0.24	0.07	0.11	0.16	0.15	0.21	0.16	0.19	0.25	0.08	2	2
	2000 OUT - Roadside auction	Recycle/Reuse	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0
MONTHLY TOTAL WASTE		82107	67174	8653.28	9890.37	9249.15	10448.06	10818.09	12234.08	9391.77	10197.27	8078.16	7136.38	111063		

ANNUAL 2018 LANDFILL TONNAGES															
MRA WASTE		OWN METHOD	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	TOTAL
HOME/COMM	1001 IN - Residential	Landfill	2432	1997	2381	2648	2843	2648	2782	2927	2396	2707	2621	2392	30674
	1002 IN - Commercial	Landfill	2417	2452	2683	2824	3470	3204	3022	3204	2749	2881	2783	2717	34406
	1003 IN - Industrial	Landfill	0	0	0	0	0	0	0	0	0	0	0	0	0
	1004 IN - Institutional	Landfill	0	0	0	0	0	0	4	0	2	0	2	0	8
	1016 IN - School Board MSW	Landfill	0	0	0	0	0	0	0	0	0	0	0	0	0
	5002 Homeowner Trash & SSR	Landfill	0	0	0	0	0	0	0	0	0	0	0	0	0
	5003 Homeowner / 6000 Non Scale Refuse	Landfill	101	99	122	127	131	151	141	130	119	124	112	110	1466
	1021 IN - Wood/Leaves Refuse	Landfill	73,78	75,64	82,89	84,16	104,60	86,43	81,97	118,86	85,37	99,64	94,71	76,35	1075
	1024 IN - Stemmers Refuse	Landfill	24,47	29,59	21,09	33,91	47,49	36,05	31,55	40,38	26,51	35,55	42,04	23,31	392
	1148 IN - Latex Paint Residual Waste	Landfill	3	3	3	2	2	2	2	2	2	2	2	2	27
DGC	1131 OUT - Household Hazardous Waste	Landfill	0	0	0	39	0	0	0	0	0	0	0	0	39
	1135 OUT - Medications	WTE	0	0	0	0	0	0	0	0	0	0	0	0	0
	1128 OUT - Sharps	medical inciner	0,14	0,14	0,14	0,14	0,14	0,14	0,14	0,14	0,14	0,14	0,14	0,14	2
NON MRA WASTE		OWN METHOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC	TOTAL
C&D	1005 IN - Landfilling	Landfill	0	0	0	0	0	0	0	0	0	0	0	0	0
	1006 IN - Demolition 1085,1 Full Waiver C&D	Landfill	64	138	74	116	227	120	82	76	51	183	40	20	2638
	1007 IN - Construction 1085,1 Full Waiver C&D	Landfill	942	975	1554	1731	2265	2099	2211	2003	1522	86	1297	1253	17938
	1008 IN - Dirt / Soil & 1008,2 Ditch Spoils	Landfill	31	216	63	212	68	494	54	365	458	206	283	31	2481
	1008,1 IN - Topsoil (no charge)	Stockpiled/Reuse	0	1134	0	0	0	1216	0	0	2202	2785	1491	4972	13799
	1050 IN - Asphalt	Landfill	0	0	0	0	0	0	0	13	0	0	0	0	20
	1041 IN - Asphalt Stockpiled & 1087 Millings	Stockpiled/Reuse	0	0	1	11	6	0	0	0	9	0	0	0	28
	1051 IN - Concrete	Landfill	0	0	0	0	0	0	21	2	1	183	7	1	196
	1051,1 IN - Concrete Stockpiled	Stockpiled/Reuse	0	7	13	5	8	54	2	10	6	0	4	4	113
	1018 IN - Litter	Landfill	0	2	4	0	1	0	0	0	0	0	0	0	6
SPECIAL WASTE	1026 IN - Dead Animals	Landfill	0	0	0	0	0	0	0	0	0	0	0	0	4
	1060 IN - 1/2 Waiver	Landfill	0	0	0	0	0	0	148	0	0	0	0	0	148
	1082 IN - Full Waiver	Landfill	0	0	0	0	0	0	0	0	0	6	0	0	37
	1112 IN - Adopt a Road Litter	Landfill	0	0	0	0	0	0	0	0	0	0	0	0	0
	1142 IN - Street Sweepings	Landfill	10	20	16	11	44	34	16	28	22	30	25	35	280
	1012 IN - Treatment Plant Sludge	Landfill	208	343	381	447	482	412	514	524	374	430	223	305	4800
	1012,1 IN - Grits & Screenings	Landfill	0	0	7	0	0	0	0	0	0	0	0	0	11
	1055 IN - Boat	Landfill	0	0	1	3	4	0	7	4	1	12	0	1	35
	1059 IN - Mobile Home	Landfill	0	0	0	0	0	0	0	1	7	0	0	0	1
	1145 IN - Special Handling Wastes	Landfill	0	0	0	0	0	0	0	0	0	0	0	0	0
MATERIAL	1143 IN - Carpet	Landfill	4	7	6	5	6	10	3	6	7	6	7	7	74
	1014 IN - Asbestos	Landfill	0	0	0	0	0	0	0	0	0	0	0	0	0
	1020 IN - Contaminated Soil	Landfill	0	0	0	0	0	0	0	0	0	0	0	0	0
	1061 IN - Stall Waste	Landfill	0	0	0	0	0	0	0	0	0	0	0	0	0
	1052 OUT - Tires	WTE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NON MRA RECYCLABLES														42820
	1119 OUT - Motor Oil	Recycle	1	5	3	7	5	2	5	3	1	6	3	3	44
	1136 OUT - Antifreeze	Recycle	2	0	0	0	2	0	0	3	0	0	0	0	8
	1137 OUT - Refrigerant (Freon)	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	0
	1127 OUT - Vegetable Oil	Recycle	0	0	0	0	0	0	0	0	0	0	1	0	1
	1111 OUT - Propane tanks	Recycle	0	0	0	0	3	0	0	0	0	0	0	0	3
	1000 IN - Stumps & Logs	Recycle	16	38	111	83	45	41	134	116	38	13	31	39	700
	MRA RECYCLABLES														766
	1138 - Processed Mulch	Recycle	166	143	713	570	594	150	594	125	100	0	366	119	3670
1046 IN - Compost & 1046,1	Recycle	0	184	84	0	125	56	198	244	150	1503	409	439	945	
1096 IN - Leaves & Grassclippings & Compost	Recycle	0	0	0	0	0	0	0	0	0	1447	0	0	1447	
1096 IN - Pallets	Recycle	1	1	0	0	3	0	0	3	0	1	1	0	10	
1025 IN - Soil	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	0	
1146 IN - Woodchips	Recycle	2	0	58	14	28	8	4	36	34	67	17	2	271	
1097 OUT - Single Stream Recycling leaving CLF	Recycle	287	265	285	256	317	302	310	287	235	253	304	341	3442	
OUT - Shredded Paper	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	0	
1053 OUT - Lead Acid Batteries or 1053,2	Recycle	0	1	0	2	1	0	1	3	1	1	1	1	12	
1120 OUT - Household Batteries	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	0	
1121 OUT - Rechargeable Batteries	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	1	
1117 OUT - Textiles	Recycle	0	0	0	0	0	0	0	1	0	0	0	0	3	
1044 OUT - Scrap Metal / Appliances & 1044,2	Recycle	18	15	17	34	36	33	51	25	44	19	25	25	341	
1044,1 OUT - Radio Scrap Metal	Recycle	13	0	0	0	10	0	0	7	7	0	0	13	50	
1116 OUT - Metal Tire Rims #1 Steel	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	0	
1116,2 OUT - Aluminum Rims & 1116,2 #1 bk rims	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	0	
1130 OUT - Oil Filters	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	1	
1124 OUT - Mercury Thermostats	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	0	
1126 OUT - Corks	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	0	
11088 OUT - Electronics	Recycle	0	0	0	5	0	5	0	5	0	5	0	5	19	
11139 OUT - Printer Cartridges	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	0	
1101 OUT - Vinyl Siding	Recycle	0	0	0	3	6	0	4	0	3	3	0	3	17	
1052 OUT - Tires (Recycled)	Recycle	13	6	29	13	15	9	26	13	19	14	15	16	188	
1088 OUT - Citizen Scrap Tires (Recycled)+AG Tires	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	0	
1032,4 1032,5	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	0	
1125 OUT - Eyewear	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	0	
1123 OUT - Latex Paint (Recycled)	Recycle	1	2	3	3	2	2	2	2	2	2	2	2	25	
1118 OUT - Fluorescent Lamps	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	1	
1122 OUT - Bra Recycling	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	0	
1132 OUT - Polyethylene	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	2	
9000 OUT - Goodwills auction	Recycle Reuse	0	0	1	0	1	0	0	0	1	0	2	1	5	
MONTHLY TOTAL WASTE			6308	7498	7423	8206	9735	10566	9104	9554	10033	11284	9041	11958	110708

Total waste disposal reported for 2018 analysis: 93,381.46 tons

SECTION B. Waste-to-Energy/Incinerator Facilities ONLY

1. Tonnage of MSW ash generated from solid waste accepted at facility:
2. Tonnage of Non-MSW ash generated from solid waste accepted at facility:
3. Tonnage of by-pass generated from solid waste accepted at facility:

	n/a
	n/a
	n/a

SECTION C. Total Amount of Waste Managed at Facility in 2019

TOTAL IN TABLE A1	195,857.71	A1
MSW ASH GENERATED (WTE ONLY)	n/a	B1
NON-MSW ASH GENERATED (WTE ONLY)	n/a	B2
BY-PASS GENERATED (WTE ONLY)	n/a	B3
Stored Waste from Previous Year *	13,940.00	C1
GRAND TOTAL (A1+B1+B2+B3+C1) ^	209,797.71	C2

* Means the waste that was temporarily stockpiled at the site in the previous year but wasn't managed until the current year. See Section C for instructions and additional information.

^ The total reported in C2 MUST equal the total tons reported in Section D (See Section E).

SECTION D. Methods of Solid Waste Management**Table D1 – On-Site Management (In Tons)**

	Landfilled	Incinerated	Projects at Landfills ^	Stored	Reused (RU) or Recycled (RC) or Composted/Mulched (CM)	TOTAL
MSW	70,590.89				RU RC CM	70,590.89
MSW Ash ¹	0				RU RC CM	0.00
Non-MSW Ash ¹	0				RU RC CM	0.00
Asbestos	0.04				RU RC CM	0.04
Asphalt	24			272	RU RC CM	296.00
C&D ¹	22,022				RU RC CM	22,022.00
Concrete ¹	887.00			316.00	RU RC CM	1,203.00
Industrial	0				RU RC CM	0.00
LCD	0				RU RC CM	0.00

Front-end Scrap Metal ¹	0					RU	0.00
						RC	
						CM	
Back-end Scrap Metal ¹	0					RU	0.00
						RC	
						CM	
Scrap Metal ¹	0					RU	0.00
						RC	
						CM	
Scrap Tires	0					RU	0.00
						RC	
						CM	
Sewage Sludge	4599.00					RU	4,599.00
						RC	
						CM	
Soil	4190.35			79797.65		RU	97,928.00
						RC	
						CM	
Special Medical Waste	0					RU	0.00
						RC	
						CM	
Stored Waste (C1)	0				13,799.00	RU	#REF!
					141.00	RC	
						CM	
Other 1*: [list] LATEX SOLID/ LATEX RU/ WOODCHIPS	25.00				27.00	RU	120.00
						RC	
					68.00	CM	
Other 2*: [list] BULKY OBJECTS & LITTER	122.07					RU	122.07
						RC	
						CM	
Other 3*: [list] PALLETS						RU	25.00
						RC	
					25.00	CM	
Other 4*: [list] TEXTILES RU, YARD WASTE						RU	8,215.00
						RC	
					8,215.00	CM	
Other 5*: [list]						RU	0.00
						RC	
						CM	
TOTAL TONS (D1)	102,460.35	0.00	0.00	80,385.65	13,826.00	RU	205,121.00
					141.00	RC	
					8,308.00	CM	

[^] Means the use of solid waste or other materials for projects at landfills (e.g., daily cover, road construction, etc.).

¹ See Section D for definitions and additional information.

* Includes materials such as, but not limited to, white goods, compost, wood waste, yard waste, food waste, electronics, pallets, by-pass, and textiles. See Section D for definitions and additional

Total Waste Landfilled in 2019 (omitting non-putrescible items such as soil, concrete waste, asphalt, latex and asbestos) = 97333.96 tons

SECTION B. Waste-to-Energy/Incinerator Facilities ONLY

1. Tonnage of MSW ash generated from solid waste accepted at facility:
2. Tonnage of Non-MSW ash generated from solid waste accepted at facility:
3. Tonnage of by-pass generated from solid waste accepted at facility:

	n/a
	n/a
	n/a

SECTION C. Total Amount of Waste Managed at Facility in 2020

TOTAL IN TABLE A1	199,880	A1
MSW ASH GENERATED (WTE ONLY)	n/a	B1
NON-MSW ASH GENERATED (WTE ONLY)	n/a	B2
BY-PASS GENERATED (WTE ONLY)	n/a	B3
Stored Waste from Previous Year *	80,386.00	C1
GRAND TOTAL (A1+B1+B2+B3+C1) ^	280,266	C2

* Means the waste that was temporarily stockpiled at the site in the previous year but wasn't managed until the current year. See Section C for instructions and additional information.

^ The total reported in C2 MUST equal the total tons reported in Section D (See Section E).

SECTION D. Methods of Solid Waste Management**Table D1 – On-Site Management (In Tons)**

	Landfilled	Incinerated	Projects at Landfills ^	Stored	Reused (RU) or Recycled (RC) or Composted/Mulched (CM)	TOTAL
MSW	73094				RU RC CM	73,094.00
MSW Ash ¹	0				RU RC CM	0.00
Non-MSW Ash ¹	0				RU RC CM	0.00
Asbestos	3.00				RU RC CM	3.00
Asphalt	11			27	RU RC CM	38.00
C&D ¹	24,773				RU RC CM	24,773.00
Concrete ¹	16			288	RU RC CM	304.00
Industrial	0				RU RC CM	0.00
LCD	0				RU RC CM	0.00

Front-end Scrap Metal ¹	0					RU	0.00
						RC	
						CM	
Back-end Scrap Metal ¹	0					RU	0.00
						RC	
						CM	
Scrap Metal ¹	0					RU	0.00
						RC	
						CM	
Scrap Tires	0					RU	0.00
						RC	
						CM	
Sewage Sludge	4447					RU	4,447.00
						RC	
						CM	
Soil	4083			83520		RU	87,603.00
						RC	
						CM	
Special Medical Waste	0					RU	0.00
						RC	
						CM	
Stored Waste (C1)	0				79,798	RU	80,386.00
					588.00	RC	
						CM	
Other 1*: [list] LATEX SOLID/ LATEX RU/ WOODCHIPS	21.00					RU	21.00
						RC	
						CM	
Other 2*: [list] BULKY OBJECTS & LITTER	159.00					RU	159.00
						RC	
						CM	
Other 3*: [list] PALLETS	0					RU	0.00
						RC	
						CM	
Other 4*: [list] TEXTILES RU, YARD WASTE						RU	4,847.00
						RC	
					4,847.00	CM	
Other 5*: [list]						RU	0.00
						RC	
						CM	
TOTAL TONS (D1)	106,607.00	0.00	0.00	83,835.00	79,798.00	RU	275,675.00
					588.00	RC	
					4,847.00	CM	

^ Means the use of solid waste or other materials for projects at landfills (e.g. , daily cover, road construction, etc.).

¹ See Section D for definitions and additional information.

* Includes materials such as, but not limited to, white goods, compost, wood waste, yard waste, food waste, electronics, pallets, by-pass, and textiles. See Section D for definitions and additional

Total Waste Landfilled in 2020 (omitting non-putrescible items such as soil, concrete waste, asphalt, latex and asbestos) = 102,473 tons

SECTION B. Waste-to-Energy/Incinerator Facilities ONLY

1. Tonnage of MSW ash generated from solid waste accepted at facility:
2. Tonnage of Non-MSW ash generated from solid waste accepted at facility:
3. Tonnage of by-pass generated from solid waste accepted at facility:

	n/a
	n/a
	n/a

SECTION C. Total Amount of Waste Managed at Facility in 2021

TOTAL IN TABLE A1	208,303.00	A1
MSW ASH GENERATED (WTE ONLY)	n/a	B1
NON-MSW ASH GENERATED (WTE ONLY)	n/a	B2
BY-PASS GENERATED (WTE ONLY)	n/a	B3
Stored Waste from Previous Year *	83,835.00	C1
GRAND TOTAL (A1+B1+B2+B3+C1) ^	292,138.00	C2

* Means the waste that was temporarily stockpiled at the site in the previous year but wasn't managed until the current year. See Section C for instructions and additional information.

^ The total reported in C2 MUST equal the total tons reported in Section D (See Section E).

SECTION D. Methods of Solid Waste Management**Table D1 – On-Site Management (In Tons)**

	Landfilled	Incinerated	Projects at Landfills ^	Stored	Reused (RU) or Recycled (RC) or Composted/Mulched (CM)	TOTAL
MSW	81,698.00				RU RC CM	81,698.00
MSW Ash ¹	0				RU RC CM	0.00
Non-MSW Ash ¹	0				RU RC CM	0.00
Asbestos	1				RU RC CM	1.00
Asphalt	30			593	RU RC CM	623.00
C&D ¹	27,166				RU RC CM	27,166.00
Concrete ¹	61			367	RU RC CM	428.00
Industrial	0				RU RC CM	0.00
LCD	0				RU RC CM	0.00

Front-end Scrap Metal ¹	0					RU	0.00
						RC	
						CM	
Back-end Scrap Metal ¹	0					RU	0.00
						RC	
						CM	
Scrap Metal ¹	0					RU	0.00
						RC	
						CM	
Scrap Tires	0					RU	0.00
						RC	
						CM	
Sewage Sludge	6,001					RU	6,001.00
						RC	
						CM	
Soil	4596			76620		RU	81,216.00
						RC	
						CM	
Special Medical Waste						RU	0.00
						RC	
						CM	
Stored Waste (C1)	0				315	RU	83,835.00
					83,520	RC	
						CM	
Other 2*: [list] BULKY OBJECTS & LITTER	178					RU	178.00
						RC	
						CM	
Other 3*: [list] PALLETES	0					RU	0.00
						RC	
						CM	
Other 4*: [list] YARD WASTE						RU	5,490.00
						RC	
					5,490	CM	
Other 5*: [list]						RU	0.00
						RC	
						CM	
						RU	0.00
						RC	
						CM	
TOTAL TONS (D1)	119,731.00	0.00	0.00	77,580.00	315.00	RU	286,636.00
					83,520.00	RC	
					5,490.00	CM	

^ Means the use of solid waste or other materials for projects at landfills (e.g., daily cover, road construction, etc.).

¹ See Section D for definitions and additional information.

* Includes materials such as, but not limited to, white goods, compost, wood waste, yard waste, food waste, electronics, pallets, by-pass, and textiles. See Section D for definitions and additional

Total Waste Landfilled in 2021 (omitting non-putrescible items such as soil, concrete waste, asphalt, latex and asbestos) = 115,043 tons

SECTION B. Waste-to-Energy/Incinerator Facilities ONLY

1. Tonnage of MSW ash generated from solid waste accepted at facility:
2. Tonnage of Non-MSW ash generated from solid waste accepted at facility:
3. Tonnage of by-pass generated from solid waste accepted at facility:

	N/A
	N/A
	N/A

SECTION C. Total Amount of Waste Managed at Facility in 2022

TOTAL IN TABLE A1	251,512.00	A1
MSW ASH GENERATED (WTE ONLY)	N/A	B1
NON-MSW ASH GENERATED (WTE ONLY)	N/A	B2
BY-PASS GENERATED (WTE ONLY)	N/A	B3
Stored Waste from Previous Year *	77,580.00	C1
GRAND TOTAL (A1+B1+B2+B3+C1) ^	329,092.00	C2

* Means the waste that was temporarily stockpiled at the site in the previous year but wasn't managed until the current year. See Section C for instructions and additional information.

^ The total reported in C2 MUST equal the total tons reported in Section D (See Section E).

SECTION D. Methods of Solid Waste Management**Table D1 – On-Site Management (In Tons)**

	Landfilled	Incinerated	Projects at Landfills ^	Stored	Reused (RU) or Recycled (RC) or Composted/Mulched (CM)	TOTAL
MSW	83,037.00				RU RC CM	83,037.00
MSW Ash ¹	0				RU RC CM	0.00
Non-MSW Ash ¹	0				RU RC CM	0.00
Asbestos	2				RU RC CM	2.00
Asphalt	37			448	RU RC CM	485.00
C&D ¹	23,093				RU RC CM	23,093.00
Concrete ¹	47			934	RU RC CM	981.00
Industrial	0				RU RC CM	0.00
LCD	0				RU RC CM	0.00

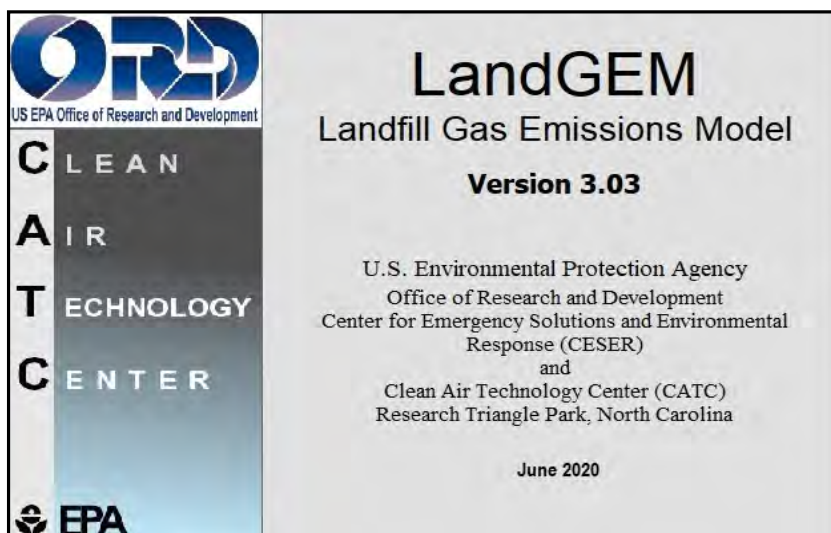
Front-end Scrap Metal ¹	0					RU	0.00
						RC	
						CM	
Back-end Scrap Metal ¹	0					RU	0.00
						RC	
						CM	
Scrap Metal ¹	0					RU	0.00
						RC	
						CM	
Scrap Tires	0					RU	0.00
						RC	
						CM	
Sewage Sludge	4,949					RU	4,949.00
						RC	
						CM	
Soil	3158			126496		RU	129,654.00
						RC	
						CM	
Special Medical Waste						RU	0.00
						RC	
						CM	
Stored Waste (C1)	0				960.00	RU	77,580.00
					76,620.00	RC	
						CM	
Other 1*: [list] BULKY OBJECTS & LITTER	122					RU	122.00
						RC	
						CM	
Other 2*: [list] PALLETES	0					RU	0.00
						RC	
						CM	
Other 3*: [list] YARD WASTE						RU	3,544.00
						RC	
					3,544.00	CM	
Other 4*: [list]						RU	0.00
						RC	
						CM	
Other 5*: [list]						RU	0.00
						RC	
						CM	
TOTAL TONS (D1)	114,445.00	0.00	0.00	127,878.00	960.00	RU	323,447.00
					76,620.00	RC	
					3,544.00	CM	

^ Means the use of solid waste or other materials for projects at landfills (e.g., daily cover, road construction, etc.).

¹ See Section D for definitions and additional information.

* Includes materials such as, but not limited to, white goods, compost, wood waste, yard waste, food waste, electronics, pallets, by-pass, and textiles. See Section D for definitions and additional

Total Waste Landfilled in 2022 (omitting non-putrescible items such as soil, concrete waste, asphalt, latex, and asbestos) = 111,201 tons



Summary Report

Landfill Name or Identifier: Cecil County Central Landfill

Date: Friday, September 15, 2023

Description/Comments:

Annual NMOC report per 40 CFR Part 62 Subpart OOOO (62.16724(c))

About LandGEM:

First-Order Decomposition Rate Equation:

$$Q_{CH_4} = \sum_{i=1}^n \sum_{j=0.1}^1 k L_o \left(\frac{M_i}{10} \right) e^{-k t_{ij}}$$

Where,

Q_{CH_4} = annual methane generation in the year of the calculation ($m^3/year$)

i = 1-year time increment

n = (year of the calculation) - (initial year of waste acceptance)

j = 0.1-year time increment

k = methane generation rate ($year^{-1}$)

L_o = potential methane generation capacity (m^3/Mg)

M_i = mass of waste accepted in the i^{th} year (Mg)

t_{ij} = age of the j^{th} section of waste mass M_i accepted in the i^{th} year (decimal years, e.g., 3.2 years)

LandGEM is based on a first-order decomposition rate equation for quantifying emissions from the decomposition of landfilled waste in municipal solid waste (MSW) landfills. The software provides a relatively simple approach to estimating landfill gas emissions. Model defaults are based on empirical data from U.S. landfills. Field test data can also be used in place of model defaults when available. Further guidance on EPA test methods, Clean Air Act (CAA) regulations, and other guidance regarding landfill gas emissions and control technology requirements can be found at <http://www.epa.gov/ttnatw01/landfill/landflpg.html>.

LandGEM is considered a screening tool — the better the input data, the better the estimates. Often, there are limitations with the available data regarding waste quantity and composition, variation in design and operating practices over time, and changes occurring over time that impact the emissions potential. Changes to landfill operation, such as operating under wet conditions through leachate recirculation or other liquid additions, will result in generating more gas at a faster rate. Defaults for estimating emissions for this type of operation are being developed to include in LandGEM along with defaults for conventional landfills (no leachate or liquid additions) for developing emission inventories and determining CAA applicability. Refer to the Web site identified above for future updates.

Input Review

LANDFILL CHARACTERISTICS

Landfill Open Year	1978	
Landfill Closure Year (with 80-year limit)	2027	
Actual Closure Year (without limit)	2027	
Have Model Calculate Closure Year?	No	
Waste Design Capacity	4,317,029	<i>short tons</i>

MODEL PARAMETERS

Methane Generation Rate, k	0.050	<i>year⁻¹</i>
Potential Methane Generation Capacity, L ₀	170	<i>m³/Mg</i>
NMOC Concentration	355	<i>ppmv as hexane</i>
Methane Content	50	<i>% by volume</i>

GASES / POLLUTANTS SELECTED

Gas / Pollutant #1:	Total landfill gas
Gas / Pollutant #2:	Methane
Gas / Pollutant #3:	Carbon dioxide
Gas / Pollutant #4:	NMOC

WASTE ACCEPTANCE RATES

Year	Waste Accepted		Waste-In-Place	
	(Mg/year)	(short tons/year)	(Mg)	(short tons)
1978	52,908	58,198	0	0
1979	53,623	58,985	52,908	58,198
1980	53,623	58,985	106,530	117,183
1981	54,338	59,771	160,153	176,168
1982	55,053	60,558	214,491	235,940
1983	55,053	60,558	269,543	296,498
1984	55,768	61,344	324,596	357,056
1985	56,483	62,131	380,364	418,400
1986	56,483	62,131	436,846	480,531
1987	57,198	62,917	493,329	542,662
1988	57,198	62,917	550,526	605,579
1989	59,342	65,277	607,724	668,496
1990	58,627	64,490	667,066	733,773
1991	65,460	72,006	725,694	798,263
1992	63,737	70,111	791,154	870,269
1993	65,460	72,006	854,891	940,380
1994	64,599	71,059	920,351	1,012,386
1995	60,292	66,321	984,950	1,083,445
1996	58,569	64,426	1,045,242	1,149,766
1997	59,431	65,374	1,103,811	1,214,193
1998	64,599	71,059	1,163,242	1,279,566
1999	63,819	70,201	1,227,841	1,350,625
2000	69,485	76,433	1,291,660	1,420,826
2001	72,092	79,301	1,361,145	1,497,259
2002	66,198	72,818	1,433,236	1,576,560
2003	88,234	97,057	1,499,434	1,649,378
2004	102,373	112,610	1,587,668	1,746,435
2005	121,591	133,750	1,690,041	1,859,045
2006	150,687	165,756	1,811,632	1,992,795
2007	111,532	122,685	1,962,319	2,158,551
2008	99,145	109,060	2,073,851	2,281,236
2009	91,343	100,477	2,172,996	2,390,296
2010	80,357	88,393	2,264,339	2,490,773
2011	79,107	87,018	2,344,696	2,579,166
2012	74,671	82,138	2,423,803	2,666,184
2013	87,533	96,286	2,498,474	2,748,322
2014	86,152	94,767	2,586,007	2,844,608
2015	79,654	87,619	2,672,159	2,939,375
2016	80,677	88,745	2,751,813	3,026,994
2017	83,263	91,589	2,832,490	3,115,739

WASTE ACCEPTANCE RATES (Continued)

Year	Waste Accepted		Waste-In-Place	
	(Mg/year)	(short tons/year)	(Mg)	(short tons)
2018	84,892	93,381	2,915,753	3,207,328
2019	88,485	97,334	3,000,645	3,300,710
2020	93,157	102,473	3,089,131	3,398,044
2021	104,585	115,043	3,182,288	3,500,517
2022	101,092	111,201	3,286,872	3,615,560
2023	103,114	113,425	3,387,964	3,726,761
2024	105,176	115,694	3,491,078	3,840,186
2025	107,279	118,007	3,596,254	3,955,879
2026	109,425	120,368	3,703,533	4,073,887
2027	111,614	122,775	3,812,958	4,194,254
2028	0	0	3,924,572	4,317,029
2029	0	0	3,924,572	4,317,029
2030	0	0	3,924,572	4,317,029
2031	0	0	3,924,572	4,317,029
2032	0	0	3,924,572	4,317,029
2033	0	0	3,924,572	4,317,029
2034	0	0	3,924,572	4,317,029
2035	0	0	3,924,572	4,317,029
2036	0	0	3,924,572	4,317,029
2037	0	0	3,924,572	4,317,029
2038	0	0	3,924,572	4,317,029
2039	0	0	3,924,572	4,317,029
2040	0	0	3,924,572	4,317,029
2041	0	0	3,924,572	4,317,029
2042	0	0	3,924,572	4,317,029
2043	0	0	3,924,572	4,317,029
2044	0	0	3,924,572	4,317,029
2045	0	0	3,924,572	4,317,029
2046	0	0	3,924,572	4,317,029
2047	0	0	3,924,572	4,317,029
2048	0	0	3,924,572	4,317,029
2049	0	0	3,924,572	4,317,029
2050	0	0	3,924,572	4,317,029
2051	0	0	3,924,572	4,317,029
2052	0	0	3,924,572	4,317,029
2053	0	0	3,924,572	4,317,029
2054	0	0	3,924,572	4,317,029
2055	0	0	3,924,572	4,317,029
2056	0	0	3,924,572	4,317,029
2057	0	0	3,924,572	4,317,029

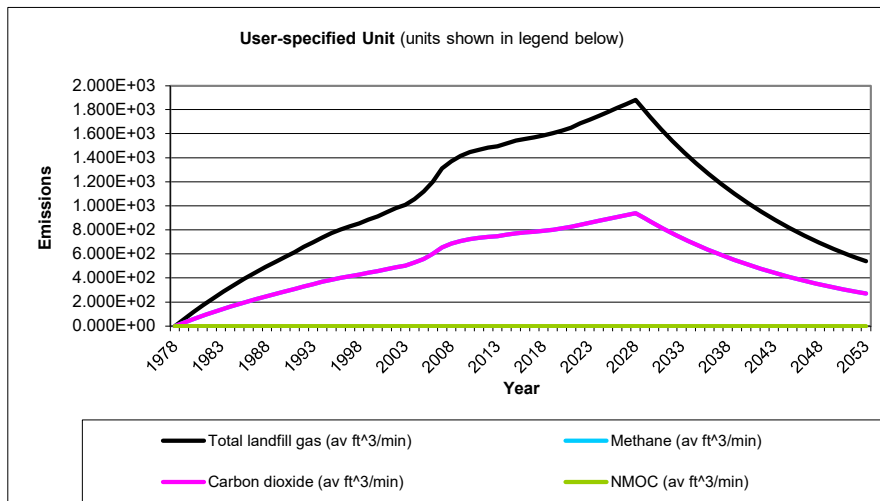
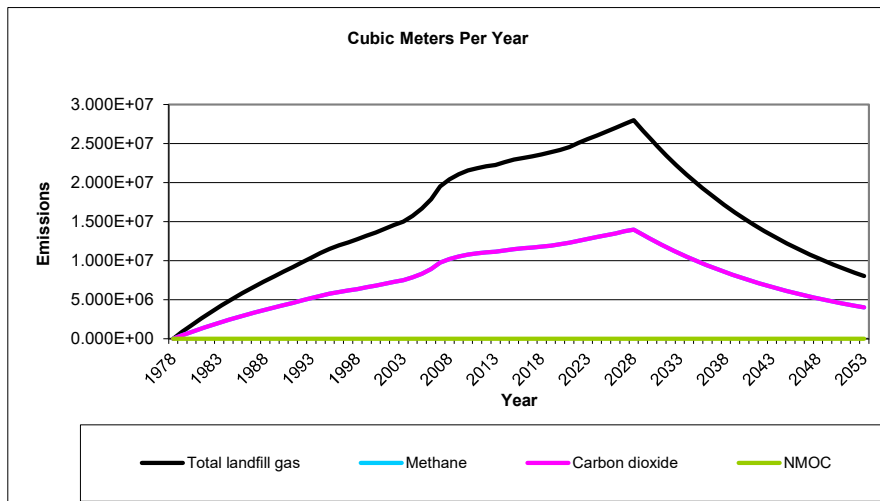
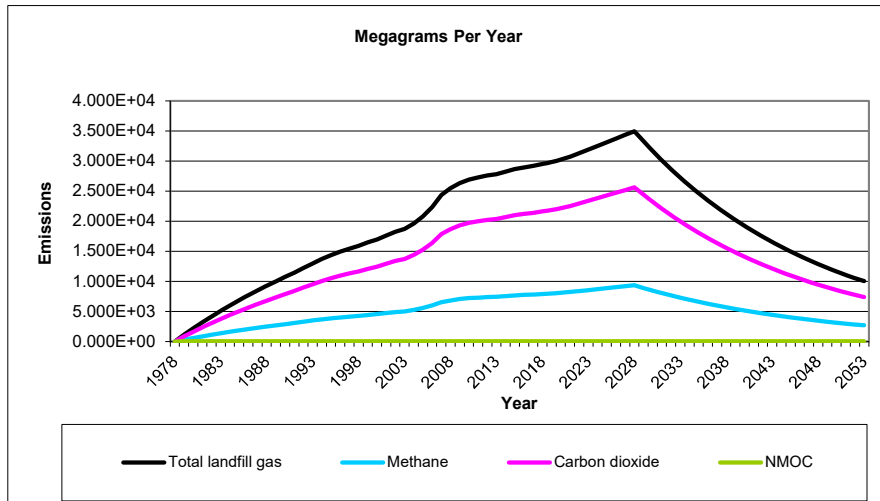
Pollutant Parameters

Gas / Pollutant Default Parameters:				User-specified Pollutant Parameters:	
	Compound	Concentration (ppmv)	Molecular Weight	Concentration (ppmv)	Molecular Weight
Gases	Total landfill gas		0.00		
	Methane		16.04		
	Carbon dioxide		44.01		
	NMOC	4,000	86.18		
Pollutants	1,1,1-Trichloroethane (methyl chloroform) - HAP	0.48	133.41		
	1,1,2,2- Tetrachloroethane - HAP/VOC	1.1	167.85		
	1,1-Dichloroethane (ethylidene dichloride) - HAP/VOC	2.4	98.97		
	1,1-Dichloroethene (vinylidene chloride) - HAP/VOC	0.20	96.94		
	1,2-Dichloroethane (ethylene dichloride) - HAP/VOC	0.41	98.96		
	1,2-Dichloropropane (propylene dichloride) - HAP/VOC	0.18	112.99		
	2-Propanol (isopropyl alcohol) - VOC	50	60.11		
	Acetone	7.0	58.08		
	Acrylonitrile - HAP/VOC	6.3	53.06		
	Benzene - No or Unknown Co-disposal - HAP/VOC	1.9	78.11		
	Benzene - Co-disposal - HAP/VOC	11	78.11		
	Bromodichloromethane - VOC	3.1	163.83		
	Butane - VOC	5.0	58.12		
	Carbon disulfide - HAP/VOC	0.58	76.13		
	Carbon monoxide	140	28.01		
	Carbon tetrachloride - HAP/VOC	4.0E-03	153.84		
	Carbonyl sulfide - HAP/VOC	0.49	60.07		
	Chlorobenzene - HAP/VOC	0.25	112.56		
	Chlorodifluoromethane	1.3	86.47		
	Chloroethane (ethyl chloride) - HAP/VOC	1.3	64.52		
	Chloroform - HAP/VOC	0.03	119.39		
	Chloromethane - VOC	1.2	50.49		
	Dichlorobenzene - (HAP for para isomer/VOC)	0.21	147		
	Dichlorodifluoromethane	16	120.91		
	Dichlorofluoromethane - VOC	2.6	102.92		
	Dichloromethane (methylene chloride) - HAP	14	84.94		
	Dimethyl sulfide (methyl sulfide) - VOC	7.8	62.13		
	Ethane	890	30.07		
	Ethanol - VOC	27	46.08		

Pollutant Parameters (Continued)

Gas / Pollutant Default Parameters:				User-specified Pollutant Parameters:	
	Compound	Concentration (ppmv)	Molecular Weight	Concentration (ppmv)	Molecular Weight
Pollutants	Ethyl mercaptan (ethanethiol) - VOC	2.3	62.13		
	Ethylbenzene - HAP/VOC	4.6	106.16		
	Ethylene dibromide - HAP/VOC	1.0E-03	187.88		
	Fluorotrichloromethane - VOC	0.76	137.38		
	Hexane - HAP/VOC	6.6	86.18		
	Hydrogen sulfide	36	34.08		
	Mercury (total) - HAP	2.9E-04	200.61		
	Methyl ethyl ketone - HAP/VOC	7.1	72.11		
	Methyl isobutyl ketone - HAP/VOC	1.9	100.16		
	Methyl mercaptan - VOC	2.5	48.11		
	Pentane - VOC	3.3	72.15		
	Perchloroethylene (tetrachloroethylene) - HAP	3.7	165.83		
	Propane - VOC	11	44.09		
	t-1,2-Dichloroethene - VOC	2.8	96.94		
	Toluene - No or Unknown Co-disposal - HAP/VOC	39	92.13		
	Toluene - Co-disposal - HAP/VOC	170	92.13		
	Trichloroethylene (trichloroethene) - HAP/VOC	2.8	131.40		
	Vinyl chloride - HAP/VOC	7.3	62.50		
	Xylenes - HAP/VOC	12	106.16		

