

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION AIR QUALITY PROGRAM

STATE ONLY SYNTHETIC MINOR OPERATING PERMIT

Issue Date: February 22, 2022 Effective Date: February 22, 2022

Expiration Date: February 21, 2027

In accordance with the provisions of the Air Pollution Control Act, the Act of January 8, 1960, P.L. 2119, as amended, and 25 Pa. Code Chapter 127, the Owner, [and Operator if noted] (hereinafter referred to as permittee) identified below is authorized by the Department of Environmental Protection (Department) to operate the air emission source(s) more fully described in this permit. This Facility is subject to all terms and conditions specified in this permit. Nothing in this permit relieves the permittee from its obligations to comply with all applicable Federal, State and Local laws and regulations.

The regulatory or statutory authority for each permit condition is set forth in brackets. All terms and conditions in this permit are federally enforceable unless otherwise designated.

State Only Permit No: 09-00102

Synthetic Minor

Federal Tax Id - Plant Code: 20-4755155-1

Owner Information

Name: CLEAN EARTH OF SOUTHEAST PALLC

Mailing Address: 7 STEEL RD E

MORRISVILLE, PA 19067-3613

Plant Information

Plant: CLEAN EARTH OF SOUTHEAST PA/MORRISVILLE

Location: 09 Bucks County 09002 Falls Township

SIC Code: 4953 Trans. & Utilities - Refuse Systems

Responsible Official

Name: MICHAEL GOEBNER

Title: PRES

Phone: (215) 734 - 1400 Email: mgoebner@harsco.com

Permit Contact Person

Name: JOSEPH SIRAVO Title: COMPLIANCE MGR Phone: (215) 428 - 1700

none: (215) 428 - 1700 Email: jsiravo@cleanearthinc.com

[Signature]

JAMES D. REBARCHAK, SOUTHEAST REGION AIR PROGRAM MANAGER



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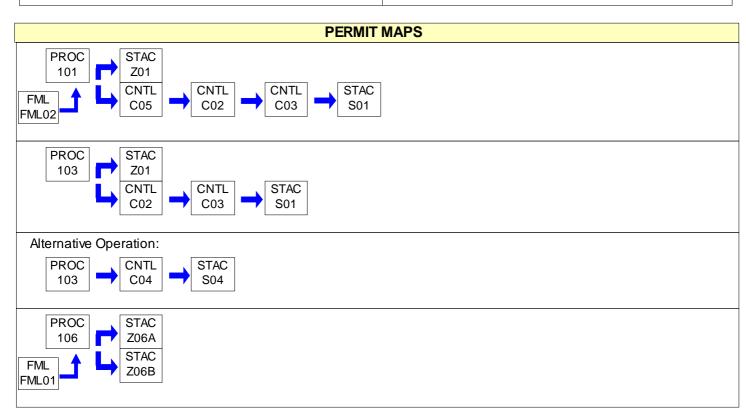






SECTION A. Site Inventory List

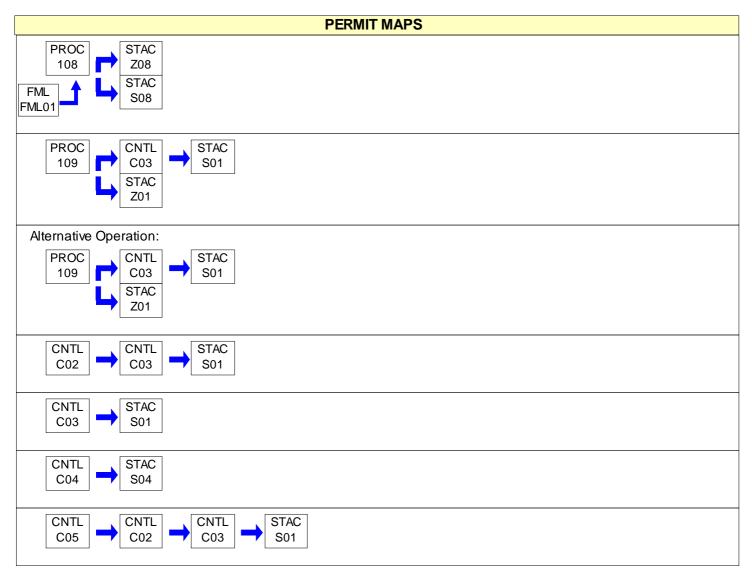
Source	D Source Name	Capacity/	Throughput	Fuel/Material
101	PRIMARY TREATMENT UNIT	84,000.000	CF/HR	Natural Gas
		130.000	MCF/HR	Natural Gas
		80.000	Tons/HR	SOIL
103	STORAGE BUILDING & PILES		N/A	SOIL
106	EXTEC/ROBOTRAC SCREEN W/ DIESEL ENGINE	350.000	Tons/HR	SOIL
		5.230	Gal/HR	Diesel Fuel
108	SANDVIK SCREEN W/ CATERPILLAR ENGINE	992.000	Tons/HR	SOIL
		6.980	Gal/HR	Diesel Fuel
109	PUGMILL MIXER		N/A	SOIL
C02	AFTERBURNER & QUENCH TANK	60,000.000	CF/HR	Natural Gas
C03	BAGHOUSE		N/A	SOIL
C04	CARBON ADSORPTION SYSTEM		N/A	SOIL
C05	36-CONE MULTI-CONE CYCLONE		N/A	SOIL
FML01	DIESEL FUEL			
FML02	NATURAL GAS			
S01	BAGHOUSE STACK			
S04	CARBON ADSORPTION STACK			
S08	CATERPILLAR ENGINE EMISSIONS			
Z01	FUGITIVE EMISSIONS			
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DEP Auth ID: 1323730 DEP PF ID: 510887