Graphs



Results

Year	Total landfill gas			Methane		
	(Mg/year)	(m ³ /year)	(av ft ³ /min)	(Mg/year)	(m ³ /year)	(av ft ³ /min)
1978	0	0	0	0	0	0
1979	1.098E+03	8.795E+05	5.909E+01	2.934E+02	4.398E+05	2.955E+01
1980	2.158E+03	1.728E+06	1.161E+02	5.764E+02	8.640E+05	5.805E+01
1981	3.166E+03	2.535E+06	1.703E+02	8.457E+02	1.268E+06	8.517E+01
1982	4.140E+03	3.315E+06	2.227E+02	1.106E+03	1.657E+06	1.114E+02
1983	5.081E+03	4.068E+06	2.733E+02	1.357E+03	2.034E+06	1.367E+02
1984	5.976E+03	4.785E+06	3.215E+02	1.596E+03	2.393E+06	1.608E+02
1985	6.842E+03	5.479E+06	3.681E+02	1.828E+03	2.739E+06	1.841E+02
1986	7.681E+03	6.150E+06	4.132E+02	2.052E+03	3.075E+06	2.066E+02
1987	8.479E+03	6.789E+06	4.562E+02	2.265E+03	3.395E+06	2.281E+02
1988	9.253E+03	7.409E+06	4.978E+02	2.471E+03	3.705E+06	2.489E+02
1989	9.989E+03	7.999E+06	5.374E+02	2.668E+03	3.999E+06	2.687E+02
1990	1.073E+04	8.595E+06	5.775E+02	2.867E+03	4.297E+06	2.887E+02
1991	1.143E+04	9.150E+06	6.148E+02	3.052E+03	4.575E+06	3.074E+02
1992	1.223E+04	9.792E+06	6.579E+02	3.266E+03	4.896E+06	3.290E+02
1993	1.296E+04	1.037E+07	6.970E+02	3.461E+03	5.187E+06	3.485E+02
1994	1.368E+04	1.096E+07	7.362E+02	3.655E+03	5.478E+06	3.681E+02
1995	1.436E+04	1.150E+07	7.724E+02	3.835E+03	5.748E+06	3.862E+02
1996	1.491E+04	1.194E+07	8.021E+02	3.982E+03	5.969E+06	4.010E+02
1997	1.540E+04	1.233E+07	8.284E+02	4.113E+03	6.165E+06	4.142E+02
1998	1.588E+04	1.272E+07	8.544E+02	4.242E+03	6.358E+06	4.272E+02
1999	1.645E+04	1.317E+07	8.848E+02	4.393E+03	6.585E+06	4.424E+02
2000	1.697E+04	1.359E+07	9.130E+02	4.533E+03	6.794E+06	4.565E+02
2001	1.758E+04	1.408E+07	9.461E+02	4.697E+03	7.040E+06	4.730E+02
2002	1.822E+04	1.459E+07	9.804E+02	4.868E+03	7.296E+06	4.902E+02
2003	1.871E+04	1.498E+07	1.007E+03	4.997E+03	7.490E+06	5.033E+02
2004	1.963E+04	1.572E+07	1.056E+03	5.243E+03	7.858E+06	5.280E+02
2005	2.080E+04	1.665E+07	1.119E+03	5.555E+03	8.326E+06	5.594E+02
2006	2.231E+04	1.786E+07	1.200E+03	5.958E+03	8.931E+06	6.001E+02
2007	2.435E+04	1.950E+07	1.310E+03	6.503E+03	9.748E+06	6.549E+02
2008	2.547E+04	2.040E+07	1.371E+03	6.804E+03	1.020E+07	6.853E+02
2009	2.629E+04	2.105E+07	1.414E+03	7.022E+03	1.053E+07	7.072E+02
2010	2.690E+04	2.154E+07	1.448E+03	7.186E+03	1.077E+07	7.238E+02
2011	2.726E+04	2.183E+07	1.467E+03	7.281E+03	1.091E+07	7.333E+02
2012	2.757E+04	2.208E+07	1.483E+03	7.365E+03	1.104E+07	7.417E+02
2013	2.778E+04	2.224E+07	1.495E+03	7.420E+03	1.112E+07	7.473E+02
2014	2.824E+04	2.261E+07	1.519E+03	7.543E+03	1.131E+07	7.597E+02
2015	2.865E+04	2.294E+07	1.542E+03	7.653E+03	1.147E+07	7.708E+02
2016	2.891E+04	2.315E+07	1.555E+03	7.722E+03	1.157E+07	7.777E+02
2017	2.917E+04	2.336E+07	1.570E+03	7.792E+03	1.168E+07	7.848E+02
2018	2.948E+04	2.361E+07	1.586E+03	7.874E+03	1.180E+07	7.930E+02
2019	2.980E+04	2.387E+07	1.604E+03	7.961E+03	1.193E+07	8.018E+02
2020	3.019E+04	2.417E+07	1.624E+03	8.063E+03	1.209E+07	8.121E+02
2021	3.065E+04	2.454E+07	1.649E+03	8.187E+03	1.227E+07	8.245E+02
2022	3.132E+04	2.508E+07	1.685E+03	8.367E+03	1.254E+07	8.427E+02
2023	3.190E+04	2.554E+07	1.716E+03	8.520E+03	1.277E+07	8.580E+02
2024	3.248E+04	2.601E+07	1.748E+03	8.676E+03	1.300E+07	8.738E+02
2025	3.308E+04	2.649E+07	1.780E+03	8.836E+03	1.324E+07	8.899E+02
2026	3.369E+04	2.698E+07	1.813E+03	9.000E+03	1.349E+07	9.064E+02
2027	3.432E+04	2.748E+07	1.847E+03	9.168E+03	1.374E+07	9.233E+02

Results (Continued)

Year	Total landfill gas			Methane		
	(Mg/year)	(m ³ /year)	(av ft ³ /min)	(Mg/year)	(m ³ /year)	(av ft ³ /min)
2028	3.497E+04	2.800E+07	1.881E+03	9.340E+03	1.400E+07	9.406E+02
2029	3.326E+04	2.663E+07	1.789E+03	8.884E+03	1.332E+07	8.947E+02
2030	3.164E+04	2.533E+07	1.702E+03	8.451E+03	1.267E+07	8.511E+02
2031	3.010E+04	2.410E+07	1.619E+03	8.039E+03	1.205E+07	8.096E+02
2032	2.863E+04	2.292E+07	1.540E+03	7.647E+03	1.146E+07	7.701E+02
2033	2.723E+04	2.181E+07	1.465E+03	7.274E+03	1.090E+07	7.326E+02
2034	2.590E+04	2.074E+07	1.394E+03	6.919E+03	1.037E+07	6.968E+02
2035	2.464E+04	1.973E+07	1.326E+03	6.582E+03	9.865E+06	6.628E+02
2036	2.344E+04	1.877E+07	1.261E+03	6.261E+03	9.384E+06	6.305E+02
2037	2.229E+04	1.785E+07	1.200E+03	5.955E+03	8.926E+06	5.998E+02
2038	2.121E+04	1.698E+07	1.141E+03	5.665E+03	8.491E+06	5.705E+02
2039	2.017E+04	1.615E+07	1.085E+03	5.389E+03	8.077E+06	5.427E+02
2040	1.919E+04	1.537E+07	1.032E+03	5.126E+03	7.683E+06	5.162E+02
2041	1.825E+04	1.462E+07	9.821E+02	4.876E+03	7.308E+06	4.910E+02
2042	1.736E+04	1.390E+07	9.342E+02	4.638E+03	6.952E+06	4.671E+02
2043	1.652E+04	1.323E+07	8.886E+02	4.412E+03	6.613E+06	4.443E+02
2044	1.571E+04	1.258E+07	8.453E+02	4.197E+03	6.290E+06	4.226E+02
2045	1.494E+04	1.197E+07	8.041E+02	3.992E+03	5.984E+06	4.020E+02
2046	1.422E+04	1.138E+07	7.649E+02	3.797E+03	5.692E+06	3.824E+02
2047	1.352E+04	1.083E+07	7.275E+02	3.612E+03	5.414E+06	3.638E+02
2048	1.286E+04	1.030E+07	6.921E+02	3.436E+03	5.150E+06	3.460E+02
2049	1.224E+04	9.798E+06	6.583E+02	3.268E+03	4.899E+06	3.292E+02
2050	1.164E+04	9.320E+06	6.262E+02	3.109E+03	4.660E+06	3.131E+02
2051	1.107E+04	8.865E+06	5.957E+02	2.957E+03	4.433E+06	2.978E+02
2052	1.053E+04	8.433E+06	5.666E+02	2.813E+03	4.217E+06	2.833E+02
2053	1.002E+04	8.022E+06	5.390E+02	2.676E+03	4.011E+06	2.695E+02
2054	9.529E+03	7.631E+06	5.127E+02	2.545E+03	3.815E+06	2.563E+02
2055	9.064E+03	7.258E+06	4.877E+02	2.421E+03	3.629E+06	2.438E+02
2056	8.622E+03	6.904E+06	4.639E+02	2.303E+03	3.452E+06	2.320E+02
2057	8.202E+03	6.568E+06	4.413E+02	2.191E+03	3.284E+06	2.206E+02
2058	7.802E+03	6.247E+06	4.198E+02	2.084E+03	3.124E+06	2.099E+02
2059	7.421E+03	5.943E+06	3.993E+02	1.982E+03	2.971E+06	1.996E+02
2060	7.059E+03	5.653E+06	3.798E+02	1.886E+03	2.826E+06	1.899E+02
2061	6.715E+03	5.377E+06	3.613E+02	1.794E+03	2.689E+06	1.806E+02
2062	6.388E+03	5.115E+06	3.437E+02	1.706E+03	2.557E+06	1.718E+02
2063	6.076E+03	4.865E+06	3.269E+02	1.623E+03	2.433E+06	1.635E+02
2064	5.780E+03	4.628E+06	3.110E+02	1.544E+03	2.314E+06	1.555E+02
2065	5.498E+03	4.402E+06	2.958E+02	1.469E+03	2.201E+06	1.479E+02
2066	5.230E+03	4.188E+06	2.814E+02	1.397E+03	2.094E+06	1.407E+02
2067	4.975E+03	3.983E+06	2.677E+02	1.329E+03	1.992E+06	1.338E+02
2068	4.732E+03	3.789E+06	2.546E+02	1.264E+03	1.895E+06	1.273E+02
2069	4.501E+03	3.604E+06	2.422E+02	1.202E+03	1.802E+06	1.211E+02
2070	4.282E+03	3.429E+06	2.304E+02	1.144E+03	1.714E+06	1.152E+02
2071	4.073E+03	3.261E+06	2.191E+02	1.088E+03	1.631E+06	1.096E+02
2072	3.874E+03	3.102E+06	2.084E+02	1.035E+03	1.551E+06	1.042E+02
2073	3.685E+03	2.951E+06	1.983E+02	9.844E+02	1.476E+06	9.914E+01
2074	3.506E+03	2.807E+06	1.886E+02	9.364E+02	1.404E+06	9.431E+01
2075	3.335E+03	2.670E+06	1.794E+02	8.907E+02	1.335E+06	8.971E+01
2076	3.172E+03	2.540E+06	1.707E+02	8.473E+02	1.270E+06	8.533E+01
2077	3.017E+03	2.416E+06	1.623E+02	8.060E+02	1.208E+06	8.117E+01
2078	2.870E+03	2.298E+06	1.544E+02	7.666E+02	1.149E+06	7.721E+01

Results (Continued)

Year	Total landfill gas			Methane		
	(Mg/year)	(m ³ /year)	(av ft ³ /min)	(Mg/year)	(m ³ /year)	(av ft ³ /min)
2079	2.730E+03	2.186E+06	1.469E+02	7.293E+02	1.093E+06	7.344E+01
2080	2.597E+03	2.080E+06	1.397E+02	6.937E+02	1.040E+06	6.986E+01
2081	2.470E+03	1.978E+06	1.329E+02	6.599E+02	9.891E+05	6.646E+01
2082	2.350E+03	1.882E+06	1.264E+02	6.277E+02	9.408E+05	6.321E+01
2083	2.235E+03	1.790E+06	1.203E+02	5.971E+02	8.950E+05	6.013E+01
2084	2.126E+03	1.703E+06	1.144E+02	5.679E+02	8.513E+05	5.720E+01
2085	2.023E+03	1.620E+06	1.088E+02	5.402E+02	8.098E+05	5.441E+01
2086	1.924E+03	1.541E+06	1.035E+02	5.139E+02	7.703E+05	5.176E+01
2087	1.830E+03	1.465E+06	9.846E+01	4.888E+02	7.327E+05	4.923E+01
2088	1.741E+03	1.394E+06	9.366E+01	4.650E+02	6.970E+05	4.683E+01
2089	1.656E+03	1.326E+06	8.909E+01	4.423E+02	6.630E+05	4.455E+01
2090	1.575E+03	1.261E+06	8.475E+01	4.207E+02	6.307E+05	4.237E+01
2091	1.498E+03	1.200E+06	8.061E+01	4.002E+02	5.999E+05	4.031E+01
2092	1.425E+03	1.141E+06	7.668E+01	3.807E+02	5.706E+05	3.834E+01
2093	1.356E+03	1.086E+06	7.294E+01	3.621E+02	5.428E+05	3.647E+01
2094	1.290E+03	1.033E+06	6.939E+01	3.445E+02	5.163E+05	3.469E+01
2095	1.227E+03	9.823E+05	6.600E+01	3.277E+02	4.912E+05	3.300E+01
2096	1.167E+03	9.344E+05	6.278E+01	3.117E+02	4.672E+05	3.139E+01
2097	1.110E+03	8.888E+05	5.972E+01	2.965E+02	4.444E+05	2.986E+01
2098	1.056E+03	8.455E+05	5.681E+01	2.820E+02	4.227E+05	2.840E+01
2099	1.004E+03	8.043E+05	5.404E+01	2.683E+02	4.021E+05	2.702E+01
2100	9.554E+02	7.650E+05	5.140E+01	2.552E+02	3.825E+05	2.570E+01
2101	9.088E+02	7.277E+05	4.890E+01	2.427E+02	3.639E+05	2.445E+01
2102	8.645E+02	6.922E+05	4.651E+01	2.309E+02	3.461E+05	2.326E+01
2103	8.223E+02	6.585E+05	4.424E+01	2.196E+02	3.292E+05	2.212E+01
2104	7.822E+02	6.264E+05	4.208E+01	2.089E+02	3.132E+05	2.104E+01
2105	7.441E+02	5.958E+05	4.003E+01	1.987E+02	2.979E+05	2.002E+01
2106	7.078E+02	5.667E+05	3.808E+01	1.891E+02	2.834E+05	1.904E+01
2107	6.733E+02	5.391E+05	3.622E+01	1.798E+02	2.696E+05	1.811E+01
2108	6.404E+02	5.128E+05	3.446E+01	1.711E+02	2.564E+05	1.723E+01
2109	6.092E+02	4.878E+05	3.278E+01	1.627E+02	2.439E+05	1.639E+01
2110	5.795E+02	4.640E+05	3.118E+01	1.548E+02	2.320E+05	1.559E+01
2111	5.512E+02	4.414E+05	2.966E+01	1.472E+02	2.207E+05	1.483E+01
2112	5.243E+02	4.199E+05	2.821E+01	1.401E+02	2.099E+05	1.411E+01
2113	4.988E+02	3.994E+05	2.683E+01	1.332E+02	1.997E+05	1.342E+01
2114	4.744E+02	3.799E+05	2.553E+01	1.267E+02	1.900E+05	1.276E+01
2115	4.513E+02	3.614E+05	2.428E+01	1.205E+02	1.807E+05	1.214E+01
2116	4.293E+02	3.438E+05	2.310E+01	1.147E+02	1.719E+05	1.155E+01
2117	4.083E+02	3.270E+05	2.197E+01	1.091E+02	1.635E+05	1.099E+01
2118	3.884E+02	3.110E+05	2.090E+01	1.038E+02	1.555E+05	1.045E+01

Results (Continued)

Year	Carbon dioxide			NMOC		
	(Mg/year)	(m ³ /year)	(av ft ³ /min)	(Mg/year)	(m ³ /year)	(av ft ³ /min)
1978	0	0	0	0	0	0
1979	8.050E+02	4.398E+05	2.955E+01	1.120E+00	3.125E+02	2.100E-02
1980	1.582E+03	8.640E+05	5.805E+01	2.201E+00	6.140E+02	4.125E-02
1981	2.320E+03	1.268E+06	8.517E+01	3.229E+00	9.007E+02	6.052E-02
1982	3.034E+03	1.657E+06	1.114E+02	4.222E+00	1.178E+03	7.913E-02
1983	3.723E+03	2.034E+06	1.367E+02	5.181E+00	1.445E+03	9.712E-02
1984	4.379E+03	2.393E+06	1.608E+02	6.094E+00	1.700E+03	1.142E-01
1985	5.014E+03	2.739E+06	1.841E+02	6.977E+00	1.947E+03	1.308E-01
1986	5.629E+03	3.075E+06	2.066E+02	7.833E+00	2.185E+03	1.468E-01
1987	6.214E+03	3.395E+06	2.281E+02	8.647E+00	2.412E+03	1.621E-01
1988	6.781E+03	3.705E+06	2.489E+02	9.436E+00	2.632E+03	1.769E-01
1989	7.321E+03	3.999E+06	2.687E+02	1.019E+01	2.842E+03	1.909E-01
1990	7.867E+03	4.297E+06	2.887E+02	1.095E+01	3.054E+03	2.052E-01
1991	8.375E+03	4.575E+06	3.074E+02	1.165E+01	3.251E+03	2.184E-01
1992	8.962E+03	4.896E+06	3.290E+02	1.247E+01	3.479E+03	2.338E-01
1993	9.495E+03	5.187E+06	3.485E+02	1.321E+01	3.686E+03	2.477E-01
1994	1.003E+04	5.478E+06	3.681E+02	1.395E+01	3.893E+03	2.616E-01
1995	1.052E+04	5.748E+06	3.862E+02	1.464E+01	4.085E+03	2.744E-01
1996	1.093E+04	5.969E+06	4.010E+02	1.520E+01	4.241E+03	2.850E-01
1997	1.128E+04	6.165E+06	4.142E+02	1.570E+01	4.380E+03	2.943E-01
1998	1.164E+04	6.358E+06	4.272E+02	1.619E+01	4.518E+03	3.036E-01
1999	1.205E+04	6.585E+06	4.424E+02	1.677E+01	4.679E+03	3.144E-01
2000	1.244E+04	6.794E+06	4.565E+02	1.731E+01	4.828E+03	3.244E-01
2001	1.289E+04	7.040E+06	4.730E+02	1.793E+01	5.003E+03	3.361E-01
2002	1.336E+04	7.296E+06	4.902E+02	1.858E+01	5.185E+03	3.484E-01
2003	1.371E+04	7.490E+06	5.033E+02	1.908E+01	5.323E+03	3.576E-01
2004	1.438E+04	7.858E+06	5.280E+02	2.002E+01	5.584E+03	3.752E-01
2005	1.524E+04	8.326E+06	5.594E+02	2.121E+01	5.917E+03	3.975E-01
2006	1.635E+04	8.931E+06	6.001E+02	2.275E+01	6.346E+03	4.264E-01
2007	1.784E+04	9.748E+06	6.549E+02	2.483E+01	6.927E+03	4.654E-01
2008	1.867E+04	1.020E+07	6.853E+02	2.598E+01	7.248E+03	4.870E-01
2009	1.927E+04	1.053E+07	7.072E+02	2.681E+01	7.480E+03	5.026E-01
2010	1.972E+04	1.077E+07	7.238E+02	2.744E+01	7.654E+03	5.143E-01
2011	1.998E+04	1.091E+07	7.333E+02	2.780E+01	7.756E+03	5.211E-01
2012	2.021E+04	1.104E+07	7.417E+02	2.812E+01	7.845E+03	5.271E-01
2013	2.036E+04	1.112E+07	7.473E+02	2.833E+01	7.903E+03	5.310E-01
2014	2.070E+04	1.131E+07	7.597E+02	2.880E+01	8.035E+03	5.398E-01
2015	2.100E+04	1.147E+07	7.708E+02	2.922E+01	8.152E+03	5.477E-01
2016	2.119E+04	1.157E+07	7.777E+02	2.948E+01	8.225E+03	5.526E-01
2017	2.138E+04	1.168E+07	7.848E+02	2.975E+01	8.300E+03	5.577E-01
2018	2.160E+04	1.180E+07	7.930E+02	3.006E+01	8.387E+03	5.635E-01
2019	2.184E+04	1.193E+07	8.018E+02	3.039E+01	8.479E+03	5.697E-01
2020	2.212E+04	1.209E+07	8.121E+02	3.078E+01	8.588E+03	5.771E-01
2021	2.246E+04	1.227E+07	8.245E+02	3.126E+01	8.720E+03	5.859E-01
2022	2.296E+04	1.254E+07	8.427E+02	3.195E+01	8.912E+03	5.988E-01
2023	2.338E+04	1.277E+07	8.580E+02	3.253E+01	9.075E+03	6.097E-01
2024	2.380E+04	1.300E+07	8.738E+02	3.312E+01	9.241E+03	6.209E-01
2025	2.424E+04	1.324E+07	8.899E+02	3.374E+01	9.412E+03	6.324E-01
2026	2.469E+04	1.349E+07	9.064E+02	3.436E+01	9.586E+03	6.441E-01
2027	2.515E+04	1.374E+07	9.233E+02	3.500E+01	9.765E+03	6.561E-01

Results (Continued)

Year	Carbon dioxide			NMOC		
	(Mg/year)	(m ³ /year)	(av ft ³ /min)	(Mg/year)	(m ³ /year)	(av ft ³ /min)
2028	2.563E+04	1.400E+07	9.406E+02	3.566E+01	9.948E+03	6.684E-01
2029	2.438E+04	1.332E+07	8.947E+02	3.392E+01	9.463E+03	6.358E-01
2030	2.319E+04	1.267E+07	8.511E+02	3.226E+01	9.001E+03	6.048E-01
2031	2.206E+04	1.205E+07	8.096E+02	3.069E+01	8.562E+03	5.753E-01
2032	2.098E+04	1.146E+07	7.701E+02	2.919E+01	8.145E+03	5.472E-01
2033	1.996E+04	1.090E+07	7.326E+02	2.777E+01	7.747E+03	5.206E-01
2034	1.898E+04	1.037E+07	6.968E+02	2.642E+01	7.370E+03	4.952E-01
2035	1.806E+04	9.865E+06	6.628E+02	2.513E+01	7.010E+03	4.710E-01
2036	1.718E+04	9.384E+06	6.305E+02	2.390E+01	6.668E+03	4.480E-01
2037	1.634E+04	8.926E+06	5.998E+02	2.274E+01	6.343E+03	4.262E-01
2038	1.554E+04	8.491E+06	5.705E+02	2.163E+01	6.034E+03	4.054E-01
2039	1.478E+04	8.077E+06	5.427E+02	2.057E+01	5.739E+03	3.856E-01
2040	1.406E+04	7.683E+06	5.162E+02	1.957E+01	5.460E+03	3.668E-01
2041	1.338E+04	7.308E+06	4.910E+02	1.862E+01	5.193E+03	3.489E-01
2042	1.273E+04	6.952E+06	4.671E+02	1.771E+01	4.940E+03	3.319E-01
2043	1.210E+04	6.613E+06	4.443E+02	1.684E+01	4.699E+03	3.157E-01
2044	1.151E+04	6.290E+06	4.226E+02	1.602E+01	4.470E+03	3.003E-01
2045	1.095E+04	5.984E+06	4.020E+02	1.524E+01	4.252E+03	2.857E-01
2046	1.042E+04	5.692E+06	3.824E+02	1.450E+01	4.045E+03	2.718E-01
2047	9.911E+03	5.414E+06	3.638E+02	1.379E+01	3.847E+03	2.585E-01
2048	9.427E+03	5.150E+06	3.460E+02	1.312E+01	3.660E+03	2.459E-01
2049	8.967E+03	4.899E+06	3.292E+02	1.248E+01	3.481E+03	2.339E-01
2050	8.530E+03	4.660E+06	3.131E+02	1.187E+01	3.311E+03	2.225E-01
2051	8.114E+03	4.433E+06	2.978E+02	1.129E+01	3.150E+03	2.116E-01
2052	7.718E+03	4.217E+06	2.833E+02	1.074E+01	2.996E+03	2.013E-01
2053	7.342E+03	4.011E+06	2.695E+02	1.022E+01	2.850E+03	1.915E-01
2054	6.984E+03	3.815E+06	2.563E+02	9.718E+00	2.711E+03	1.822E-01
2055	6.643E+03	3.629E+06	2.438E+02	9.244E+00	2.579E+03	1.733E-01
2056	6.319E+03	3.452E+06	2.320E+02	8.793E+00	2.453E+03	1.648E-01
2057	6.011E+03	3.284E+06	2.206E+02	8.364E+00	2.333E+03	1.568E-01
2058	5.718E+03	3.124E+06	2.099E+02	7.956E+00	2.220E+03	1.491E-01
2059	5.439E+03	2.971E+06	1.996E+02	7.568E+00	2.111E+03	1.419E-01
2060	5.174E+03	2.826E+06	1.899E+02	7.199E+00	2.008E+03	1.349E-01
2061	4.921E+03	2.689E+06	1.806E+02	6.848E+00	1.911E+03	1.284E-01
2062	4.681E+03	2.557E+06	1.718E+02	6.514E+00	1.817E+03	1.221E-01
2063	4.453E+03	2.433E+06	1.635E+02	6.196E+00	1.729E+03	1.162E-01
2064	4.236E+03	2.314E+06	1.555E+02	5.894E+00	1.644E+03	1.105E-01
2065	4.029E+03	2.201E+06	1.479E+02	5.607E+00	1.564E+03	1.051E-01
2066	3.833E+03	2.094E+06	1.407E+02	5.333E+00	1.488E+03	9.997E-02
2067	3.646E+03	1.992E+06	1.338E+02	5.073E+00	1.415E+03	9.510E-02
2068	3.468E+03	1.895E+06	1.273E+02	4.826E+00	1.346E+03	9.046E-02
2069	3.299E+03	1.802E+06	1.211E+02	4.590E+00	1.281E+03	8.605E-02
2070	3.138E+03	1.714E+06	1.152E+02	4.367E+00	1.218E+03	8.185E-02
2071	2.985E+03	1.631E+06	1.096E+02	4.154E+00	1.159E+03	7.786E-02
2072	2.839E+03	1.551E+06	1.042E+02	3.951E+00	1.102E+03	7.406E-02
2073	2.701E+03	1.476E+06	9.914E+01	3.758E+00	1.049E+03	7.045E-02
2074	2.569E+03	1.404E+06	9.431E+01	3.575E+00	9.974E+02	6.701E-02
2075	2.444E+03	1.335E+06	8.971E+01	3.401E+00	9.487E+02	6.374E-02
2076	2.325E+03	1.270E+06	8.533E+01	3.235E+00	9.025E+02	6.064E-02
2077	2.211E+03	1.208E+06	8.117E+01	3.077E+00	8.584E+02	5.768E-02
2078	2.103E+03	1.149E+06	7.721E+01	2.927E+00	8.166E+02	5.487E-02

Results (Continued)

Year	Carbon dioxide			NMOC		
	(Mg/year)	(m ³ /year)	(av ft ³ /min)	(Mg/year)	(m ³ /year)	(av ft ³ /min)
2079	2.001E+03	1.093E+06	7.344E+01	2.784E+00	7.768E+02	5.219E-02
2080	1.903E+03	1.040E+06	6.986E+01	2.648E+00	7.389E+02	4.964E-02
2081	1.810E+03	9.891E+05	6.646E+01	2.519E+00	7.028E+02	4.722E-02
2082	1.722E+03	9.408E+05	6.321E+01	2.396E+00	6.686E+02	4.492E-02
2083	1.638E+03	8.950E+05	6.013E+01	2.280E+00	6.360E+02	4.273E-02
2084	1.558E+03	8.513E+05	5.720E+01	2.168E+00	6.049E+02	4.065E-02
2085	1.482E+03	8.098E+05	5.441E+01	2.063E+00	5.754E+02	3.866E-02
2086	1.410E+03	7.703E+05	5.176E+01	1.962E+00	5.474E+02	3.678E-02
2087	1.341E+03	7.327E+05	4.923E+01	1.866E+00	5.207E+02	3.498E-02
2088	1.276E+03	6.970E+05	4.683E+01	1.775E+00	4.953E+02	3.328E-02
2089	1.214E+03	6.630E+05	4.455E+01	1.689E+00	4.711E+02	3.165E-02
2090	1.154E+03	6.307E+05	4.237E+01	1.606E+00	4.481E+02	3.011E-02
2091	1.098E+03	5.999E+05	4.031E+01	1.528E+00	4.263E+02	2.864E-02
2092	1.045E+03	5.706E+05	3.834E+01	1.454E+00	4.055E+02	2.725E-02
2093	9.936E+02	5.428E+05	3.647E+01	1.383E+00	3.857E+02	2.592E-02
2094	9.452E+02	5.163E+05	3.469E+01	1.315E+00	3.669E+02	2.465E-02
2095	8.991E+02	4.912E+05	3.300E+01	1.251E+00	3.490E+02	2.345E-02
2096	8.552E+02	4.672E+05	3.139E+01	1.190E+00	3.320E+02	2.231E-02
2097	8.135E+02	4.444E+05	2.986E+01	1.132E+00	3.158E+02	2.122E-02
2098	7.738E+02	4.227E+05	2.840E+01	1.077E+00	3.004E+02	2.018E-02
2099	7.361E+02	4.021E+05	2.702E+01	1.024E+00	2.858E+02	1.920E-02
2100	7.002E+02	3.825E+05	2.570E+01	9.743E-01	2.718E+02	1.826E-02
2101	6.660E+02	3.639E+05	2.445E+01	9.268E-01	2.586E+02	1.737E-02
2102	6.336E+02	3.461E+05	2.326E+01	8.816E-01	2.459E+02	1.653E-02
2103	6.027E+02	3.292E+05	2.212E+01	8.386E-01	2.340E+02	1.572E-02
2104	5.733E+02	3.132E+05	2.104E+01	7.977E-01	2.225E+02	1.495E-02
2105	5.453E+02	2.979E+05	2.002E+01	7.588E-01	2.117E+02	1.422E-02
2106	5.187E+02	2.834E+05	1.904E+01	7.218E-01	2.014E+02	1.353E-02
2107	4.934E+02	2.696E+05	1.811E+01	6.866E-01	1.915E+02	1.287E-02
2108	4.694E+02	2.564E+05	1.723E+01	6.531E-01	1.822E+02	1.224E-02
2109	4.465E+02	2.439E+05	1.639E+01	6.212E-01	1.733E+02	1.165E-02
2110	4.247E+02	2.320E+05	1.559E+01	5.910E-01	1.649E+02	1.108E-02
2111	4.040E+02	2.207E+05	1.483E+01	5.621E-01	1.568E+02	1.054E-02
2112	3.843E+02	2.099E+05	1.411E+01	5.347E-01	1.492E+02	1.002E-02
2113	3.655E+02	1.997E+05	1.342E+01	5.086E-01	1.419E+02	9.534E-03
2114	3.477E+02	1.900E+05	1.276E+01	4.838E-01	1.350E+02	9.069E-03
2115	3.307E+02	1.807E+05	1.214E+01	4.602E-01	1.284E+02	8.627E-03
2116	3.146E+02	1.719E+05	1.155E+01	4.378E-01	1.221E+02	8.206E-03
2117	2.993E+02	1.635E+05	1.099E+01	4.164E-01	1.162E+02	7.806E-03
2118	2.847E+02	1.555E+05	1.045E+01	3.961E-01	1.105E+02	7.425E-03

ATTACHMENT 4

2023 ANNUAL COMPLIANCE CERTIFICATION REPORT



April 1, 2024

Mr. Enobong Umoh
Maryland Department of the Environment
Air and Radiation Management Administration
Air Quality Permits Program
1800 Washington Blvd., Suite 715
Baltimore, Maryland 21230

**RE: Annual Compliance Certification (A-COMP)
Cecil County Central Landfill; Part 70 Permit # 24-015-00163
2023 Reporting Year**

Mr. Umoh:

Please find enclosed the 2023 Annual Compliance Certification Report for Cecil County Department of Public Works' Central Landfill located in Elkton, Maryland. In addition, the Annual NMOC report is enclosed as an attachment to the A-COMP report.

Should you have any questions regarding this report, please do not hesitate to contact me at 814-341-9790 or kfinlan@baigroupllc.com.

Sincerely,

BAI Group

A handwritten signature in blue ink that reads 'Karen E. Finlan'.

Karen E. Finlan
Senior Environmental Consultant

Enclosures

cc: David Horne, CCDPW SWMD
Craig Marker, P.E., CCDPW E&C
R3_APD_Permits@epa.gov

2023 ANNUAL COMPLIANCE CERTIFICATION REPORT

CENTRAL LANDFILL
PERMIT ID 24-015-00163

MARCH 2024

Prepared For:



Cecil County Department of Public Works
Solid Waste Management Division
200 Chesapeake Blvd.
Suite 2400A
Elkton, MD 21921



Prepared By:

MAIN OFFICE:
366 Walker Drive, Suite 300
State College, PA 16801
PH: 814-238-2060 FX: 814-238-7123

DELAWARE VALLEY OFFICE:
101 Lindenwood Dr. Suite 225
Malvern, PA 19355
PH: 610-495-5585

CECIL COUNTY DEPARTMENT OF PUBLIC WORKS
CENTRAL LANDFILL

2023 ANNUAL COMPLIANCE CERTIFICATION REPORT

Table of Contents

EPA Forms

EPA Form 5900-02 Certification of truth, Accuracy, and Completeness (CTAC)
EPA Form 5900-04 Annual Compliance Certification (A-COMP)

Attachments

1. Certification of Plant-Wide Conditions
2. Tier 2 NMOC Emission Estimates Report

Federal Operating Permit Program (40 CFR Part 71)
CERTIFICATION OF TRUTH, ACCURACY, AND COMPLETENESS (CTAC)

This form must be completed, signed by the "Responsible Official" designated for the facility or emission unit, and sent with each submission of documents (i.e., application forms, updates to applications, reports, or any information required by a part 71 permit).

A. Responsible Official

Name: (Last) Horne (First) David (MI) W

Title Chief of Solid Waste Management Division

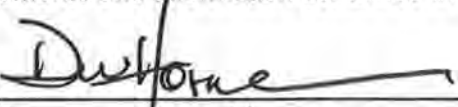
Street or P.O. Box 758 East Old Philadelphia Pike

City Elkton State MD ZIP 21921 -

Telephone (410) 996 - 6275 Ext. Facsimile (410) 287 - 4608

B. Certification of Truth, Accuracy and Completeness (to be signed by the responsible official)

I certify under penalty of law, based on information and belief formed after reasonable inquiry, the statements and information contained in these documents are true, accurate and complete.

Name (signed) 

Name (typed) David W. Horne

Date: 04 / 01 / 24

Federal Operating Permit Program (40 CFR Part 71)
ANNUAL COMPLIANCE CERTIFICATION (A-COMP)

A. GENERAL INFORMATION

Permit No. 24-015-00163

Reporting Period: Beg. 01 / 01 / 2023 End. 12 / 31 / 2023

Source / Company Name Cecil County Central Landfill

Mailing Address: Street or P.O. Box 758 East Old Philadelphia Road

City Elkton State MD ZIP 21921 -

Contact person David W. Horne Title Chief of Solid Waste Management Division

Telephone (410) 996 - 6275 Ext. N/A

Continued on next page

B. COMPLIANCE STATUS

Describe the compliance status of each permit term for the reporting period. Copy this page as many times as necessary to cover all permit terms and conditions.

Emission Unit ID(s): ***EU01 – Municipal Solid Waste Landfill provided with an active gas collection and control system with an active open flare.***

Permit Term (Describe requirements and cross-reference)

Part 70 Permit - Section IV, Table IV-1, 1.0 – Emission Unit Number(s) – EU-01

MDE Registration No. 9-0096

Active municipal solid waste landfill with a design capacity of 5 million tons of MSW provided with an active gas collection and control system with an active open flare.

Part 70 Permit - Section IV, Table IV-1, 1.1 – Applicable Standards/Limits

Cecil County Central Sanitary Landfill is subject to the testing, record keeping, and reporting requirements indicated below.

Compliance Methods for the Above (Description and Citation):

As discussed within the Testing, Monitoring, Record Keeping and Reporting requirements below.

Status (Check one): ☐ Intermittent Compliance ☒ Continuous Compliance

Emission Unit ID(s): ***EU01 – Municipal Solid Waste Landfill provided with an active gas collection and control system with an active open flare.***

Permit Term (Describe requirements and cross-reference)

Part 70 Permit - Section IV, Table IV-1, 1.2 - Testing Requirements:

"If the resulting NMOC mass emission rate is less than 50 megagrams per year, the owner or operator shall submit a periodic estimate of the emission rate report as provided in §60.757(b)(1) and retest the site specific NMOC concentration every 5 years using the methods specified in this section." [Reference: 40 CFR §60.754(a)(3)(iii)]

Compliance Methods for the Above (Description and Citation):

NMOC emission estimate reports are submitted annually along with the facility's A-COMP Reports. According to the Central Landfills Title V permit the site specific NMOC concentration need to be retested every five years. The site specific NMOC concentration testing has been completed as follows: original test conducted in May 2007, re-tested in May 2012, re-tested in May 2017, and re-tested again most recently in May 2022. A report with the results of the Tier 2 NMOC Emissions 5 Year Recheck was submitted to the MDE in July 2022. The NMOC emissions have been updated and are provided to the MDE (a copy of the report is enclosed under Attachment 2). Based on the report, NMOC emissions for Central Landfill are estimated to remain below 50 Mg through 2028. The Landfill is planning to perform the next 5 Year Recheck in May 2027. Please note, the NMOC emissions calculated for Central Landfill are estimated to exceed 34 Mg/yr in 2027. The 34 Mg/yr emissions rate threshold is now applicable to Central Landfill with the EPA's rule change effective June 21, 2021 under 40 CFR Part 62 Subpart OOO (Federal Plan Requirements for MSW Landfills that commenced construction on or before July 17, 2012 and have not been modified or reconstructed since July 17, 2014).

Status (Check one): ☐ Intermittent Compliance ☒ Continuous Compliance

Emission Unit ID(s): ***EU01 – Municipal Solid Waste Landfill provided with an active gas collection and control system with an active open flare.***

Permit Term (Describe requirements and cross-reference)

Part 70 Permit - Section IV, Table IV-1, 1.3 - Monitoring Requirements:

See Record Keeping and Reporting Requirements in Section 1.4 and 1.5.

Compliance Methods for the Above (Description and Citation):

As discussed within Sections 1.4 and 1.5 below.

Status (Check one): ☐ Intermittent Compliance ☒ Continuous Compliance

Emission Unit ID(s): ***EU01 – Municipal Solid Waste Landfill provided with an active gas collection and control system with an active open flare.***

Permit Term (Describe requirements and cross-reference)

Part 70 Permit - Section IV, Table IV-1, 1.4 - Recordkeeping Requirements:

The permittee shall keep all the records required under this permit for at least five years and shall make such records available to the Department upon request. [Reference: COMAR 26.11.03.06C]

The Permittee shall keep for at least 5 years up-to-date, readily accessible, on-site records of the design capacity report which triggered the requirements of 40 CFR 60.752(b), the current amount of solid waste in place, and the year-by-year waste acceptance rate. Off-site records may be maintained if they are retrievable within 4 hours. Either paper copy or electronic formats are acceptable. [40 CFR 60.758(a)]

Compliance Methods for the Above (Description and Citation):

Relevant records maintained by CCDPW can be made available to the Department upon request.

Status (Check one): ☐ Intermittent Compliance ☒ Continuous Compliance

Emission Unit ID(s): ***EU01 – Municipal Solid Waste Landfill provided with an active gas collection and control system with an active open flare.***

Permit Term (Describe requirements and cross-reference)

Part 70 Permit - Section IV, Table IV-1, 1.5 – Reporting Requirements:

In accordance with 40CFR 60.757(b), "each owner or operator subject to the requirements of this subpart shall submit an NMOC emission rate report to the Administrator initially and annually thereafter, except as provided for in paragraphs (b)(1)(ii) or (b)(3) of this section. The Administrator may request such additional information as may be necessary to verify the reported NMOC emission rate.

(1) The NMOC emission rate report shall contain an annual or 5-year estimate of the NMOC emission rate calculated using the formula and procedures provided in § 60.754(a) or (b), as applicable.

(i) The initial NMOC emission rate report may be combined with the initial design capacity report required in paragraph (a) of this section and shall be submitted no later than indicated in paragraphs (b)(1)(i)(A) and (B) of this section. Subsequent NMOC emission rate reports shall be submitted annually thereafter, except as provided for in paragraphs (b)(1)(ii) and (b)(3) of this section.

(A) June 10, 1996, for landfills that commenced construction, modification, or reconstruction on or after May 30, 1991, but before March 12, 1996, or (B) Ninety days after the date of commenced construction, modification, or reconstruction for landfills that commence construction, modification, or reconstruction on or after March 12, 1996.

(ii) If the estimated NMOC emission rate as reported in the annual report to the Administrator is less than 50 megagrams per year in each of the next 5 consecutive years, the owner or operator may elect to submit an estimate of the NMOC emission rate for the next 5-year period in lieu of the annual report. This estimate shall include the current amount of solid waste-in-place and the estimated waste acceptance rate for each year of the 5 years for which an NMOC emission rate is estimated. All data and calculations upon which this estimate is based shall be provided to the Administrator. This estimate shall be revised at least once every 5 years. If the actual waste acceptance rate exceeds the estimated waste acceptance rate in any year reported in the 5-year estimate, a revised 5-year estimate shall be submitted to the Administrator. The revised estimate shall cover the 5-year period beginning with the year in which the actual waste acceptance rate exceeded the estimated waste acceptance rate.

(2) The NMOC emission rate report shall include all the data, calculations, sample reports and measurements used to estimate the annual or 5-year emissions.

(3) Each owner or operator subject to the requirements of this subpart is exempted from the requirements of paragraphs (b)(1) and (2) of this section, after the installation of a collection and control system in compliance with § 60.752(b)(2), during such time as the collection and control system is in operation and in compliance with §§ 60.753 and 60.755." [40 CFR 60.757(b)]

In accordance to 40CFR 60.757(c), "each owner or operator subject to the provisions of § 60.752(b)(2)(i) shall submit a collection and control system design plan to the Administrator within 1 year of the first report required under paragraph (b) of this section in which the emission rate equals or exceeds 50 megagrams per year, except as follows:

(1) If the owner or operator elects to recalculate the NMOC emission rate after Tier 2 NMOC sampling and analysis as provided in § 60.754(a)(3) and the resulting rate is less than 50 megagrams per year, annual periodic reporting shall be resumed, using the Tier 2 determined site-specific NMOC concentration, until the calculated emission rate is equal to or greater than 50 megagrams per year or the landfill is closed. The revised NMOC emission rate report, with the recalculated emission rate based on NMOC sampling and analysis, shall be submitted within 180 days of the first calculated exceedance of 50 megagrams per year.

(2) If the owner or operator elects to recalculate the NMOC emission rate after determining a site-specific methane generation rate constant (k), as provided in Tier 3 in § 60.754(a)(4), and the resulting NMOC emission rate is less than 50 Mg/yr, annual periodic reporting shall be resumed. The resulting site-specific methane generation rate constant (k) shall be used in the emission rate calculation until such time as the emissions rate calculation results in an exceedance. The revised NMOC emission rate report based on the provisions of § 60.754(a)(4) and the resulting site-specific methane generation rate constant (k) shall be submitted to the Administrator within 1 year of the first calculated emission rate exceeding 50 megagrams per year." [40 CFR 60.757(c)]

The Permittee may, upon approval by the Department, submit a combined report to satisfy the NMOC reporting requirements and the annual Emissions Certification requirements. Such report shall be submitted by April 1 of each year for the previous calendar year. [Reference: COMAR

26.11.19.20D(7)].

Compliance Methods for the Above (Description and Citation):

CCDPW is in compliance with 40 CFR §60.757(b)(1)(ii) and (b) (2) (refer to Section IV, Table IV-1, 1.2 - Testing Requirements of this report above) and continue to comply with the aforementioned conditions until the NMOC emissions reach the 50 megagram threshold or 34 megagram threshold. When the NMOC emissions reach the threshold conditions within Section IV, Table IV-1A will also be applicable to the facility. NMOC emission estimate reports are submitted annually along with the facility's A-COMP Reports. Based on the most recent report, NMOC emissions for Central Landfill will remain below 34 Mg through 2026.

Status (Check one): ☐ Intermittent Compliance ☒ Continuous Compliance

Emission Unit ID(s): **EU02 – One (1) open flare rated at 2,000 scfm**

Permit Term (Describe requirements and cross-reference)

Part 70 Permit - Section IV, Table IV, 2.0 – EU-02
One (1) open flare rated at 2,000 scfm

Part 70 Permit - Section IV, Table IV, 2.1 – Applicable Standards/Limits:
A. Control of Visible Emissions.

[COMAR 26.11.06.02C(1)] - Visible Emission Standards. "In Areas I, II, V and VI, a person may not cause or permit the discharge of emissions from any installation or building, other than water in an uncombined form, which is greater than 20 percent opacity."

[COMAR 26.11.06.02A(2)] - Exception.

"The visible emissions standards in C of this regulation do not apply to emissions during start-up and process modification or adjustments, or occasional cleaning of control equipment, if: (a) The visible emissions are not greater than 40 percent opacity; and (b) The visible emissions do not occur for more than 6 consecutive minutes in any 60 minute period."

B. Operational Standards

"Flares shall be operated with a flame present at all times, as determined by the methods specified in §60.18(f)(2)." [Reference: 40 CFR §60.18]

(2) If the calculated NMOC emission rate is equal to or greater than 50 megagrams per year, the owner or operator shall: (iii) Route all the collected gas to a control system that complies with the requirements in either paragraph (b)(2)(iii) (A), (B) or (C) of this section.

(A) An open flare designed and operated in accordance with §60.18 except as noted in §60.754(e)" [Reference: 40 CFR Part 60.752(b)]

The Permittee shall operate and maintain the flare system in accordance with the manufacturer's recommendations. [Reference: MOE PTC No. 015-9-0163M PTC modification dated April 17, 2007]

Compliance Methods for the Above (Description and Citation):

As discussed within the Testing, Monitoring, Record Keeping and Reporting requirements below.

Status (Check one): ☐ Intermittent Compliance ☒ Continuous Compliance

Emission Unit ID(s): **EU02 – One (1) open flare rated at 2,000 scfm**

Permit Term (Describe requirements and cross-reference)

Part 70 Permit - Section IV, Table IV, 2.2 - Testing Requirements:

A. Control of Visible Emissions.

The Permittee shall follow the Monitoring procedures in Section 2.3.

B. Operational Standards

See Record Keeping and Reporting Requirements in Section 2.4 and 2.5.

Compliance Methods for the Above (Description and Citation):

As discussed within the Monitoring, Record Keeping and Reporting requirements below.

Status (Check one): ☐ Intermittent Compliance ☒ Continuous Compliance

Emission Unit ID(s): **EU02 – One (1) open flare rated at 2,000 scfm**

Permit Term (Describe requirements and cross-reference)

Part 70 Permit - Section IV, Table IV-2, 2.3 - Monitoring Requirements:

A. Control of Visible Emissions.

The Permittee shall properly operate and maintain the flare in a manner to prevent visible emissions. [Reference: CO MAR 26.11.06.06C].

B. Operational Standards

Each owner or operator seeking to comply with §60.752(b)(2)(iii) using an open flare shall install, calibrate, maintain, and operate according to the manufacturer's specifications the following equipment:

(1) A heat sensing device, such as an ultraviolet beam sensor or thermocouple, at the pilot light or the flame itself to indicate the continuous presence of a flame.

(2) A device that records flow to or bypass of the flare. The owner or operator shall either:

(i) Install, calibrate, and maintain a gas flow rate measuring device that shall record the flow to the control device at least every 15 minutes; or

(ii) Secure the bypass line valve in the closed position with a car-seal or a lock-and-key type configuration. A visual inspection of the seal or closure mechanism shall be performed at least once every month to ensure that the valve is maintained in the closed position and that the gas flow is not diverted through the bypass line. [Reference: 40 CFR Part 60.756(c)]

Compliance Methods for the Above (Description and Citation):

The landfill gas flow rate and combustion temperature is continuously monitored and recorded. The blower/flare system is monitored on a weekly basis to ensure proper operation. The open flare is in compliance conditions (1) & (2) above and maintained and operated according to the manufacturer's recommendations in a manner to prevent visible emissions.

Status (Check one): ☐ Intermittent Compliance ☒ Continuous Compliance

Emission Unit ID(s): **EU02 – One (1) open flare rated at 2,000 scfm**

Permit Term (Describe requirements and cross-reference)

Part 70 Permit - Section IV, Table IV-2, 2.4 - Recordkeeping Requirements:

A. Control of Visible Emissions

The Permittee shall maintain an operations manual and preventative maintenance plan and records of maintenance performed that relates to combustion performance. [Reference: COMAR 26.11.03.06C]

Note: All records must be maintained for a period of at least 5 years and be made available to the Department upon request. [Reference: COMAR 26.11.03.06C(5)(q)]

B. Operational Standards

The Permittee shall keep up-to-date, readily accessible records of the flame or flare pilot flame monitoring as specified under §60.756(c) for open flares and up-to-date, readily accessible records of all periods of operation in which the flame or flare pilot is absent during those instances when the utility flare is being used while it is out-of-service. [Reference: 40 CFR 60.758(b)(4) and MOE ARMA/AQPP Letter, October 2, 1995].

The Permittee shall keep up-to-date, readily accessible records of the control device vendor specifications until the control device is removed. [Reference: 40CFR 60. 758(b)]

Compliance Methods for the Above (Description and Citation):

The landfill gas flow rate and combustion temperature is continuously monitored and recorded. The flare is maintained in accordance with the manufacturer's specifications. A copy of operations manual and records of maintenance performed are maintained at the facility. The records maintained by CCDPW can be made available to the Department upon request.

Status (Check one): ☐ Intermittent Compliance ☒ Continuous Compliance

Emission Unit ID(s): **EU02 – One (1) open flare rated at 2,000 scfm**

Permit Term (Describe requirements and cross-reference)

Part 70 Permit - Section IV, Table IV-1A, 1A.5 – Reporting Requirements:

A. Control of Visible Emissions.

The Permittee shall report incidents of visible emissions in accordance with Permit Condition 4, Section III, Plant Wide Condition, "Report of Excess Emissions and Deviations."

B. Operational Standards

See Record Keeping Requirements in Section 2.4.

Compliance Methods for the Above (Description and Citation):

There were no incidents to report in this reporting period. The records maintained by CCDPW can be made available to the Department upon request.

Status (Check one): ☐ Intermittent Compliance ☒ Continuous Compliance

Emission Unit ID(s): **EU03 – Roadways and Operations**

Permit Term (Describe requirements and cross-reference)

Part 70 Permit - Section IV, Table IV-3, 3.0 – Emission Unit Number(s) – EU-03:
Roadways and operations began operating in 1982.

Part 70 Permit - Section IV, Table IV-3, 3.1 – Applicable Standards/Limits:
Control of Particulate Matter

The Permittee may not cause or permit any material to be handled, transported, or stored, or a building, its appurtenances, or a road to be used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne. [Reference: COMAR 26.11.06.03D]

Compliance Methods for the Above (Description and Citation):

As discussed within the Testing, Monitoring, Record Keeping and Reporting requirements below.

Status (Check one): ☐ Intermittent Compliance ☒ Continuous Compliance

Emission Unit ID(s): **EU03 – Roadways and Operations**

Permit Term (Describe requirements and cross-reference)

Part 70 Permit - Section IV, Table IV-3, 3.2 – Testing Requirements:
Control of Particulate Matter

The Permittee shall follow the Monitoring procedures in Section 3.3.

Compliance Methods for the Above (Description and Citation):

As discussed within the Testing, Monitoring, Record Keeping and Reporting requirements below.

Status (Check one): ☐ Intermittent Compliance ☒ Continuous Compliance

Emission Unit ID(s): **EU03 – Roadways and Operations**

Permit Term (Describe requirements and cross-reference)

Part 70 Permit - Section IV, Table IV-3, 3.3 – Monitoring Requirements:
Control of Particulate Matter

The Permittee shall prepare and update, as needed a best management practices plan that describes the procedures and methods that will be used to take reasonable precautions.

The Permittee shall perform an inspection at minimum once a month to verify that best management practices are being implemented and that the precautions are sufficient to control particulate matter emissions. [Reference: COMAR 26.11.06.06]

Compliance Methods for the Above (Description and Citation):

The permittee has been in compliance with the condition above.

Status (Check one): ☐ Intermittent Compliance ☒ Continuous Compliance

Emission Unit ID(s): **EU03 – Roadways and Operations**

Permit Term (Describe requirements and cross-reference)

Part 70 Permit - Section IV, Table IV-3, 3.4 – Recordkeeping Requirements:

Control of Particulate Matter

The Permittee shall maintain the plan and records of the dates and results of inspections for at least five (5) years and make them available to the Department upon request. [Reference: COMAR 26.11.03.06C]

Compliance Methods for the Above (Description and Citation):

The records maintained by CCDPW can be made available to the Department upon request.

Status (Check one): ☐ Intermittent Compliance ☒ Continuous Compliance

Emission Unit ID(s): **EU03 – Roadways and Operations**

Permit Term (Describe requirements and cross-reference)

Part 70 Permit - Section IV, Table IV-3, 3.5 – Reporting Requirements:

Control of Particulate Matter

The Permittee shall report incidents of visible emissions in accordance with Permit Condition 4, Section III, "Report of Excess Emissions and Deviations."

Compliance Methods for the Above (Description and Citation):

There are no incidents to report for this reporting period.

Status (Check one): ☐ Intermittent Compliance ☒ Continuous Compliance

Emission Unit ID(s): **EU-04 & EU-05– Tub Grinder (860 HP & 630 HP)**

Permit Term (Describe requirements and cross-reference)

Part 70 Permit - Section IV, Table IV-4, 4.0 – Emission Unit Number(s) – EU-04 and EU-05 Tub Grinders:
One (1) tub grinder (Morbark) powered by a 860 HP diesel internal combustion engine. [MDE Registration No. 6-0252]

One (1) horizontal grinder (Vermeer) powered by a 630 HP diesel internal combustion engine. [MDE Registration No. 9-0176]

Part 70 Permit - Section IV, Table IV-4, 4.1 – Applicable Standards/Limits:

A. Control of Visible Emissions.

(1) COMAR 26.11.06.02C(1)-Visible Emission Standards.

"In Areas I, II, V, and VI a person may not cause or permit the discharge of emissions from any installation or building, other than water in an uncombined form, which is greater than 20 percent opacity."

COMAR 26.11.06.02A(2) - General Exceptions.

"The emission standards in § C of this regulation do not apply to emissions during start-up and process modifications or adjustments, or occasional cleaning of control equipment, if:

(a) The visible emissions are not greater than 40 percent opacity; and

(b) The visible emissions do not occur for more than 6 consecutive minutes in any 60 minutes period."

FOR ENGINES ONLY

(2) Visible Emissions Limits for Stationary Internal Combustion Engine Powered Equipment [COMAR 26.11.09.05E].

(1) "Emissions During Idle Mode. A person may not cause or permit the discharge of emissions from any engine, operating at idle, greater than 10 percent opacity.

(2) Emissions During Operating Mode. A person may not cause or permit the discharge of emissions from any engine, operating at other than idle conditions, greater than 40 percent opacity.

(3) Exceptions.

(a) Section B(2) does not apply for a period of 2 consecutive minutes after a period of idling of 15 consecutive minutes for the purpose of clearing the exhaust system.

(b) Section B(2) does not apply to emissions resulting directly from cold engine start-up and warm-up for the following maximum periods:

(i) Engines that are idled continuously when not in service: 30 minutes;

(ii) All other engines: 15 minutes.

(c) Section B(2) and (3) does not apply while maintenance, repair, or testing is being performed by qualified mechanics." [Reference: COMAR 26.11.09.058]

FOR ENGINES ONLY

B. Control of Sulfur Oxides from Fuel Burning Equipment.

"A person may not burn, sell, or make available for sale any fuel with a sulfur content by weight in excess of or which otherwise exceeds the following limitations:

(c) Distillate fuel oils, 0.3 percent;" [Reference: COMAR 26.11.09.05B].

C. Operational Limit

(a) The Permittee shall only burn diesel fuel in the engines serving both tub and horizontal grinders unless the Permittee applies for and receives an approval or permit form the Department to burn an alternative fuel. [Reference: MDE PTC No. 015-0163-9-0176 issued on March 20, 2008, and MDE PTC No. 015-0163-6- 0252 issued on May 20, 2005].

(b) The engine shall be a nonroad engine, as defined in 40 CFR §1068.30, unless the Permittee complies with the stationary engine requirements of 40 CFR 60, Subpart III or Subpart JJJJ and 40 CFR 63, Subpart ZZZZ, as applicable, for the engine.

For the 630 HP horizontal grinder

(b) The engine, which powers the horizontal grinder, shall operate no more than 728 hours for any 12-month rolling period. [Reference: MDE PTC No. 015-0163-9-0176 issued on March 20, 2008].

For the 860 HP tub grinder

(c) The engine, which powers the tub grinder, shall operate no more than 1440 hours for any 12-month rolling period. [Reference: MDE PTC No. 015-0163-6-0252 issued on May 20, 2005].

Compliance Methods for the Above (Description and Citation):

As discussed below within the Testing, Monitoring, Record Keeping and Reporting requirements below. Additionally, the 630 HP horizontal grinder and the 860 HP tub grinder operated for 146 and 130 hours, respectively in 2022. Additionally, the engines associated with the grinders (EU-04 & EU-05) are nonroad engines, as defined in 40 CFR §1068.30, therefore they are not subject to the stationary engine requirements of 40 CFR 60, Subpart III or Subpart JJJJ and 40 CFR 63, Subpart ZZZZ.

Status (Check one): ☐ Intermittent Compliance ☒ Continuous Compliance

Emission Unit ID(s): ***EU-04 & EU-05– Tub Grinder (860 HP & 630 HP)***

Permit Term (Describe requirements and cross-reference)

Part 70 Permit - Section IV, Table IV-4, 4.2 – Testing Requirements:

A. Control of Visible Emissions.

(1) Visible Emissions Standards.

See Record Keeping and Reporting Requirements in Section 4.3 and 4.4.

FOR ENGINES ONLY

(2) Visible Emissions Limits for Stationary Internal Combustion Engine Powered Equipment

See Record Keeping and Reporting Requirements in Section 4.3 and 4.4.

B. Control of Sulfur Oxides from Fuel Burning Equipment

See Record Keeping and Reporting Requirements in Section 4.3 and 4.4.

C. Operational Limit

See Record Keeping and Reporting Requirements in Section 4.3 and 4.4.

Compliance Methods for the Above (Description and Citation):

As discussed within Sections 4.3 and 4.4 below.

Status (Check one): ☐ Intermittent Compliance ☒ Continuous Compliance

Emission Unit ID(s): ***EU-04 & EU-05– Tub Grinder (860 HP & 630 HP)***

Permit Term (Describe requirements and cross-reference)

Part 70 Permit - Section IV, Table IV-4, 4.3 – Monitoring Requirements:

A. Control of Visible Emissions.

(1) Visible Emissions Standards.

The Permittee shall properly operate and maintain the tub and horizontal grinders in a manner to minimize visible emissions.[Reference: COMAR 26.11.03.06C]

Compliance Methods for the Above (Description and Citation):

The tub and horizontal grinders are operated and maintained in accordance with manufacturer's recommendations to minimize visible emissions.

Status (Check one): ☐ Intermittent Compliance ☒ Continuous Compliance

Emission Unit ID(s): ***EU-04 & EU-05– Tub Grinder (860 HP & 630 HP)***

Permit Term (Describe requirements and cross-reference)

Part 70 Permit - Section IV, Table IV-4, 4.3 – Monitoring Requirements:

A. Control of Visible Emissions

(1) Visible Emissions Standards

The Permittee shall properly operate and maintain the tub and horizontal grinders in a manner to minimize visible emissions. [Reference: COMAR 26.11.03.06C]

FOR ENGINES ONLY

(2) Visible Emissions Limits for Stationary Internal Combustion Engine Powered Equipment

The Permittee shall properly operate and maintain engines in a manner to minimize visible emissions. [Reference: COMAR 26.11.03.06C]

Compliance Methods for the Above (Description and Citation):

The tub and horizontal grinders are operated and maintained in accordance with manufacturer's recommendations to minimize visible emissions.

Status (Check one): ☐ Intermittent Compliance ☒ Continuous Compliance

Emission Unit ID(s): **EU-04 & EU-05– Tub Grinder (860 HP & 630 HP)**

Permit Term (Describe requirements and cross-reference)

Part 70 Permit - Section IV, Table IV-4, 4.3 – Monitoring Requirements:

B. Control of Sulfur Oxides Emissions.

The Permittee shall obtain a certification form the fuel supplier indicating that the fuel oil complies with the limitation on sulfur content of the fuel oil. [Reference: COMAR 26.11.03.06C].

C. Operational Limit

The Permittee shall properly monitor the operating hours for each of the engines powering the horizontal grinders.

Compliance Methods for the Above (Description and Citation):

Relevant records maintained by CCDPW can be made available to the Department upon request.

Status (Check one): ☐ Intermittent Compliance ☒ Continuous Compliance

Emission Unit ID(s): **EU-04 & EU-05– Tub Grinder (860 HP & 630 HP)**

Permit Term (Describe requirements and cross-reference)

Part 70 Permit - Section IV, Table IV-4, 4.4 – Recordkeeping Requirements:

A. Control of Visible Emissions.

(1) Visible Emissions Standards.

The Permittee shall retain records of preventive maintenance on site for at least five years and make these records available to the Department upon request. [Reference: COMAR 26.11.03.06C]

FOR ENGINES ONLY

(2) Visible Emissions Limits for Stationary Internal Combustion Engine Powered Equipment

The Permittee shall retain records of preventive maintenance on site for at least five years and make these records available to the Department upon request. [Reference: COMAR 26.11.03.06C]

FOR ENGINES ONLY

B. Control of Sulfur Oxides Emissions

The Permittee shall retain annual fuel supplier certifications stating that the fuel oil is in compliance with this regulation must be maintained for at least five years. [Reference: COMAR 26.11.09.07C]

C. Operational Limit

The Permittee shall maintain for at least five (5) years, and shall make available to the Department upon request, records of the following information:

(a) Operating hours for the engine that drives the horizontal grinders.

(b) The Permittee shall report the amount of fuel oil combusted and engine operating hours as part of the annual emission certification.

Compliance Methods for the Above (Description and Citation):

Relevant records are maintained by CCDPW and can be made available to the Department upon request. The engine operating hours and amount of fuel combusted is reported within the Annual Emission Certification Report.

Status (Check one): ☐ Intermittent Compliance ☒ Continuous Compliance

Emission Unit ID(s): **EU-04 & EU-05– Tub Grinder (860 HP & 630 HP)**

Permit Term (Describe requirements and cross-reference)

Part 70 Permit - Section IV, Table IV-4, 4.5 – Reporting Requirements:

A. Control of Visible Emissions.

(1) Visible Emissions Standards.

The Permittee shall retain report incidents of visible emissions in accordance with Permit Condition 4, Section III, Plant Wide Condition, "Report of Excess Emission and Deviations."

FOR ENGINES ONLY

(2) Visible Emissions Limits for Stationary Internal Combustion Engine Powered Equipment

The Permittee shall retain report incidents of visible emissions in accordance with Permit Condition 4, Section III, Plant Wide Condition, "Report of Excess Emission and Deviations."

Compliance Methods for the Above (Description and Citation):

There are no incidents to report for this reporting period.

Status (Check one): ☐ Intermittent Compliance ☒ Continuous Compliance

Emission Unit ID(s): **EU-04 & EU-05– Tub Grinder (860 HP & 630 HP)**

Permit Term (Describe requirements and cross-reference)

Part 70 Permit - Section IV, Table IV-4, 4.5 – Reporting Requirements:

B. Control of Sulfur Oxides from Fuel Burning Equipment.

The Permittee shall report annual fuel supplier certification to the Department upon request. [Reference: COMAR 26.11.09.07C]

Compliance Methods for the Above (Description and Citation):

Relevant records are maintained by CCDPW and can be made available to the Department upon request.

Status (Check one): ☐ Intermittent Compliance ☒ Continuous Compliance

Emission Unit ID(s): **EU-04 & EU-05– Tub Grinder (860 HP & 630 HP)**

Permit Term (Describe requirements and cross-reference)

Part 70 Permit - Section IV, Table IV-4, 4.5 – Reporting Requirements:

C. Operational Limit

The Permittee shall report amount of fuel oil combusted and engine operating hours as part of the annual emission certification. [Reference: COMAR 26.11.09.08G(e)]

Compliance Methods for the Above (Description and Citation):

Relevant records are maintained by CCDPW and can be made available to the Department upon request. The amount of fuel combusted and engine operating hours are reported within the Annual Emission Certification Report.

Status (Check one): ☐ Intermittent Compliance ☒ Continuous Compliance

Emission Unit ID(s): *Insignificant Activities (Trommel Screen; Space Heaters for Maintenance Shop/Break Room & Heavy Equipment Shop; and 500 BHP Emergency Generator)*

Permit Term (Describe requirements and cross-reference)

Part 70 Permit - Section V, Insignificant Activities:

This section provides a list of insignificant emissions units that were reported in the Title V permit application. The applicable Clean Air Act requirements, if any, are listed below the insignificant activity.

(1) No. 3 Fuel burning equipment using gaseous fuels or no. 1 or no. 2 fuel oil, and having a heat input less than 1,000,000 Btu (1.06 gigajoules) per hour;

The three (3) Fuel burning units are subject to the following requirements: one (1) Trommel screen; and two (2) space heaters one serving the maintenance shop/ break room, and the other serving the heavy equipment shop.

[COMAR 26.11.09.05A(1)] - Fuel Burning Equipment.

"In Areas I, II, V, and VI, a person may not cause or permit the discharge of emissions from any fuel burning equipment, other than water in an uncombined form, which is greater than 20 percent opacity.

[COMAR 26.11.09.05A(3)] - Exceptions.

"Section A(1) and (2) of this regulation do not apply to emissions during load changing, soot blowing, startup, or adjustments or occasional cleaning of control equipment if:

(a) The visible emissions are not greater than 40 percent opacity; and

(b) The visible emissions do not occur for more than 6 consecutive minutes in any sixty minute period."

(2) No. 1 Stationary internal combustion engines with an output less than 500 brake horsepower (373 kilowatts) and which are not used to generate electricity for sale or for peak or load shaving;

The one (1) internal combustion engine are subject to the following requirements: one (1) 150 kW Onan Generator with a Cummins engine (Model NT855G4);

[COMAR 26.11.09.05E(2)] - Stationary Internal Combustion Engine Powered Equipment.

"(2) Emissions During Idle Mode. A person may not cause or permit the discharge of emissions from any engine, operating at idle, greater than 10 percent opacity."

"(3) Emissions During Operating Mode. A person may not cause or permit the discharge of emissions from any engine, operating at other than idle conditions, greater than 40 percent opacity."

"(4) Exceptions.

(a) Section E(2) of this regulation does not apply for a period of 2 consecutive minutes after a period of idling of 15 consecutive minutes for the purpose of clearing the exhaust system.

(b) Section E(2) of this regulation does not apply to emissions resulting directly from cold engine start-up and warm-up for the following maximum periods:

(i) Engines that are idled continuously when not in service: 30 minutes;

(ii) All other engines: 15 minutes.

(c) Section E(2) and (3) of this regulation do not apply while maintenance, repair, or testing is being performed by qualified mechanics."

THESE REQUIREMENTS APPLY TO THE FOLLOWING UNITS:

one (1) 150 kW Onan Generator with a Cummins engine (Model NT855G4).

National Emission Standards for Hazardous Air Pollutants**40 CFR, Subpart 63 - Emergency Stationary CI Reciprocating Internal Combustion Engines.**

1. The Permittee shall comply with the following requirement, except during periods of startup (Table 2 d to Subpart ZZZZ of Part 63-Requirements for Existing Stationary RICE Located at Area Sources of HAP Emissions):

(a) Change the oil and filter every 500 hours of operation or annually, whichever comes first;

(b) Inspect the air cleaner every 1,000 hours of operation or annually, whichever comes first; and replace as necessary; and

(c) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. [Reference: 40 CFR §63.6603(a), §63.6625(h), and Table 2d to 40 CFR 63, Subpart ZZZZ]

2. The Permittee must operate and maintain the engine according to the manufacturer's emission-related written instructions or the Permittee must develop their own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. [Reference: 40 CFR §63.6625(e), §63.6640(a), and Table 6 to 40 CFR 63, Subpart ZZZZ]

3. The Permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Table 2d of 40 CFR 63, Subpart ZZZZ. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2d. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5.

If all of these condemning limits are not exceeded, the Permittee is not required to change the oil. If any of the limits are exceeded, the Permittee must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the Permittee must change the oil within 2 business days or before commencing operation, whichever is later. The Permittee must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine. [Reference: 40 CFR §63.6625(i)]

Compliance Methods for the Above (Description and Citation):

The facility is in compliance with the conditions above. CCDPW employs conditions 1(b), 1(c) and 3 above to comply with Subpart ZZZZ requirements. Relevant records are maintained by CCDPW and can be made available to the Department upon request.

Status (Check one): ☐ Intermittent Compliance ☒ Continuous Compliance

C. DEVIATIONS FROM PERMIT TERMS AND CONDITIONS

Report all deviations from permit terms (whether reported previously or not) that occurred during the permit term. Cross-reference deviations already reported in the six-month report. Indicate whether each deviation is a "possible exception to compliance." Start and end period of each deviation should be in mo/day/yr, hr:min format (24-hour clock). Also, specify the date when the written deviation report was submitted (If written report required, but not submitted, leave the date field blank).

Permit Term for Which There was a Deviation: **None.**

Emission Units (unit IDs):

Deviation Start ____/____/____ ____:____ End:____/____/____ ____:____

Date Written Report Submitted ____/____/____

Permit Term for Which There was a Deviation: **None.**

Emission Units (unit IDs):

Deviation Start ____/____/____ ____:____ End:____/____/____ ____:____

Date Written Report Submitted ____/____/____

Permit Term for Which There was a Deviation: **None.**

Emission Units (unit IDs):

Deviation Start ____/____/____ ____:____ End:____/____/____ ____:____

Date Written Report Submitted ____/____/____

Permit Term for Which There was a Deviation: **None.**

Emission Units (unit IDs):

Deviation Start ____/____/____ ____:____ End:____/____/____ ____:____

Date Written Report Submitted ____/____/____

INSTRUCTIONS FOR A-COMP ANNUAL COMPLIANCE CERTIFICATION

Information Collection Burden Estimates

The public reporting and recordkeeping burden for this collection of information is estimated to average 247 hours per respondent per year. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.

DETAILED INSTRUCTIONS

Submit this form along with a certification of truth, accuracy and completeness by a responsible official on an annual basis.

Section A (General Information)

Name and address should be consistent with information provided previously. The contact person should be a person familiar with the day-to-day operation of the facility, such as a plant site manager or other individual, who should be available to be contacted by the permitting authority. If there is more than one contact person, list the others on an attachment.

The reporting period must be at least every 12 months, but your permit may require this more frequently.

Section B (Compliance Status)

Description of Permit Term: Include each permit terms that imposes a requirement or action (emission limitations, standards, monitoring, recordkeeping, reporting, and other requirements on one or more emission units or on the facility. You will likely have to complete this section numerous times to include all requirements in the permit.

The emissions unit ID(s) should be those defined in the permit or in section I of form GIS. If the requirements, including compliance methods, apply in the same way to multiple emission units, you may list multiple units for a particular requirement. Emission units and requirements may be grouped if they apply the same way at all units in the group, the same compliance methods apply to all, and all units have the same compliance status.

Citations to the requirements should unambiguously identify the permit term to the lowest level.

Compliance Methods: List all compliance methods (monitoring, recordkeeping and reporting) you used to determine compliance with the permit term described above. Also, describe and cross-reference these compliance methods.

To describe monitoring, indicate the monitoring device, what is being monitored, averaging time, frequency, and cross-reference the permit term. To describe recordkeeping, describe the records kept, collection frequency, and cross-reference the permit term. Please indicate if monitoring data results or compliance records are kept on-site rather than reported. To describe reporting requirements, describe what is reported, when it is reported, and cross-reference the permit term.

The citation or cross-reference here must unambiguously identify the requirement to the lowest level.

Compliance Status: For each permit requirement and its associated compliance methods, indicate whether there was intermittent or continuous compliance (check one) during the reporting period. You should consider all available information or knowledge that you have when evaluating this, including compliance methods required by the permit and “credible evidence” (e.g., non-reference test methods and information “readily available” to you). You are always free to include written explanations and other information to clarify your conclusion regarding compliance status.

You must include permit terms that were not effective or not applicable (e.g., future-effective requirements, compliance options, and alternative scenarios). You may certify to continuous compliance for these if there is no evidence of noncompliance.

Absent evidence to the contrary, you may certify continuous compliance based on the data provided by the compliance methods, provided you did not fail to perform them and there were no unexcused deviations. Any failure to meet any permit term for any period of time indicates intermittent compliance. You may also indicate “undetermined compliance,” if you include the reason.

Section C (Deviations From Permit Terms and Conditions)

Summarize all deviations from permit terms that occurred since the last compliance certification. They may have been reported previously in-writing or they may be reported concurrently with this certification. Also include any deviations but have not yet been reported in writing.

Copy this page as many times as necessary to include all deviations that occurred during the reporting period for this compliance certification.

Deviations occur when any permit term is not met, including emission limitations, standards, monitoring, recordkeeping, reporting and other requirements. For a more detailed explanation of the term “deviation.” See the instructions for Form **SIXMON**. A deviation is not necessarily a violation. Violations are determined by EPA (or its delegate Agency).

You may cross-reference deviations previously reported (e.g., in 6-month monitoring reports).

You must indicate whether each deviation is a “possible exception to compliance.” This is a deviation that occurs when compliance is required. A deviation that is not a “possible exception to compliance” is one that occurs when compliance is not required or it is excused by another permit term. If you indicate that a deviation is not a possible exception to compliance, briefly explain and cross-reference the permit term that allows or excuses it. In addition, deviations for which the permit provides an affirmative defense (e.g., emergencies) must be identified as “possible exception to compliance” because only the permitting authority may determine if the affirmative defense applies.

If the cross-reference a deviation report that does not contain all the information requested here, you must supplement it accordingly.

You may list multiple emission units if they all had the same deviation during the same time periods. In addition, for deviations that impose requirements to the permitted facility as a whole or to all units at your facility, you may enter facility-wide in the emissions unit column.

You may indicate continuous periods of deviation that span multiple days in a single entry. Use the 24-hour clock (equivalent to military time) for reporting these times (e.g., the day starts and ends at midnight, 12 a.m., or 00:00 in military time).

Specify the date when the written deviation report was submitted to the permitting authority. Leave the date field blank if you did not submit a written deviation report during the reporting period covered by the

six-month monitoring report (whether required to do so or not). It is a deviation to fail to submit a required deviation report.

Form CTAC (Certification of Truth, Accuracy, and Completeness by Responsible Official)

You must complete form **CTAC** and attach it to this annual compliance certification.

ATTACHMENT 1

CERTIFICATION OF PLANT-WIDE CONDITIONS

**CERTIFICATION OF PLANT-WIDE CONDITIONS
(SECTION III OF PART 70 OPERATING PERMIT)**

CECIL COUNTY CENTRAL LANDFILL
Title V – Part 70 Operating Permit # 24-015-00163

Indicate compliance with the following requirements of Section III of your Part 70 Operating Permit in the space provided below:

1. Particulate Matter from Construction and Demolition

Reasonable precautions are taken to minimize particulate matter emissions, including the regular operation of a water truck.

2. Open Burning

There were no open burning events at the Facility during the reporting period.

3. Air Pollution Episode (N/A)

The Department did not request a written standby emissions reduction plan during the reporting period.

4. Report of Excess Emissions and Deviations

(All deviations from permit requirements should be clearly identified in quarterly monitoring reports.)

There were no occurrences of Excess Emissions or Deviations during the reporting period.

5. Accidental Release Provisions (if applicable)

40 CFR Part 68 was not applicable to the Facility during the reporting period.

6. General Testing Requirements

The Facility was not required to perform compliance testing during the reporting period.

7. Emissions Test Methods

Compliance testing was not required during the reporting period.

8. Emission Certification Report

The Annual Emissions Certification for the calendar year 2023 was submitted to the Department on April 1, 2024 and a copy of the report is being maintained at the facility.

9. Compliance Certification Report

The Annual Compliance Certification (Form A-COMP and Certification of Plant-wide Conditions) for the calendar year 2023 will be submitted to the Department and EPA Region III by a responsible official on April 1, 2024 and backup documentation will be maintained at the Facility.

10. Certification by Responsible Official

All Submittals to the Department during and for the reporting period were certified by a responsible official as to the truth, accuracy and completeness.

11. Sampling and Emissions Testing Record Keeping

Compliance testing was not required during the reporting period.

12. General Record Keeping

All of the required records are currently maintained at the Facility for at least five (5) years.

13. General Conformity (N/A except for federal facilities)

The Cecil County Central Landfill is not a federal facility so the General Conformity requirements of 40 CFR Part 93 are not applicable.

14. Asbestos Provisions (if applicable)

The Asbestos provisions were not applicable to the Facility during the reporting period.

15. Ozone Depleting Regulations (if applicable)

The Cecil County Central Landfill is not subject to the requirements of 40 CFR Part 82, Subpart F.

16. Acid Rain Permit (if applicable)

The Cecil County Central Landfill does not have an Acid Rain Permit.

ATTACHMENT 2

TIER 2 NMOC EMISSION ESTIMATES REPORT

CECIL COUNTY DEPARTMENT OF PUBLIC WORKS
CENTRAL LANDFILL

NMOC EMISSION RATE REPORT

NOTE: THIS NMOC EMISSION RATE REPORT IS BEING PROVIDED IN ACCORDANCE WITH THE REPORTING REQUIREMENT 40 CFR 62.16724(C). THE NMOC REPORT HAS BEEN PREPARED USING THE RESULTS OF THE RECENT 5-YEAR RETEST TO DETERMINE THE TIER 2 SITE SPECIFIC NMOC CONCENTRATION CONDUCTED MAY 17, 2022. THE 5 YEAR RETEST FOR TIER 2 WAS CONDUCTED IN COMPLIANCE WITH THE PART 70 PERMIT NO. 24-015-00163

CALCULATION WORKSHEET

Proj No: 23-CCDPW-137 Sheet 1 of 1 By: KEF Date: 03/2024
Calc Title: NMOC Emission Rate Estimate Ch: MDH Date: 03/2024

OBJECTIVE

Estimate the non-methane organic compounds (NMOC) emission rate for the Central Landfill for Calendar Year 2023 and estimate the next 5-year period.

METHOD & CONDITIONS

The NMOC emission rates for Central Landfill were estimated using the EPA's LandGEM Model (Ver 3.03). The parameters used for the Model are as follows.

- **Waste Acceptance Rate:**
Waste acceptance records for 1978 through 1998 were not available or not accurate. However, the Central Landfill since its opening in 1978 has accepted waste exclusively from Cecil County. As a result, based on the guidance provided in Mandatory Greenhouse Gas Reporting Rule 40 CFR §98, Subpart HH the population of Cecil County in conjunction with Equation HH-2 was used to estimate the disposal rate for the period of 1978 through 1998.

The disposal rates for 1999 through 2023 are based on enclosed scale house records. Additionally, waste composition records and records showing the type of waste disposed within the landfill were also available for 1999 through 2023. As a result, for those years only the waste disposed within the landfill was used within the calculations. Information regarding the putrescible and non-putrescible portion of waste deposited into the landfill was available. As such, for the years 2019 through 2023 only the putrescible portion of waste accepted was used for modeling.

For the purposes of these calculations and a conservative estimate, the future waste acceptance rate for 2024 through 2028 was assumed to increase 2% incrementally each year.
- **Potential Methane Generation Capacity (L_0):**
Potential Methane Generation Capacity (L_0) was based on the Clean Air Act (CAA) default value of 170 m³/Mg provided in the Model.
- **Methane Generation Rate (k):**
Methane Generation Rate (k) based on the CAA default value of 0.05 year⁻¹ provided in the Model.
- **NMOC Concentration:**
NMOC concentration of 355.0 ppmv as Hexane was based on Tier 2 test report dated May 2022.