#001 [25 Pa. Code § 121.1]

Definitions.

Words and terms that are not otherwise defined in this permit shall have the meanings set forth in Section 3 of the Air Pollution Control Act (35 P.S. § 4003) and in 25 Pa. Code § 121.1.

#002 [25 Pa. Code § 127.446]

Operating Permit Duration.

- (a) This operating permit is issued for a fixed term of five (5) years and shall expire on the date specified on Page 1 of this permit.
- (b) The terms and conditions of the expired permit shall automatically continue pending issuance of a new operating permit, provided the permittee has submitted a timely and complete application and paid applicable fees required under 25 Pa. Code Chapter 127, Subchapter I and the Department is unable, through no fault of the permittee, to issue or deny a new permit before the expiration of the previous permit.

#003 [25 Pa. Code §§ 127.412, 127.413, 127.414, 127.446 & 127.703(b)]

Permit Renewal.

- (a) The permittee shall submit a timely and complete application for renewal of the operating permit to the appropriate Regional Air Program Manager. The application for renewal of the operating permit shall be submitted at least six (6) months and not more than 18 months before the expiration date of this permit.
- (b) The application for permit renewal shall include the current permit number, a description of any permit revisions that occurred during the permit term, and any applicable requirements that were promulgated and not incorporated into the permit during the permit term. An application is complete if it contains sufficient information to begin processing the application, has the applicable sections completed and has been signed by a responsible official.
- (c) The permittee shall submit with the renewal application a fee for the processing of the application as specified in 25 Pa. Code § 127.703(b). The fees shall be made payable to "The Commonwealth of Pennsylvania Clean Air Fund" and submitted with the fee form to the respective regional office.
- (d) The renewal application shall also include submission of proof that the local municipality and county, in which the facility is located, have been notified in accordance with 25 Pa. Code § 127.413.
- (e) The application for renewal of the operating permit shall also include submission of supplemental compliance review forms in accordance with the requirements of 25 Pa. Code § 127.412(b) and § 127.412(j).
- (f) The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information as necessary to address any requirements that become applicable to the source after the permittee submits a complete application, but prior to the date the Department takes action on the permit application.

#004 [25 Pa. Code § 127.703]

Operating Permit Fees under Subchapter I.

- (a) The permittee shall pay the annual operating permit maintenance fee according to the following fee schedule in either paragraph (1) or (2) in accordance with 25 Pa. Code § 127.703(d) on or before December 31 of each year for the next calendar year.
 - (1) For a synthetic minor facility, a fee equal to:
 - (i) Four thousand dollars (\$4,000) for calendar years 2021—2025.
 - (ii) Five thousand dollars (\$5,000) for calendar years 2026—2030.
 - (iii) Six thousand three hundred dollars (\$6,300) for the calendar years beginning with 2031.





- (2) For a facility that is not a synthetic minor, a fee equal to:
 - (i) Two thousand dollars (\$2,000) for calendar years 2021—2025.
 - (ii) Two thousand five hundred dollars (\$2,500) for calendar years 2026—2030.
 - (iii) Three thousand one hundred dollars (\$3,100) for the calendar years beginning with 2031.
- (b) The applicable fees shall be made payable to "The Commonwealth of Pennsylvania Clean Air Fund" with the permit number clearly indicated and submitted to the respective regional office.