CALCULATION

According to the enclosed LandGEM Model results, the 2023 through 2028 NMOC emission rates for the Central Landfill are as follows:

Year	NMOC Emission Rates (Mg/year)
2023	32.53
2024	32.94
2025	33.36
2026	33.81
2027	34.28
2028	34.77

End Calculation

Table 1: Summary of Tier 2 NMOC Analytical Results

			Method 25 C Results		Method 3C Results			
Test Date	Sample ID	Test Time	TMNOC (ppmv-C)	TMNOC (ppmv-Hexane)	CH4% volume	CO2% Volume	O2% volume	N2% volume
05/17/2022	30634	11:47 - 12:17	2560	426.7	40.8	25.6	2.66	15.1
	36957	11:00 - 11:30	2390	398.3	40.4	27.3	2.51	15.2
	38755	9:27 - 9:57	1700	283.3	43.6	31.4	1.92	14.1
	36448	10:15 - 10:45	1870	311.7	43.2	30.3	1.86	13.6
Overall Average			2130	355.0	42.0	28.7	2.2	14.5



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Certificate of Analysis

Final Report

Laboratory Order ID 22E1025

Client Name: BAI Group
366 Walker Drivem Suite 300

Date Received: May 18, 2022 10:06
Date Issued: May 31, 2022 14:22

State College, PA 16801

Submitted To: Laura Vallett

Project Number: 21-CCDPW-130

Client Site I.D.: Cecil Co. Central Landfill

Purchase Order: 21-CCDPW-130

ANALYTICAL RESULTS

Project Location:

Sample Description/Location:

Initial Vacuum(in Hg): 30

Field Sample #: 30634

Sub Description/Location:

Final Vacuum(in Hg): 25.8

Sample ID: 22E1025-01

Canister ID: 063-00135: 30634

Receipt Vacuum(in Hg): 25.8

Sample Matrix: Air

Canister Size: 6

Flow Controller Type: Passive

Sampled: 5/17/2022 12:17

Flow Controller ID: RMA-13-SSV

Sample Type: LV

Volatile Organic Compounds by GC/FID

Analyte	ppmv-C			Flag/Qual	EPA Method 25C			Dilution	PF	Date/Time Analyzed	Analyst
	Results	MDL	LOQ		Results	MDL	LOQ				
TNMOC as Carbon (Mean), N2 corrected	2560	272	272		426.7	45.3	45.3	8	1	5/25/22 12:28	DFH
TNMOC as Carbon (1), N2 corrected	2570	272	272		428.3	45.3	45.3	8	1	5/25/22 12:28	DFH
TNMOC as Carbon (2), N2 corrected	2590	272	272		431.7	45.3	45.3	8	1	5/25/22 12:28	DFH
TNMOC as Carbon (3), N2 corrected	2520	272	272		420.0	45.3	45.3	8	1	5/25/22 12:28	DFH
TNMOC as Carbon (Mean), O2 corrected	2360	272	272		393.3	45.3	45.3	8	1	5/25/22 12:28	DFH
TNMOC as Carbon (1), O2 corrected	2370	272	272		395.0	45.3	45.3	8	1	5/25/22 12:28	DFH
TNMOC as Carbon (2), O2 corrected	2390	272	272		398.3	45.3	45.3	8	1	5/25/22 12:28	DFH
TNMOC as Carbon (3), O2 corrected	2330	272	272		388.3	45.3	45.3	8	1	5/25/22 12:28	DFH

Volatile Organic Compounds by GC/TCD - Unadjusted, as received basis EPA 3C

Analyte	Vol%			Flag/Qual	Dilution	PF	Date/Time Analyzed	Analyst
	Result	MDL	LOQ					
Methane, as received	40.8	0.45	0.45		9	1	5/26/22 9:08	DFH
Carbon dioxide, as received	25.6	0.45	0.45		9	1	5/26/22 9:08	DFH
Oxygen (O2), as received	2.66	0.45	0.45		9	1	5/26/22 9:08	DFH
Hydrogen (H2), as received	ND	0.18	0.18		9	1	5/26/22 9:08	DFH
Nitrogen (N2), as received	15.1	0.45	0.45		9	1	5/26/22 9:08	DFH
Carbon Monoxide, as received	ND	0.009	0.009		9	1	5/26/22 9:08	DFH



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Date Received: May 18, 2022 10:06
Date Issued: May 31, 2022 14:22

State College, PA 16801

Submitted To: Laura Vallett

Project Number: 21-CCDPW-130

Client Site I.D.: Cecil Co. Central Landfill

Purchase Order: 21-CCDPW-130

ANALYTICAL RESULTS

Project Location:

Sample Description/Location:

Initial Vacuum(in Hg): 30

Field Sample #: 36957

Sub Description/Location:

Final Vacuum(in Hg): 24.2

Sample ID: 22E1025-02

Canister ID: 063-00134: 30634

Receipt Vacuum(in Hg): 24.2

Sample Matrix: Air

Canister Size: 6

Flow Controller Type: Passive

Sampled: 5/17/2022 11:30

Flow Controller ID: RMA-13-SSV

Sample Type: LV

Volatile Organic Compounds by GC/FID

Analyte	ppmv-C			Flag/Qual	EPA Method 25C			Dilution	PF	Date/Time Analyzed	Analyst
	Results	MDL	LOQ		Results	MDL	LOQ				
TNMOC as Carbon (Mean), N2 corrected	2390	204	204		398.3	34.0	34.0	6	1	5/25/22 17:01	DFH
TNMOC as Carbon (1), N2 corrected	2340	204	204		390.0	34.0	34.0	6	1	5/25/22 17:01	DFH
TNMOC as Carbon (2), N2 corrected	2430	204	204		405.0	34.0	34.0	6	1	5/25/22 17:01	DFH
TNMOC as Carbon (3), N2 corrected	2390	204	204		398.3	34.0	34.0	6	1	5/25/22 17:01	DFH
TNMOC as Carbon (Mean), O2 corrected	2180	204	204		363.3	34.0	34.0	6	1	5/25/22 17:01	DFH
TNMOC as Carbon (1), O2 corrected	2140	204	204		356.7	34.0	34.0	6	1	5/25/22 17:01	DFH
TNMOC as Carbon (2), O2 corrected	2220	204	204		370.0	34.0	34.0	6	1	5/25/22 17:01	DFH
TNMOC as Carbon (3), O2 corrected	2190	204	204		365.0	34.0	34.0	6	1	5/25/22 17:01	DFH

Volatile Organic Compounds by GC/TCD - Unadjusted, as received basis EPA 3C

Analyte	Vol%			Flag/Qual	Dilution	PF	Date/Time Analyzed	Analyst
	Result	MDL	LOQ					
Methane, as received	40.4	0.45	0.45		9	1	5/26/22 10:10	DFH
Carbon dioxide, as received	27.3	0.45	0.45		9	1	5/26/22 10:10	DFH
Oxygen (O2), as received	2.51	0.45	0.45		9	1	5/26/22 10:10	DFH
Hydrogen (H2), as received	ND	0.18	0.18		9	1	5/26/22 10:10	DFH
Nitrogen (N2), as received	15.2	0.45	0.45		9	1	5/26/22 10:10	DFH
Carbon Monoxide, as received	ND	0.009	0.009		9	1	5/26/22 10:10	DFH



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Laboratory Order ID 22E1025

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Date Received: May 18, 2022 10:06
Date Issued: May 31, 2022 14:22

State College, PA 16801

Submitted To: Laura Vallett

Project Number: 21-CCDPW-130

Client Site I.D.: Cecil Co. Central Landfill

Purchase Order: 21-CCDPW-130

ANALYTICAL RESULTS

Project Location:

Sample Description/Location:

Initial Vacuum(in Hg): 30

Field Sample #: 38755

Sub Description/Location:

Final Vacuum(in Hg): 13.8

Sample ID: 22E1025-03

Canister ID: 063-00144: 38755

Receipt Vacuum(in Hg): 13.8

Sample Matrix: Air

Canister Size: 6

Flow Controller Type: Passive

Sampled: 5/17/2022 09:57

Flow Controller ID: RMA-13-SSV

Sample Type: LV

Volatile Organic Compounds by GC/FID

Analyte	ppmv-C			Flag/Qual	EPA Method 25C			Dilution	PF	Date/Time Analyzed	Analyst
	Results	MDL	LOQ		Results	MDL	LOQ				
TNMOC as Carbon (Mean), N2 corrected	1700	85.0	85.0		283.3	14.2	14.2	2.5	1	5/26/22 12:06	DFH
TNMOC as Carbon (1), N2 corrected	1650	85.0	85.0		275.0	14.2	14.2	2.5	1	5/26/22 12:06	DFH
TNMOC as Carbon (2), N2 corrected	1770	85.0	85.0		295.0	14.2	14.2	2.5	1	5/26/22 12:06	DFH
TNMOC as Carbon (3), N2 corrected	1680	85.0	85.0		280.0	14.2	14.2	2.5	1	5/26/22 12:06	DFH
TNMOC as Carbon (Mean), O2 corrected	1530	85.0	85.0		255.0	14.2	14.2	2.5	1	5/26/22 12:06	DFH
TNMOC as Carbon (1), O2 corrected	1490	85.0	85.0		248.3	14.2	14.2	2.5	1	5/26/22 12:06	DFH
TNMOC as Carbon (2), O2 corrected	1600	85.0	85.0		266.7	14.2	14.2	2.5	1	5/26/22 12:06	DFH
TNMOC as Carbon (3), O2 corrected	1520	85.0	85.0		253.3	14.2	14.2	2.5	1	5/26/22 12:06	DFH

Volatile Organic Compounds by GC/TCD - Unadjusted, as received basis EPA 3C

Analyte	Vol%			Flag/Qual	Dilution	PF	Date/Time Analyzed	Analyst
	Result	MDL	LOQ					
Methane, as received	43.6	0.45	0.45		9	1	5/27/22 13:47	DFH
Carbon dioxide, as received	31.4	0.45	0.45		9	1	5/27/22 13:47	DFH
Oxygen (O2), as received	1.92	0.45	0.45		9	1	5/27/22 13:47	DFH
Hydrogen (H2), as received	ND	0.18	0.18		9	1	5/27/22 13:47	DFH
Nitrogen (N2), as received	14.1	0.45	0.45		9	1	5/27/22 13:47	DFH
Carbon Monoxide, as received	ND	0.009	0.009		9	1	5/27/22 13:47	DFH



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Date Received: May 18, 2022 10:06
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State College, PA 16801

Submitted To: Laura Vallett

Project Number: 21-CCDPW-130

Client Site I.D.: Cecil Co. Central Landfill

Purchase Order: 21-CCDPW-130

ANALYTICAL RESULTS

Project Location:

Sample Description/Location:

Initial Vacuum(in Hg): 30

Field Sample #: 36448

Sub Description/Location:

Final Vacuum(in Hg): 20.8

Sample ID: 22E1025-04

Canister ID: 063-00233: 36448

Receipt Vacuum(in Hg): 20.8

Sample Matrix: Air

Canister Size: 6

Flow Controller Type: Passive

Sampled: 5/17/2022 10:45

Flow Controller ID: RMA-13-SSV

Sample Type: LV

Volatile Organic Compounds by GC/FID

Analyte	ppmv-C			Flag/Qual	EPA Method 25C			Dilution	PF	Date/Time Analyzed	Analyst
	Results	MDL	LOQ		Results	MDL	LOQ				
TNMOC as Carbon (Mean), N2 corrected	1870	136	136		311.7	22.7	22.7	4	1	5/26/22 16:46	DFH
TNMOC as Carbon (1), N2 corrected	1850	136	136		308.3	22.7	22.7	4	1	5/26/22 16:46	DFH
TNMOC as Carbon (2), N2 corrected	1920	136	136		320.0	22.7	22.7	4	1	5/26/22 16:46	DFH
TNMOC as Carbon (3), N2 corrected	1840	136	136		306.7	22.7	22.7	4	1	5/26/22 16:46	DFH
TNMOC as Carbon (Mean), O2 corrected	1690	136	136		281.7	22.7	22.7	4	1	5/26/22 16:46	DFH
TNMOC as Carbon (1), O2 corrected	1670	136	136		278.3	22.7	22.7	4	1	5/26/22 16:46	DFH
TNMOC as Carbon (2), O2 corrected	1730	136	136		288.3	22.7	22.7	4	1	5/26/22 16:46	DFH
TNMOC as Carbon (3), O2 corrected	1670	136	136		278.3	22.7	22.7	4	1	5/26/22 16:46	DFH

Volatile Organic Compounds by GC/TCD - Unadjusted, as received basis EPA 3C

Analyte	Vol%			Flag/Qual	Dilution	PF	Date/Time Analyzed	Analyst
	Result	MDL	LOQ					
Methane, as received	43.2	0.45	0.45		9	1	5/27/22 14:50	DFH
Carbon dioxide, as received	30.3	0.45	0.45		9	1	5/27/22 14:50	DFH
Oxygen (O2), as received	1.86	0.45	0.45		9	1	5/27/22 14:50	DFH
Hydrogen (H2), as received	ND	0.18	0.18		9	1	5/27/22 14:50	DFH
Nitrogen (N2), as received	13.6	0.45	0.45		9	1	5/27/22 14:50	DFH
Carbon Monoxide, as received	ND	0.009	0.009		9	1	5/27/22 14:50	DFH



U.S. Census Bureau

American FactFinder

POPULATION FINDER

United States | Maryland | Cecil County

Cecil County, Maryland

County, Maryland is 99,926.

The 2008 population
estimate for Cecil

city/ town, county, or zip

cecil

state

Maryland



search by address »

Note: Information about challenges to population estimates data can be found on the Population Estimates Challenges page.

View population trends...

	2008	2000	1990
Population	99,926	85,951	71,347

Source: [U.S. Census Bureau](#), 2008 Population Estimates, Census 2000, 1990 Census

View more results...

Population for all counties in Maryland, 2000:

[alphabetic](#) | [ranked](#)

Map of Persons per Square Mile, Maryland by County:

[2000](#) | [1990](#)

Map of Persons per Square Mile, County by County Subdivision:

[2000](#) | [1990](#)

See more data for Cecil County, Maryland on the Fact Sheet.

The letters PDF or symbol  indicate a document is in the Portable Document Format (PDF). To view the file you will need the Adobe® Acrobat® Reader, which is available for **free** from the Adobe web site.

**CECIL COUNTY DEPARTMENT OF PUBLIC WORKS
CENTRAL LANDFILL**

WASTE DISPOSAL RATES

Year	Population of Cecil County for Year X	Average Per Capita Waste Generation Rate For Year X	% of Waste Generated Managed at Landfills	Quantity of Waste Disposed in Year X ^{1,2}	Quantity of Waste Disposed in Year X
	(capita)	(t/capita)	(%)	(metric tons, t)	Short Tons
X	POP _x	WGR _x	SWDS _x	W _x = POP _x x WGR _x x SWDS _x	
1978	71,347	0.74	100.00%	52,797	58,198
1979	71,347	0.75	100.00%	53,510	58,985
1980	71,347	0.75	100.00%	53,510	58,985
1981	71,347	0.76	100.00%	54,224	59,771
1982	71,347	0.77	100.00%	54,937	60,558
1983	71,347	0.77	100.00%	54,937	60,558
1984	71,347	0.78	100.00%	55,651	61,344
1985	71,347	0.79	100.00%	56,364	62,131
1986	71,347	0.79	100.00%	56,364	62,131
1987	71,347	0.80	100.00%	57,078	62,917
1988	71,347	0.80	100.00%	57,078	62,917
1989	71,347	0.85	84.00%	50,942	56,154
1990	71,347	0.84	87.00%	52,140	57,475
1991	85,951	0.78	76.00%	50,952	56,165
1992	85,951	0.76	72.00%	47,032	51,844
1993	85,951	0.78	71.00%	47,600	52,470
1994	85,951	0.77	67.00%	44,342	48,879
1995	85,951	0.72	63.00%	38,987	42,976
1996	85,951	0.71	62.00%	37,836	41,707
1997	85,951	0.72	61.00%	37,750	41,612
1998	85,951	0.78	61.00%	40,895	45,080
1999	---	---	---	63,685	70,201
2000	---	---	---	69,339	76,433
2001	---	---	---	71,941	79,301
2002	---	---	---	66,059	72,818
2003	---	---	---	88,049	97,057
2004	---	---	---	102,158	112,610
2005	---	---	---	121,336	133,750
2006	---	---	---	150,371	165,756
2007	--	---	--	111,298	122,685
2008	--	---	--	98,938	109,060
2009	---	---	--	91,151	100,477
2010	---	---	--	80,189	88,393
2011	---	---	--	78,941	87,018

Notes:

1. Waste acceptance records for 1978 through 1998 were not available or not accurate. However, the Central Landfill since its opening in 1978 has accepted waste exclusively from Cecil County. As a result, the population of Cecil County in conjunction with Equation HH-2 was used to estimate the disposal rate for the period of 1978 through 1998. The population of Cecil County for 1990 and 2000 based the enclosed on U.S. Census Bureau report is 71,347 and 85,951, respectively. Therefore, conservatively a population 71,347 was used for years 1978 through 1990 and 85,951 was used for years 1991 through 1998.

2. The disposal rates for 1999 through 2011 are based on enclosed scale house records. Additionally, waste composition records and records showing the type of waste disposed within the landfill were also available for 1999 through 2011. As a result, for those years, only the waste disposed within the landfill was used within the calculations.

CECIL COUNTY DEPARTMENT OF PUBLIC WORKS
CENTRAL LANDFILL - WASTE ACCEPTANCE RECORD

1999 Material Type	Jan.	Feb.	Mar.	April	May	Jun.	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Residential	1404	1257	1501	1721	1673	2263	1957	2363	2583	2168	2220	1468	22,578
Commercial	747	857	1068	1538	1428	1602	2149	2143	2190	2027	1757	1240	18,746
Industrial	31	39	50	68	61	94	82	156	159	141	139	58	1,078
Institutional	42	48	47	46	56	58	53	45	74	84	80	81	714
Homeowners	1291	1185	1236	1391	1426	40	1517	1503	1579	1589	1558	1540	15,855
School Board	121	118	122	106	107	162	163	119	106	136	122	12	1,394
Total M.R.A.	3636	3504	4024	4870	4751	4219	5921	6329	6691	6145	5876	4399	60,365
Land Clearing	16	1	34	75	27	40	60	14	785	103	103	168	1,366
C&D Bldg.	325	426	362	494	513	483	680	623	468	465	465	481	6,164
C&D Road	0	55	6	2	1	4	1	17	20	10	10	24	286
Bulky Objects/ Special Waste	4	8	12	18	5	8	6	18	34	14	14	21	214
Asbestos	0	2	0	0	0	0	0	0	0	0	0	0	2
Sludge	199	250	263	309	243	259	211	211	264	308	308	384	3,141
Litter/ Special Waste	0	1	0	4	0	2	2	1	0	2	2	1	14
Contaminated Soil/ Spec. Waste	0	0	0	0	14	0	1	0	0	0	0	0	15
Total Non M.R.A.	544	743	677	902	803	796	961	884	1571	902	902	1079	11,202
Batteries	2	2	2	4	2	0	5	2	0	0	0	0	26
Brush & Yard Commercial	10	11	12	26	53	29	29	22	33	125	125	30	445
Brush & Yard Homeowners	138	128	251	317	256	1718	535	739	503	304	304	365	5,718
Commingsles	37	28	33	44	30	41	44	14	38	38	38	51	443
Cardboard	1	0	4	2	0	4	3	1	0	2	2	0	19
Newspaper	22	23	14	41	32	34	25	30	20	14	14	37	323
Mixed Paper	40	34	40	35	49	47	42	39	39	55	55	47	528
Tires	37	9	22	32	62	0	38	12	10	40	40	59	342
Appliances/ Scrap Metal	0	0	0	0	444	166	0	0	162	0	0	0	1,109
Mulch	117	39	39	156	156	117	78	78	156	234	234	156	1,482
Compost	668	334	668	167	668	501	334	501	668	668	668	501	6,012
E-Cycling	0	0	0	0	0	0	0	0	0	0	0	0	0
Recycling Total	1072	608	1085	824	1752	2657	1133	1438	1629	1480	1480	1246	16,447

Total Waste Landfilled (Tons) = 70,201

*Rows highlighted in blue represent the waste that was disposed within the landfill.

CECIL COUNTY DEPARTMENT OF PUBLIC WORKS
CENTRAL LANDFILL - WASTE ACCEPTANCE RECORD

2000 Material Type	Jan.	Feb.	Mar.	April	May	Jun.	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Residential	1567	1392	1444	1588	1638	1473	1354	1474	1228	1561	1400	1182	17,301
Commercial	1054	1449	2079	2955	3578	3537	2823	3066	3006	3149	2672	1874	31,242
Industrial	104	76	11	2	10	4	6	6	5	11	10	7	252
Institutional	75	81	81	109	98	99	79	89	72	74	74	66	997
Homeowners	1259	1296	1370	1500	1587	1354	1357	1418	1386	1317	1015	660	15,519
School Board	101	111	103	59	137	149	179	140	173	111	178	98	1,539
Total M.R.A.	4160	4405	5088	6213	7048	6616	5798	6193	5870	6223	5349	3887	66,850
Land Clearing	42	138	271	60	76	111	36	7	68	237	237	2	1,069
C&D Bldg.	268	360	386	367	531	283	337	387	487	541	541	308	5,029
C&D Road	0	0	135	0	7	9	5	11	0	204	204	167	562
Bulky Objects/ Special Waste	17	5	29	35	42	70	35	170	24	70	70	23	669
Asbestos	0	2	0	0	0	1	0.4	0	0	1	1	0	7
Sludge	269	266	313	265	331	316	244	267	262	236	236	265	3,289
Litter/ Special Waste	8	0	1	1	0	0	0	0	2	2	2	0	14
Contaminated Soil/ Spec. Waste	0	0	103	0	0	0	6	0	0	0	0	7	13
Total Non M.R.A.	604	771	1238	728	987	790	663	842	843	1241	1291	772	10,770
Batteries	14	0	0	0	9	0	13	0	0	0	0	0	36
Brush & Yard Commercial	5	0.1	17	53	58	50	31	68	32	76	76	20	463
Brush & Yard Homeowners	184	142	396	341	535	469	277	370	267	189	189	98	3,453
Commingsles	44	42	53	39	51	50	46	47	42	52	52	14	508
Cardboard	4	0	0	2	2	2	3	2	4	5	5	4	31
Newspaper	37	8	15	16	17	8	19	38	31	47	47	37	330
Mixed Paper	39	42	58	34	47	42	73	43	32	34	34	19	503
Tires	17	35	18	10	8	29	57	34	7	37	37	59	346
Appliances/ Scrap Metal	0	0	307	236	0	0	0	138	249	0	0	0	1,295
Mulch	156	156	78	156	78	156	78	156	585	273	273	78	2,067
Compost	668	501	668	334	668	501	501	668	1169	835	835	501	7,515
E-Cycling	0	0	0	0	0	0	0	0	0	0	0	0	0
Recycling Total	1168	926	1610	1221	1473	1307	1098	1564	2418	1381	1548	830	16,544

Total Waste Landfilled (Tons) = 76,433

*Rows highlighted in blue represent the waste that was disposed within the landfill.

CECIL COUNTY DEPARTMENT OF PUBLIC WORKS
CENTRAL LANDFILL - WASTE ACCEPTANCE RECORD

2001 Material Type	Jan.	Feb.	Mar.	April	May	Jun.	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Residential	1045	844	1067	1450	1966	1729	1631	1699	1430	1748	16546	1500	17,765
Commercial	1549	1392	1998	2689	3873	4376	4640	4944	4227	4321	4224	3961	42,194
Industrial	5	6	11	11	30	13	8	14	11	14	18	0	141
Institutional	80	58	82	90	88	67	75	77	64	81	86	81	929
Homeowners	660	596	731	745	708	719	701	644	563	668	576	583	7,894
School Board	108	109	119	99	155	249	313	109	138	120	135	150	1,804
Total M.R.A.	3447	3005	4008	5084	6820	7153	7368	7487	6433	6952	6695	62756	70,727
Land Clearing	12	58	106	164	192	181	619	143	82	73	47	23	1,700
C&D Bldg.	333	226	309	321	280	256	304	311	295	441	380	280	3,736
C&D Road	87	68	240	13	49	23	51	9	16	19	47	1	623
Bulky Objects/ Special Waste	16	3	29	18	7	10	29	14	9	106	24	16	281
Asbestos	1	0	0	1	1	0	0	0	1	0	0	1	5
Sludge	352	378	279	352	309	326	273	335	355	422	108	307	3,796
Litter/ Special Waste	6	0	0	2	0	2	20	61	1	1	0	1	94
Contaminated Soil/ Spec. Waste	0	0	0	0	0	19	18	2	0	0	0	0	39
Total Non M.R.A.	807	733	963	871	838	817	1314	875	759	1062	606	629	10,274
Batteries	0	0	12	0	8	0	11	0	0	8	0	0	39
Brush & Yard Commercial	11	7	34	61	50	54	40	33	32	64	102	38	5,626
Brush & Yard Homeowners	84	94	197	235	149	140	122	108	164	136	203	110	1,742
Commingsles	48	47	59	57	59	57	61	60	58	55	58	39	658
Cardboard	0	6	4	4	4	5	5	7	2	5	4	3	49
Newspaper	34	23	53	20	34	55	23	34	22	34	34	12	378
Mixed Paper	30	27	36	37	23	38	36	47	31	20	27	18	370
Tires	27	18	24	26	67	28	6	34	45	0	22	19	316
Appliances/ Scrap Metal	0	0	0	123	435	144	0	17	431	188	0	0	1,338
Mulch	117	156	195	156	156	273	156	156	390	273	390	195	2,613
Compost	668	668	668	668	501	501	668	1002	1336	668	1002	501	8,861
E-Cycling	0	0	0	0	0	0	0	0	0	0	0	0	0
Recycling Total	1019	1046	1282	1387	1496	1295	1128	1498	2511	1451	1842	935	16,880

Total Waste Landfilled (Tons) = 79,301

*Rows highlighted in blue represent the waste that was disposed within the landfill.

CECIL COUNTY DEPARTMENT OF PUBLIC WORKS
CENTRAL LANDFILL - WASTE ACCEPTANCE RECORD

2002 Material Type	Jan.	Feb.	Mar.	April	May	Jun.	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Residential	1543	692	1074	1447	1516	1406	1609	1472	1170	1582	1390	1477	16,378
Commercial	3635	1249	2457	3450	4194	3857	3999	3278	2745	2704	2704	2990	37,577
Industrial	0	0	0	0	0	0	0	0	0	0	0	0	0
Institutional	76	40	77	76	69	70	68	74	80	84	84	71	869
Homeowners	462	395	440	449	536	446	631	544	501	478	478	476	5,844
School Board	178	85	179	128	165	157	125	106	153	139	139	109	1,652
Total M.R.A.	5894	24613	4227	5550	6480	5936	6432	5474	4649	4795	4795	5123	62,320
Land Clearing	63	7	19	23	46	421	425	16	1	1	1	20	1,049
C&D Bldg.	139	153	382	274	484	494	550	526	136	621	621	374	4,565
C&D Road	12	5	31	1	34	9	14	16	4	46	46	10	216
Bulky Objects/ Special Waste	7	24	73	103	47	204	71	41	5	39	39	64	753
Asbestos	0	0	0	0	0	0	1	0	0	0	0	0	3
Sludge	369	184	369	448	671	449	583	339	315	252	252	267	4,559
Litter/ Special Waste	0	0	1	2	0	0	26	27	0	12	12	0	68
Contaminated Soil/ Spec. Waste	0	0	0	0	1	301	0	0	0	0	0	32	334
Total Non M.R.A.	590	373	875	851	1283	1878	1670	965	481	971	863	787	11,547
Batteries	10	0	0	9	0	0	10	0	0	0	0	0	29
Brush & Yard Commercial	32	12	17	58	59	50	29	23	27	121	35	29	492
Brush & Yard Homeowners	72	64	122	207	219	151	167	190	111	217	303	70	1,893
Commingsles	49	54	41	47	60	45	77	82	0	12	29	30	526
Cardboard	3	0	3	1	0	2	0	1	0	0	0	0	10
Newspaper	20	22	26	19	0	0	0	10	0	0	13	0	110
Mixed Paper	41	20	31	32	11	0	5	7	0	22	29	44	242
Tires	67	7	38	20	0	0	6	0	0	6	70	28	242
Appliances/ Scrap Metal	0	144	380	18	0	0	126	213	0	0	0	0	881
Mulch	156	117	156	234	195	312	273	273	330	468	429	390	3,333
Compost	1248	750	1249	1500	1249	1999	1749	1749	2500	3000	2750	2500	22,243
E-Cycling	0	0	0	0	0	0	0	0	0	0	0	0	0
Recycling Total	1698	1190	2063	2145	1793	2559	2442	2548	2988	3846	3658	3091	30,001

Total Waste Landfilled (Tons) = 72,818

*Rows highlighted in blue represent the waste that was disposed within the landfill.

CECIL COUNTY DEPARTMENT OF PUBLIC WORKS
CENTRAL LANDFILL - WASTE ACCEPTANCE RECORD

2003 Material Type	Jan.	Feb.	Mar.	April	May	Jun.	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Residential	1380	1155	1857	2040	1968	2261	2101	2063	2647	2083	1975	1998	23,548
Commercial	2986	2138	3046	3373	3509	4030	4802	4536	4635	4555	4124	3816	45,500
Industrial	0	0	0	0	0	0	0	0	0	0	0	0	0
Institutional	71	55	87	79	81	88	76	80	80	86	78	65	926
Homeowners	823	650	1130	1064	1018	1060	1226	1148	1072	1105	883	832	12,011
School Board	235	168	237	144	132	206	212	187	121	137	155	177	2,111
Total M.R.A.	5495	4166	6357	6700	6728	7645	8417	8014	8555	7966	7215	6888	84,146
Land Clearing	72	0	22	2	1	0	56	7	22	0	0	2	184
C&D Bldg.	427	199	509	774	704	808	216	1005	899	807	781	551	7,680
C&D Road	8	3	9	27	64	35	12	97	1	7	9	16	288
Bulky Objects/ Special Waste	13	4	21	95	31	66	48	64	28	31	48	114	563
Asbestos	0	0	0	0	0	0	0	0	0	6	2	0	8
Sludge	254	297	213	548	590	435	580	318	352	267	233	308	4,395
Litter/ Special Waste	0	0	0	0	0	0	17	0	0	0	0	0	17
Contaminated Soil/ Spec. Waste	0	0	0	0	7	0	0	2	0	1	0	0	10
Total Non M.R.A.	774	503	774	1446	1397	1344	929	1493	1302	1119	1073	991	13,145
Batteries	0	0	0	0	0	0	0	0	14	9	0	0	23
Brush & Yard Commercial	16	6	29	54	73	81	67	47	92	61	88	8	622
Brush & Yard Homeowners	32	24	75	322	263	120	136	178	317	190	125	43	1,825
Commingsles	49	0	59	68	41	67	50	38	52	46	32	57	559
Cardboard	0	0	0	0	0	0	0	0	3	0	0	0	3
Newspaper	0	0	0	9	11	11	10	0	0	0	0	20	61
Mixed Paper	0	14	8	59	26	40	15	14	23	14	28	6	247
Tires	0	0	12	0	30	13	27	28	35	12	16	16	189
Appliances/ Scrap Metal	0	0	447	60	0	7	0	252	466	48	0	0	1,280
Mulch	117	117	156	117	156	195	195	273	156	312	273	750	2,817
Compost	750	750	1249	750	1248	1249	1249	2333	1248	1999	1749	117	14,691
E-Cycling	0	0	0	0	0	0	0	0	0	0	0	0	0
Recycling Total	964	911	2035	1439	1848	1783	1749	3163	2406	2691	2311	1017	22,317

Total Waste Landfilled (Tons) = 97,057

*Rows highlighted in blue represent the waste that was disposed within the landfill.

CECIL COUNTY DEPARTMENT OF PUBLIC WORKS
CENTRAL LANDFILL - WASTE ACCEPTANCE RECORD

2004 Material Type	Jan.	Feb.	Mar.	April	May	Jun.	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Residential	1697	1523	1947	1843	1928	2490	2037	2727	2491	1994	2203	2153	25033
Commercial	3174	3950	4824	4414	4473	5841	5858	5280	4725	5354	4990	5104	57,987
Industrial	0	0	0	0	0	0	0	0	0	0	0	0	0
Institutional	59	64	77	71	71	82	99	89	81	77	78	74	922
Homeowners	801	818	951	1076	1168	1075	892	683	788	990	979	897	11118
School Board	158	138	222	211	235	459	124	145	123	133	97	96	2141
Total M.R.A.	5889	6493	8021	7615	7875	9947	9010	8324	8208	8548	8347	8324	97201
Land Clearing	0	25	3	24	2	2	12	34	0	10	1	1	114
C&D Bldg.	538	796	835	744	881	1154	689	904	444	958	839	639	9,421
C&D Road	2	1	18	20	16	5	552	6	5	1	2	0	628
Bulky Objects/ Special Waste	28	45	80	73	102	158	112	107	22	69	37	28	861
Asbestos	0	0	0	0	0	0	0	0	0	0	0	0	0
Sludge	273	451	539	382	424	524	459	553	47	245	196	383	4,476
Litter/ Special Waste	0	0	0	0	0	0	16	7	0	0	0	0	23
Contaminated Soil/ Spec. Waste	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Non M.R.A.	841	1318	1475	1243	1425	1843	1840	1811	518	1283	1075	1051	15523
Batteries	13	0	0	0	10	0	0	12	0	0	11	0	46
Brush & Yard Commercial	2	3	13	47	72	51	34	51	53	53	86	21	486
Brush & Yard Homeowners	46	62	166	131	187	115	120	105	82	86	137	70	1307
Commingsles	36	32	53	57	37	41	53	41	9	37	36	55	487
Cardboard	0	4	0	0	0	0	0	0	0	0	0	0	4
Newspaper	0	11	0	26	9	0	0	0	3	0	0	0	49
Mixed Paper	23	29	0	18	7	7	24	0	0	13	21	32	174
Tires	51	16	17	48	15	27	32	30	4	0	16	16	272
Appliances/ Scrap Metal	0	80	423	0	0	0	60	533	19	37	28	357	1537
Mulch	117	117	117	156	156	156	117	156	156	156	156	117	1677
Compost	750	750	750	1248	1249	1249	750	1248	1249	124	1248	750	12490
E-Cycling	0	0	0	0	0	0	0	0	0	0	0	0	0
Recycling Total	1038	1104	1539	1731	1742	1646	1190	2176	1575	1631	1739	1418	18529

Total Waste Landfilled (Tons) = 112,610

*Rows highlighted in blue represent the waste that was disposed within the landfill.

CECIL COUNTY DEPARTMENT OF PUBLIC WORKS
CENTRAL LANDFILL - WASTE ACCEPTANCE RECORD

2005 MATERIAL TYPE	JAN.	FEB.	MAR.	APRIL	MAY	JUN.	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTALS
Residential	1952	1874	2384	2624	2511	2151	2295	2326	2064	1329	2429	2301	26240
Commercial	4158	4140	4644	5269	4852	6017	5460	6236	5904	6346	5028	4081	62135
Industrial	0	0	0	0	2	3	26	11	7	8	8	3	68
Institutional	78	63	66	75	60	55	89	82	78	99	80	62	887
Homeowners	811	686	958	1101	887	1270	1320	1209	946	1149	1061	1052	12450
School Board	106	121	254	155	121	246	89	146	240	100	191	130	1899
Total M.R.A.	7105	6884	8306	9224	8433	9742	9279	10010	9239	9031	8797	7629	103679
LandClearing	159	281	7	45	9	12	1	27	10	8	23	4	586
C&D Bldg.	428	792	940	123	1184	946	2262	2024	717	850	944	1789	12999
C&D Road	0	0	3	14	22	940	667	2053	790	2303	3052	342	10186
Bulky Objects/ Special Waste	11	21	57	43	46	53	8	102	17	14	197	11	580
Asbestos	0	5	0	0	0	0	0	0	0	0	0	8	13
Sludge	338	386	491	590	504	454	410	353	225	460	405	272	4888
Litter/ Special Waste	4	0	0	0	10	27	148	10	728	4	186	4	1121
Contaminated Soil/ Spec. Waste	0	1	0	0	0	16	0	55	0	1	211	0	284
Total Non M.R.A.	940	1488	1498	815	1775	2448	3496	4824	2487	3640	5018	2430	30657
Batteries	0	0	0	13	0	0	8	0	9	0	0	0	30
Brush & Yard Commercial	11	109	21	73	77	29	65	194	164	234	212	121	1310
Brush & Yard Homeowners	48	15	118	45	32	345	307	204	633	176	226	76	2225
Commingles	70	33	53	30	38	51	36	42	33	41	41	48	516
Cardboard	0	0	0	0	0	0	0	0	0	0	0	0	0
Newspaper	0	0	0	4	10	1	0	2	0	0	5	9	31
Mixed Paper	3	30	17	19	21	3	18	41	29	17	33	12	243
Tires	0	61	30	29	0	50	11	15	38	13	0	40	287
Appliances/ Scrap Metal	147	0	0	0	0	371	293	0	0	0	0	260	1071
Mulch Marketed	0	0	1	2	1	1	2	1	5	3	1	0	17
Mulch	0	0	0	0	156	156	156	156	156	156	0	0	936
Compost	0	0	0	0	1248	888	888	888	888	888	0	0	5688
E-Cycling	0	0	0	0	0	0	0	16	8	0	0	0	24
Recycling Total	279	248	240	215	1583	1895	1784	1559	1963	1528	518	566	12378
Total Waste Landfilled (Tons) =													133750

*Rows highlighted in blue represent the waste that was disposed within the landfill.

CECIL COUNTY DEPARTMENT OF PUBLIC WORKS
CENTRAL LANDFILL - WASTE ACCEPTANCE RECORD

2006 MATERIAL TYPE	JAN.	FEB.	MAR.	APRIL	MAY	JUN.	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTALS
Residential	2451	1882	2128	2636	2759	2824	2153	2616	1958	2613	2352	1740	28112
Commercial	4462	3946	5027	4431	5538	5174	5863	5476	5230	4701	4445	4013	58306
Industrial	11	0	0	12	4	7	5	2	18	2	9	11	81
Institutional	31	15	35	10	26	12	33	50	74	41	19	18	364
Homeowners	985	828	1003	1083	1107	1099	1149	1119	1148	1050	1136	1178	12885
School Board	389	163	412	191	333	439	404	383	403	395	284	320	4116
Total M.R.A.	8329	6834	8605	8363	9767	9555	9607	9646	8831	8802	8245	7280	103864
Land Clearing	5	22	15	1	21	7	9	3	27	1	0	0	111
C&D Bldg.	1171	750	962	1176	1195	1567	1099	933	1166	1007	1068	1232	13326
C&D Road	482	414	11005	9084	4294	4786	26	714	848	2495	1054	1872	37074
Bulky Objects/ Special Waste	35	16	50	25	45	29	6389	17	59	23	4	1	6693
Asbestos	1	0	0	0	0	0	0	0	0	0	2	0	3
Sludge	359	345	428	377	391	464	363	439	287	481	331	323	4588
Litter/ Special Waste	0	0	3	19	5	3	23	10	0	5	78	29	175
Contaminated Soil/ Spec. Waste	0	0	3	0	0	1	2	0	0	0	4	23	33
Total Non M.R.A.	2053	1547	12486	10682	5951	6857	7911	2116	2387	4012	2541	3480	62003
Batteries	10	0	0	0	15	0	0	0	10	0	0	0	35
Brush & Yard Commercial	239	172	361	248	280	274	318	316	212	132	181	330	3063
Brush & Yard Homeowners	169	131	376	315	309	261	355	347	354	274	288	116	3295
Pallets	11	6	13	10	11	61	10	9	3	1	2	8	145
Commingles	47	31	54	41	47	54	68	48	34	64.58	16.58	26.72	531.88
Cardboard	0	0	0	0	0	0	0	2	0	0	0	0	2
Newspaper	20	18	29	7	10	14	8	13	11	25.68	71.74	104.3	331.72
Mixed Paper	13	38	27	0	26	2	33	50	36	27.75	39.69	63.96	356.4
Tires	29	0	25	57	0	43	0	42	57	0	40	19	312
Appliances/ Scrap Metal	295	0	1	36	1	137	529	3	0	0	462	28	1492
Marketed Mulch	0	3	27	29	23	0	0	0	0	2	0	0	84
Mulch	5733	4446	8178	6014	0	0	1638	0	1580	2456	644	702	31391
Compost	336	260	479	0	0	0	96	27	468	0	0	172	1838
E-Cycling	0	0	0	7	0	0	6	4	4	0	6	5	32
Recycling Total	6902	5105	9570	6764	722	846	3061	861	2769	2983.01	1751.01	1574.98	42909
Total Waste Landfilled (Tons) =													165756

*Rows highlighted in blue represent the waste that was disposed within the landfill.

CECIL COUNTY DEPARTMENT OF PUBLIC WORKS
CENTRAL LANDFILL - WASTE ACCEPTANCE RECORD

2007 Incoming	Jan.	Feb.	Mar.	April	May	Jun.*	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Residential	1741.74	1290.36	1729.44	1819.38	2048.49	1962.85	1749.93	2026.48	1628.98	1757.69	1750.89	1757.65	21263.88
Commercial	3869.36	3098.71	4145.88	3599.73	3627.26	3615.87	3759.46	3836.61	3164.09	3870.83	3524.71	3308.63	43421.14
Industrial	5.49	0.53	10.33	351.17	189.85	9.41	49.26	10.83	11.13	8.88	13.74	127.95	788.57
Institutional	40.34	25.87	35.75	49.22	80.12	95.73	80.44	86.57	68.39	86.29	69.52	80.64	798.88
Homeowners	1030.75	838.36	1103.23	1126.83	1237.27	1208.83	1183.02	1128.81	1043.66	994.83	989.09	1037.19	12921.87
School Board	201.21	162.86	251.32	568.54	862.26	394.67	817.89	1965.70	646.15	325.50	398.34	214.49	6808.93
Total M.R.A.	6888.89	5416.69	7275.95	7514.87	8045.25	7287.36	7640.00	9055.00	6562.40	7044.02	6746.29	6526.55	86003.27
LandClearing	0	0.58	0.00	2.07	0.00	36.76	11.54	0.00	0.00	0.00	0.00	0.00	50.95
C&D Bldg.	1521.81	1057.45	1642.76	2180.26	4782.33	2796.29	3031.30	3010.78	2423.12	2719.79	2339.52	2032.31	29537.72
Dirt	54.43	9.00	4201.23	3897.19	2051.06	4928.10	4425.36	1962.50	1109.71	1542.70	2413.36	1116.59	27711.23
Concrete (stockpiled)	35.45	22.70	48.10	32.15	155.71	270.91	227.91	1.81	33.14	23.50	362.23	80.00	1293.61
Asphalt (stockpiled)	0	0.00	0.00	20.00	0.00	479.23	83.67	305.00	157.50	245.20	651.13	0.00	1941.73
Millings (stockpiled/road base)	60	0.00	0.00	80.00	160.00	120.00	320.00	20.00	60.00	2530.64	77.50	0.00	3428.14
Bulky Objects/ Special Waste	12.3	1.06	7.99	3.70	1.81	26.29	9.42	3.65	5.92	1.11	1.48	2.00	76.73
Asbestos	0	1.79	0.65	13.77	0.00	0.00	0.87	3.05	0.00	1.09	0.68	3.33	25.23
Sludge	427.62	268.72	418.67	372.79	785.55	995.26	391.49	334.55	292.64	320.04	350.00	1036.93	5994.26
Hazardous Waste	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.07	0.00	0.00	9.07
Litter/ Special Waste	16.56	141.35	95.95	93.10	235.37	70.60	144.61	92.07	63.00	36.81	29.90	25.04	1044.36
Contaminated Soil/ Spec. Waste	1.31	0.00	1.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.05
Total Non M.R.A.	2129.48	1502.65	6417.09	6695.03	8171.83	9723.44	8646.17	5733.41	4145.03	7429.95	6225.80	4296.20	71116.08
Batteries	10	0.00	0.00	6.93	0.00	27.30	0.00	0.00	7.93	0.00	0.00	0.00	52.16
Brush & Yard Commercial	249.41	93.72	266.83	222.88	297.05	267.38	128.16	201.92	212.72	238.51	220.23	142.83	2541.64
Brush & Yard Homeowners	134.24	51.62	275.60	417.17	427.12	392.40	358.09	231.36	258.46	224.01	243.75	179.00	3192.82
Pallets	0.5	3.01	2.50	6.01	7.50	27.50	27.50	67.50	7.50	5.00	10.00	12.50	177.02
Commingles	20.56	16.87	23.81	22.77	25.42	24.63	99.63	25.05	24.45	29.98	30.48	32.95	376.60
Newspaper	80.26	65.87	91.83	88.93	99.27	94.98	60.89	97.83	94.31	115.62	117.57	127.08	1134.44
Mixed Paper	49.21	40.39	56.12	54.52	60.86	58.04	25.83	59.98	57.63	70.66	71.85	77.66	682.75
Tires	14.9	3.80	6.29	7.98	22.90	27.69	38.90	23.79	32.42	31.36	21.52	0.00	27.79
Appliances/ Scrap Metal	0	8.21	392.34	0.00	0.00	227.86	121.77	0.00	0.00	270.91	0.00	109.64	1130.73
Mulch	13104	0.00	0.00	6715.80	9945.00	10728.00	10705.50	0.00	9128.34	8798.4	468.00	6470.10	76063.14
Compost	0	0.00	190.27	206.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	396.32
E-Cycling	6.75	10.37	6.00	6.37	18.22	13.43	7.09	3.65	7.45	8.14	13.07	6.61	107.15
Fluorescent Lamps	0	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.32	0.00	0.39	0.73
Textiles	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ink Cartridges	0.045	0.00	0.09	0.03	0.04	0.04	0.04	0.03	0.04	0.00	0.00	0.00	0.34
Nicad Batteries	0	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Alkaline Batteries	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.02
Paint	0	0.00	0.00	6.85	0.00	0.00	0.00	0.00	10.90	0.00	0.00	0.00	17.75
Propane	0	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.03
Freon	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.02
Recycling Total	13669.875	293.86	1311.68	7755.46	10903.38	11889.25	11573.40	711.11	9831.25	9792.59	1196.47	7158.76	85901.46
Total Waste Landfilled (Tons) =													122685

*Rows highlighted in blue represent the waste that was disposed within the landfill.

CECIL COUNTY DEPARTMENT OF PUBLIC WORKS
CENTRAL LANDFILL - WASTE ACCEPTANCE RECORD

2008 Incoming	Jan.	Feb.	Mar.	April	May	Jun.*	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Residential	1752.64	1480.97	1567.60	1642.49	1910.14	1811.19	2012.16	1835.66	1571.12	1189.21	1073.37	1177.17	19023.72
Commercial	3103.21	2648.80	3089.61	3315.74	3452.72	3361.50	3805.26	3960.29	4028.83	4599.60	3606.86	4050.76	43023.18
Industrial	152.84	7.51	9.58	100.71	5.66	3.43	15.92	5.31	7.18	758.68	1.14	12.17	1080.13
Institutional	69.6	79.96	87.19	53.00	67.85	62.12	73.82	53.91	57.51	73.90	76.58	76.80	832.24
Homeowners	940.96	818.54	950.36	1002.38	1080.18	1046.41	1065.09	1074.29	946.87	927.69	841.23	994.20	11688.20
Medications	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.13
Hazardous Waste (HHW)	0	0.00	0.00	7.58	0.00	0.00	0.00	0.00	0.00	9.32	0.00	0.00	9.07
School Board Trash	454.3	295.71	248.47	214.26	227.38	202.16	94.22	47.96	75.72	107.66	129.07	98.78	2195.69
Total M.R.A.	6473.55	5331.49	5952.81	6336.155	6743.93	6486.81	7066.47	6977.42	6687.23	7666.06	5728.38	6409.88	77860.19
LandClearing	0	0.00	0.94	0.00	0.00	2.26	0.00	0.00	0.00	63.63	1.78	0.00	68.61
C&D Bldg.	1934.03	1880.62	2412.86	2693.37	2481.26	2574.84	1759.01	1404.49	1824.56	2293.86	1698.87	1336.15	24293.92
Dirt	887.5	1379.83	414.52	233.81	267.61	2477.92	1100.72	2562.99	3758.96	3002.15	1938.44	1243.61	19268.06
Concrete (stockpiled)	71.46	4.16	16.74	221.74	52.01	94.00	86.83	86.39	40.89	41.72	31.41	18.29	765.64
Asphalt (stockpiled)	0	0.00	0.00	43.08	8.36	11.17	0.90	0.00	13.51	0.00	0.00	0.00	77.02
Millings (stockpiled/road base)	0	0.00	1.94	0.00	85.99	0.00	0.00	0.00	0.00	16.72	0.00	0.00	104.65
Bulky Objects/ Special Waste	45	0.00	1.70	3.85	24.02	16.18	6.01	4.06	5.73	13.92	0.00	0.00	120.47
Asbestos	0	0.06	0.79	3.85	1.15	0.69	0.00	0.00	0.08	0.00	0.82	0.01	7.45
Sludge	380	403.81	439.20	492.33	1054.08	890.24	504.83	359.19	444.79	181.88	395.14	348.65	5894.14
Litter/ Special Waste	148.91	157.05	49.58	77.33	38.18	39.40	62.04	47.93	22.88	95.06	51.05	78.62	868.03
Oil													98.04
Antifreeze													5.21
Freon	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.02
Contaminated Soil/ Spec. Waste	33.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.01
Sharps	0	0.00	0.00	0.00	0.00	0.03	0.03	0.03	0.03	0.24	0.03	0.06	0.45
Vegetable Oil	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tires	39.94	19.14	19.60	18.15	14.30	16.79	13.20	13.36	22.11	13.39	13.21	5.73	208.92
Total Non M.R.A.	3499.91	3825.53	3338.27	3769.36	4012.66	6106.70	3520.34	4465.05	6111.40	5708.96	4117.51	3025.33	51604.27
Brush & Yard Commercial	219.56	185.20	132.88	450.15	355.30	284.79	236.05	181.98	181.07	13.92	232.79	73.81	1204.41
Brush & Yard Homeowners	150.88	110.60	315.00	388.27	363.32	242.04	191.19	116.50	163.54	201.37	228.92	98.46	2570.09
Batteries	0	0.00	4.24	0.00	0.00	0.00	6.03	0.00	0.00	0.00	5.61	0.00	15.88
Pallets	15.89	32.84	12.60	13.72	26.61	21.15	9.77	6.23	5.38	7.19	5.10	4.25	160.73
Commingles	18.119	15.32	18.48	14.48	19.38	22.88	19.68	23.37	24.30	27.11	23.92	23.33	250.35
Newspaper	108.714	91.91	110.85	86.85	116.27	137.27	118.09	140.24	145.80	162.63	164.08	139.96	1522.67
Mixed Paper	54.357	45.96	55.43	43.43	58.14	68.64	59.04	70.12	72.90	81.32	71.75	69.98	751.05
Appliances/ Scrap Metal	0	0.00	195.17	5.95	8.61	133.24	84.95	0.00	154.47	0.00	36.67	0.00	619.06
Mulch	3223.35	2111.85	3779.10	4223.70	5335.20	3590.73	8307.00	6025.50	3978.00	1494.21	6660.23	5279.63	53819.42
Compost	402.52	585.00	0.00	466.11	487.22	600.41	0.00	0.00	3421.64	0.00	20.03	277.65	6260.58
E-Cycling	16.66	27.68	15.36	8.37	10.53	16.52	22.69	15.11	17.92	13.47	14.32	16.65	195.28
Fluorescent Lamps	0.21	0.17	0.32	0.50	0.41	0.39	0.33	0.44	0.53	1.03	0.40	0.96	5.68
Textiles	0	0.00	0.00	4.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.61	10.42
Ink Cartridges	0.114	0.00	0.00	0.15	0.04	0.05	0.00	0.40	0.10	0.10	0.10	0.10	1.15
Mixed Batteries	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.03
Paint	0	0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00	19.50	0.00	0.00	39.50
Propane	0	0.00	0.00	0.82	0.00	0.00	0.00	0.00	0.00	1.15	0.00	0.00	1.97
Recycling Total	3839.93	2910.73	4191.54	4888.88	6062.41	4591.28	8627.58	6281.41	7821.04	2001.21	7002.21	5990.39	63653.78
Total Waste Landfilled (Tons) =													109060

*Rows highlighted in blue represent the waste that was disposed within the landfill.

CECIL COUNTY DEPARTMENT OF PUBLIC WORKS
CENTRAL LANDFILL - WASTE ACCEPTANCE RECORD

2009 Incoming	Jan.	Feb.	Mar.	April	May	Jun.*	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Residential	1192.99	803.72	527.15	1378.05	2592.53	2728.12	2726.85	2543.25	2528.89	2223.69	2556.26	2749.13	22021.74
Commercial	3283.65	3697.68	4895.22	4441.65	3883.37	4040.37	4262.49	3772.40	3907.12	4064.17	4184.87	3391.28	47824.27
Industrial	1.19	0.00	7.43	1.01	28.77	3.60	11.40	0.29	0.00	0.00	1.86	0.00	55.55
Institutional	65.11	60.93	67.61	67.01	73.55	76.39	81.35	68.51	60.96	60.48	67.51	72.86	822.27
Homeowners	853.54	809.24	729.07	1013.37	1081.97	1045.66	1097.91	1063.18	968.16	967.66	900.03	962.00	11491.79
Medications	0	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.10
Hazardous Waste (HHW)	0	0.00	0.00	74.84	0.00	0.00	0.00	0.00	0.00	21.24	0.00	0.00	96.08
School Board Trash	232.69	73.44	59.13	119.62	111.73	113.45	102.85	162.27	104.84	117.22	93.61	79.49	1370.34
Total M,R,A.	5629.17	5445.01	6285.61	7095.6	7771.92	8007.59	8282.85	7609.9	5041.08	7454.51	7804.14	7254.76	83682.14
LandClearing	0	0.00	0.00	28.73	28.50	2.03	9.91	49.78	0.00	0.00	0.11	21.43	140.49
C&D Bldg.	1030.05	797.24	864.88	988.05	533.73	945.91	1993.60	769.64	763.89	832.99	707.26	691.00	10918.24
Dirt	740.21	236.50	1178.6	6177.74	3434.80	778.04	1215.05	810.44	104.62	90.32	203.49	200.63	15170.44
Concrete (stockpiled)	30.49	40.44	55.91	124.79	2.84	57.82	1.84	0.77	20.93	9.14	19.76	0.00	364.73
Asphalt (stockpiled)	0	0.00	0.00	3.66	3.35	27.69	0.00	0.00	0.00	0.00	11.17	0.00	45.87
Millings (stockpiled/road base)	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bulky Objects/ Special Waste	8.55	3.10	0.00	13.02	15.53	11.23	18.60	4.45	8.09	37.91	0.45	1.12	122.05
Asbestos	0	0.00	0.00	0.00	0.00	1.12	0.00	0.00	1.46	0.43	0.00	0.00	3.01
Sludge	471.81	619.09	328.11	706.18	697.84	385.89	416.31	305.50	224.76	403.35	400.63	261.06	5220.53
Litter/ Special Waste	22.27	62.22	46.92	76.97	6.82	39.66	54.32	129.00	56.83	64.07	7.31	2.24	568.63
Central Landfill Oil	3.76	2.80	4.03	6.30	7.70	2.92	4.81	4.44	6.35	4.55	4.20	3.06	54.93
Central Landfill Antifreeze	0.00	0.00	0.00	0.00	2.21	0.00	0.98	0.00	0.00	0.00	2.45	0.00	5.64
Freon	0	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.11
Contaminated Soil/ Spec. Waste	0	5.27	0.00	0.00	3.30	0.00	0.00	0.00	49.64	0.00	0.00	0.00	58.21
Sharps	0.03	0.03	0.30	0.40	0.03	0.12	0.03	0.03	0.03	0.05	0.03	0.03	1.11
Vegetable Oil	0.0875	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.06	0.08	0.66	0.06	1.36
Tires	6.25	20.26	15.81	18.84	16.70	18.45	22.36	9.39	15.72	17.61	27.43	9.77	198.59
Latex Paint Solidified	0	0.00	0.00	0.00	2.24	2.96	3.14	1.93	3.28	6.31	4.23	0.00	24.09
Total Non M,R,A.	2307.14	1766.66	2478.45	8125.48	4736.62	2252.31	3715.42	2074.02	1236.57	1442.83	1356.83	1180.57	32672.90
Brush & Yard Commercial	118.4	130.11	125.63	176.29	198.34	189.91	108.16	144.91	181.79	108.78	222.90	80.38	1785.60
Brush & Yard Homeowners	88.67	120.74	192.60	347.53	286.52	302.86	150.45	242.21	274.70	252.75	240.91	129.64	2629.58
Lead Acid Batteries	0	0.00	0.00	0.00	10.56	0.00	5.39	0.00	8.11	0.00	0.00	0.00	24.06
Pallets	4.45	0.08	8.41	12.70	9.25	11.03	8.61	3.25	10.99	3.78	4.08	5.55	82.18
Commingles	27.226	26.11	24.18	25.82	27.32	33.03	30.06	32.21	32.83	30.57	29.53	33.34	352.20
Newspaper	163.356	156.64	145.05	154.91	163.91	198.18	180.34	193.24	196.96	183.39	196.90	200.01	2132.88
Mixed Paper	81.678	78.32	72.53	77.45	81.96	99.09	90.17	96.62	98.48	91.70	98.45	100.01	1066.44
Appliances/ Scrap Metal	0	0.00	103.79	0.00	0.00	239.26	36.44	0.00	0.00	216.37	32.82	0.00	628.68
Mulch	4355.75	1396.50	3059.00	1596.00	4089.75	6548.85	4469.85	3675.00	6230.00	2182.95	4365.90	1163.75	43133.30
Compost	0	9.10	44.38	12.40	0.00	65.24	236.23	486.91	178.59	0.00	0.00	0.00	1032.85
E-Cycling	10.38	22.22	17.29	12.62	9.82	24.55	13.47	15.98	16.90	17.21	10.76	18.04	189.24
Fluorescent Lamps	0.13	0.36	0.54	0.15	0.33	0.50	0.33	0.48	0.43	0.36	0.38	0.29	4.28
Textiles	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.28	0.00	0.00	0.00	8.28
Ink Cartridges	0	0.05	0.06	0.09	0.25	0.15	0.30	0.25	0.30	0.20	0.30	0.30	2.25
Rechargeable Batteries	0	0.10	0.06	0.16	0.10	0.08	0.06	0.06	0.08	0.10	0.10	0.10	1.00
Recycled Paint	0	0.00	0.00	17.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.40
Cork	0.0025	0.0025	0.00	0.00	0.0025	0.00	0.0001	0.00	0.00	0.00	0.0001	0.00	0.01
Propane	0	0.00	0.00	0.46	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.86
Vinyl Siding	0	0.00	2.40	0.00	2.76	2.54	3.07	0.00	4.07	3.03	2.23	0.00	20.10
Tire Amnesty - Recycled Tires Tire	0	0.00	0.00	0.00	52.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	52.60
Recycling Total	4642.97	1689.47	3477.68	1910.16	4448.61	7222.50	5074.31	4504.00	6781.95	3087.49	4739.22	1731.30	49309.66
Total Waste Landfilled (Tons) =													100477

*Rows highlighted in blue represent the waste that was disposed within the landfill.

CECIL COUNTY DEPARTMENT OF PUBLIC WORKS
CENTRAL LANDFILL - WASTE ACCEPTANCE RECORD

2010 Incoming	Jan.	Feb.	Mar.	April	May	Jun.*	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Residential	2296.91	1743.98	2885.73	3033.58	2780.54	3036.06	2812.75	2694.79	2413.45	2259.91	2303.17	2348.47	30609.34
Commercial	2672.48	1848.19	3439.33	3691.61	3234.44	3677.00	3569.59	3772.71	3392.46	3228.62	2960.45	2776.86	38263.74
Industrial	0.28	5.06	16.11	19.66	14.13	1.15	3.52	4.94	0.00	0.00	0.00	0.00	64.85
Institutional	61.05	55.86	85.40	87.96	56.36	76.84	85.55	63.14	61.47	64.82	49.00	57.38	804.83
Homeowners	953.25	615.99	892.41	985.90	924.93	834.02	986.37	590.38	501.24	546.71	525.58	535.17	8891.95
Medications	0	0.00	0.00	0.08	0	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.18
Hazardous Waste (HHW)	0	0.00	0.00	26.24	0	0.00	0.00	0.00	0.00	32.64	0.00	0.00	58.88
School Board Trash	133.82	278.74	390.15	643.60	193.48	172.40	54.63	214.57	119.45	139.99	119.17	74.45	2534.45
Latex Paint Solidified	5	0.76	8.53	10.63	5	4.43	3.07	5.48	6.09	11.70	6.24	4.24	71.17
Total M.R.A.	6122.79	4548.58	7717.66	8499.256	7208.88	7801.9	7515.48	7346.01	6494.16	6284.49	5963.61	5796.57	81299.3855
Land Clearing	14.57	0.00	7.75	0.49	5.43	25.13	92.06	2.85	0.00	0.00	0.00	12.03	160.31
C&D Bldg.	938.28	767.74	1412.16	1752.23	1661.51	2062.07	1526.51	1122.85	847.14	945.95	928.30	733.43	14698.17
Dirt	63.86	43.35	4.04	95.05	64.97	382.74	814.57	323.95	272.49	998.59	925.24	324.41	4313.26
Concrete (stockpiled)	0	0.00	1.16	30.74	37.31	15.57	82.27	96.68	61.04	55.82	48.11	88.92	517.62
Asphalt (stockpiled)	0	0.00	0.00	0.00	0	0.00	1321.85	2.95	7.01	38.83	7.15	32.46	1410.25
Bulky Objects/ Special Waste	0	0.00	11.64	15.55	104.57	11.87	39.17	13.88	28.11	82.63	16.54	1.00	324.96
Asbestos	0.1	0.00	0.00	0.46	0	0.00	0.00	0.00	1.07	0.00	0.00	0.00	1.63
Sludge	340.75	220.59	673.88	512.48	429.43	449.86	309.40	288.72	459.63	412.63	296.16	247.40	4640.93
Litter/ Special Waste	2.9	23.43	50.66	46.57	24.88	4.86	17.67	8.51	8.30	15.44	0.26	0.11	203.59
Oil - LF Only	3.15	0.79	6.30	7.35	5.6	4.90	4.90	8.24	4.9	4.9	6.3	4.9	62.23
Antifreeze - LF Only	0.00	0.00	0.00	0.00	2.21	0.00	0.00	1.96	0.00	0.00	0.00	0.00	4.17
Freon	0	0.00	0.00	0.02	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
Contaminated Soil/ Spec. Waste	0	0.00	0.00	0.11	0	0.00	0.00	0.00	1889.30	0.00	2.70	0.43	1892.54
Sharps	0.03	0.00	0.06	0.00	0.06	0.03	0.00	0.09	0.02	0.02	0.06	0.06	0.43
Vegetable Oil	0	0.00	0.39	0.57	0.01	0.01	0.01	0.39	0.01	0.01	0.01	0.03	1.44
Tires	9.06	6.21	14.42	27.85	38.76	29.48	25.21	15.43	27.22	20.43	79.74	61.27	355.08
Propane- NON MRA Recyclable	0	0.24	0.26	0.36	0.00	0.00	0.00	0.00	0.00	1.31	0.00	0.00	2.17
Total Non M.R.A.	1372.70	1062.35	2182.72	2489.83	2374.74	2986.52	4233.62	1886.50	3606.24	2576.56	2310.57	1506.45	28588.79
Lead Acid Batteries	0	0.00	10.09	0.00	0	0.00	0.00	6.38	0.00	0.00	0.00	0.00	16.47
Pallets	5.14	9.86	5.00	15.65	27.67	30.43	16.50	6.28	8.00	11.21	5.81	6.63	148.18
Single Stream (CLF)	290.27	220.37	334.15	365.86	335.63	391.10	401.26	359.26	350.74	342.26	355.45	378.58	4124.93
Single Stream (WL&SR) to plant direct	67.52	58.25	70.71	49.42	30.44	43.10	0.00	0.00	0.00	0.00	0.00	0.00	319.44
Appliances/ Scrap Metal	0	19.99	157.24	0.00	50.86	105.12	0.00	0.00	190.33	0.00	0.00	111.75	635.29
Mulch	0	1629.25	5187.00	7215.25	3258.5	7165.62	9702.00	2695.00	0.00	9702	358.39	221.26	47134.27
Compost	0	0.00	133.71	2.43	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	136.14
E-Cycling	20.58	7.41	17.34	15.76	17.95	12.59	25.25	12.85	15.61	16.87	16.84	13.18	192.23
Fluorescent Lamps (CLF)	0.24	0.95	0.18	0.30	0.17	0.21	0.56	0.51	0.50	0.95	0.50	0.30	5.37
Fluorescent Lamps (WL&SR)	0.17	0.00	0.00	0.34	0	0.44	0.00	0.56	0.40	0.30	0.25	0.10	2.56
Textiles	0	0.00	0.00	6.56	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.56
Ink Cartridges	0.1	0.004	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.02	0.02	0.23
Rechargeable Batteries	0.12	0.00	0.04	0.15	0.1	0.15	0.04	0.05	0.20	0.20	0.00	0.20	1.25
Cork	0.00125	0.0010	0.002	0.00	0.001	0.0001	0.0010	0.0010	0.00	0.00	0.00	0.002	0.01
Vinyl Siding	0	0.00	0.00	0.00	4.02	1.95	2.65	3.50	0.06	0.09	2.02	0.00	14.29
Eyewear	0.001	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Recycling Total	384.14	1946.08	5915.48	7671.73	3725.35	7750.73	10148.27	3084.40	565.85	10072.34	739.28	732.02	52737.23
Recycling Rate	5.90%	29.96%	43.39%	47.44%	34.07%	49.84%	57.45%	29.57%	8.01%	61.58%	11.03%	11.21%	39.35%
TOTAL WASTE for SWIRepor	7813.60	7498.76	15745.14	18611.05	13278.53	18495.61	21897.37	12316.35	10665.85	18933.09	9013.21	8034.94	162303.51
SSR COMPACTION AVERAGES/ \$ SAVINGS LANDFILL													
Tons of Single Stream shipped from LF	290.27	220.37	334.15	365.86	335.63	391.1	401.26	352.77	350.74	342.26	355.45	378.58	4118.44
# Loads pulled by Bestrans from landfill	31	22	35	37	36	43	42	37	35	31	35	39	423
Average tons per trailer	9.4	10.0	9.5	9.9	9.3	9.1	9.6	9.5	10.0	11	10	10	9.7
Cell Tire Formula: (Tons*2000)/100 lbs =													
Tire Handling Fee \$25/each	19	32	38	30	99	115	72	54	77	90	107	84	817
Cell Tires (per tire)	137	29	76.8	74	76	79	56	49	61	63	48	38	785.8
# Loads Charged mixed tires & ref	2	0	0	2	1	0	0	0	1	0	0	0	6
% Tires Charged in Cell	14%	110%	49%	41%	130%	146%	129%	111%	126%	144%	223%	223%	104%
Total Waste Landfilled (Tons) =													88393.12

*Rows highlighted in blue represent the waste that was disposed within the landfill.

CECIL COUNTY DEPARTMENT OF PUBLIC WORKS
CENTRAL LANDFILL - WASTE ACCEPTANCE RECORD

2011 Incoming	Jan.	Feb.	Mar.	April	May	Jun.*	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Residential	2015.21	1881.43	2520.90	2518.55	2654.47	2753.14	2338.41	2999.99	2693.50	2471.72	2646.22	2336.88	29830.42
Commercial	2407.32	2232.26	2898.91	2745.37	2840.86	3334.72	3045.74	2993.09	2557.84	2349.27	2196.59	2158.58	31760.55
Industrial	0.18	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18
Institutional	51.44	51.70	62.69	55.59	61.14	48.82	40.31	70.70	51.97	57.40	63.22	52.10	665.08
Homeowners	300.06	468.40	531.47	526.73	846.18	603.94	589.32	566.73	526.50	479.46	513.05	538.90	6490.74
Medications	0	0.00	0.00	0.18	0	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.43
Hazardous Waste (HH-W)	0	0.00	0.00	39.04	0	0.00	0.00	0.00	0.00	28.57	0.00	0.00	67.61
School Board Trash	69.2	98.71	91.03	59.01	38.68	52.89	0.00	22.65	55.01	63.32	69.21	55.06	674.77
Latex Paint Solidified/Disposed	2.7	1.50	0.88	12.60	2,787.5	3.08	0.58	0.55	0.02	0.75	0.25	0.10	25.79
Total M.R.A.	4846.111	4734.00	6105.88	5957.068	6444.1175	6794.585	6014.355	6653.71	5884.84	5450.739	5488.54	5141.62	69515.57
Land Clearing	1.87	20.38	25.57	0.00	0	0.11	0.00	60.15	54.48	0.00	30.21	0.00	192.77
C&D Bldg.	523.89	474.61	903.62	1063.08	1034.85	1137.55	906.73	1196.44	2238.63	1878.99	1261.54	904.81	13524.74
Dirt	109.83	59.23	515.64	674.90	423.23	323.12	1517.98	780.50	559.14	1087.57	507.81	689.58	7248.53
Concrete (stockpiled)	19.08	25.35	7.95	13.68	61.39	161.29	51.15	33.78	18.81	24.43	36.62	53.25	506.76
Asphalt (stockpiled)	0	5.02	0.00	14.66	22.85	23.58	595.78	23.58	9.25	43.09	107.77	743.30	1588.88
Bulky Objects/ Special Waste	0	2.87	3.96	3.74	40.26	40.80	35.96	2.80	66.28	5.17	4.86	1.96	208.68
Asbestos	0	0.13	0.00	0.00	0	0.00	0.18	2.90	0.43	0.56	0.00	0.00	4.20
Sludge	226.72	147.17	272.44	251.55	274.71	601.36	397.12	381.85	280.65	407.65	189.75	149.45	3580.42
Litter/ Special Waste	0.41	0.08	1.12	9.57	5.87	0.52	0.15	11.30	9.82	4.03	2.89	2.93	48.69
Oil - LF Only	1.81	1.47	8.14	4.01	6.27	3.62	5.16	3.15	3.50	3.15	5.25	1.9	47.39
Antifreeze - LF Only	0.00	0.00	2.45	0.00	0.00	2.45	0.00	0.00	0.00	0.00	0.00	0.00	4.90
Freon	0	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.03
Contaminated Soil/ Spec. Waste	0	0.00	0.00	2.31	0	4.13	0.23	0.00	0.00	3.84	0.00	0.23	10.74
Sharps	0.06	0.06	0.06	0.20	0.1	0.10	0.00	0.10	0.10	0.20	0.10	0.10	1.18
Vegetable Oil	0	0.00	0.00	0.57	0.15	0.20	0.15	0.20	0.15	0.20	0.40	0.10	2.12
Tires	8.97	4.67	25.00	41.49	38.92	27.29	35.97	8.29	9.03	11.52	12.73	9.08	232.96
Propane Tanks	0	0.00	0.00	0.60	0.00	0.00	0.00	4.37	0.00	1.80	0.00	0.00	6.77
Total Non M.R.A.	892.64	741.04	1765.95	2080.36	1908.61	2326.13	3546.58	2509.39	3249.84	3472.07	2160.49	2556.66	27209.76
Lead Acid Batteries	0	0.00	9.02	0.00	0	0.00	0.00	8.09	0.00	0.00	0.00	5.86	22.97
Pallets	7.59	5.38	4.93	17.58	16.72	3.30	12.67	12.99	5.69	9.62	1.60	3.57	101.84
Single Stream All Facilities leaving	344.71	371.56	515.53	451.68	455.65	533.30	497.70	523.22	539.70	474.16	465.98	437.69	5610.88
Appliances/ Scrap Metal	0	0.00	74.63	0.00	0	189.57	0.00	0.00	72.00	26.09	0.00	91.88	454.17
Mulch	0	0.00	2227.75	3145.45	1392.08	4019.40	3465.00	2520.00	1680.00	0	2668.05	365.75	21483.48
Compost	0	0.00	0.00	15.52	62.08	60.00	0.00	120.00	100.00	60.00	100.00	60.00	577.60
E-Cycling	11.33	4.70	18.51	11.47	10.71	17.83	13.47	26.34	8.73	26.68	19.79	11.20	180.76
Fluorescent Lamps (CLF)	0.10	0.50	0.30	0.46	0.00	0.54	0.00	0.00	0.57	0.44	0.32	0.39	3.62
Fluorescent Lamps (WL&SR)	0.00	0.10	0.10	0.10	0	0.10	0.00	0.00	0.13	0.00	0.00	0.11	0.64
Textiles	0	0.00	7.81	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.81
Ink Cartridges	0.01	0.010	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.04	0.02	0.02	0.23
Rechargeable Batteries	0.02	0.02	0.04	0.05	0	0.04	0.02	0.01	0.03	0.02	0.04	0.02	0.31
Cork	0	0.0000	0.0001	0.0001	0.0001	0.00	0.0001	0.000000	0.000100	0.00010	0.00	0.000	0.001
Vinyl Siding	0	0.00	3.59	0.00	3.39	3.04	0.00	3.52	0.00	0.00	0.00	3.76	17.30
Eyewear	0	0.00	0.00	0.00	0.0001	0.00	0.00	0.00	0.00	0.00	0.0001	0.00	0.00
Mercury Thermostats	0	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03
Propane Gas	0	0.00	0.00	0.00	0	0.00	0.00	4.37	0.00	0.00	0.00	0.00	4.37
Latex Paint Recycled	0	0.00	0.00	0.00	1.125	1.625	0.75	1.00	1.52	4.00	4.38	2.60	17.00
Household Batteries	0	0.00	0.00	0.00	0	0.0000	0.00	0.00	0.25	0.50	0.50	0.00	1.25
Braziers	0	0.00	0.00	0.00	0	0.0000	0.00	0.00	0.00	0.02	0.01	0.02	0.05
Used Oil Filters	0	0.00	0.00	0.00	0	0.100	0.00	0.20	0.00	0.00	0.20	0.00	0.50
Recycling Total	363.76	382.27	2862.23	3642.32	1941.78	4828.87	3988.63	3219.56	2408.64	601.75	3260.68	982.90	28484.81
Recycling Rate	6.98%	7.47%	31.82%	37.94%	23.16%	41.54%	39.88%	32.61%	29.04%	9.94%	37.27%	16.05%	29.07%
For SW Tonnage report	6102.51	5857.21	10733.96	11679.65	10294.50	13949.48	13550.56	12382.86	11543.19	9524.58	10909.92	8681.07	125209.50
SSR COMPACTION AVERAGES/ \$ SAVINGS LANDFILL													
Tons of Single Stream shipped to	344.71	371.56	515.53	451.68	455.65	533.3	497.7	523.22	539.7	474.16	465.98	437.69	5610.88
# Loads pulled by Bestrans from	31	34	43	38	42	50	47	44	42	37	39	38	485
Average tons per trailer	11.1	10.9	12.0	11.9	10.8	10.7	10.6	11.9	12.9	13	12	12	11.6
Cell Tire Formula: (Tons*2000)/6													
Tire Handling Fee \$25/each	67	36	117	143	124	110	73	97	69	78	66	45	1025
Cell Tires (per tire)	65	10	154	49	82	82	93	99	122	116	89	89	961
# Loads Charged mixed tires &c	0	0	0	0	0	0	0	0	0	0	0	0	0
% Tires Charged in Cell	103%	360%	76%	292%	151%	134%	79%	98%	57%	67%	74%	#DN/O!	107%
Note: decreased lb. per cell tire from 100 to 60 lb. each													
*Rows highlighted in blue represent the waste that was disposed within the landfill.													
Total Waste Landfilled (Tons) = 87017.77													

ANNUAL 2012 LANDFILL TONNAGES															Calendar Year 2012		
MRA WASTE		SWM METHOD	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	TOTAL		
HOMEOWNERS WASTE	1001 IN - Residential	Landfill	2395.94	2089.57	2371.09	2379.83	2540.45	2547.13	2616.20	2724.09	2356.73	2326.88	2563.60	2339.99	29251.50	29251.50	
	1002 IN - Commercial	Landfill	1914.93	1778.68	2185.87	2111.60	2517.24	2485.39	2626.74	2688.89	2207.47	2219.22	2316.83	1975.09	27007.95	27007.95	
	1003 IN - Industrial	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	1004 IN - Institutional	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	1016 IN - School Board MSW	Landfill	78.07	65.69	85.46	81.15	108.05	134.97	50.22	95.95	118.48	88.66	73.44	75.44	1055.58	1055.58	
MEDICAL WASTE	5002 Homeowner \$4 Trash & SSR	Landfill	192.20	182.50	209.20	199.90	215.90	235.60	225.90	221.10	202.40	193.70	202.00	222.30	2502.70	2502.70	
	5003 Homeowner \$10 Trash	Landfill	124.50	128.50	185.60	165.80	175.00	185.20	156.90	166.40	158.10	141.80	148.70	148.20	1884.70	1884.70	
	1021 IN - Woodlawn Refuse	Landfill	65.36	111.06	95.27	81.00	109.63	104.36	81.96	126.26	90.90	100.78	114.06	86.16	1166.80	1166.80	
	1024 IN - Stemmers Refuse	Landfill	28.65	20.10	37.97	28.60	30.20	29.58	31.46	39.28	19.41	33.20	37.70	19.53	355.68	355.68	
	1148 IN - Latex Paint Residual Waste	Landfill	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	2.00	0.00	1.00	0.00	5.00	5.00	
C&D	1131 OUT - Household Hazardous Was	Landfill	0.00	0.00	0.00	33.25	0.00	0.00	0.00	0.00	0.00	46.59	0.00	0.00	79.84	79.84	
	1135 OUT - Medications	WTE	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.28		
	1128 OUT - Sharps	Biomedical Incinerator	0.14	0.00	0.00	0.08	0.08	0.04	0.02	0.10	0.10	0.20	0.00	0.01	0.77		
	NON MRA WASTE																
	SWM METHOD		JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	63310.80		
UTTER / SPECIAL WASTE	1005 IN - Landclearing	Mulched	5.50	5.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.14	11.14	
	1006 IN - Demolition	Landfill	0.00	24.78	328.54	33.72	33.46	57.82	16.24	2.48	10.84	0.00	0.00	0.00	507.88	507.88	
	1007 IN - Construction	Landfill	758.69	703.11	1148.38	1155.77	1054.39	1054.40	1241.37	1353.89	1462.74	1272.24	1138.30	879.14	13222.42	13222.42	
	1008 IN - Dirt / Soil	Stockpiled/Reuse	630.20	374.55	1438.00	202.00	330.41	381.32	273.47	436.78	320.56	522.91	104.33	453.29	5467.82		
	1050 IN - Asphalt & 1087 Millings	Stockpiled/Reuse	5.51	0.00	29.93	90.17	47.09	12.61	0.00	26.43	1.03	1460.78	9.73	14.86	1698.14		
BULKY OBJECTS SPECIAL WASTE	1051 IN - Concrete	Stockpiled/Reuse	24.68	50.17	296.30	72.74	38.15	16.63	10.79	3.90	27.15	240.63	11.42	63.89	856.45		
	1019 IN - Litter	Landfill	10.02	1.07	4.69	6.55	0.16	0.85	0.00	2.58	0.00	0.47	0.41	0.46	27.26	27.26	
	1026 IN - Dead Animals	Landfill	0.07	0.68	0.00	0.13	0.07	0.00	0.07	1.14	0.22	0.67	0.70	5.28	9.03	9.03	
	1060 IN - 1/2 Waiver	Landfill	0.00	0.00	0.00	2.90	19.61	22.08	0.00	0.00	0.00	0.00	0.00	0.00	44.59	44.59	
	1082 IN - Full Waiver	Landfill	3.50	0.77	0.76	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.43	7.43	
CONTAMINATED SOIL / WASTE	1112 IN - Adopt a Road Litter	Landfill	0.00	0.00	0.10	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.60	0.60	
	1142 IN - Street Sweepings	Landfill	0.00	0.00	0.00	0.00	14.89	8.23	14.68	9.27	17.46	82.36	25.36	22.29	194.54	194.54	
	1012 IN - Treatment Plant Sludge	Landfill	375.46	360.70	572.89	508.99	380.44	433.78	344.59	413.47	378.57	366.01	283.80	264.48	4683.18	4683.18	
	1055 IN - Boat	Landfill	7.09	0.92	2.04	1.59	2.99	1.32	7.39	0.00	1.00	7.62	0.00	1.53	33.49	33.49	
	1059 IN - Mobile Home / 1143 IN - Car	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.79	17.46	23.21	15.03	8.83	68.32	68.32	
NON MRA RECYCLABLES	1014 IN - Asbestos	Landfill	0.00	0.00	0.00	0.10	0.84	1.91	0.00	0.65	1.00	0.52	0.00	0.07	5.09	5.09	
	1020 IN - Contaminated Soil	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	2.84	0.00	0.00	0.00	10.67	0.00	13.31	13.31	
	1061 IN - Stall Waste	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	1052 OUT - Tires	WTE	23.52	25.81	16.41	13.38	15.50	6.68	5.56	21.66	9.76	18.35	13.78	8.38	178.79		
	NON MRA RECYCLABLES		SWM METHOD	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	27029.48	8218.03
MIXED YARD WASTE	1119 OUT - Motor Oil	Recycle	2.38	2.00	2.50	9.80	2.69	2.50	4.14	7.83	8.97	7.01	4.90	5.60	60.32	60.32	
	1136 OUT - Antifreeze	Recycle	0.00	0.00	1.49	0.00	0.00	0.00	0.00	1.87	0.00	0.00	0.00	0.00	3.36	3.36	
	1137 OUT - Refrigerant (Freon)	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.01	
	1127 OUT - Vegetable Oil	Recycle	2.01	0.00	0.00	0.00	0.09	0.00	0.01	0.12	0.01	0.17	0.08	0.33	2.82	2.82	
	1111 OUT - Propane	Recycle	0.00	0.00	0.00	0.00	0.00	4.85	0.00	0.00	0.00	0.00	0.00	0.00	4.85	4.85	
BATTERIES	1009 IN - Stumps & Logs	Recycle	0.00	0.00	31.73	127.06	8.56	47.87	28.58	32.98	16.80	6.43	28.14	23.60	351.75	351.75	
	MRA RECYCLABLES		SWM METHOD	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	423.11	
	1138 - Processed Mulch	Recycle	285.00	498.75	142.50	450.00	570.00	247.50	2598.75	1312.50	0.00	1039.50	222.75	498.75	7866.00	7866.00	
	1046 IN - Compost	Recycle	0.00	2.18	2.18	2.10	22.35	79.75	0.00	1808.77	0.00	470.63	275.10	2838.00	5501.06	5501.06	
	1096 IN - Pallets	Recycle	0.00	0.50	1.40	2.61	5.16	3.81	2.59	7.07	2.16	0.37	0.75	0.00	26.42	26.42	
METALS	1025 IN - Sod	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	1097 OUT - Single Stream Recycling Is	Recycle	468.88	355.44	421.21	367.02	384.70	452.21	392.80	438.09	382.39	407.85	468.63	362.38	4902.80	4902.80	
	OUT - Shredded Paper	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.42	0.00	3.42	
	1053 OUT - Lead Acid Batteries	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.81	0.00	0.00	0.00	3.30	0.87	12.78	
	1120 OUT - Household Batteries	Recycle	2.48	0.00	0.00	0.00	0.72	0.00	0.00	1.80	0.00	0.00	0.45	0.00	5.45	5.45	
E-WASTE	1121 OUT - Rechargeable Batteries	Recycle	0.08	0.00	0.12	0.08	0.08	0.06	0.05	0.15	0.00	0.08	0.06	0.06	0.82	0.82	
	1117 OUT - Textiles	Recycle	9.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.93	0.00	0.00	16.20	16.20	
	1044 OUT - Scrap Metal / Appliances	Recycle	6.74	0.00	32.50	56.13	31.62	0.00	47.42	53.15	22.79	15.24	0.00	0.00	265.59	265.59	
	1116 OUT - Metal Tire Rims #1 Steel	Recycle	9.39	0.00	8.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.49	0.00	19.85	19.85	
	1130 OUT - Oil Filters	Recycle	0.00	0.15	0.00	0.00	0.10	0.10	0.00	0.15	0.15	0.00	0.00	0.00	0.65	0.65	
TIRES	1124 OUT - Mercury Thermostats	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.02	0.02	
	1126 OUT - Corks	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	
	1088 OUT - Electronics	Recycle	11.41	33.89	11.98	37.54	10.54	22.95	20.20	23.30	9.68	32.91	21.93	12.38	248.71	248.71	
	1139 OUT - Printer Cartridges	Recycle	0.04	0.00	0.05	0.05	0.06	0.02	0.03	0.01	0.02	0.01	0.01	0.02	0.32	0.32	
	1101 OUT - Vinyl Siding	Recycle	0.00	0.00	4.54	0.00	3.54	0.00	1.90	2.79	0.00	2.91	0.00	0.00	15.68	15.68	
TOTAL	1052 OUT - Tires (Recycled)	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	3.00	3.00	
	1098 OUT - Citizen Scrap Tires (Recycl	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	1125 OUT - Eyewear	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0003	0.0003	
	1123 OUT - Latex Paint (Recycled)	Recycle	2.01	2.00	2.00	2.00	2.01	2.00	2.00	2.01	2.00	2.01	1.98	2.00	24.02	24.02	
	1118 OUT - Fluorescent Lamps	Recycle	0.48	0.08	0.43	0.55	0.00	0.52	0.50	0.19	0.33	0.37	0.28	0.30	4.03	4.03	
	1123 OUT - Bra Recycling	Recycle	0.03	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.06	0.06	
	1132 OUT - Polystyrene	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.14	0.15	
	Total Solid Waste Accept per Mo		7445.23	6819.29	9672.10	8226.84	8676.77	8566.04	10805.17	12042.71	7848.70	11139.38	8104.55	10333.45			