#005 [25 Pa. Code §§ 127.450 (a)(4) and 127.464]

Transfer of Operating Permits.

- (a) This operating permit may not be transferred to another person, except in cases of transfer-of-ownership that are documented and approved by the Department.
- (b) In accordance with 25 Pa. Code § 127.450(a)(4), a change in ownership of the source shall be treated as an administrative amendment if the Department determines that no other change in the permit is required and a written agreement has been submitted to the Department identifying the specific date of the transfer of permit responsibility, coverage and liability between the current and the new permittee and a compliance review form has been submitted to, and the permit transfer has been approved by, the Department.
- (c) This operating permit is valid only for those specific sources and the specific source locations described in this permit.

#006 [25 Pa. Code § 127.441 and 35 P.S. § 4008]

Inspection and Entry.

- (a) Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Department or authorized representatives of the Department to perform the following:
- (1) Enter at reasonable times upon the permittee's premises where a source is located or emissions related activity is conducted, or where records are kept under the conditions of this permit;
 - (2) Have access to and copy, at reasonable times, any records that are kept under the conditions of this permit;
- (3) Inspect at reasonable times, any facilities, equipment including monitoring and air pollution control equipment, practices, or operations regulated or required under this permit;
- (4) Sample or monitor, at reasonable times, any substances or parameters, for the purpose of assuring compliance with the permit or applicable requirements as authorized by the Clean Air Act, the Air Pollution Control Act, or the regulations promulgated under the Acts.
- (b) Pursuant to 35 P.S. § 4008, no person shall hinder, obstruct, prevent or interfere with the Department or its personnel in the performance of any duty authorized under the Air Pollution Control Act or regulations adopted thereunder including denying the Department access to a source at this facility. Refusal of entry or access may constitute grounds for permit revocation and assessment of criminal and/or civil penalties.
- (c) Nothing in this permit condition shall limit the ability of the EPA to inspect or enter the premises of the permittee in accordance with Section 114 or other applicable provisions of the Clean Air Act.

#007 [25 Pa. Code §§ 127.441 & 127.444]

Compliance Requirements.

(a) The permittee shall comply with the conditions of this operating permit. Noncompliance with this permit constitutes a violation of the Clean Air Act and the Air Pollution Control Act and is grounds for one or more of the following:





- (1) Enforcement action
- (2) Permit termination, revocation and reissuance or modification
- (3) Denial of a permit renewal application
- (b) A person may not cause or permit the operation of a source which is subject to 25 Pa. Code Article III unless the source(s) and air cleaning devices identified in the application for the plan approval and operating permit and the plan approval issued for the source is operated and maintained in accordance with specifications in the applications and the conditions in the plan approval and operating permit issued by the Department. A person may not cause or permit the operation of an air contamination source subject to 25 Pa. Code Chapter 127 in a manner inconsistent with good operating practices.
- (c) For purposes of Sub-condition (b) of this permit condition, the specifications in applications for plan approvals and operating permits are the physical configurations and engineering design details which the Department determines are essential for the permittee's compliance with the applicable requirements in this State-Only permit. Nothing in this sub-condition shall be construed to create an independent affirmative duty upon the permittee to obtain a predetermination from the Department for physical configuration or engineering design detail changes made by the permittee.

#008 [25 Pa. Code § 127.441]

Need to Halt or Reduce Activity Not a Defense.

It shall not be a defense for the permittee in an enforcement action that it was necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

#009 [25 Pa. Code §§ 127.442(a) & 127.461]

Duty to Provide Information.

- (a) The permittee shall submit reports to the Department containing information the Department may prescribe relative to the operation and maintenance of each source at the facility.
- (b) The permittee shall furnish to the Department, in writing, information that the Department may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Department copies of records that the permittee is required to maintain in accordance with this permit.

#010 [25 Pa. Code § 127.461]

Revising an Operating Permit for Cause.