ANNUAL 2013 LANDFILL TONNAGES																	Calendar Year 2013
MRA WASTE		SWM METHOD	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	TOTAL		
HOMEOWNERS	1001 IN - Residential	Landfill	2307,43	1850,03	2109,66	2674,11	2560,47	2451,62	2817,44	2572,83	2412,55	2396,61	2170,65	2485,70	28799,10	28799,10	
	1002 IN - Commercial	Landfill	2046,24	1812,00	1993,26	2178,33	2583,22	2247,16	2610,56	2528,86	2096,25	2010,31	1901,86	2049,63	26061,80	26061,80	
	1003 IN - Industrial	Landfill	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	
	1004 IN - Institutional	Landfill	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	
	1016 IN - School Board MSW	Landfill	80,41	78,69	83,50	96,32	57,17	104,96	0,27	12,37	93,16	159,06	176,94	102,10	1046,92	1046,92	
	5002 Homeowner \$5 Trash & SSR	Landfill	186,20	164,10	189,20	189,20	201,60	210,30	212,00	215,91	177,91	177,10	184,00	192,50	2300,03	2300,03	
	5003 Homeowner \$10 Trash / \$11 (7/11/13)	Landfill	128,00	113,70	159,10	171,40	174,60	179,00	162,50	162,90	118,70	134,61	138,50	121,30	1764,31	1764,31	
	1021 IN - Woodawn Refuse	Landfill	125,24	79,64	95,81	99,56	108,53	103,26	99,88	107,20	77,16	94,82	100,40	77,20	1168,75	1168,75	
	1024 IN - Stemmers Refuse	Landfill	31,77	30,91	15,22	29,13	36,71	31,25	41,57	25,94	17,86	37,24	23,13	31,25	352,04	352,04	
	1148 IN - Latex Paint Residual Waste	Landfill	0,50	0,25	0,20	0,15	0,22	0,10	0,10	0,10	0,11	0,22	0,00	0,00	1,99	1,99	
MEDICAL WASTE	1131 OUT - Household Hazardous Waste	Landfill	0,00	0,00	0,00	0,00	27,76	0,00	0,00	0,00	0,00	0,00	25,00	0,00	52,76	52,76	
	1135 OUT - Medications	WTE	0,00	0,00	0,00	0,25	0,00	0,00	0,00	0,00	0,00	0,25	0,00	0,00	0,50	0,50	
	1128 OUT - Sharps	Biomedical Incinerator	0,10	0,10	0,10	0,10	0,10	0,00	0,16	0,10	0,00	0,16	0,16	0,10	1,20	1,20	
	NON MRA WASTE		SWM METHOD	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	61549,42	
	1005 IN - Landclearing	Mulched	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
	1006 IN - Demolition	Landfill	55,13	61,74	35,82	45,18	5,71	2,76	0,00	0,00	0,00	17,00	1,49	0,00	224,83	224,83	
	1007 IN - Construction	Landfill	990,29	693,80	1125,06	1489,76	1840,19	1512,34	1714,56	2072,27	2011,04	1830,48	1459,22	11569,47	28308,48	28308,48	
	1008 IN - Dirt / Soil	Stockpiled/Reuse	241,54	404,44	495,59	544,49	407,94	320,25	362,46	657,13	507,18	530,31	708,40	539,72	5719,85		
	1008.1 IN - Topsoil (no charge)	Stockpiled/Reuse	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	
	1050 IN - Asphalt & 1087 Millings	Stockpiled/Reuse	3,31	19,18	9,65	11,02	28,42	93,62	58,60	37,61	47,20	36,26	21,57	9,92	376,36		
UTILITY / SPECIAL WASTE	1051 IN - Concrete	Stockpiled/Reuse	3,00	21,56	24,11	9,84	58,86	25,99	17,95	13,00	52,42	9,99	12,07	6,46	255,25		
	1019 IN - Litter	Landfill	0,58	3,82	0,85	0,08	0,26	0,49	1,82	1,90	10,92	4,02	1,41	0,53	26,68	26,68	
	1026 IN - Dead Animals	Landfill	0,09	0,12	1,10	0,44	1,57	0,64	0,26	0,64	0,26	0,35	0,27	0,16	5,89	5,89	
	1060 IN - 1/2 Waiver	Landfill	0,00	0,00	0,00	0,67	2,96	0,00	0,00	0,00	0,00	0,00	0,00	0,00	3,63	3,63	
	1082 IN - Full Waiver	Landfill	0,00	0,00	0,85	0,76	10,24	0,13	0,60	0,00	0,00	1,64	0,00	0,00	14,22	14,22	
	1112 IN - Adopt a Road Litter	Landfill	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	
	1142 IN - Street Sweepings	Landfill	20,76	13,06	13,09	15,53	22,66	11,95	41,53	237,06	52,56	46,88	177,64	7,94	660,66	660,66	
	1012 IN - Treatment Plant Sludge	Landfill	320,30	381,24	542,17	835,56	490,60	462,63	378,19	453,96	424,62	476,71	252,41	328,00	5346,39	5346,39	
	1055 IN - Boat	Landfill	0,84	3,51	0,89	9,79	4,56	6,03	2,33	4,44	0,24	7,54	0,07	2,04	42,28	42,28	
	1059 IN - Mobile Home	Landfill	0,00	0,00	0,00	0,00	0,90	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,90	0,90	
BULKY / SPECIAL WASTE	145 IN - Special Handling Wastes	Landfill	0,00	0,00	0,00	0,00	0,00	0,00	0,50	0,00	0,00	0,00	0,00	0,00	0,50	0,50	
	143 IN - Carpet	Landfill	11,11	8,59	9,64	11,96	11,59	13,18	8,76	3,88	3,78	5,98	3,48	4,92	96,87	96,87	
	1014 IN - Asbestos	Landfill	1,22	0,00	0,00	0,03	0,00	0,00	0,00	0,00	0,03	0,00	0,00	0,00	1,28	1,28	
	1020 IN - Contaminated Soil	Landfill	0,00	0,37	0,00	0,39	0,00	0,00	0,00	0,00	3,86	1,00	0,00	0,00	5,62	5,62	
	1061 IN - Stall Waste	Landfill	0,00	0,00	0,00	0,00	0,00	0,00	0,16	0,00	0,00	0,00	0,00	0,00	0,16	0,16	
	1052 OUT - Tires	WTE	7,69	0,00	14,58	8,29	16,33	11,38	16,27	16,96	3,76	19,02	9,44	6,97	130,69	130,69	
	NON MRA RECYCLABLES		SWM METHOD	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	41220,54	96285,95
	1119 OUT - Motor Oil	Recycle	0,49	0,40	6,40	6,26	6,00	9,19	4,06	5,39	2,24	4,28	3,88	0,74	49,33		
	1136 OUT - Antifreeze	Recycle	0,00	1,32	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	1,32		
	1137 OUT - Refrigerant (Freon)	Recycle	0,00	0,01	0,00	0,01000	0,00	0,01	0,01	0,01	0,00	0,01	0,00	0,00	0,06		
1127 OUT - Vegetable Oil	Recycle	0,16	0,00	0,21	0,21	0,07	0,16	0,00	0,39	0,00	0,29	0,00	0,38	1,87			
MRA RECYCLABLES	1111 OUT - Propane tanks	Recycle	0,00	0,00	0,00	0,00	1,86	0,00	0,00	3,10	0,00	0,00	0,00	0,00	4,96		
	MRA RECYCLABLES		SWM METHOD	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	57,54	
	1138 - Processed Mulch (from grinders)	Recycle	71,25	213,75	0,00	556,13	498,75	346,50	990,00	487,50	225,00	575,19	222,75	427,50	4616,32		
	Compost	Recycle	0,00	706,85	176,24	10,45	76,99	0,00	0,00	0,00	0,00	0,00	0,00	721,26	1691,79		
	1097 OUT - Single Stream Recycling leaving CLF	Recycle	409,91	315,09	383,46	360,69	419,86	480,30	495,92	420,47	407,45	445,63	387,72	494,89	5021,39		
	OUT - Shredded Paper	Recycle	0,00	0,00	3,14	0,00	0,00	2,98	0,00	0,00	2,16	0,00	2,28	0,00	10,56		
	1053 OUT - Lead Acid Batteries	Recycle	0,70	0,00	1,41	2,52	0,75	1,18	1,21	1,40	0,80	1,77	0,51	0,64	12,89		
	120 OUT - Household Batteries	Recycle	0,00	1,80	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,90	0,00	0,00	2,70		
	121 OUT - Rechargeable Batteries	Recycle	0,12	0,10	0,00	0,12	0,04	0,04	0,04	0,04	0,04	0,08	0,00	0,10	0,72		
	1117 OUT - Textiles	Recycle	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	7,22	0,00	0,00	0,00	7,22		
METALS	1044 OUT - Scrap Metal / Appliances	Recycle	0,00	26,90	92,75	39,45	30,44	8,60	41,60	31,95	38,09	20,29	35,82	38,12	403,91		
	1044.1 OUT - Roads Scrap Metal	Recycle	0,00	0,00	0,00	0,00	0,00	0,00	0,00	8,45	0,00	15,66	4,90	2,47	31,48		
	1116 OUT - Metal Tire Rims #1 Steel	Recycle	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	6,36	6,41		
	130 OUT - Oil Filters	Recycle	0,20	0,00	0,00	0,00	0,00	0,20	0,00	0,00	0,25	0,00	0,00	0,00	0,65		
	124 OUT - Mercury Thermostats	Recycle	0,00	0,00	0,00	0,01	0,00	0,00	0,00	0,00	0,00	0,00	0,01	0,00	0,02		
	1126 OUT - Corks	Recycle	0,0000	0,0000	0,0000	0,0000	0,0050	0,0050	0,0050	0,0000	0,0000	0,0050	0,0000	0,0050	0,03		
	1088 OUT - Electronics	Recycle	21,07	25,13	13,95	25,16	32,73	11,15	33,73	12,66	21,23	38,52	10,33	21,25	266,91		
	1139 OUT - Printer Cartridges	Recycle	0,04	0,00	0,00	0,00	0,00	0,05	0,00	0,00	0,03	0,01	0,00	0,00	0,13		
	1101 OUT - Vinyl Siding	Recycle	2,90	0,00	0,00	3,92	0,00	3,08	0,00	2,50	0,00	3,06	0,00	0,00	15,46		
	1052 OUT - Tires (Recycled)	Recycle	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00		
TIRE S	1098 OUT - Citizen Scrap Tires (Recycled)	Recycle	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	35,45	0,00	13,71	0,00	49,16		
	1125 OUT - Eyewear	Recycle	0,0000	0,0000	0,00	0,0000	0,00	0,01	0,00	0,00	0,00	0,00	0,0000	0,00	0,01		
	1123 OUT - Latex Paint (Recycled)	Recycle	2,01	1,99	2,00	2,50	3,00	3,50	3,51	3,49	3,50	4,00	3,50	3,50	36,50		
	1118 OUT - Fluorescent Lamps	Recycle	0,31	0,23	0,30	0,44	0,33	0,42	0,00	0,34	0,34	0,17	0,64	0,00	3,52		
METALS	1123 OUT - Bra Recycling	Recycle	0,01	0,00	0,00	0,00	0,025	0,03	0,00	0,00	0,00	0,00	0,00	0,00	0,06		
	1123 OUT - Polystyrene	Recycle	0,000	0,1400	0,1000	0,1900	0,1200	0,0900	0,3700	0,1200	0,1500	0,2100	0,3700	0,0900	1,99		
TOTAL ALL WASTE AND RECYCLING			7070,96	7034,53	7599,83	9463,24	9696,38	8656,60	10118,83	10102,89	8658,59	9122,64	8200,55	19253,29	115007,31		

ANNUAL 2014 LANDFILL TONNAGES																	
MRA WASTE		SWM METHOD	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	TOTAL		
HOMEOWNER WASTE	1001 IN - Residential	Landfill	2160.20	1857.02	2110.03	2520.12	2606.57	2531.57	2784.72	2501.37	2614.40	2423.42	2178.82	2682.33	28970.570	28970.57	
	1002 IN - Commercial	Landfill	1936.32	1852.37	1963.16	2478.13	2687.60	2597.73	2653.64	2336.32	2490.18	2386.06	1968.56	2191.68	27578.750	27578.75	
	1003 IN - Industrial	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	
	1004 IN - Institutional	Landfill	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.430	1.43	
	1016 IN - School Board MSW	Landfill	64.68	5.17	57.73	0.00	9.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	136.890	136.89	
	5002 Homeowner Trash & SSR	Landfill	153.60	147.90	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	301.790	301.79
HOUSEHOLD WASTE	5003 Homeowner / 6000 Non Scale Refuse	Landfill	92.20	94.60	40.67	139.55	168.33	126.15	149.29	154.88	135.37	126.15	129.48	154.45	1511.120	1511.12	
	1021 IN - Woodlawn Refuse	Landfill	99.47	81.61	66.47	99.09	122.28	86.43	98.27	78.04	94.58	85.92	74.48	89.57	1079.210	1079.21	
	1024 IN - Stemmers Refuse	Landfill	28.32	20.15	25.04	37.57	26.87	20.04	25.64	37.01	26.61	23.34	35.77	20.51	326.870	326.87	
	1148 IN - Latex Paint Residual Waste	Landfill	2.50	0.00	2.00	3.00	0.00	2.00	1.50	0.00	1.50	3.00	2.00	1.00	18.500	18.50	
	1131 OUT - Household Hazardous Waste	Landfill	0.00	0.00	0.00	26.86	0.00	0.00	0.00	0.00	0.00	53.68	0.00	0.00	80.540	80.54	
	1135 OUT - Medications	WTE	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.400	0.40	
MEDICAL WASTE	1128 OUT - Sharps	Biomedical Incinerator	0.00	0.00	0.08	0.00	0.28	0.00	0.02	0.02	0.02	0.04	0.06	0.02	0.540	0.54	
	NON MRA WASTE		SWM METHOD	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	60006.610	
COLD WASTE	1005 IN - Landclearing	Mulched	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	
	1006 IN - Demolition + 1082.1 Full Waiver (	Landfill	0.00	0.00	39.34	43.18	183.55	33.84	2.94	7.70	126.63	76.13	0.00	137.96	651.270	651.27	
	1007 IN - Construction	Landfill	873.85	788.93	1125.38	1722.94	1999.53	1928.53	1929.80	1846.26	1778.26	1955.91	1155.36	1552.31	18657.060	18657.06	
	1008 IN - Dirt / Soil & 1008.2 Ditch Spoils	Landfilled	94.69	194.15	501.05	231.09	603.90	994.50	6259.92	283.62	368.68	71.74	178.19	218.26	10000.790	10000.79	
	1008.1 IN - Topsoil (no charge)	Stockpiled/Reuse	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1026.26	64.87	0.00	1091.130	1091.13	
	1050 IN - Asphalt	Landfilled	0.00	0.00	6.18	7.49	68.38	31.94	30.95	6.64	21.80	33.82	0.00	0.00	207.200	207.20	
HOT / SPILL / SPECIAL WASTE	1041 IN - Asphalt Stockpiled & 1087 Milling	Stockpiled/Reuse	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	
	1051 IN - Concrete	Landfilled	0.58	0.00	3.85	16.12	92.14	10.90	13.43	13.54	250.73	392.10	0.00	0.00	793.390	793.39	
	1051.1 IN - Concrete Stockpiled	Stockpiled/Reuse	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.86	178.77	58.40	292.030	292.03	
	1019 IN - Litter	Landfill	0.90	0.00	0.47	2.40	0.77	0.30	0.10	0.30	0.30	0.00	0.00	0.18	5.720	5.72	
	1026 IN - Dead Animals	Landfill	0.09	0.78	0.11	0.12	0.22	0.00	0.00	0.30	0.38	0.73	0.28	0.55	3.560	3.56	
	1060 IN - 1/2 Waiver	Landfill	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.040	0.04	
	1082 IN - Full Waiver	Landfill	0.00	0.00	0.00	4.85	2.74	0.37	0.00	0.00	0.57	0.08	0.00	0.00	8.610	8.61	
	1112 IN - Adopt a Road Litter	Landfill	0.00	0.00	0.00	0.00	0.10	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.200	0.20	
	1142 IN - Street Sweepings	Landfill	1.93	3.02	34.04	67.13	33.48	25.20	17.88	29.84	20.37	33.57	15.74	58.51	340.510	340.51	
	1012 IN - Treatment Plant Sludge	Landfill	189.32	287.65	387.62	450.49	413.54	358.30	401.92	422.35	247.36	245.05	185.99	341.24	3930.830	3930.83	
BULKY OBJECTS / SPECIAL WASTE	1055 IN - Boat	Landfill	0.00	0.00	4.16	0.85	2.66	0.94	9.92	1.54	2.96	9.23	2.66	2.06	36.980	36.98	
	1059 IN - Mobile Home	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	
	1145 IN - Special Handling Wastes	Landfill	0.00	0.00	0.00	0.00	1.27	0.47	0.00	0.00	0.00	0.00	0.00	0.00	1.740	1.74	
	1143 IN - Carpet	Landfill	4.60	4.98	6.83	7.99	5.21	2.98	4.27	7.95	4.09	7.28	6.48	6.39	69.050	69.05	
	1014 IN - Asbestos	Landfill	0.00	0.03	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.160	0.16	
	1020 IN - Contaminated Soil	Landfill	0.00	31.52	8.32	7.33	0.00	0.00	6.41	0.00	0.00	0.00	0.00	0.00	53.580	53.58	
MISCELLANEOUS WASTE	1061 IN - Stall Waste	Landfill	0.00	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.740	0.74	
	1052 OUT - Tires	WTE	9.16	6.32	11.62	22.54	23.82	8.49	16.54	8.09	8.49	20.81	9.21	6.73	152.920	152.92	
NON MRA RECYCLABLES	SWM METHOD		JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	35297.410	35297.41	
	1119 OUT - Motor Oil	Recycle	2.08	1.01	2.29	5.50	5.50	1.80	6.42	7.40	2.00	4.40	2.60	4.80	45.800	45.80	
	1136 OUT - Antifreeze	Recycle	0.00	0.00	2.12	0.00	0.00	0.00	0.00	1.23	0.00	0.00	0.00	0.00	3.350	3.35	
	1137 OUT - Refrigerant (Freon)	Recycle	0.00	0.00	0.01	0.01000	0.00	0.00	0.01	0.00	0.01	0.00	0.01	0.02	0.070	0.07	
	1127 OUT - Vegetable Oil	Recycle	0.00	0.08	0.36	0.00	0.41	0.00	0.00	0.51	0.00	0.39	0.00	0.00	1.750	1.75	
	1111 OUT - Propane tanks	Recycle	0.00	0.00	0.00	2.29	0.00	0.00	0.00	0.00	0.00	0.00	2.45	0.00	4.740	4.74	
	1009 IN - Stumps & Logs	Recycle	9.77	9.09	9.99	16.31	36.64	14.98	28.94	22.76	8.38	2.43	7.25	28.66	197.200	197.20	
	MRA RECYCLABLES		SWM METHOD	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	252.510	252.51
	1138 - Processed Mulch	Recycle	0.00	275.00	136.25	682.50	440.50	0.00	737.50	480.13	500.00	50.00	249.50	297.50	3848.880	3848.88	
	1046 IN - Compost	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	
MIXED YARD WASTE	Stockpiled Yard Waste (Leaves & Grass)	Recycle	0.00	0.00	0.00	0.00	0.00 need	0.00	0.00	0.00	0.00	0.00	327.48	0.00	327.480	327.48	
	1096 IN - Pallets	Recycle	0.00	1.83	1.14	5.20	1.36	0.12	1.56	0.92	0.67	1.70	1.66	0.83	16.990	16.99	
	1025 IN - Sod	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	
	1146 IN - Woodchips	Recycle	8.05	0.00	0.00	3.29	0.00	0.00	1.74	4.67	1.79	0.00	6.73	0.36	26.600	26.60	
	1097 OUT - Single Stream Recycling leavin	Recycle	425.37	352.05	422.00	431.12	484.26	455.93	484.05	459.64	470.78	470.26	439.08	504.48	5399.020	5399.02	
	OUT - Shredded Paper	Recycle	0.00	0.00	3.16	0.00	0.00	2.48	0.00	0.00	2.86	0.00	1.30	0.00	9.800	9.80	
	1053 OUT - Lead Acid Batteries	Recycle	0.51	0.00	0.52	2.44	0.74	0.64	1.83	0.55	1.33	1.01	0.67	0.57	10.810	10.81	
	1120 OUT - Household Batteries	Recycle	0.00	0.00	0.00	0.00	0.00	1.50	0.00	0.00	0.00	0.00	0.00	0.00	1.500	1.50	
	1121 OUT - Rechargeable Batteries	Recycle	0.04	0.00	0.00	0.00	0.04	0.04	0.02	0.04	0.05	0.03	0.00	0.00	0.260	0.26	
	1117 OUT - Textiles	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	8.52	0.00	0.00	0.00	0.00	0.00	8.520	8.52	
METALS	1044 OUT - Scrap Metal / Appliances	Recycle	48.82	0.13	10.74	18.12	14.79	28.06	9.08	34.36	39.49	15.14	25.15	18.31	262.190	262.19	
	1044.1 OUT - Roads Scrap Metal	Recycle	7.63	0.00	0.00	9.04	6.96	4.56	0.00	6.40	0.00	11.15	4.28	0.00	50.020	50.02	
	1116 OUT - Metal Tire Rims #1 Steel	Recycle	0.00	0.00	0.00	0.00	0.00	3.84	0.00	0.00	0.47	0.00	0.98	0.00	5.090	5.09	
	1130 OUT - Oil Filters	Recycle	0.00	0.00	0.00	0.00	0.15	0.15	0.00	0.00	0.00	0.10	0.00	0.00	0.400	0.40	
	1124 OUT - Mercury Thermostats	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	
	1126 OUT - Corks	Recycle	0.0000	0.0000	0.0001	0.0000	0.0000	0.0000	0.0001	0.0000	0.0001	0.0000	0.0000	0.0001	0.0001	0.000	0.00
E-WASTE	1088 OUT - Electronics	Recycle	17.83	8.48	24.36	27.16	18.13	19.50	26.76	15.66	27.41	26.05	16.75	26.17	254.060	254.06	
	1139 OUT - Printer Cartridges	Recycle	0.03	0.00	0.00	0.00	0.00	0.04	0.02	0.00	0.01	0.00	0.00	0.00	0.100	0.10	
	1101 OUT - Vinyl Siding	Recycle	0.00	0.00	0.61	0.00	2.61	0.00	2.74	0.00	2.88	0.00	1.64	0.00	9.670	9.67	
	1052 OUT - Tires (Recycled)	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	
	1098 OUT - Citizen Scrap Tires (Recycled)	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	
	1125 OUT - Eyewear	Recycle	0.0000	0.0000	0.00	0.0000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.00	0.00	
TIRES	1123 OUT - Latex Paint (Recycled)	Recycle	0.00	0.00	0.00	3.50	3.00	3.50	3.00	3.50	3.50	3.00	2.00				

		ANNUAL 2015 LANDFILL TONNAGES												TOTAL		
		JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC			
HOMECOM	MRA WASTE	SWIM METHOD														
	1001 IN - Residential	Landfill	2156.05	1786.85	2381.32	2576.83	2541.05	2871.20	2797.45	2631.52	2587.38	2379.60	2491.39	2664.95	28865.59	
	1002 IN - Commercial	Landfill	1925.00	1660.56	2270.48	2345.74	2291.87	2874.35	2738.26	2506.85	2346.76	2297.45	2048.36	2251.96	27361.54	
	1003 IN - Industrial	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	1004 IN - Institutional	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	1016 IN - School Board MSW	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	5002 Homeowner Trash & SSR	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	5003 Homeowner / 6000 Non Scale Refuse	Landfill	120.07	112.92	153.82	167.73	174.76	178.11	190.94	176.27	151.13	163.62	159.60	173.34	1923.51	
	1021 IN - Woodawn Refuse	Landfill	99.92	61.39	70.55	96.03	99.67	78.63	108.46	79.27	87.95	88.79	65.26	97.92	1033.84	
	1024 IN - Stemmers Refuse	Landfill	25.34	22.28	28.37	31.11	22.29	35.04	22.27	32.79	27.95	30.96	19.53	31.30	329.24	
	1148 IN - Latex Paint Residual Waste	Landfill	0.00	7.41	2.00	6.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	31.41	
	1131 OUT - Household Hazardous Waste	Landfill	0.00	0.00	0.00	36.17	0.00	0.00	0.00	0.00	0.00	19.68	0.00	0.00	49.85	
	1135 OUT - Medications	WTE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	
	1128 OUT - Sharps	omedical Incinerat	0.10	0.00	0.10	0.14	0.00	0.00	0.01	0.01	0.01	0.16	0.00	0.00	0.53	
C&E	NON MRA WASTE	SWIM METHOD														
	1005 IN - Landclearing	Mulched	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	1006 IN - Demolition + 1082.1 Full Waiver C&E	Landfill	41.44	0.00	20.65	2.20	11.43	145.19	36.80	49.90	75.61	74.11	1075.00	0.00	1535.33	
	1007 IN - Construction+1060.1 Half Waiver C&E	Landfill	928.65	1215.27	1197.58	1607.39	1685.07	1770.49	1694.05	1630.11	1535.40	1610.84	1478.25	1441.78	17795.88	
	1008 IN - Dirt / Soil & 1008.2 Ditch Spoils	Landfilled	46.53	115.67	250.56	623.61	212.66	193.83	254.05	318.77	259.74	640.57	166.63	182.71	3274.33	
	1008.1 IN - Topsoil (no charge)	Stockpiled/Reuse	0.00	0.00	0.00	0.00	391.43	118.28	204.37	12.00	157.16	15.06	88.25	40.53	1027.09	
	1050 IN - Asphalt	Landfilled	0.00	2.08	0.00	9.94	12.86	70.32	3.32	5.17	7.45	42.05	0.00	22.08	175.27	
	1041 IN - Asphalt Stockpiled & 1087 Millings	Stockpiled/Reuse	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	1051 IN - Concrete	Landfilled	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.39	
	1051.1 IN - Concrete Stockpiled	Stockpiled/Reuse	81.58	714.32	401.03	192.01	86.95	283.59	16.23	19.11	105.95	102.73	28.02	13.99	2045.51	
	1019 IN - Litter	Landfill	0.00	0.55	1.52	2.92	2.09	0.32	0.00	0.28	0.11	0.30	0.69	0.14	8.92	
	1026 IN - Dead Animals	Landfill	0.05	0.00	0.12	0.10	0.02	0.23	0.00	0.06	0.11	3.67	1.04	2.34	7.74	
	1060 IN - 1/2 Waiver	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	1082 IN - Full Waiver	Landfill	0.00	0.00	0.00	3.87	2.41	0.00	0.00	0.00	0.22	0.00	0.00	0.00	6.50	
1112 IN - Adopt a Road Litter	Landfill	0.10	0.10	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30		
UTTER / SPECIAL	1142 IN - Street Sweepings	Landfill	8.48	4.60	27.05	22.78	48.73	20.94	47.71	13.23	30.47	28.42	18.32	15.90	286.63	
	1012 IN - Treatment Plant Sludge	Landfill	356.75	227.16	306.48	406.24	447.06	395.35	219.06	450.91	288.81	309.58	258.76	90.59	3756.75	
	1055 IN - Boat	Landfill	0.00	1.69	2.40	0.73	0.51	3.77	1.29	0.96	14.16	2.30	1.07	1.29	30.17	
	1059 IN - Mobile Home	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	1145 IN - Special Handling Wastes	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	1143 IN - Carpet	Landfill	5.39	5.41	5.04	7.74	4.27	7.57	5.26	6.25	6.46	3.65	7.56	3.67	68.27	
	1014 IN - Asbestos	Landfill	0.00	0.00	0.10	0.00	0.02	0.40	0.20	0.02	0.00	0.00	0.00	0.00	0.74	
	1020 IN - Contaminated Soil	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	1061 IN - Stall Waste	Landfill	0.00	0.00	0.00	1.05	0.00	1.12	3.52	4.52	7.55	58.34	0.00	0.00	77.10	
	1052 OUT - Tires	WTE	6.95	9.07	9.41	23.88	10.84	8.15	12.18	9.98	12.51	10.10	9.85	13.05	139.75	
	NON MRA RECYCLABLES		SWIM METHOD												30235.66	87615.30
	1119 OUT - Motor Oil	Recycle	4.88	0.00	3.00	3.00	7.90	3.20	5.20	3.00	0.00	9.40	1.00	3.70	44.28	
	1135 OUT - Antifreeze	Recycle	2.20	0.00	0.00	0.00	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.10	
	1137 OUT - Refrigerant (Freon)	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.03	
1127 OUT - Vegetable Oil	Recycle	0.00	0.00	0.35	0.24	0.00	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.83		
1111 OUT - Propane tanks	Recycle	1.52	0.00	0.00	0.00	0.00	2.06	0.00	0.00	0.00	1.29	0.00	0.00	4.87		
1009 IN - Shumps & Logs	Recycle	13.94	6.30	16.24	47.03	25.06	30.07	14.50	27.23	9.86	37.41	6.45	4.96	239.05		
MIXED WASTE	MRA RECYCLABLES	SWIM METHOD														
	1138 - Processed Mulch	Recycle	71.25	150.00	400.00	250.00	368.75	481.25	1450.00	960.50	300.00	625.00	293.75	597.00	5847.50	
	1046 IN - Compost	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Stockpiled Yard Waste (Leaves & Grassclippin	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	855.00	0.00	0.00	0.00	0.00	0.00	855.00	
	1096 IN - Pallets	Recycle	0.83	0.25	0.47	0.24	1.87	0.56	1.12	2.99	0.58	0.00	0.00	0.81	9.72	
	1025 IN - Sod	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	1146 IN - Woodchips	Recycle	6.69	14.57	4.09	0.00	1.09	17.10	14.45	7.75	1.21	5.83	0.00	17.13	89.91	
	1097 OUT - Single Stream Recycling leaving C	Recycle	470.92	325.51	473.99	474.13	513.68	543.41	568.43	487.82	528.14	561.44	502.27	600.45	6050.19	
	OUT - Shredded Paper	Recycle	0.00	0.00	3.92	0.00	0.00	2.16	0.00	0.00	1.75	0.00	1.89	0.00	9.72	
	1053 OUT - Lead Acid Batteries or 1053.2	Recycle	0.52	0.30	0.34	2.06	1.50	0.77	0.82	1.36	0.54	1.75	0.89	0.45	11.30	
	1120 OUT - Household Batteries	Recycle	0.00	0.00	0.00	1.11	0.00	1.20	0.00	0.00	0.00	1.11	0.00	0.00	3.42	
	1121 OUT - Rechargeable Batteries	Recycle	0.02	0.00	0.02	0.06	0.04	0.04	0.02	0.00	0.02	0.20	0.02	0.02	0.46	
	1117 OUT - Textiles	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	9.58	0.00	0.00	0.00	0.00	0.00	9.58	
	1044 OUT - Scrap Metal / Appliances & 1044.2	Recycle	27.10	0.00	40.31	16.73	33.34	162.12	62.56	27.55	18.98	36.57	33.64	29.77	488.67	
METALS	1044.1 OUT - Roasts Scrap Metal	Recycle	7.82	0.00	0.00	6.66	14.77	0.00	0.00	0.00	0.00	0.00	0.00	10.00	39.25	
	1116 OUT - Metal Tire Rims #1 Steel	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	1130 OUT - Oil Filters	Recycle	0.10	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.20	
	1124 OUT - Mercury Thermostats	Recycle	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.03	
	1126 OUT - Cords	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	1088 OUT - Electronics	Recycle	20.89	16.36	11.43	44.86	20.90	23.18	26.48	19.14	22.71	19.62	1.16	4.89	231.62	
	1139 OUT - Printer Cartridges	Recycle	0.00	0.02	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.01	0.00	0.01	0.06	
	1101 OUT - Vinyl Siding	Recycle	0.00	2.80	0.00	0.00	4.01	2.65	1.73	0.00	2.44	3.16	0.00	1.66	18.45	
	1052 OUT - Tires (Recycled)	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	1088 OUT - Citizen Scrap Tires (Recycled)	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	1125 OUT - Eyewear	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	
	1123 OUT - Latex Paint (Recycled)	Recycle	0.00	0.00	3.00	3.20	3.00	2.95	3.00	3.00	3.00	3.00	3.00	3.00	30.15	
	1118 OUT - Fluorescent Lamps	Recycle	0.35	0.26	0.00	0.35	0.59	0.00	0.49	0.24	0.22	0.29	0.00	0.24	3.03	
	1123 OUT - Brs Recycling	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	
	1132 OUT - Polystyrene	Recycle	0.17	0.15	0.18	0.11	0.14	0.20	0.07	0.17	0.09	0.17	0.06	0.12	1.63	
MONTHLY TOTAL WASTE		6434.60	6463.85	8085.92	9008.21	9049.92	10132.91	11374.14	9493.51	8594.44	9200.65	8765.72	8323.76	104927.82		
														104927.82		

			ANNUAL 2016 LANDFILL TONNAGES												
	MRA WASTE	SWM METHOD	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	TOTAL
HOMEOWN	1001 IN - Residential	Landfill	2144	2360	2597	2522	2732	2898	2861	3030	2673	2521	2598	2580	31236
	1002 IN - Commercial	Landfill	1912	2233	2304	2266	2400	2755	2507	2924	2473	2281	2558	2994	29599
	1003 IN - Industrial	Landfill	0	0	0	0	0	0	0	0	0	0	0	0	0
	1004 IN - Institutional	Landfill	0	0	0	0	0	0	0	0	0	0	0	0	0
	1016 IN - School Board MSW	Landfill	0	0	0	0	0	0	0	0	0	0	0	0	0
	5002 Homeowner Trash & SSR	Landfill	0	0	0	0	0	0	0	0	0	0	0	0	0
	5003 Homeowner / 6000 Non Scale Refuse	Landfill	145	149	185	191	177	168	168	183	141	169	163	164	2020
	1021 IN - Woodburn Refuse	Landfill	81	58	60	87	85	86	98	69	100	60	92	82	980
	1024 IN - Stemmers Refuse	Landfill	17	18	29	17	32	37	19	25	30	23	32	26	306
	1148 IN - Latex Paint Residual Waste	Landfill	0	2	2	2	2	2	2	2	2	2	1	2	21
	1131 OUT - Household Hazardous Waste	Landfill	0	0	0	36	0	0	0	0	0	0	0	0	36
MED	1135 OUT - Medications	WTE	0	0	0	0	0	0	0	0	0	0	0	0	0
	1128 OUT - Sharps	Biomedical Incinerator	0	0	0	0	0	0	0	0	0	0	0	0	1
C&D	NON MRA WASTE	SWM METHOD	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	64198
	1005 IN - Landfilling	Mulched	0	0	0	0	0	0	0	0	0	0	0	0	0
	1006 IN - Demolition + 1082.1 Full Waiver C&D	Landfill	26	31	19	25	44	34	17	7	38	138	76	82	507
	1007 IN - Construction+1080.1 Half Waiver C&D	Landfill	1137	1004	1585	1464	1566	1725	1367	1478	1608	1453	1598	1129	17113
	1008 IN - Dirt / Soil & 1088.2 Ditch Spoils	Landfilled	100	229	477	25	460	237	163	731	393	388	286	80	3568
	1008 IN - Topsoil (no charge)	Stockpiled/Reuse	0	9	389	32	0	0	0	0	0	0	0	0	429
	1050 IN - Asphalt	Landfilled	0	1	0	18	2	0	0	14	1	5	0	3	44
	1041 IN - Asphalt Stockpiled & 1087 Millings	Stockpiled/Reuse	0	0	0	0	0	0	0	0	0	0	4	4	8
	1051 IN - Concrete	Landfilled	0	0	0	1	0	0	0	0	0	1	0	2	3
	1051.1 IN - Concrete Stockpiled	Stockpiled/Reuse	10	2	13	12	34	33	47	43	13	28	26	4	266
	UTTER / SPECIAL WASTE	1019 IN - Litter	Landfill	0	0	1	1	1	0	0	0	0	0	0	0
1026 IN - Dead Animals		Landfill	0	0	0	0	0	1	0	0	0	0	0	1	3
1060 IN - 1/2 Waiver		Landfill	0	0	0	0	0	0	0	0	0	0	0	0	0
1062 IN - Full Waiver		Landfill	0	0	0	5	0	5	0	0	0	0	0	0	10
1112 IN - Adopt a Road Litter		Landfill	0	0	0	0	0	0	0	0	0	0	0	0	0
1142 IN - Street Sweeps		Landfill	11	11	20	17	17	14	14	12	10	11	13	10	160
1012 IN - Treatment Plant Sludge		Landfill	187.93	97.27	437.21	409.21	418.89	188.27	188.31	243.32	208.89	207.08	221.20	220.42	3027.6
1055 IN - Boat		Landfill	0	0	17	3	4	1	2	1	1	3	0	0	34
1059 IN - Mobile Home		Landfill	0	0	0	0	0	0	0	0	0	0	0	0	0
1145 IN - Special Handling Wastes		Landfill	0	0	0	0	0	0	0	0	0	0	0	0	0
1143 IN - Carpet		Landfill	5	5	5	4	7	6	7	6	4	7	8	2	64
COI	1014 IN - Asbestos	Landfill	0	0	0	0	0	0	2	0	0	0	0	0	4
	1020 IN - Contaminated Soil	Landfill	0	0	0	0	0	0	0	0	0	2	0	0	2
	1061 IN - Stall Waste	Landfill	1	1	0	2	0	0	0	0	0	0	0	0	3
	1052 OUT - Trees	WTE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NON MRA RECYCLABLES	SWM METHOD	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	25251
	1119 OUT - Motor Oil	Recycle	4	1	6	4	7	3	3	5	5	3	9	5	55
	1136 OUT - Antifreeze	Recycle	0	0	2	0	0	0	0	0	0	0	0	0	5
	1137 OUT - Refrigerant (Freon)	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	0
	1127 OUT - Vegetable Oil	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	0
	1111 OUT - Propane tanks	Recycle	0	0	0	0	0	0	0	0	2	0	0	0	2
	1009 IN - Slumps & Logs	Recycle	6	15	58	79	22	54	57	33	16	26	38	6	411
M&E	MRA RECYCLABLES	SWM METHOD	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	478
	1138 - Processed Mulch	Recycle	71	321	134	368	431	1203	1526	1610	600	425	371	371	7429
	1045 IN - Compost & 1046.1	Recycle	0	0	0	0	0	0	0	0	0	0	121	308	429
	1050 IN - Yard Waste (Leaves & Grassclippings)	Recycle	0	0	0	0	0	0	0	0	0	0	0	1719	1719
	1096 IN - Pallets	Recycle	1	2	0	0	1	2	0	3	1	0	0	0	10
	1025 IN - Sod	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	0
	1146 IN - Woodchips	Recycle	2	0	4	2	3	22	20	39	15	18	0	6	132
	1097 OUT - Single Stream Recycling leaving CLF	Recycle	406	323	270	244	262	299	262	247	245	213	211	215	3196
	OUT - Shredded Paper	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	0
	1053 OUT - Lead Acid Batteries or 1053.2	Recycle	1	0	1	2	0	1	1	0	1	1	1	1	10
	1120 OUT - Household Batteries	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	0
BATTER	1121 OUT - Rechargeable Batteries	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	0
	1117 OUT - Textiles	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	8
	1044 OUT - Scrap Metal / Appliances & 1044.2	Recycle	16	12	27	38	24	45	25	33	32	36	29	23	340
	1044.1 OUT - Roads Scrap Metal	Recycle	7	0	0	0	9	12	0	0	7	8	12	0	53
	1118 OUT - Metal Tie Rms #1 Steel	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	8
	1116.2 OUT - Aluminum Rms & 1116.2 Al bk rms	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	0
	1130 OUT - Oil Filters	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	1
	1124 OUT - Mercury Thermostats	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	0
	1126 OUT - Corks	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	0
	1088 OUT - Electronics	Recycle	0	5	0	0	6	0	6	0	0	5	0	0	22
	E-WASTE	1139 OUT - Printer Cartridges	Recycle	0	0	0	0	0	0	0	0	0	0	0	0
1101 OUT - Vinyl Siding		Recycle	0	0	0	0	0	4	3	0	2	0	0	0	10
1052 OUT - Tires (Recycled)		Recycle	12	13	14	18	0	22	0	14	12	16	10	19	148
1098 OUT - Citizen Scrap Tires (Recycled)+AG		Recycle	0	0	0	0	0	0	0	0	0	0	0	0	259
Tires 1032.4 1032.5		Recycle	259	0	0	0	0	0	0	0	0	0	0	0	259
1125 OUT - Eyewear		Recycle	0	0	0	0	0	0	0	0	0	0	0	0	0
1123 OUT - Latex Paint (Recycled)		Recycle	0	0	0	3	3	3	3	3	3	3	2	3	26
1118 OUT - Fluorescent Lamps		Recycle	1	0	0	1	0	0	0	0	0	0	0	0	3
1122 OUT - Bra Recycling		Recycle	0	0	0	0	0	0	0	0	0	0	0	0	0
1132 OUT - Polystyrene		Recycle	0	0	0	0	0	0	0	0	0	0	0	0	1
9000 OUT - Goodyear's auction		Recycle/ Reuse	0	0	7	0	0	0	0	0	2	0	0	0	9
MONTHLY TOTAL WASTE			6562	6863	8686	7896	8748	9869	9111	10758	8639	8056	8480	10068	103736

31236

29599

0

0

0

0

2020

980

306

21

35.71

1

64198

506.6

17113.03

3508.49

429

43.59

8

3.46

266

4

3.83

2.9

0

10.05

0

160

159.62

3027.6

34.18

0

0

64

84.2

4

3.97

2

2.23

3

3.35

0

2925

88744.75

478

7429

429

1719

10

0

0

132

3196

0

10

0

0

8

0

0

0

22

0

0

10

148

259

0

26

3

0

		ANNUAL 2017 LANDFILL TONNAGES												TOTAL	Comments
		SWM METHOD	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	
MRA WASTE	1001 IN - Residential	Landfill	2518.25	2167.88	2444.56	2461.72	2685.71	2855.55	2718.72	2785.87	2475.87	2476.96	2447.09	2171.14	30189
	1002 IN - Commercial	Landfill	2549.75	2046.97	2519.78	2641.15	3075.98	3050.98	2947.85	3189.82	2849.29	2966.97	2735.43	2510.27	33085
	1003 IN - Industrial	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	1004 IN - Institutional	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	1016 IN - School Board MSW	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	5002 Homeowner Trash & SSR	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	5003 Homeowner / 6000 Non Scale R	Landfill	147.63	104.71	135.22	122.83	113.52	154.52	125.34	122.59	72.31	132.33	62.27	56.62	1350
	1021 IN - Woodawn Refuse	Landfill	91.12	56.81	71.63	92.09	89.05	86.54	89.59	95.03	82.69	88.72	75.79	79.20	998
	1024 IN - Stemmers Refuse	Landfill	21.54	22.76	36.77	28.58	20.43	41.57	25.91	36.59	21.35	26.93	36.00	19.49	338
	1148 IN - Latex Paint Residual Waste	Landfill	2.00	2.00	2.00	3.00	3.00	2.00	3.00	2.00	2.00	2.00	2.00	1.00	26
MRA WASTE	1131 OUT - Household Hazardous W	Landfill	0.00	0.00	0.00	14.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15
	1135 OUT - Medications	WTE	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	1128 OUT - Sharps	Biomedical Incinerator	0.08	0.00	0.12	0.26	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	1
	NON MRA WASTE														
	1005 IN - Landclearing	Midnet	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	1006 IN - Demolition + 100.1 Full Waiver C&D	Landfill	24.03	78.66	33.63	116.58	47.89	73.48	190.90	112.82	92.23	84.43	17.04	208.24	1080
	1007 IN - Construction + 100.1 Half Waiver C&D	Landfill	1048.44	1272.78	1219.17	1766.82	1749.70	1736.44	2741.68	2443.98	1805.80	1911.40	1450.76	1164.73	20312
	1008 IN - Dirt Soil & 100.82 Dirt Stockpiles	Landfill	65.74	148.02	75.21	216.05	118.73	202.66	258.57	375.81	358.07	341.31	172.40	102.89	2415
	1008.1 IN - Topsoil (no charge)	Stockpile/Reuse	0.00	78.08	0.00	0.00	0.00	0.00	0.00	753.29	167.42	0.00	0.00	0.00	999
	1050 IN - Asphalt	Landfill	0.00	5.18	0.00	0.00	8.13	0.00	0.00	2.46	0.00	0.48	4.81	0.00	21
MRA WASTE	1041 IN - Asphalt Stockpiled & 1087 Millings	Stockpile/Reuse	13.12	0.00	0.00	4.33	7.22	0.00	0.00	85.06	1.86	34.26	18.77	0.00	166
	1051 IN - Concrete	Landfill	0.00	0.00	0.00	0.00	2.08	0.00	0.68	0.00	0.00	0.91	6.71	0.00	10
	1051.1 IN - Concrete Stockpiled	Stockpile/Reuse	1.69	4.34	11.48	18.29	66.82	16.13	3.01	19.02	7.46	13.65	14.50	3.43	180
	1019 IN - Litter	Landfill	0.42	0.18	0.16	0.00	0.26	0.00	0.00	0.00	0.00	0.23	0.00	0.00	1
	1026 IN - Dead Animals	Landfill	0.99	0.18	0.00	0.03	0.00	0.59	0.09	0.00	0.06	0.64	0.07	0.47	3
	1060 IN - 1/2 Waiver	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	1082 IN - Full Waiver	Landfill	0.00	0.00	0.00	4.77	14.83	0.00	0.00	0.00	0.09	1.21	0.00	0.00	21
	1112 IN - Adopt a Road Litter	Landfill	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	1142 IN - Street Sweepings	Landfill	13.39	9.11	4.07	11.70	11.04	12.46	7.98	25.37	11.04	12.76	10.00	4.14	134
	1012 IN - Treatment Plant Sludge	Landfill	280.27	278.98	449.95	442.13	457.39	413.87	297.72	288.97	382.49	318.38	305.41	249.50	4143
MRA WASTE	1055 IN - Boat	Landfill	1.00	1.49	1.26	2.68	3.35	0.36	0.84	4.38	5.89	3.44	4.57	1.26	30
	1059 IN - Mobile Home	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	1145 IN - Special Handling Wastes	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	1143 IN - Carpet	Landfill	2.03	3.19	3.14	4.06	4.00	5.49	2.35	0.72	1.07	0.57	5.78	2.49	35
	1014 IN - Asbestos	Landfill	0.00	0.00	0.01	0.01	4.34	0.03	0.00	0.01	0.00	0.23	0.00	0.02	5
	1020 IN - Contaminated Soil	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	1061 IN - Shell Waste	Landfill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	1052 OUT - Tires	WTE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	NON MRA RECYCLABLES														
	1118 OUT - Motor Oil	Recycle	0.00	3.60	4.00	1.98	7.12	5.46	2.82	6.52	6.54	3.88	4.78	0.00	47
MRA WASTE	1136 OUT - Antifreeze	Recycle	0.00	0.00	0.00	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2
	1137 OUT - Refrigerant (Freon)	Recycle	0.00	0.00	0.00	0.10	0.00	0.00	0.10	0.00	0.01	0.00	0.01	0.00	0
	1127 OUT - Vegetable Oil	Recycle	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0
	1111 OUT - Propane Tanks	Recycle	0.00	0.00	0.00	0.00	1.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2
	1009 IN - Stumps & Logs	Recycle	20.82	85.00	55.53	127.16	62.97	116.57	41.93	68.27	175.31	44.62	22.04	18.76	818
	MRA RECYCLABLES														
	1138 - Processed Mulch	Recycle	831.28	493.75	1073.13	1070.00	368.75	1228.75	700.00	568.00	550.00	350.00	321.50	0.00	7855
	1046 IN - Compost & 1046.1	Recycle	322.08	0.00	185.26	225.57	0.00	30.16	212.82	905.40	0.00	0.00	0.00	182.57	2064
	Stockpiled Leaves & Grassclippings & Compost	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	913.88	0.00	0.00	914
	1096 IN - Pallets	Recycle	0.00	0.00	0.79	1.26	0.48	0.70	2.64	0.73	17.50	0.00	0.00	0.00	24
1025 IN - Sod	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	
1146 IN - Woodchips	Recycle	9.04	9.09	38.41	45.24	0.00	57.78	6.51	10.22	23.78	4.93	0.88	3.27	209	
MRA WASTE	1097 OUT - Single Stream Recycling	Recycle	197.38	184.45	200.16	208.71	270.14	302.72	309.23	287.11	244.49	247.07	278.28	308.12	3038
	OUT - Shredded Paper	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	1053 OUT - Lead Acid Batteries or 10	Recycle	1.82	0.85	0.72	1.85	0.74	0.87	0.80	0.79	0.00	1.64	1.08	0.00	11
	1120 OUT - Household Batteries	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	1121 OUT - Rechargeable Batteries	Recycle	0.00	0.02	0.00	0.06	0.05	0.04	0.02	0.04	0.04	0.02	0.02	0.04	0
	1117 OUT - Textiles	Recycle	0.14	0.48	0.17	0.26	0.46	0.18	0.23	0.41	0.10	0.26	0.70	0.15	4
	1044 IN - Scrap Metal Appliances & 1044.28 1098	Recycle	23.61	27.83	51.21	46.35	36.50	31.85	62.70	37.50	32.45	88.91	45.97	25.08	512
	1044.1 OUT - Roads Scrap Metal	Recycle	6.06	4.10	0.00	0.00	10.84	0.00	9.39	0.00	0.00	0.00	12.01	0.00	43
	1116 OUT - Metal Tire Rims #1 Steel	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	2.70	0.00	0.00	0.00	0.00	0.00	3
	1116.2 OUT - Aluminum Rims & 1116.2 #16 Rims	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
MRA WASTE	1130 OUT - Oil Filters	Recycle	0.00	0.00	0.45	0.00	0.00	0.00	0.10	0.15	0.00	0.00	0.00	0.00	1
	1124 OUT - Mercury Thermostats	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0
	1126 OUT - Corks	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	1088 OUT - Electronics	Recycle	4.84	0.00	0.00	5.02	0.00	0.00	6.17	0.00	0.00	5.09	0.00	4.72	26
	1138 OUT - Printer Cartridges	Recycle	0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.01	0
	1101 OUT - Vinyl Siding	Recycle	0.00	0.00	0.00	0.00	2.79	0.00	2.62	0.00	2.99	0.00	0.00	3.38	12
	1052 OUT - Tires (Recycled)	Recycle	9.52	0.00	31.59	0.00	17.72	17.22	40.59	0.00	17.44	0.00	17.36	13.55	165
	1098 OUT - Citizen Scrap Tires (Recycled)+AG Tires 1032,4 1032,5	Recycle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
	1125 OUT - Eyewear	Recycle	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0
	1123 OUT - Latex Paint (Recycled)	Recycle	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	2.00	1.00	33
MRA WASTE	1118 OUT - Fluorescent Lamps	Recycle	0.28	0.00	0.26	0.32	0.00	0.00	0.23	0.00	0.21	0.00	0.00	0.25	2
	1122 OUT - Bra Recycling	Recycle	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.01	0
	1132 OUT - Polystyrene	Recycle	0.26	0.18	0.24	0.07	0.11	0.16	0.15	0.21	0.16	0.19	0.25	0.08	2
	9000 OUT - Gownlike auction	Recycle/Reuse	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.55	0.07	0.50	0.00	2
	MONTHLY TOTAL WASTE														
			8210.7	7017.4	8653.28	9890.37	9249.15	10448.06	10818.09	12234.08	9391.77	10079.07	8078.16	7136.38	111063

ANNUAL 2018 LANDFILL TONNAGES															
MRA WASTE		OWN METHOD	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	TOTAL
HOME/COMM	1001 IN - Residential	Landfill	2432	1997	2381	2648	2843	2648	2782	2927	2396	2707	2621	2392	30674
	1002 IN - Commercial	Landfill	2417	2452	2683	2824	3470	3204	3022	3204	2749	2881	2783	2717	34406
	1003 IN - Industrial	Landfill	0	0	0	0	0	0	0	0	0	0	0	0	0
	1004 IN - Institutional	Landfill	0	0	0	0	0	0	4	0	2	0	2	0	8
	1016 IN - School Board MSW	Landfill	0	0	0	0	0	0	0	0	0	0	0	0	0
	5002 Homeowner Trash & SSR	Landfill	0	0	0	0	0	0	0	0	0	0	0	0	0
	5003 Homeowner / 6000 Non Scale Refuse	Landfill	101	99	122	127	131	151	141	131	119	124	112	111	1466
	1021 IN - Wood/Leaves Refuse	Landfill	73,78	75,64	82,89	84,16	104,60	86,43	81,97	113,66	85,37	99,64	94,71	76,35	1075
	1024 IN - Stemmers Refuse	Landfill	24,47	26,59	21,09	33,91	47,49	36,05	31,55	40,38	26,51	35,55	42,04	23,31	392
	1148 IN - Latex Paint Residual Waste	Landfill	3	3	3	2	2	2	2	2	2	2	2	2	27
DGC	1131 OUT - Household Hazardous Waste	Landfill	0	0	0	39	0	0	0	0	0	0	0	0	39
	1135 OUT - Medications	WTE	0	0	0	0	0	0	0	0	0	0	0	0	0
	1128 OUT - Sharps	medical inciner	0,14	0,14	0,14	0,14	0,14	0,14	0,14	0,14	0,14	0,14	0,14	0,14	2
NON MRA WASTE		OWN METHOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC	TOTAL
C&D	1005 IN - Landfilling	Method	0	0	0	0	0	0	0	0	0	0	0	0	0
	1006 IN - Demolition + 1082,1 Full Waiver C&D	Landfill	64	138	74	116	227	120	82	76	51	183	40	20	2638
	1007 IN - Construction 1085,1 Full Waiver C&D	Landfill	942	975	1564	1731	2265	2099	2211	2003	1522	86	1297	1253	17938
	1008 IN - Dirt / Soil & 1008,2 Ditch Spoils	Landfill	31	216	63	212	68	464	54	365	456	206	283	31	2481
	1008,1 IN - Topsoil (no charge)	Stockpiled/Reuse	0	1134	0	0	0	1216	0	0	2202	2785	1491	4972	13799
	1050 IN - Asphalt	Landfill	0	0	0	0	0	0	0	13	0	0	0	0	20
	1041 IN - Asphalt Stockpiled & 1087 Millings	Stockpiled/Reuse	0	0	1	11	6	0	0	0	9	1	0	0	28
	1051 IN - Concrete	Landfill	0	0	0	0	0	0	21	2	1	183	7	1	196
	1051,1 IN - Concrete Stockpiled	Stockpiled/Reuse	0	7	13	5	8	54	2	10	6	0	4	4	113
	1019 IN - Litter	Landfill	0	2	4	0	1	0	0	0	0	0	0	0	6
SPECIAL WASTE	1026 IN - Dead Animals	Landfill	0	0	0	0	0	0	0	0	0	0	0	0	4
	1060 IN - 1/2 Waiver	Landfill	0	0	0	0	0	0	148	0	0	0	0	0	148
	1082 IN - Full Waiver	Landfill	0	0	0	0	0	0	0	0	0	0	0	0	37
	1112 IN - Adopt a Road Litter	Landfill	0	0	0	0	0	0	0	0	0	0	0	0	0
	1142 IN - Street Sweepings	Landfill	10	20	16	11	44	34	16	28	22	30	25	35	280
	1012 IN - Treatment Plant Sludge	Landfill	208	343	381	447	482	412	514	524	374	430	223	303	4800
	1012,1 IN - Grits & Screenings	Landfill	0	0	7	0	0	0	0	0	0	0	0	0	11
	1055 IN - Boat	Landfill	0	0	1	3	4	0	7	4	1	12	0	1	35
	1059 IN - Mobile Home	Landfill	0	0	0	0	0	0	0	1	0	0	0	0	1
	1145 IN - Special Handling Wastes	Landfill	0	0	0	0	0	0	0	0	0	0	0	0	0
MATERIAL	1143 IN - Carpet	Landfill	4	7	6	5	6	10	3	6	7	6	7	7	74
	1014 IN - Asbestos	Landfill	0	0	0	0	0	0	0	0	0	0	0	0	0
	1020 IN - Contaminated Soil	Landfill	0	0	0	0	0	0	0	0	0	0	0	0	0
	1061 IN - Stall Waste	Landfill	0	0	0	0	0	0	0	0	0	0	0	0	0
	1052 OUT - Tires	WTE	0	0	0	0	0	0	0	0	0	0	0	0	0
	NON MRA RECYCLABLES														42820
	1119 OUT - Motor Oil	Recycle	1	5	3	7	5	2	5	3	1	6	3	3	44
	1136 OUT - Antifreeze	Recycle	2	0	0	0	2	0	0	3	0	0	0	0	8
	1137 OUT - Refrigerant (Freon)	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	0
	1127 OUT - Vegetable Oil	Recycle	0	0	0	0	0	0	0	0	0	0	0	1	1
	1111 OUT - Propane tanks	Recycle	0	0	0	0	3	0	0	0	0	0	0	0	3
	1000 IN - Stumps & Logs	Recycle	16	38	111	83	45	41	133	116	38	13	31	39	700
	MRA RECYCLABLES														786
	MATERIAL	1138 - Processed Mulch	Recycle	166	143	713	570	594	150	594	125	100	0	366	119
1046 IN - Compost & 1046,1		Recycle	0	184	84	0	125	56	198	244	1503	409	439	945	4187
1096 IN - Pallets & Grass/Grasspills & Compost		Recycle	0	0	0	0	0	0	0	0	0	1447	0	0	1447
1096 IN - Pallets		Recycle	1	1	0	0	3	0	0	3	0	1	1	0	10
1025 IN - Sods		Recycle	0	0	0	0	0	0	0	0	0	0	0	0	0
1146 IN - Woodchips		Recycle	2	0	58	14	28	8	4	36	34	67	17	2	271
1097 OUT - Single Stream Recycling leaving CLF		Recycle	287	265	285	256	317	302	310	287	235	253	304	341	3442
OUT - Shredded Paper		Recycle	0	0	0	0	0	0	0	0	0	0	0	0	0
1053 OUT - Lead Acid Batteries or 1053,2		Recycle	0	1	0	2	1	0	1	3	1	1	1	1	12
1120 OUT - Household Batteries		Recycle	0	0	0	0	0	0	0	0	0	0	0	0	0
BATTERIES	1121 OUT - Rechargeable Batteries	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	1
	1117 OUT - Textiles	Recycle	0	0	0	0	0	0	1	0	0	0	0	0	1
	1044 OUT - Scrap Metal / Appliances & 1044,2	Recycle	18	15	17	34	36	33	51	25	44	19	25	25	341
	1044,1 OUT - Radio Scrap Metal	Recycle	13	0	0	0	10	0	0	7	7	0	0	13	50
	1116 OUT - Metal Tire Rims #1 Steel	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	0
	1116,2 OUT - Aluminum Rims & 1116,2 #1 bk rims	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	0
	1130 OUT - Oil Rims	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	1
	1124 OUT - Mercury Thermostats	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	0
	1126 OUT - Corks	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	0
	11088 OUT - Electronics	Recycle	0	0	0	5	0	5	0	5	0	5	0	5	19
METALS	11139 OUT - Printer Cartridges	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	0
	1101 OUT - Vinyl Siding	Recycle	0	0	0	3	6	0	4	0	3	3	0	3	17
	1052 OUT - Tires (Recycled)	Recycle	13	6	29	13	15	9	26	13	19	14	15	16	188
	1088 OUT - Cision Scrap Tires (Recycled)+AG Tires	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	0
	1032,4 1032,5	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	0
	1125 OUT - Eyewear	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	0
	1123 OUT - Latex Paint (Recycled)	Recycle	1	2	3	3	2	2	2	2	2	2	2	2	25
	1118 OUT - Fluorescent Lamps	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	1
	1122 OUT - Bra Recycling	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	0
	1132 OUT - Polyethylene	Recycle	0	0	0	0	0	0	0	0	0	0	0	0	2
MONTHLY TOTAL WASTE		Recycle Reuse	6308	7498	7423	8206	9735	10566	9104	9554	10033	11284	9041	11958	110708

Total waste disposal reported for 2018 analysis: 93,381.46 tons

SECTION B. Waste-to-Energy/Incinerator Facilities ONLY

1. Tonnage of MSW ash generated from solid waste accepted at facility:
2. Tonnage of Non-MSW ash generated from solid waste accepted at facility:
3. Tonnage of by-pass generated from solid waste accepted at facility:

	n/a
	n/a
	n/a

SECTION C. Total Amount of Waste Managed at Facility in 2019

TOTAL IN TABLE A1	195,857.71	A1
MSW ASH GENERATED (WTE ONLY)	n/a	B1
NON-MSW ASH GENERATED (WTE ONLY)	n/a	B2
BY-PASS GENERATED (WTE ONLY)	n/a	B3
Stored Waste from Previous Year *	13,940.00	C1
GRAND TOTAL (A1+B1+B2+B3+C1) ^	209,797.71	C2

* Means the waste that was temporarily stockpiled at the site in the previous year but wasn't managed until the current year. See Section C for instructions and additional information.

^ The total reported in C2 MUST equal the total tons reported in Section D (See Section E).

SECTION D. Methods of Solid Waste Management**Table D1 – On-Site Management (In Tons)**

	Landfilled	Incinerated	Projects at Landfills ^	Stored	Reused (RU) or Recycled (RC) or Composted/Mulched (CM)	TOTAL
MSW	70,590.89				RU RC CM	70,590.89
MSW Ash ¹	0				RU RC CM	0.00
Non-MSW Ash ¹	0				RU RC CM	0.00
Asbestos	0.04				RU RC CM	0.04
Asphalt	24			272	RU RC CM	296.00
C&D ¹	22,022				RU RC CM	22,022.00
Concrete ¹	887.00			316.00	RU RC CM	1,203.00
Industrial	0				RU RC CM	0.00
LCD	0				RU RC CM	0.00

Front-end Scrap Metal ¹	0					RU	0.00
						RC	
						CM	
Back-end Scrap Metal ¹	0					RU	0.00
						RC	
						CM	
Scrap Metal ¹	0					RU	0.00
						RC	
						CM	
Scrap Tires	0					RU	0.00
						RC	
						CM	
Sewage Sludge	4599.00					RU	4,599.00
						RC	
						CM	
Soil	4190.35			79797.65		RU	97,928.00
						RC	
						CM	
Special Medical Waste	0					RU	0.00
						RC	
						CM	
Stored Waste (C1)	0				13,799.00	RU	#REF!
					141.00	RC	
						CM	
Other 1*: [list] LATEX SOLID/ LATEX RU/ WOODCHIPS	25.00				27.00	RU	120.00
						RC	
					68.00	CM	
Other 2*: [list] BULKY OBJECTS & LITTER	122.07					RU	122.07
						RC	
						CM	
Other 3*: [list] PALLETS						RU	25.00
						RC	
					25.00	CM	
Other 4*: [list] TEXTILES RU, YARD WASTE						RU	8,215.00
						RC	
					8,215.00	CM	
Other 5*: [list]						RU	0.00
						RC	
						CM	
TOTAL TONS (D1)	102,460.35	0.00	0.00	80,385.65	13,826.00	RU	205,121.00
					141.00	RC	
					8,308.00	CM	

[^] Means the use of solid waste or other materials for projects at landfills (e.g., daily cover, road construction, etc.).

¹ See Section D for definitions and additional information.

* Includes materials such as, but not limited to, white goods, compost, wood waste, yard waste, food waste, electronics, pallets, by-pass, and textiles. See Section D for definitions and additional

Total Waste Landfilled in 2019 (omitting non-putrescible items such as soil, concrete waste, asphalt, latex and asbestos) = 97333.96 tons

SECTION B. Waste-to-Energy/Incinerator Facilities ONLY

1. Tonnage of MSW ash generated from solid waste accepted at facility:
2. Tonnage of Non-MSW ash generated from solid waste accepted at facility:
3. Tonnage of by-pass generated from solid waste accepted at facility:

	n/a
	n/a
	n/a

SECTION C. Total Amount of Waste Managed at Facility in 2020

TOTAL IN TABLE A1	199,880	A1
MSW ASH GENERATED (WTE ONLY)	n/a	B1
NON-MSW ASH GENERATED (WTE ONLY)	n/a	B2
BY-PASS GENERATED (WTE ONLY)	n/a	B3
Stored Waste from Previous Year *	80,386.00	C1
GRAND TOTAL (A1+B1+B2+B3+C1) ^	280,266	C2

* Means the waste that was temporarily stockpiled at the site in the previous year but wasn't managed until the current year. See Section C for instructions and additional information.

^ The total reported in C2 MUST equal the total tons reported in Section D (See Section E).

SECTION D. Methods of Solid Waste Management**Table D1 – On-Site Management (In Tons)**

	Landfilled	Incinerated	Projects at Landfills ^	Stored	Reused (RU) or Recycled (RC) or Composted/Mulched (CM)	TOTAL
MSW	73094				RU RC CM	73,094.00
MSW Ash ¹	0				RU RC CM	0.00
Non-MSW Ash ¹	0				RU RC CM	0.00
Asbestos	3.00				RU RC CM	3.00
Asphalt	11			27	RU RC CM	38.00
C&D ¹	24,773				RU RC CM	24,773.00
Concrete ¹	16			288	RU RC CM	304.00
Industrial	0				RU RC CM	0.00
LCD	0				RU RC CM	0.00

Front-end Scrap Metal ¹	0					RU	0.00
						RC	
						CM	
Back-end Scrap Metal ¹	0					RU	0.00
						RC	
						CM	
Scrap Metal ¹	0					RU	0.00
						RC	
						CM	
Scrap Tires	0					RU	0.00
						RC	
						CM	
Sewage Sludge	4447					RU	4,447.00
						RC	
						CM	
Soil	4083			83520		RU	87,603.00
						RC	
						CM	
Special Medical Waste	0					RU	0.00
						RC	
						CM	
Stored Waste (C1)	0				79,798	RU	80,386.00
					588.00	RC	
						CM	
Other 1*: [list] LATEX SOLID/ LATEX RU/ WOODCHIPS	21.00					RU	21.00
						RC	
						CM	
Other 2*: [list] BULKY OBJECTS & LITTER	159.00					RU	159.00
						RC	
						CM	
Other 3*: [list] PALLETS	0					RU	0.00
						RC	
						CM	
Other 4*: [list] TEXTILES RU, YARD WASTE						RU	4,847.00
						RC	
					4,847.00	CM	
Other 5*: [list]						RU	0.00
						RC	
						CM	
TOTAL TONS (D1)	106,607.00	0.00	0.00	83,835.00	79,798.00	RU	275,675.00
					588.00	RC	
					4,847.00	CM	

^ Means the use of solid waste or other materials for projects at landfills (e.g. , daily cover, road construction, etc.).

¹ See Section D for definitions and additional information.

* Includes materials such as, but not limited to, white goods, compost, wood waste, yard waste, food waste, electronics, pallets, by-pass, and textiles. See Section D for definitions and additional

Total Waste Landfilled in 2020 (omitting non-putrescible items such as soil, concrete waste, asphalt, latex and asbestos) = 102,473 tons

SECTION B. Waste-to-Energy/Incinerator Facilities ONLY

1. Tonnage of MSW ash generated from solid waste accepted at facility:
2. Tonnage of Non-MSW ash generated from solid waste accepted at facility:
3. Tonnage of by-pass generated from solid waste accepted at facility:

	n/a
	n/a
	n/a

SECTION C. Total Amount of Waste Managed at Facility in 2021

TOTAL IN TABLE A1	208,303.00	A1
MSW ASH GENERATED (WTE ONLY)	n/a	B1
NON-MSW ASH GENERATED (WTE ONLY)	n/a	B2
BY-PASS GENERATED (WTE ONLY)	n/a	B3
Stored Waste from Previous Year *	83,835.00	C1
GRAND TOTAL (A1+B1+B2+B3+C1) ^	292,138.00	C2

* Means the waste that was temporarily stockpiled at the site in the previous year but wasn't managed until the current year. See Section C for instructions and additional information.

^ The total reported in C2 MUST equal the total tons reported in Section D (See Section E).

SECTION D. Methods of Solid Waste Management**Table D1 – On-Site Management (In Tons)**

	Landfilled	Incinerated	Projects at Landfills ^	Stored	Reused (RU) or Recycled (RC) or Composted/Mulched (CM)	TOTAL
MSW	81,698.00				RU RC CM	81,698.00
MSW Ash ¹	0				RU RC CM	0.00
Non-MSW Ash ¹	0				RU RC CM	0.00
Asbestos	1				RU RC CM	1.00
Asphalt	30			593	RU RC CM	623.00
C&D ¹	27,166				RU RC CM	27,166.00
Concrete ¹	61			367	RU RC CM	428.00
Industrial	0				RU RC CM	0.00
LCD	0				RU RC CM	0.00

Front-end Scrap Metal ¹	0					RU	0.00
						RC	
						CM	
Back-end Scrap Metal ¹	0					RU	0.00
						RC	
						CM	
Scrap Metal ¹	0					RU	0.00
						RC	
						CM	
Scrap Tires	0					RU	0.00
						RC	
						CM	
Sewage Sludge	6,001					RU	6,001.00
						RC	
						CM	
Soil	4596			76620		RU	81,216.00
						RC	
						CM	
Special Medical Waste						RU	0.00
						RC	
						CM	
Stored Waste (C1)	0				315	RU	83,835.00
					83,520	RC	
						CM	
Other 2*: [list] BULKY OBJECTS & LITTER	178					RU	178.00
						RC	
						CM	
Other 3*: [list] PALLETS	0					RU	0.00
						RC	
						CM	
Other 4*: [list] YARD WASTE						RU	5,490.00
						RC	
					5,490	CM	
Other 5*: [list]						RU	0.00
						RC	
						CM	
						RU	0.00
						RC	
						CM	
TOTAL TONS (D1)	119,731.00	0.00	0.00	77,580.00	315.00	RU	286,636.00
					83,520.00	RC	
					5,490.00	CM	

^ Means the use of solid waste or other materials for projects at landfills (e.g., daily cover, road construction, etc.).

¹ See Section D for definitions and additional information.

* Includes materials such as, but not limited to, white goods, compost, wood waste, yard waste, food waste, electronics, pallets, by-pass, and textiles. See Section D for definitions and additional

Total Waste Landfilled in 2021 (omitting non-putrescible items such as soil, concrete waste, asphalt, latex and asbestos) = 115,043 tons

SECTION B. Waste-to-Energy/Incinerator Facilities ONLY

1. Tonnage of MSW ash generated from solid waste accepted at facility:
2. Tonnage of Non-MSW ash generated from solid waste accepted at facility:
3. Tonnage of by-pass generated from solid waste accepted at facility:

	N/A
	N/A
	N/A

SECTION C. Total Amount of Waste Managed at Facility in 2022

TOTAL IN TABLE A1	251,512.00	A1
MSW ASH GENERATED (WTE ONLY)	N/A	B1
NON-MSW ASH GENERATED (WTE ONLY)	N/A	B2
BY-PASS GENERATED (WTE ONLY)	N/A	B3
Stored Waste from Previous Year *	77,580.00	C1
GRAND TOTAL (A1+B1+B2+B3+C1) ^	329,092.00	C2

* Means the waste that was temporarily stockpiled at the site in the previous year but wasn't managed until the current year. See Section C for instructions and additional information.

^ The total reported in C2 MUST equal the total tons reported in Section D (See Section E).

SECTION D. Methods of Solid Waste Management**Table D1 – On-Site Management (In Tons)**

	Landfilled	Incinerated	Projects at Landfills ^	Stored	Reused (RU) or Recycled (RC) or Composted/Mulched (CM)	TOTAL
MSW	83,037.00				RU RC CM	83,037.00
MSW Ash ¹	0				RU RC CM	0.00
Non-MSW Ash ¹	0				RU RC CM	0.00
Asbestos	2				RU RC CM	2.00
Asphalt	37			448	RU RC CM	485.00
C&D ¹	23,093				RU RC CM	23,093.00
Concrete ¹	47			934	RU RC CM	981.00
Industrial	0				RU RC CM	0.00
LCD	0				RU RC CM	0.00

Front-end Scrap Metal ¹	0					RU	
						RC	0.00
						CM	
Back-end Scrap Metal ¹	0					RU	
						RC	0.00
						CM	
Scrap Metal ¹	0					RU	
						RC	0.00
						CM	
Scrap Tires	0					RU	
						RC	0.00
						CM	
Sewage Sludge	4,949					RU	
						RC	4,949.00
						CM	
Soil	3158			126496		RU	
						RC	129,654.00
						CM	
Special Medical Waste						RU	
						RC	0.00
						CM	
Stored Waste (C1)	0				960.00	RU	
					76,620.00	RC	77,580.00
						CM	
Other 1*: [list] BULKY OBJECTS & LITTER	122					RU	
						RC	122.00
						CM	
Other 2*: [list] PALLETES	0					RU	
						RC	0.00
						CM	
Other 3*: [list] YARD WASTE						RU	
						RC	3,544.00
					3,544.00	CM	
Other 4*: [list]						RU	
						RC	0.00
						CM	
Other 5*: [list]						RU	
						RC	0.00
						CM	
TOTAL TONS (D1)	114,445.00	0.00	0.00	127,878.00	960.00	RU	
					76,620.00	RC	323,447.00
					3,544.00	CM	

[^] Means the use of solid waste or other materials for projects at landfills (e.g. , daily cover, road construction, etc.).

¹ See Section D for definitions and additional information.

* Includes materials such as, **but not limited to**, white goods, compost, wood waste, yard waste, food waste, electronics, pallets, by-pass, and textiles. See Section D for definitions and additional

Total Waste Landfilled in 2022 (omitting non-putrescible items such as soil, concrete waste, asphalt, latex and asbestos) = 111,201 tons

SECTION B. Waste-to-Energy/Incinerator Facilities ONLY

1. Tonnage of MSW ash generated from solid waste accepted at facility:
2. Tonnage of Non-MSW ash generated from solid waste accepted at facility:
3. Tonnage of by-pass generated from solid waste accepted at facility:

	N/A
	N/A
	N/A

SECTION C. Total Amount of Waste Managed at Facility in 2022

TOTAL IN TABLE A1	176,378.00	A1
MSW ASH GENERATED (WTE ONLY)	N/A	B1
NON-MSW ASH GENERATED (WTE ONLY)	N/A	B2
BY-PASS GENERATED (WTE ONLY)	N/A	B3
Stored Waste from Previous Year *	127,878.00	C1
GRAND TOTAL (A1+B1+B2+B3+C1) ^	304,256.00	C2

* Means the waste that was temporarily stockpiled at the site in the previous year but wasn't managed until the current year. See Section C for instructions and additional information.

^ The total reported in C2 MUST equal the total tons reported in Section D (See Section E).

SECTION D. Methods of Solid Waste Management

Table D1 – On-Site Management (In Tons)

	Landfilled	Incinerated	Projects at Landfills ^	Stored	Reused (RU) or Recycled (RC) or Composted/Mulched (CM)	TOTAL
MSW	75,844.90				RU	75,844.90
					RC	
					CM	
MSW Ash ¹	0				RU	0.00
					RC	
					CM	
Non-MSW Ash ¹	0				RU	0.00
					RC	
					CM	
Asbestos	1				RU	1.00
					RC	
					CM	
Asphalt	70.4			325.6	RU	396.00
					RC	
					CM	
C&D ¹	22,760.2				RU	22,760.20
					RC	
					CM	
Concrete ¹	26.2			270	RU	295.80
					RC	
					CM	
Industrial	0				RU	0.00
					RC	
					CM	
LCD	0				RU	0.00
					RC	
					CM	

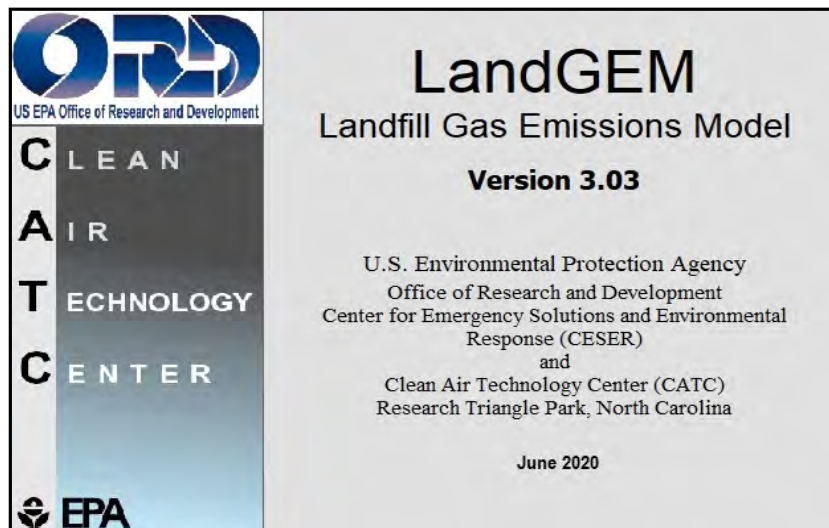
Front-end Scrap Metal ¹	0					RU	0.00
						RC	
						CM	
Back-end Scrap Metal ¹	0					RU	0.00
						RC	
						CM	
Scrap Metal ¹	0					RU	0.00
						RC	
						CM	
Scrap Tires	0					RU	0.00
						RC	
						CM	
Sewage Sludge	4888.2					RU	4,888.20
						RC	
						CM	
Soil	3698.2			59061.6		RU	62,759.80
						RC	
						CM	
Special Medical Waste						RU	0.00
						RC	
						CM	
Stored Waste (C1)	0				1,382.00	RU	127,878.00
					126,496.00	RC	
						CM	
Other 1*: [list] BULKY OBJECTS & LITTER	133.6					RU	133.60
						RC	
						CM	
Other 2*: [list] PALLETS	0					RU	0.00
						RC	
						CM	
Other 3*: [list] YARD WASTE						RU	2,741.60
						RC	
					2,741.60	CM	
Other 4*: [list] WOOD CHIPS						RU	1,212.00
						RC	
					1,212.00	CM	
Other 5*: [list]						RU	0.00
						RC	
						CM	
TOTAL TONS (D1)	107,422.70	0.00	0.00	59,656.80	1,382.00	RU	298,911.10
					126,496.00	RC	
					3,953.60	CM	

^A Means the use of solid waste or other materials for projects at landfills (e.g., daily cover, road construction, etc.).

¹ See Section D for definitions and additional information.

* Includes materials such as, but not limited to, white goods, compost, wood waste, yard waste, food waste, electronics, pallets, by-pass, and textiles. See Section D for definitions and additional

Total Waste Landfilled in 2023 (omitting non-putrescible items such as soil, concrete waste, asphalt, and asbestos)
= 103,626.9 tons



Summary Report

Landfill Name or Identifier: Cecil County Central Landfill

Date: Monday, April 1, 2024

Description/Comments:

Annual NMOC report per 40 CFR Part 62 Subpart OOOO (62.16724(c))

About LandGEM:

First-Order Decomposition Rate Equation:

$$Q_{CH_4} = \sum_{i=1}^n \sum_{j=0.1}^1 k L_o \left(\frac{M_i}{10} \right) e^{-k t_{ij}}$$

Where,

Q_{CH_4} = annual methane generation in the year of the calculation ($m^3/year$)

i = 1-year time increment

n = (year of the calculation) - (initial year of waste acceptance)

j = 0.1-year time increment

k = methane generation rate ($year^{-1}$)

L_o = potential methane generation capacity (m^3/Mg)

M_i = mass of waste accepted in the i^{th} year (Mg)

t_{ij} = age of the j^{th} section of waste mass M_i accepted in the i^{th} year
(decimal years, e.g., 3.2 years)

LandGEM is based on a first-order decomposition rate equation for quantifying emissions from the decomposition of landfilled waste in municipal solid waste (MSW) landfills. The software provides a relatively simple approach to estimating landfill gas emissions. Model defaults are based on empirical data from U.S. landfills. Field test data can also be used in place of model defaults when available. Further guidance on EPA test methods, Clean Air Act (CAA) regulations, and other guidance regarding landfill gas emissions and control technology requirements can be found at <http://www.epa.gov/ttnatw01/landfill/landflpg.html>.

LandGEM is considered a screening tool — the better the input data, the better the estimates. Often, there are limitations with the available data regarding waste quantity and composition, variation in design and operating practices over time, and changes occurring over time that impact the emissions potential. Changes to landfill operation, such as operating under wet conditions through leachate recirculation or other liquid additions, will result in generating more gas at a faster rate. Defaults for estimating emissions for this type of operation are being developed to include in LandGEM along with defaults for conventional landfills (no leachate or liquid additions) for developing emission inventories and determining CAA applicability. Refer to the Web site identified above for future updates.