This operating permit may be terminated, modified, suspended or revoked and reissued if one or more of the following applies:

- (1) The permittee constructs or operates the source subject to the operating permit so that it is in violation of the Air Pollution Control Act, the Clean Air Act, the regulations thereunder, a plan approval, a permit or in a manner that causes air pollution.
- (2) The permittee fails to properly or adequately maintain or repair an air pollution control device or equipment attached to or otherwise made a part of the source.
- (3) The permittee has failed to submit a report required by the operating permit or an applicable regulation.
- (4) The EPA determines that the permit is not in compliance with the Clean Air Act or the regulations thereunder.

#011 [25 Pa. Code §§ 127.450, 127.462, 127.465 & 127.703]

Operating Permit Modifications

(a) The permittee is authorized to make administrative amendments, minor operating permit modifications and significant operating permit modifications, under this permit, as outlined below:



- (b) Administrative Amendments. The permittee shall submit the application for administrative operating permit amendments (as defined in 25 Pa. Code § 127.450(a)), according to procedures specified in § 127.450 unless precluded by the Clean Air Act or its regulations.
- (c) Minor Operating Permit Modifications. The permittee shall submit the application for minor operating permit modifications (as defined 25 Pa. Code § 121.1) in accordance with 25 Pa. Code § 127.462.
- (d) Significant Operating Permit Modifications. The permittee shall submit the application for significant operating permit modifications in accordance with 25 Pa. Code § 127.465.
- (e) The applicable fees shall be made payable to "The Commonwealth of Pennsylvania Clean Air Fund" with the permit number clearly indicated and submitted to the respective regional office.

#012 [25 Pa. Code § 127.441]

Severability Clause.

The provisions of this permit are severable, and if any provision of this permit is determined by a court of competent jurisdiction to be invalid or unenforceable, such a determination will not affect the remaining provisions of this permit.

#013 [25 Pa. Code § 127.449]

De Minimis Emission Increases.

- (a) This permit authorizes de minimis emission increases in accordance with 25 Pa. Code § 127.449 so long as the permittee provides the Department with seven (7) days prior written notice before commencing any de minimis emissions increase. The written notice shall:
 - (1) Identify and describe the pollutants that will be emitted as a result of the de minimis emissions increase.
- (2) Provide emission rates expressed in tons per year and in terms necessary to establish compliance consistent with any applicable requirement.
- (b) The Department may disapprove or condition de minimis emission increases at any time.
- (c) Except as provided below in (d), the permittee is authorized to make de minimis emission increases (expressed in tons per year) up to the following amounts without the need for a plan approval or prior issuance of a permit modification:
- (1) Four tons of carbon monoxide from a single source during the term of the permit and 20 tons of carbon monoxide at the facility during the term of the permit.
- (2) One ton of NOx from a single source during the term of the permit and 5 tons of NOx at the facility during the term of the permit.
- (3) One and six-tenths tons of the oxides of sulfur from a single source during the term of the permit and 8.0 tons of oxides of sulfur at the facility during the term of the permit.
- (4) Six-tenths of a ton of PM10 from a single source during the term of the permit and 3.0 tons of PM10 at the facility during the term of the permit. This shall include emissions of a pollutant regulated under Section 112 of the Clean Air Act unless precluded by the Clean Air Act, the regulations thereunder or 25 Pa. Code Article III.
- (5) One ton of VOCs from a single source during the term of the permit and 5.0 tons of VOCs at the facility during the term of the permit. This shall include emissions of a pollutant regulated under Section 112 of the Clean Air Act unless precluded by the Clean Air Act, the regulations thereunder or 25 Pa. Code Article III.
 - (6) Other sources and classes of sources determined to be of minor significance by the Department.
- (d) In accordance with § 127.14, the permittee is authorized to install the following minor sources without the need for a plan approval or permit modification:





- (1) Air conditioning or ventilation systems not designed to remove pollutants generated or released from other sources.
 - (2) Combustion units rated at 2,500,000 or less Btu per hour of heat input.
- (3) Combustion units with a rated capacity of less than 10,000,000 Btu per hour heat input fueled by natural gas supplied by a public utility or by commercial fuel oils which are No. 2 or lighter, viscosity less than or equal to 5.82 c St, and which meet the sulfur content requirements of 25 Pa. Code §123.22 (relating to combustion units). For purposes of this permit, commercial fuel oil shall be virgin oil which has no reprocessed, recycled or waste material added.
 - (4) Space heaters which heat by direct heat transfer.
 - (5) Laboratory equipment used exclusively for chemical or physical analysis.
 - (6) Other sources and classes of sources determined to be of minor significance by the Department.
- (e) This permit does not authorize de minimis emission increases if the emissions increase would cause one or more of the following:
- (1) Increase the emissions of a pollutant regulated under Section 112 of the Clean Air Act except as authorized in Subparagraphs (c)(4) and (5) of this permit condition.
- (2) Subject the facility to the prevention of significant deterioration requirements in 25 Pa. Code Chapter 127, Subchapter D and/or the new source review requirements in Subchapter E.
- (3) Violate any applicable requirement of this permit, the Air Pollution Control Act, the Clean Air Act, or the regulations promulgated under either of the acts.
- (f) Emissions authorized under this permit condition shall be included in the monitoring, recordkeeping and reporting requirements of this permit.
- (g) Except for de minimis emission increases, installation of minor sources made pursuant to this permit condition and Plan Approval Exemptions under 25 Pa. Code § 127.14 (relating to exemptions), the permittee is prohibited from making changes or engaging in activities that are not specifically authorized under this permit without first applying for a plan approval. In accordance with § 127.14(b), a plan approval is not required for the construction, modification, reactivation, or installation of the sources creating the de minimis emissions increase.
- (h) The permittee may not meet de minimis emission threshold levels by offsetting emission increases or decreases at the same source.

#014 [25 Pa. Code § 127.3]

Operational Flexibility.

The permittee is authorized to make changes within the facility in accordance with the regulatory provisions outlined in 25 Pa. Code § 127.3 (relating to operational flexibility) to implement the operational flexibility requirements provisions authorized under Section 6.1(i) of the Air Pollution Control Act and the operational flexibility terms and conditions of this permit. The provisions in 25 Pa. Code Chapter 127 which implement the operational flexibility requirements include the following:

- (1) Section 127.14 (relating to exemptions)
- (2) Section 127.447 (relating to alternative operating scenarios)
- (3) Section 127.448 (relating to emissions trading at facilities with Federally enforceable emissions caps)
- (4) Section 127.449 (relating to de minimis emission increases)
- (5) Section 127.450 (relating to administrative operating permit amendments)







- (6) Section 127.462 (relating to minor operating permit modifications)
- (7) Subchapter H (relating to general plan approvals and general operating permits)

#015 [25 Pa. Code § 127.11]

Reactivation

- (a) The permittee may not reactivate a source that has been out of operation or production for at least one year unless the reactivation is conducted in accordance with a plan approval granted by the Department or in accordance with reactivation and maintenance plans developed and approved by the Department in accordance with 25 Pa. Code § 127.11a(a).
- (b) A source which has been out of operation or production for more than five (5) years but less than 10 years may be reactivated and will not be considered a new source if the permittee satisfies the conditions specified in 25 Pa. Code § 127.11a(b).

#016 [25 Pa. Code § 127.36]

Health Risk-based Emission Standards and Operating Practice Requirements.

- (a) When needed to protect public health, welfare and the environment from emissions of hazardous air pollutants from new and existing sources, the permittee shall comply with the health risk-based emission standards or operating practice requirements imposed by the Department, except as precluded by §§ 6.6(d)(2) and (3) of the Air Pollution Control Act [35 P.S. § 4006.6(d)(2) and (3)].
- (b) A person challenging a performance or emission standard established by the Department has the burden to demonstrate that performance or emission standard does not meet the requirements of Section 112 of the Clean Air Act.

#017 [25 Pa. Code § 121.9]

Circumvention.

No person may permit the use of a device, stack height which exceeds good engineering practice stack height, dispersion technique or other technique which, without resulting in reduction of the total amount of air contaminants emitted, conceals or dilutes an emission of air contaminants which would otherwise be in violation of 25 Pa. Code Article III, except that with prior approval of the Department, the device or technique may be used for control of malodors.

#018 [25 Pa. Code §§ 127.402(d) & 127.442]

Reporting Requirements.

- (a) The permittee shall comply with the applicable reporting requirements of the Clean Air Act, the regulations thereunder, the Air Pollution Control Act and 25 Pa. Code Article III including Chapters 127, 135 and 139.
- (b) The permittee shall submit reports to the Department containing information the Department may prescribe relative to the operation and maintenance of any air contamination source.
- (c) Reports, test data, monitoring data, notifications and requests for renewal of the permit shall be submitted to the:

Regional Air Program Manager PA Department of Environmental Protection (At the address given in the permit transmittal letter, or otherwise notified)

- (d) Any records or information including applications, forms, or reports submitted pursuant to this permit condition shall contain a certification by a responsible official as to truth, accuracy and completeness. The certifications submitted under this permit shall require a responsible official of the facility to certify that based on information and belief formed after reasonable inquiry, the statements and information in the documents are true, accurate and complete.
- (e) Any records, reports or information submitted to the Department shall be available to the public except for such







records, reports or information which meet the confidentiality requirements of § 4013.2 of the Air Pollution Control Act and §§ 112(d) and 114(c) of the Clean Air Act. The permittee may not request a claim of confidentiality for any emissions data generated for the facility.