Input Review

LANDFILL CHARACTERISTICS

Landfill Open Year	1978	
Landfill Closure Year (with 80-year limit)	2028	
Actual Closure Year (without limit)	2028	
Have Model Calculate Closure Year?	No	
Waste Design Capacity	4,380,453	<i>short tons</i>

MODEL PARAMETERS

Methane Generation Rate, k	0.050	<i>year⁻¹</i>
Potential Methane Generation Capacity, L ₀	170	<i>m³/Mg</i>
NMOC Concentration	355	<i>ppmv as hexane</i>
Methane Content	50	<i>% by volume</i>

GASES / POLLUTANTS SELECTED

Gas / Pollutant #1:	Total landfill gas
Gas / Pollutant #2:	Methane
Gas / Pollutant #3:	Carbon dioxide
Gas / Pollutant #4:	NMOC

WASTE ACCEPTANCE RATES

Year	Waste Accepted		Waste-In-Place	
	(Mg/year)	(short tons/year)	(Mg)	(short tons)
1978	52,908	58,198	0	0
1979	53,623	58,985	52,908	58,198
1980	53,623	58,985	106,530	117,183
1981	54,338	59,771	160,153	176,168
1982	55,053	60,558	214,491	235,940
1983	55,053	60,558	269,543	296,498
1984	55,768	61,344	324,596	357,056
1985	56,483	62,131	380,364	418,400
1986	56,483	62,131	436,846	480,531
1987	57,198	62,917	493,329	542,662
1988	57,198	62,917	550,526	605,579
1989	59,342	65,277	607,724	668,496
1990	58,627	64,490	667,066	733,773
1991	65,460	72,006	725,694	798,263
1992	63,737	70,111	791,154	870,269
1993	65,460	72,006	854,891	940,380
1994	64,599	71,059	920,351	1,012,386
1995	60,292	66,321	984,950	1,083,445
1996	58,569	64,426	1,045,242	1,149,766
1997	59,431	65,374	1,103,811	1,214,193
1998	64,599	71,059	1,163,242	1,279,566
1999	63,819	70,201	1,227,841	1,350,625
2000	69,485	76,433	1,291,660	1,420,826
2001	72,092	79,301	1,361,145	1,497,259
2002	66,198	72,818	1,433,236	1,576,560
2003	88,234	97,057	1,499,434	1,649,378
2004	102,373	112,610	1,587,668	1,746,435
2005	121,591	133,750	1,690,041	1,859,045
2006	150,687	165,756	1,811,632	1,992,795
2007	111,532	122,685	1,962,319	2,158,551
2008	99,145	109,060	2,073,851	2,281,236
2009	91,343	100,477	2,172,996	2,390,296
2010	80,357	88,393	2,264,339	2,490,773
2011	79,107	87,018	2,344,696	2,579,166
2012	74,671	82,138	2,423,803	2,666,184
2013	87,533	96,286	2,498,474	2,748,322
2014	86,152	94,767	2,586,007	2,844,608
2015	79,654	87,619	2,672,159	2,939,375
2016	80,677	88,745	2,751,813	3,026,994
2017	83,263	91,589	2,832,490	3,115,739

WASTE ACCEPTANCE RATES (Continued)

Year	Waste Accepted		Waste-In-Place	
	(Mg/year)	(short tons/year)	(Mg)	(short tons)
2018	84,892	93,381	2,915,753	3,207,328
2019	88,485	97,334	3,000,645	3,300,710
2020	93,157	102,473	3,089,131	3,398,044
2021	104,585	115,043	3,182,288	3,500,517
2022	101,092	111,201	3,286,872	3,615,560
2023	94,206	103,627	3,387,964	3,726,761
2024	96,091	105,700	3,482,171	3,830,388
2025	98,013	107,814	3,578,262	3,936,088
2026	99,973	109,970	3,676,274	4,043,902
2027	101,972	112,169	3,776,247	4,153,872
2028	104,011	114,412	3,878,219	4,266,041
2029	0	0	3,982,230	4,380,453
2030	0	0	3,982,230	4,380,453
2031	0	0	3,982,230	4,380,453
2032	0	0	3,982,230	4,380,453
2033	0	0	3,982,230	4,380,453
2034	0	0	3,982,230	4,380,453
2035	0	0	3,982,230	4,380,453
2036	0	0	3,982,230	4,380,453
2037	0	0	3,982,230	4,380,453
2038	0	0	3,982,230	4,380,453
2039	0	0	3,982,230	4,380,453
2040	0	0	3,982,230	4,380,453
2041	0	0	3,982,230	4,380,453
2042	0	0	3,982,230	4,380,453
2043	0	0	3,982,230	4,380,453
2044	0	0	3,982,230	4,380,453
2045	0	0	3,982,230	4,380,453
2046	0	0	3,982,230	4,380,453
2047	0	0	3,982,230	4,380,453
2048	0	0	3,982,230	4,380,453
2049	0	0	3,982,230	4,380,453
2050	0	0	3,982,230	4,380,453
2051	0	0	3,982,230	4,380,453
2052	0	0	3,982,230	4,380,453
2053	0	0	3,982,230	4,380,453
2054	0	0	3,982,230	4,380,453
2055	0	0	3,982,230	4,380,453
2056	0	0	3,982,230	4,380,453
2057	0	0	3,982,230	4,380,453

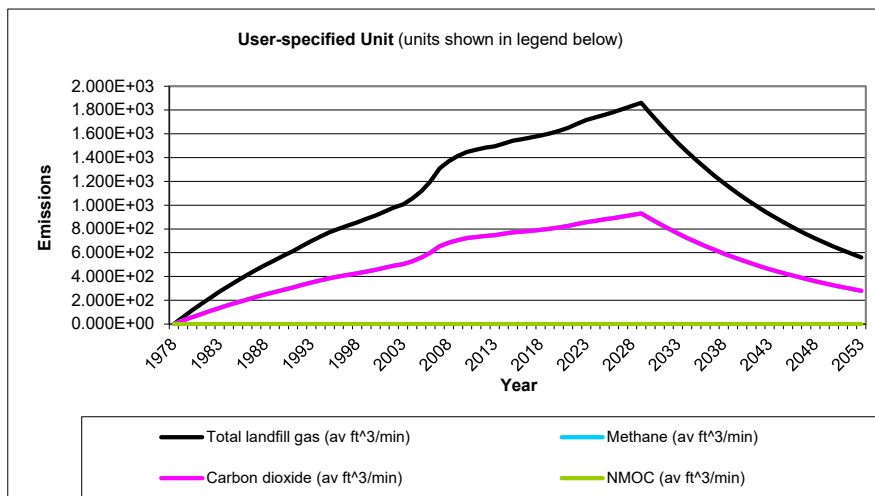
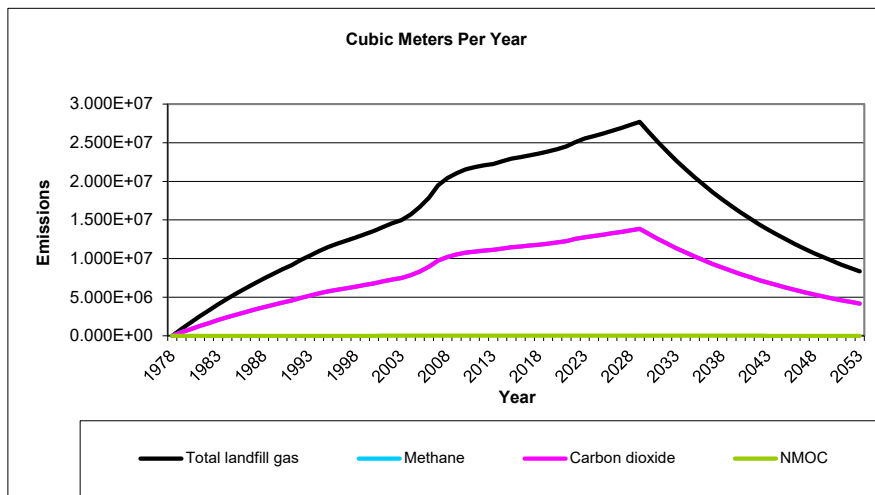
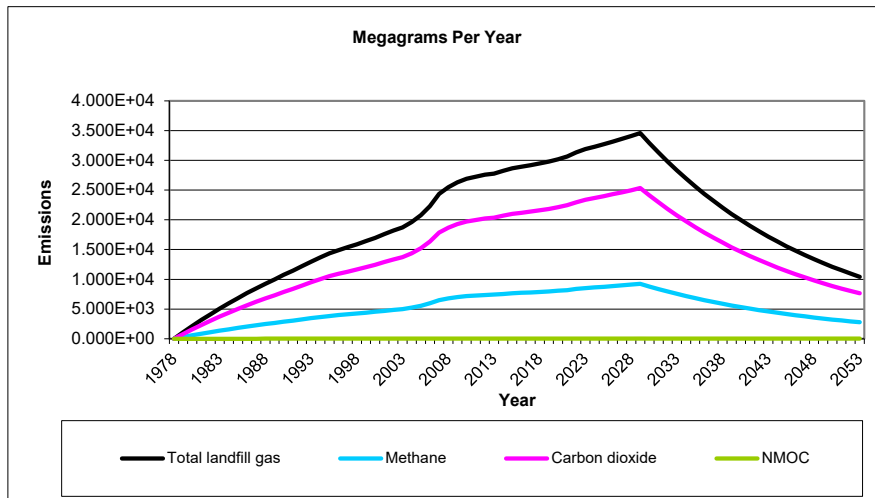
Pollutant Parameters

Gas / Pollutant Default Parameters:				User-specified Pollutant Parameters:	
	Compound	Concentration (ppmv)	Molecular Weight	Concentration (ppmv)	Molecular Weight
Gases	Total landfill gas		0.00		
	Methane		16.04		
	Carbon dioxide		44.01		
	NMOC		86.18		
Pollutants	1,1,1-Trichloroethane (methyl chloroform) - HAP	0.48	133.41		
	1,1,2,2- Tetrachloroethane - HAP/VOC	1.1	167.85		
	1,1-Dichloroethane (ethylidene dichloride) - HAP/VOC	2.4	98.97		
	1,1-Dichloroethene (vinylidene chloride) - HAP/VOC	0.20	96.94		
	1,2-Dichloroethane (ethylene dichloride) - HAP/VOC	0.41	98.96		
	1,2-Dichloropropane (propylene dichloride) - HAP/VOC	0.18	112.99		
	2-Propanol (isopropyl alcohol) - VOC	50	60.11		
	Acetone	7.0	58.08		
	Acrylonitrile - HAP/VOC	6.3	53.06		
	Benzene - No or Unknown Co-disposal - HAP/VOC	1.9	78.11		
	Benzene - Co-disposal - HAP/VOC	11	78.11		
	Bromodichloromethane - VOC	3.1	163.83		
	Butane - VOC	5.0	58.12		
	Carbon disulfide - HAP/VOC	0.58	76.13		
	Carbon monoxide	140	28.01		
	Carbon tetrachloride - HAP/VOC	4.0E-03	153.84		
	Carbonyl sulfide - HAP/VOC	0.49	60.07		
	Chlorobenzene - HAP/VOC	0.25	112.56		
	Chlorodifluoromethane	1.3	86.47		
	Chloroethane (ethyl chloride) - HAP/VOC	1.3	64.52		
	Chloroform - HAP/VOC	0.03	119.39		
	Chloromethane - VOC	1.2	50.49		
	Dichlorobenzene - (HAP for para isomer/VOC)	0.21	147		
	Dichlorodifluoromethane	16	120.91		
	Dichlorofluoromethane - VOC	2.6	102.92		
	Dichloromethane (methylene chloride) - HAP	14	84.94		
	Dimethyl sulfide (methyl sulfide) - VOC	7.8	62.13		
	Ethane	890	30.07		
	Ethanol - VOC	27	46.08		

Pollutant Parameters (Continued)

Gas / Pollutant Default Parameters:				User-specified Pollutant Parameters:	
	Compound	Concentration (ppmv)	Molecular Weight	Concentration (ppmv)	Molecular Weight
Pollutants	Ethyl mercaptan (ethanethiol) - VOC	2.3	62.13		
	Ethylbenzene - HAP/VOC	4.6	106.16		
	Ethylene dibromide - HAP/VOC	1.0E-03	187.88		
	Fluorotrichloromethane - VOC	0.76	137.38		
	Hexane - HAP/VOC	6.6	86.18		
	Hydrogen sulfide	36	34.08		
	Mercury (total) - HAP	2.9E-04	200.61		
	Methyl ethyl ketone - HAP/VOC	7.1	72.11		
	Methyl isobutyl ketone - HAP/VOC	1.9	100.16		
	Methyl mercaptan - VOC	2.5	48.11		
	Pentane - VOC	3.3	72.15		
	Perchloroethylene (tetrachloroethylene) - HAP	3.7	165.83		
	Propane - VOC	11	44.09		
	t-1,2-Dichloroethene - VOC	2.8	96.94		
	Toluene - No or Unknown Co-disposal - HAP/VOC	39	92.13		
	Toluene - Co-disposal - HAP/VOC	170	92.13		
	Trichloroethylene (trichloroethene) - HAP/VOC	2.8	131.40		
	Vinyl chloride - HAP/VOC	7.3	62.50		
	Xylenes - HAP/VOC	12	106.16		

Graphs



Results

Year	Total landfill gas			Methane		
	(Mg/year)	(m ³ /year)	(av ft ³ /min)	(Mg/year)	(m ³ /year)	(av ft ³ /min)
1978	0	0	0	0	0	0
1979	1.098E+03	8.795E+05	5.909E+01	2.934E+02	4.398E+05	2.955E+01
1980	2.158E+03	1.728E+06	1.161E+02	5.764E+02	8.640E+05	5.805E+01
1981	3.166E+03	2.535E+06	1.703E+02	8.457E+02	1.268E+06	8.517E+01
1982	4.140E+03	3.315E+06	2.227E+02	1.106E+03	1.657E+06	1.114E+02
1983	5.081E+03	4.068E+06	2.733E+02	1.357E+03	2.034E+06	1.367E+02
1984	5.976E+03	4.785E+06	3.215E+02	1.596E+03	2.393E+06	1.608E+02
1985	6.842E+03	5.479E+06	3.681E+02	1.828E+03	2.739E+06	1.841E+02
1986	7.681E+03	6.150E+06	4.132E+02	2.052E+03	3.075E+06	2.066E+02
1987	8.479E+03	6.789E+06	4.562E+02	2.265E+03	3.395E+06	2.281E+02
1988	9.253E+03	7.409E+06	4.978E+02	2.471E+03	3.705E+06	2.489E+02
1989	9.989E+03	7.999E+06	5.374E+02	2.668E+03	3.999E+06	2.687E+02
1990	1.073E+04	8.595E+06	5.775E+02	2.867E+03	4.297E+06	2.887E+02
1991	1.143E+04	9.150E+06	6.148E+02	3.052E+03	4.575E+06	3.074E+02
1992	1.223E+04	9.792E+06	6.579E+02	3.266E+03	4.896E+06	3.290E+02
1993	1.296E+04	1.037E+07	6.970E+02	3.461E+03	5.187E+06	3.485E+02
1994	1.368E+04	1.096E+07	7.362E+02	3.655E+03	5.478E+06	3.681E+02
1995	1.436E+04	1.150E+07	7.724E+02	3.835E+03	5.748E+06	3.862E+02
1996	1.491E+04	1.194E+07	8.021E+02	3.982E+03	5.969E+06	4.010E+02
1997	1.540E+04	1.233E+07	8.284E+02	4.113E+03	6.165E+06	4.142E+02
1998	1.588E+04	1.272E+07	8.544E+02	4.242E+03	6.358E+06	4.272E+02
1999	1.645E+04	1.317E+07	8.848E+02	4.393E+03	6.585E+06	4.424E+02
2000	1.697E+04	1.359E+07	9.130E+02	4.533E+03	6.794E+06	4.565E+02
2001	1.758E+04	1.408E+07	9.461E+02	4.697E+03	7.040E+06	4.730E+02
2002	1.822E+04	1.459E+07	9.804E+02	4.868E+03	7.296E+06	4.902E+02
2003	1.871E+04	1.498E+07	1.007E+03	4.997E+03	7.490E+06	5.033E+02
2004	1.963E+04	1.572E+07	1.056E+03	5.243E+03	7.858E+06	5.280E+02
2005	2.080E+04	1.665E+07	1.119E+03	5.555E+03	8.326E+06	5.594E+02
2006	2.231E+04	1.786E+07	1.200E+03	5.958E+03	8.931E+06	6.001E+02
2007	2.435E+04	1.950E+07	1.310E+03	6.503E+03	9.748E+06	6.549E+02
2008	2.547E+04	2.040E+07	1.371E+03	6.804E+03	1.020E+07	6.853E+02
2009	2.629E+04	2.105E+07	1.414E+03	7.022E+03	1.053E+07	7.072E+02
2010	2.690E+04	2.154E+07	1.448E+03	7.186E+03	1.077E+07	7.238E+02
2011	2.726E+04	2.183E+07	1.467E+03	7.281E+03	1.091E+07	7.333E+02
2012	2.757E+04	2.208E+07	1.483E+03	7.365E+03	1.104E+07	7.417E+02
2013	2.778E+04	2.224E+07	1.495E+03	7.420E+03	1.112E+07	7.473E+02
2014	2.824E+04	2.261E+07	1.519E+03	7.543E+03	1.131E+07	7.597E+02
2015	2.865E+04	2.294E+07	1.542E+03	7.653E+03	1.147E+07	7.708E+02
2016	2.891E+04	2.315E+07	1.555E+03	7.722E+03	1.157E+07	7.777E+02
2017	2.917E+04	2.336E+07	1.570E+03	7.792E+03	1.168E+07	7.848E+02
2018	2.948E+04	2.361E+07	1.586E+03	7.874E+03	1.180E+07	7.930E+02
2019	2.980E+04	2.387E+07	1.604E+03	7.961E+03	1.193E+07	8.018E+02
2020	3.019E+04	2.417E+07	1.624E+03	8.063E+03	1.209E+07	8.121E+02
2021	3.065E+04	2.454E+07	1.649E+03	8.187E+03	1.227E+07	8.245E+02
2022	3.132E+04	2.508E+07	1.685E+03	8.367E+03	1.254E+07	8.427E+02
2023	3.190E+04	2.554E+07	1.716E+03	8.520E+03	1.277E+07	8.580E+02
2024	3.230E+04	2.586E+07	1.738E+03	8.627E+03	1.293E+07	8.688E+02
2025	3.272E+04	2.620E+07	1.760E+03	8.739E+03	1.310E+07	8.801E+02
2026	3.315E+04	2.655E+07	1.784E+03	8.856E+03	1.327E+07	8.919E+02
2027	3.361E+04	2.692E+07	1.808E+03	8.978E+03	1.346E+07	9.042E+02

Results (Continued)

Year	Total landfill gas			Methane		
	(Mg/year)	(m ³ /year)	(av ft ³ /min)	(Mg/year)	(m ³ /year)	(av ft ³ /min)
2028	3.409E+04	2.730E+07	1.834E+03	9.106E+03	1.365E+07	9.171E+02
2029	3.459E+04	2.770E+07	1.861E+03	9.239E+03	1.385E+07	9.304E+02
2030	3.290E+04	2.635E+07	1.770E+03	8.788E+03	1.317E+07	8.851E+02
2031	3.130E+04	2.506E+07	1.684E+03	8.360E+03	1.253E+07	8.419E+02
2032	2.977E+04	2.384E+07	1.602E+03	7.952E+03	1.192E+07	8.008E+02
2033	2.832E+04	2.268E+07	1.524E+03	7.564E+03	1.134E+07	7.618E+02
2034	2.694E+04	2.157E+07	1.449E+03	7.195E+03	1.078E+07	7.246E+02
2035	2.562E+04	2.052E+07	1.379E+03	6.844E+03	1.026E+07	6.893E+02
2036	2.437E+04	1.952E+07	1.311E+03	6.510E+03	9.759E+06	6.557E+02
2037	2.318E+04	1.857E+07	1.247E+03	6.193E+03	9.283E+06	6.237E+02
2038	2.205E+04	1.766E+07	1.187E+03	5.891E+03	8.830E+06	5.933E+02
2039	2.098E+04	1.680E+07	1.129E+03	5.604E+03	8.399E+06	5.643E+02
2040	1.996E+04	1.598E+07	1.074E+03	5.330E+03	7.990E+06	5.368E+02
2041	1.898E+04	1.520E+07	1.021E+03	5.070E+03	7.600E+06	5.106E+02
2042	1.806E+04	1.446E+07	9.715E+02	4.823E+03	7.229E+06	4.857E+02
2043	1.718E+04	1.375E+07	9.241E+02	4.588E+03	6.877E+06	4.620E+02
2044	1.634E+04	1.308E+07	8.790E+02	4.364E+03	6.541E+06	4.395E+02
2045	1.554E+04	1.244E+07	8.362E+02	4.151E+03	6.222E+06	4.181E+02
2046	1.478E+04	1.184E+07	7.954E+02	3.949E+03	5.919E+06	3.977E+02
2047	1.406E+04	1.126E+07	7.566E+02	3.756E+03	5.630E+06	3.783E+02
2048	1.338E+04	1.071E+07	7.197E+02	3.573E+03	5.356E+06	3.598E+02
2049	1.272E+04	1.019E+07	6.846E+02	3.399E+03	5.094E+06	3.423E+02
2050	1.210E+04	9.692E+06	6.512E+02	3.233E+03	4.846E+06	3.256E+02
2051	1.151E+04	9.219E+06	6.194E+02	3.075E+03	4.610E+06	3.097E+02
2052	1.095E+04	8.770E+06	5.892E+02	2.925E+03	4.385E+06	2.946E+02
2053	1.042E+04	8.342E+06	5.605E+02	2.783E+03	4.171E+06	2.802E+02
2054	9.909E+03	7.935E+06	5.332E+02	2.647E+03	3.968E+06	2.666E+02
2055	9.426E+03	7.548E+06	5.072E+02	2.518E+03	3.774E+06	2.536E+02
2056	8.966E+03	7.180E+06	4.824E+02	2.395E+03	3.590E+06	2.412E+02
2057	8.529E+03	6.830E+06	4.589E+02	2.278E+03	3.415E+06	2.294E+02
2058	8.113E+03	6.497E+06	4.365E+02	2.167E+03	3.248E+06	2.183E+02
2059	7.718E+03	6.180E+06	4.152E+02	2.061E+03	3.090E+06	2.076E+02
2060	7.341E+03	5.878E+06	3.950E+02	1.961E+03	2.939E+06	1.975E+02
2061	6.983E+03	5.592E+06	3.757E+02	1.865E+03	2.796E+06	1.879E+02
2062	6.643E+03	5.319E+06	3.574E+02	1.774E+03	2.660E+06	1.787E+02
2063	6.319E+03	5.060E+06	3.400E+02	1.688E+03	2.530E+06	1.700E+02
2064	6.010E+03	4.813E+06	3.234E+02	1.605E+03	2.406E+06	1.617E+02
2065	5.717E+03	4.578E+06	3.076E+02	1.527E+03	2.289E+06	1.538E+02
2066	5.438E+03	4.355E+06	2.926E+02	1.453E+03	2.177E+06	1.463E+02
2067	5.173E+03	4.142E+06	2.783E+02	1.382E+03	2.071E+06	1.392E+02
2068	4.921E+03	3.940E+06	2.648E+02	1.314E+03	1.970E+06	1.324E+02
2069	4.681E+03	3.748E+06	2.518E+02	1.250E+03	1.874E+06	1.259E+02
2070	4.453E+03	3.565E+06	2.396E+02	1.189E+03	1.783E+06	1.198E+02
2071	4.235E+03	3.392E+06	2.279E+02	1.131E+03	1.696E+06	1.139E+02
2072	4.029E+03	3.226E+06	2.168E+02	1.076E+03	1.613E+06	1.084E+02
2073	3.832E+03	3.069E+06	2.062E+02	1.024E+03	1.534E+06	1.031E+02
2074	3.645E+03	2.919E+06	1.961E+02	9.738E+02	1.460E+06	9.807E+01
2075	3.468E+03	2.777E+06	1.866E+02	9.263E+02	1.388E+06	9.329E+01
2076	3.299E+03	2.641E+06	1.775E+02	8.811E+02	1.321E+06	8.874E+01
2077	3.138E+03	2.513E+06	1.688E+02	8.381E+02	1.256E+06	8.441E+01
2078	2.985E+03	2.390E+06	1.606E+02	7.972E+02	1.195E+06	8.029E+01

Results (Continued)

Year	Total landfill gas			Methane		
	(Mg/year)	(m ³ /year)	(av ft ³ /min)	(Mg/year)	(m ³ /year)	(av ft ³ /min)
2079	2.839E+03	2.273E+06	1.528E+02	7.584E+02	1.137E+06	7.638E+01
2080	2.701E+03	2.163E+06	1.453E+02	7.214E+02	1.081E+06	7.265E+01
2081	2.569E+03	2.057E+06	1.382E+02	6.862E+02	1.029E+06	6.911E+01
2082	2.444E+03	1.957E+06	1.315E+02	6.527E+02	9.784E+05	6.574E+01
2083	2.324E+03	1.861E+06	1.251E+02	6.209E+02	9.307E+05	6.253E+01
2084	2.211E+03	1.771E+06	1.190E+02	5.906E+02	8.853E+05	5.948E+01
2085	2.103E+03	1.684E+06	1.132E+02	5.618E+02	8.421E+05	5.658E+01
2086	2.001E+03	1.602E+06	1.076E+02	5.344E+02	8.010E+05	5.382E+01
2087	1.903E+03	1.524E+06	1.024E+02	5.083E+02	7.620E+05	5.120E+01
2088	1.810E+03	1.450E+06	9.740E+01	4.836E+02	7.248E+05	4.870E+01
2089	1.722E+03	1.379E+06	9.265E+01	4.600E+02	6.895E+05	4.632E+01
2090	1.638E+03	1.312E+06	8.813E+01	4.375E+02	6.558E+05	4.406E+01
2091	1.558E+03	1.248E+06	8.383E+01	4.162E+02	6.238E+05	4.192E+01
2092	1.482E+03	1.187E+06	7.974E+01	3.959E+02	5.934E+05	3.987E+01
2093	1.410E+03	1.129E+06	7.585E+01	3.766E+02	5.645E+05	3.793E+01
2094	1.341E+03	1.074E+06	7.215E+01	3.582E+02	5.369E+05	3.608E+01
2095	1.276E+03	1.022E+06	6.864E+01	3.408E+02	5.108E+05	3.432E+01
2096	1.213E+03	9.717E+05	6.529E+01	3.241E+02	4.858E+05	3.264E+01
2097	1.154E+03	9.243E+05	6.210E+01	3.083E+02	4.622E+05	3.105E+01
2098	1.098E+03	8.792E+05	5.908E+01	2.933E+02	4.396E+05	2.954E+01
2099	1.044E+03	8.363E+05	5.619E+01	2.790E+02	4.182E+05	2.810E+01
2100	9.935E+02	7.956E+05	5.345E+01	2.654E+02	3.978E+05	2.673E+01
2101	9.451E+02	7.568E+05	5.085E+01	2.524E+02	3.784E+05	2.542E+01
2102	8.990E+02	7.199E+05	4.837E+01	2.401E+02	3.599E+05	2.418E+01
2103	8.551E+02	6.847E+05	4.601E+01	2.284E+02	3.424E+05	2.300E+01
2104	8.134E+02	6.513E+05	4.376E+01	2.173E+02	3.257E+05	2.188E+01
2105	7.737E+02	6.196E+05	4.163E+01	2.067E+02	3.098E+05	2.081E+01
2106	7.360E+02	5.894E+05	3.960E+01	1.966E+02	2.947E+05	1.980E+01
2107	7.001E+02	5.606E+05	3.767E+01	1.870E+02	2.803E+05	1.883E+01
2108	6.660E+02	5.333E+05	3.583E+01	1.779E+02	2.666E+05	1.792E+01
2109	6.335E+02	5.073E+05	3.408E+01	1.692E+02	2.536E+05	1.704E+01
2110	6.026E+02	4.825E+05	3.242E+01	1.610E+02	2.413E+05	1.621E+01
2111	5.732E+02	4.590E+05	3.084E+01	1.531E+02	2.295E+05	1.542E+01
2112	5.453E+02	4.366E+05	2.934E+01	1.456E+02	2.183E+05	1.467E+01
2113	5.187E+02	4.153E+05	2.791E+01	1.385E+02	2.077E+05	1.395E+01
2114	4.934E+02	3.951E+05	2.654E+01	1.318E+02	1.975E+05	1.327E+01
2115	4.693E+02	3.758E+05	2.525E+01	1.254E+02	1.879E+05	1.262E+01
2116	4.464E+02	3.575E+05	2.402E+01	1.192E+02	1.787E+05	1.201E+01
2117	4.246E+02	3.400E+05	2.285E+01	1.134E+02	1.700E+05	1.142E+01
2118	4.039E+02	3.235E+05	2.173E+01	1.079E+02	1.617E+05	1.087E+01

Results (Continued)

Year	Carbon dioxide			NMOC		
	(Mg/year)	(m ³ /year)	(av ft ³ /min)	(Mg/year)	(m ³ /year)	(av ft ³ /min)
1978	0	0	0	0	0	0
1979	8.050E+02	4.398E+05	2.955E+01	1.120E+00	3.125E+02	2.100E-02
1980	1.582E+03	8.640E+05	5.805E+01	2.201E+00	6.140E+02	4.125E-02
1981	2.320E+03	1.268E+06	8.517E+01	3.229E+00	9.007E+02	6.052E-02
1982	3.034E+03	1.657E+06	1.114E+02	4.222E+00	1.178E+03	7.913E-02
1983	3.723E+03	2.034E+06	1.367E+02	5.181E+00	1.445E+03	9.712E-02
1984	4.379E+03	2.393E+06	1.608E+02	6.094E+00	1.700E+03	1.142E-01
1985	5.014E+03	2.739E+06	1.841E+02	6.977E+00	1.947E+03	1.308E-01
1986	5.629E+03	3.075E+06	2.066E+02	7.833E+00	2.185E+03	1.468E-01
1987	6.214E+03	3.395E+06	2.281E+02	8.647E+00	2.412E+03	1.621E-01
1988	6.781E+03	3.705E+06	2.489E+02	9.436E+00	2.632E+03	1.769E-01
1989	7.321E+03	3.999E+06	2.687E+02	1.019E+01	2.842E+03	1.909E-01
1990	7.867E+03	4.297E+06	2.887E+02	1.095E+01	3.054E+03	2.052E-01
1991	8.375E+03	4.575E+06	3.074E+02	1.165E+01	3.251E+03	2.184E-01
1992	8.962E+03	4.896E+06	3.290E+02	1.247E+01	3.479E+03	2.338E-01
1993	9.495E+03	5.187E+06	3.485E+02	1.321E+01	3.686E+03	2.477E-01
1994	1.003E+04	5.478E+06	3.681E+02	1.395E+01	3.893E+03	2.616E-01
1995	1.052E+04	5.748E+06	3.862E+02	1.464E+01	4.085E+03	2.744E-01
1996	1.093E+04	5.969E+06	4.010E+02	1.520E+01	4.241E+03	2.850E-01
1997	1.128E+04	6.165E+06	4.142E+02	1.570E+01	4.380E+03	2.943E-01
1998	1.164E+04	6.358E+06	4.272E+02	1.619E+01	4.518E+03	3.036E-01
1999	1.205E+04	6.585E+06	4.424E+02	1.677E+01	4.679E+03	3.144E-01
2000	1.244E+04	6.794E+06	4.565E+02	1.731E+01	4.828E+03	3.244E-01
2001	1.289E+04	7.040E+06	4.730E+02	1.793E+01	5.003E+03	3.361E-01
2002	1.336E+04	7.296E+06	4.902E+02	1.858E+01	5.185E+03	3.484E-01
2003	1.371E+04	7.490E+06	5.033E+02	1.908E+01	5.323E+03	3.576E-01
2004	1.438E+04	7.858E+06	5.280E+02	2.002E+01	5.584E+03	3.752E-01
2005	1.524E+04	8.326E+06	5.594E+02	2.121E+01	5.917E+03	3.975E-01
2006	1.635E+04	8.931E+06	6.001E+02	2.275E+01	6.346E+03	4.264E-01
2007	1.784E+04	9.748E+06	6.549E+02	2.483E+01	6.927E+03	4.654E-01
2008	1.867E+04	1.020E+07	6.853E+02	2.598E+01	7.248E+03	4.870E-01
2009	1.927E+04	1.053E+07	7.072E+02	2.681E+01	7.480E+03	5.026E-01
2010	1.972E+04	1.077E+07	7.238E+02	2.744E+01	7.654E+03	5.143E-01
2011	1.998E+04	1.091E+07	7.333E+02	2.780E+01	7.756E+03	5.211E-01
2012	2.021E+04	1.104E+07	7.417E+02	2.812E+01	7.845E+03	5.271E-01
2013	2.036E+04	1.112E+07	7.473E+02	2.833E+01	7.903E+03	5.310E-01
2014	2.070E+04	1.131E+07	7.597E+02	2.880E+01	8.035E+03	5.398E-01
2015	2.100E+04	1.147E+07	7.708E+02	2.922E+01	8.152E+03	5.477E-01
2016	2.119E+04	1.157E+07	7.777E+02	2.948E+01	8.225E+03	5.526E-01
2017	2.138E+04	1.168E+07	7.848E+02	2.975E+01	8.300E+03	5.577E-01
2018	2.160E+04	1.180E+07	7.930E+02	3.006E+01	8.387E+03	5.635E-01
2019	2.184E+04	1.193E+07	8.018E+02	3.039E+01	8.479E+03	5.697E-01
2020	2.212E+04	1.209E+07	8.121E+02	3.078E+01	8.588E+03	5.771E-01
2021	2.246E+04	1.227E+07	8.245E+02	3.126E+01	8.720E+03	5.859E-01
2022	2.296E+04	1.254E+07	8.427E+02	3.195E+01	8.912E+03	5.988E-01
2023	2.338E+04	1.277E+07	8.580E+02	3.253E+01	9.075E+03	6.097E-01
2024	2.367E+04	1.293E+07	8.688E+02	3.294E+01	9.188E+03	6.174E-01
2025	2.398E+04	1.310E+07	8.801E+02	3.336E+01	9.308E+03	6.254E-01
2026	2.430E+04	1.327E+07	8.919E+02	3.381E+01	9.433E+03	6.338E-01
2027	2.463E+04	1.346E+07	9.042E+02	3.428E+01	9.563E+03	6.426E-01

Results (Continued)

Year	Carbon dioxide			NMOC		
	(Mg/year)	(m ³ /year)	(av ft ³ /min)	(Mg/year)	(m ³ /year)	(av ft ³ /min)
2028	2.498E+04	1.365E+07	9.171E+02	3.477E+01	9.699E+03	6.517E-01
2029	2.535E+04	1.385E+07	9.304E+02	3.527E+01	9.840E+03	6.612E-01
2030	2.411E+04	1.317E+07	8.851E+02	3.355E+01	9.360E+03	6.289E-01
2031	2.294E+04	1.253E+07	8.419E+02	3.192E+01	8.904E+03	5.983E-01
2032	2.182E+04	1.192E+07	8.008E+02	3.036E+01	8.470E+03	5.691E-01
2033	2.075E+04	1.134E+07	7.618E+02	2.888E+01	8.057E+03	5.413E-01
2034	1.974E+04	1.078E+07	7.246E+02	2.747E+01	7.664E+03	5.149E-01
2035	1.878E+04	1.026E+07	6.893E+02	2.613E+01	7.290E+03	4.898E-01
2036	1.786E+04	9.759E+06	6.557E+02	2.486E+01	6.934E+03	4.659E-01
2037	1.699E+04	9.283E+06	6.237E+02	2.364E+01	6.596E+03	4.432E-01
2038	1.616E+04	8.830E+06	5.933E+02	2.249E+01	6.275E+03	4.216E-01
2039	1.537E+04	8.399E+06	5.643E+02	2.139E+01	5.969E+03	4.010E-01
2040	1.462E+04	7.990E+06	5.368E+02	2.035E+01	5.677E+03	3.815E-01
2041	1.391E+04	7.600E+06	5.106E+02	1.936E+01	5.401E+03	3.629E-01
2042	1.323E+04	7.229E+06	4.857E+02	1.841E+01	5.137E+03	3.452E-01
2043	1.259E+04	6.877E+06	4.620E+02	1.752E+01	4.887E+03	3.283E-01
2044	1.197E+04	6.541E+06	4.395E+02	1.666E+01	4.648E+03	3.123E-01
2045	1.139E+04	6.222E+06	4.181E+02	1.585E+01	4.422E+03	2.971E-01
2046	1.083E+04	5.919E+06	3.977E+02	1.508E+01	4.206E+03	2.826E-01
2047	1.031E+04	5.630E+06	3.783E+02	1.434E+01	4.001E+03	2.688E-01
2048	9.803E+03	5.356E+06	3.598E+02	1.364E+01	3.806E+03	2.557E-01
2049	9.325E+03	5.094E+06	3.423E+02	1.298E+01	3.620E+03	2.432E-01
2050	8.871E+03	4.846E+06	3.256E+02	1.234E+01	3.444E+03	2.314E-01
2051	8.438E+03	4.610E+06	3.097E+02	1.174E+01	3.276E+03	2.201E-01
2052	8.026E+03	4.385E+06	2.946E+02	1.117E+01	3.116E+03	2.094E-01
2053	7.635E+03	4.171E+06	2.802E+02	1.062E+01	2.964E+03	1.991E-01
2054	7.263E+03	3.968E+06	2.666E+02	1.011E+01	2.819E+03	1.894E-01
2055	6.908E+03	3.774E+06	2.536E+02	9.613E+00	2.682E+03	1.802E-01
2056	6.571E+03	3.590E+06	2.412E+02	9.144E+00	2.551E+03	1.714E-01
2057	6.251E+03	3.415E+06	2.294E+02	8.698E+00	2.427E+03	1.630E-01
2058	5.946E+03	3.248E+06	2.183E+02	8.274E+00	2.308E+03	1.551E-01
2059	5.656E+03	3.090E+06	2.076E+02	7.870E+00	2.196E+03	1.475E-01
2060	5.380E+03	2.939E+06	1.975E+02	7.487E+00	2.089E+03	1.403E-01
2061	5.118E+03	2.796E+06	1.879E+02	7.121E+00	1.987E+03	1.335E-01
2062	4.868E+03	2.660E+06	1.787E+02	6.774E+00	1.890E+03	1.270E-01
2063	4.631E+03	2.530E+06	1.700E+02	6.444E+00	1.798E+03	1.208E-01
2064	4.405E+03	2.406E+06	1.617E+02	6.129E+00	1.710E+03	1.149E-01
2065	4.190E+03	2.289E+06	1.538E+02	5.831E+00	1.627E+03	1.093E-01
2066	3.986E+03	2.177E+06	1.463E+02	5.546E+00	1.547E+03	1.040E-01
2067	3.791E+03	2.071E+06	1.392E+02	5.276E+00	1.472E+03	9.889E-02
2068	3.606E+03	1.970E+06	1.324E+02	5.018E+00	1.400E+03	9.407E-02
2069	3.431E+03	1.874E+06	1.259E+02	4.774E+00	1.332E+03	8.948E-02
2070	3.263E+03	1.783E+06	1.198E+02	4.541E+00	1.267E+03	8.512E-02
2071	3.104E+03	1.696E+06	1.139E+02	4.319E+00	1.205E+03	8.097E-02
2072	2.953E+03	1.613E+06	1.084E+02	4.109E+00	1.146E+03	7.702E-02
2073	2.809E+03	1.534E+06	1.031E+02	3.908E+00	1.090E+03	7.326E-02
2074	2.672E+03	1.460E+06	9.807E+01	3.718E+00	1.037E+03	6.969E-02
2075	2.541E+03	1.388E+06	9.329E+01	3.536E+00	9.866E+02	6.629E-02
2076	2.417E+03	1.321E+06	8.874E+01	3.364E+00	9.385E+02	6.306E-02
2077	2.300E+03	1.256E+06	8.441E+01	3.200E+00	8.927E+02	5.998E-02
2078	2.187E+03	1.195E+06	8.029E+01	3.044E+00	8.492E+02	5.706E-02

Results (Continued)

Year	Carbon dioxide			NMOC		
	(Mg/year)	(m ³ /year)	(av ft ³ /min)	(Mg/year)	(m ³ /year)	(av ft ³ /min)
2079	2.081E+03	1.137E+06	7.638E+01	2.895E+00	8.078E+02	5.427E-02
2080	1.979E+03	1.081E+06	7.265E+01	2.754E+00	7.684E+02	5.163E-02
2081	1.883E+03	1.029E+06	6.911E+01	2.620E+00	7.309E+02	4.911E-02
2082	1.791E+03	9.784E+05	6.574E+01	2.492E+00	6.952E+02	4.671E-02
2083	1.704E+03	9.307E+05	6.253E+01	2.371E+00	6.613E+02	4.443E-02
2084	1.620E+03	8.853E+05	5.948E+01	2.255E+00	6.291E+02	4.227E-02
2085	1.541E+03	8.421E+05	5.658E+01	2.145E+00	5.984E+02	4.021E-02
2086	1.466E+03	8.010E+05	5.382E+01	2.040E+00	5.692E+02	3.825E-02
2087	1.395E+03	7.620E+05	5.120E+01	1.941E+00	5.415E+02	3.638E-02
2088	1.327E+03	7.248E+05	4.870E+01	1.846E+00	5.150E+02	3.461E-02
2089	1.262E+03	6.895E+05	4.632E+01	1.756E+00	4.899E+02	3.292E-02
2090	1.200E+03	6.558E+05	4.406E+01	1.670E+00	4.660E+02	3.131E-02
2091	1.142E+03	6.238E+05	4.192E+01	1.589E+00	4.433E+02	2.979E-02
2092	1.086E+03	5.934E+05	3.987E+01	1.512E+00	4.217E+02	2.833E-02
2093	1.033E+03	5.645E+05	3.793E+01	1.438E+00	4.011E+02	2.695E-02
2094	9.829E+02	5.369E+05	3.608E+01	1.368E+00	3.816E+02	2.564E-02
2095	9.349E+02	5.108E+05	3.432E+01	1.301E+00	3.629E+02	2.439E-02
2096	8.893E+02	4.858E+05	3.264E+01	1.238E+00	3.452E+02	2.320E-02
2097	8.460E+02	4.622E+05	3.105E+01	1.177E+00	3.284E+02	2.207E-02
2098	8.047E+02	4.396E+05	2.954E+01	1.120E+00	3.124E+02	2.099E-02
2099	7.655E+02	4.182E+05	2.810E+01	1.065E+00	2.972E+02	1.997E-02
2100	7.281E+02	3.978E+05	2.673E+01	1.013E+00	2.827E+02	1.899E-02
2101	6.926E+02	3.784E+05	2.542E+01	9.638E-01	2.689E+02	1.807E-02
2102	6.588E+02	3.599E+05	2.418E+01	9.168E-01	2.558E+02	1.718E-02
2103	6.267E+02	3.424E+05	2.300E+01	8.721E-01	2.433E+02	1.635E-02
2104	5.961E+02	3.257E+05	2.188E+01	8.295E-01	2.314E+02	1.555E-02
2105	5.671E+02	3.098E+05	2.081E+01	7.891E-01	2.201E+02	1.479E-02
2106	5.394E+02	2.947E+05	1.980E+01	7.506E-01	2.094E+02	1.407E-02
2107	5.131E+02	2.803E+05	1.883E+01	7.140E-01	1.992E+02	1.338E-02
2108	4.881E+02	2.666E+05	1.792E+01	6.792E-01	1.895E+02	1.273E-02
2109	4.643E+02	2.536E+05	1.704E+01	6.460E-01	1.802E+02	1.211E-02
2110	4.416E+02	2.413E+05	1.621E+01	6.145E-01	1.714E+02	1.152E-02
2111	4.201E+02	2.295E+05	1.542E+01	5.846E-01	1.631E+02	1.096E-02
2112	3.996E+02	2.183E+05	1.467E+01	5.561E-01	1.551E+02	1.042E-02
2113	3.801E+02	2.077E+05	1.395E+01	5.289E-01	1.476E+02	9.915E-03
2114	3.616E+02	1.975E+05	1.327E+01	5.031E-01	1.404E+02	9.431E-03
2115	3.439E+02	1.879E+05	1.262E+01	4.786E-01	1.335E+02	8.971E-03
2116	3.272E+02	1.787E+05	1.201E+01	4.553E-01	1.270E+02	8.534E-03
2117	3.112E+02	1.700E+05	1.142E+01	4.331E-01	1.208E+02	8.117E-03
2118	2.960E+02	1.617E+05	1.087E+01	4.119E-01	1.149E+02	7.722E-03