#019 [25 Pa. Code §§ 127.441(c) & 135.5]

Sampling, Testing and Monitoring Procedures.

- (a) The permittee shall comply with the monitoring, recordkeeping or reporting requirements of 25 Pa. Code Chapter 139 and the other applicable requirements of 25 Pa. Code Article III and additional requirements related to monitoring, reporting and recordkeeping required by the Clean Air Act and the regulations thereunder including the Compliance Assurance Monitoring requirements of 40 CFR Part 64, where applicable.
- (b) Unless alternative methodology is required by the Clean Air Act and regulations adopted thereunder, sampling, testing and monitoring required by or used by the permittee to demonstrate compliance with any applicable regulation or permit condition shall be conducted in accordance with the requirements of 25 Pa. Code Chapter 139.

#020 [25 Pa. Code §§ 127.441(c) and 135.5]

Recordkeeping.

- (a) The permittee shall maintain and make available, upon request by the Department, the following records of monitored information:
 - (1) The date, place (as defined in the permit) and time of sampling or measurements.
 - (2) The dates the analyses were performed.
 - (3) The company or entity that performed the analyses.
 - (4) The analytical techniques or methods used.
 - (5) The results of the analyses.
 - (6) The operating conditions as existing at the time of sampling or measurement.
- (b) The permittee shall retain records of any required monitoring data and supporting information for at least five (5) years from the date of the monitoring, sample, measurement, report or application. Supporting information includes the calibration data and maintenance records and original strip-chart recordings for continuous monitoring instrumentation, and copies of reports required by the permit.
- (c) The permittee shall maintain and make available to the Department upon request, records including computerized records that may be necessary to comply with the reporting, recordkeeping and emission statement requirements in 25 Pa. Code Chapter 135 (relating to reporting of sources). In accordance with 25 Pa. Code Chapter 135, § 135.5, such records may include records of production, fuel usage, maintenance of production or pollution control equipment or other information determined by the Department to be necessary for identification and quantification of potential and actual air contaminant emissions.

#021 [25 Pa. Code § 127.441(a)]

Property Rights.

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

#022 [25 Pa. Code § 127.447]

Alternative Operating Scenarios.

The permittee is authorized to make changes at the facility to implement alternative operating scenarios identified in this permit in accordance with 25 Pa. Code § 127.447.





#023 [25 Pa. Code §135.3]

Reporting

- (a) If the facility is a Synthetic Minor Facility, the permittee shall submit by March 1 of each year an annual emissions report for the preceding calendar year. The report shall include information for all active previously reported sources, new sources which were first operated during the preceding calendar year, and sources modified during the same period which were not previously reported. All air emissions from the facility should be estimated and reported.
- (b) A source owner or operator of a Synthetic Minor Facility may request an extension of time from the Department for the filing of an annual emissions report, and the Department may grant the extension for reasonable cause.

#024 [25 Pa. Code §135.4]

Report Format

If applicable, the emissions reports shall contain sufficient information to enable the Department to complete its emission inventory. Emissions reports shall be made by the source owner or operator in a format specified by the Department.





I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §121.7]

Prohibition of air pollution.

No person may permit air pollution as that term is defined in the Air Pollution Control Act (35 P.S. Section 4003).

002 [25 Pa. Code §123.1]

Prohibition of certain fugitive emissions

No person may permit the emission into the outdoor atmosphere of fugitive air contaminant from a source other than the following:

- (a) Construction or demolition of buildings or structures;
- (b) Grading, paving and maintenance of roads and streets;
- (c) Use of roads and streets. Emissions from material in or on trucks, railroad cars and other vehicular equipment are not considered as emissions from use of roads and streets:
- (d) Clearing of land;
- (e) Stockpiling of materials;
- (f) Open burning operations, as specified in 25 Pa. Code § 129.14; and,
- (g) Sources and classes of sources other than those identified in (a)-(f), above, for which the permittee has obtained a determination from the Department that fugitive emissions from the source, after appropriate control, meet the following requirements:
 - (1) The emissions are of minor significance with respect to causing air pollution; and
 - (2) The emissions are not preventing or interfering with the attainment or maintenance of any ambient air quality standard.

003 [25 Pa. Code §123.2]

Fugitive particulate matter

A person may not permit fugitive particulate matter to be emitted into the outdoor atmosphere from a source specified in 25 Pa. Code § 123.1(a)(1)-(9) (relating to prohibition of certain fugitive emissions) if such emissions are visible at the point the emissions pass outside the person's property.

004 [25 Pa. Code §123.31]

Limitations

A person may not permit the emission into the outdoor atmosphere of any malodorous air contaminants from any source in such a manner that the malodors are detectable outside the property of the person on whose land the source is being operated.

005 [25 Pa. Code §123.41]

Limitations

A person may not permit the emission into the outdoor atmosphere of visible air contaminants in such a manner that the opacity of the emission is either of the following:

- (a) Equal to or greater than 20% for a period or periods aggregating more than three minutes in any 1 hour.
- (b) Equal to or greater than 60% at any time.

006 [25 Pa. Code §123.42]

Exceptions

The opacity limitations as per 25 Pa. Code § 123.41 shall not apply to a visible emission in any of the following instances:

(a) When the presence of uncombined water is the only reason for failure of the emission to meet the limitations.





- (b) When the emission results from the operation of equipment used solely to train and test persons in observing the opacity of visible emissions.
- (c) When the emission results from the sources specified in 25 Pa. Code § 123.1(a)(1)-(9) (relating to prohibition of certain fugitive emissions).

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Emissions shall not exceed either of the following, in any consecutive 12-month rolling period:

- (a) Total HAP (Hazardous Air Pollutants) 24.9 tons; or
- (b) Individual HAP 9.9 tons.

008 [25 Pa. Code §129.14]

Open burning operations

No person may permit the open burning of material in the Southeast Air Basin except where the open burning operations result from:

- (a) A fire set to prevent or abate a fire hazard, when approved by the Department and set by or under the supervision of a public officer;
- (b) Any fire set for the purpose of instructing personnel in fire fighting, when approved by the Department;
- (c) A fire set for the prevention and control of disease or pests, when approved by the Department;
- (d) A fire set in conjunction with the production of agricultural commodities in their unmanufactured state on the premises of the farm operation;
- (e) A fire set for the purpose of burning domestic refuse, when the fire is on the premises of a structure occupied solely as a dwelling by two families or less and when the refuse results from the normal occupancy of the structure;
- (f) A fire set solely for recreational or ceremonial purposes; or
- (g) A fire set solely for cooking food.

II. TESTING REQUIREMENTS.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a) If at any time the Department has cause to believe that air contaminant emissions from any source may be in excess of the limitations specified in this permit, or established pursuant to, any applicable rule or regulation contained in 25 Pa. Code Article III, the permittee shall be required to conduct whatever tests are deemed necessary by the Department to determine the actual emission rate(s).
- (b) Such testing shall be conducted in accordance with the provisions of 25 Pa. Code Chapter 139 and the most current version of the DEP Source Testing Manual, when applicable, and in accordance with any restrictions or limitations established by the Department at such time as it notifies the permittee that testing is required.

III. MONITORING REQUIREMENTS.

010 [25 Pa. Code §123.43]

Measuring techniques

Visible emissions may be measured using either of the following:

- (a) A device approved by the Department and maintained to provide accurate opacity measurements.
- (b) Observers, trained and qualified to measure plume opacity with the naked eye or with the aid of any devices approved





by the Department.

011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a) The permittee shall monitor the facility, once per operating day, for the following:
 - (1) Odors which may be objectionable (as per 25 Pa. Code §123.31);
 - (2) Visible Emissions (as per 25 Pa. Code §§123.41 and 123.42); and
 - (3) Fugitive Particulate Matter (as per 25 Pa. Code §§ 123.1 and 123.2).
- (b) Objectionable odors, fugitive particulate emissions, and visible emissions that are caused or may be caused by operations at the site shall:
 - (1) Be investigated;
 - (2) Be reported to the facility management, or individual(s) designated by the permittee;
 - (3) Have appropriate corrective action taken (for emissions that originate on-site); and
 - (4) Be recorded in a permanent written log.
- (c) After six (6) months of daily monitoring, and upon the permittee's request, the Department will determine the feasibility of decreasing the monitoring frequency to weekly for the next six month period.
- (d) After six (6) months of weekly monitoring, and upon the permittee's request, the Department will determine the feasibility of decreasing the frequency of monitoring to monthly.
- (e) The Department reserves the right to change the above monitoring requirements at any time, based on but not limited to: the review of the compliance certification, complaints, monitoring results, and/or Department findings.

IV. RECORDKEEPING REQUIREMENTS.

012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain a record of all monitoring of fugitive emissions, visible emissions and odors, including those that deviate from the conditions found in this permit. The record of deviations shall contain, at a minimum, the following items:

- (a) Date, time, and location of the incident(s).
- (b) The cause of the event.
- (c) The corrective action taken, if necessary to abate the situation and prevent future occurrences.

013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain records of all the facility's increases of emissions from the following categories:

- (a) De minimis increases without notification to the Department.
- (b) De minimis increases with notification to the Department, via letter.
- (c) Increases resulting from a Request for Determination (RFD) to the Department.
- (d) Increases resulting from the issuance of a plan approval and subsequent operating permit.

014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Using a Department approved method, HAP emissions shall be calculated and recorded for the facility each month and as a consecutive 12-month rolling sum.

015 [25 Pa. Code §127.441]

Operating permit terms and conditions.

All records required herein this operating permit shall be maintained for a minimum of five years and made available to the







Department upon request.

09-00102

REPORTING REQUIREMENTS.

016 [25 Pa. Code §124.3]

Adoption of standards

[Additional authority for this permit condition is derived from 40 CFR §61.04]

Copies of all applicable requests, reports, applications, submittals, and other communications, as required in this subpart, shall be submitted to both EPA and the Department. The EPA copies shall be forwarded to:

US EPA, Region III Air Protection Division 1650 Arch Street Philadelphia, PA 19103-2029

017 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 CFR Part 68]

- (a) If required by Section 112(r) of the Clean Air Act, the permittee shall develop and implement an accidental release [25] Pa. Code § 127.441(d) and 40 CFR Part 68] program consistent with requirements of the Clean Air Act, 40 CFR Part 68 (relating to chemical accident prevention provisions) and the Federal Chemical Safety Information, Site Security and Fuels Regulatory Relief Act (P.L. 106-40).
- (b) The permittee shall prepare and implement a Risk Management Plan (RMP) which meets the requirements of Section 112(r) of the Clean Air Act, 40 CFR Part 68 and the Federal Chemical Safety Information, Site Security and Fuels Regulatory Relief Act when a regulated substance listed in 40 CFR § 68.130 is present in a process in more than the threshold quantity at a facility. The permittee shall submit the RMP to the federal Environmental Protection Agency according to the following schedule and requirements:
 - (1) The permittee shall submit the first RMP to a central point specified by EPA no later than the latest of the following:
 - (i) Three years after the date on which a regulated substance is first listed under 40 CFR § 68.130; or,
 - (ii) The date on which a regulated substance is first present above a threshold quantity in a process.
 - (2) The permittee shall submit any additional relevant information requested by the Department or EPA concerning the RMP and shall make subsequent submissions of RMPs in accordance with 40 CFR § 68.190.
 - (3) The permittee shall certify that the RMP is accurate and complete in accordance with the requirements of 40 CFR Part 68, including a checklist addressing the required elements of a complete RMP.
- (c) As used in this permit condition, the term "process" shall be as defined in 40 CFR § 68.3. The term "process" means any activity involving a regulated substance including any use, storage, manufacturing, handling, or on-site movement of such substances or any combination of these activities. For purposes of this definition, any group of vessels that are interconnected, or separate vessels that are located such that a regulated substance could be involved in a potential release, shall be considered a single process.
- (d) If this facility is subject to 40 CFR Part 68, as part of the certification required under this permit, the permittee shall:
 - (1) Submit a compliance schedule for satisfying the requirements of 40 CFR Part 68 by the date specified in 40 CFR § 68.10(a); or,
 - (2) Certify that this facility is in compliance with all requirements of 40 CFR Part 68 including the registration and submission of the RMP.





- (e) If this facility is subject to 40 CFR Part 68, the permittee shall maintain records supporting the implementation of an accidental release program for five (5) years in accordance with 40 CFR § 68.200.
- (f) When this facility is subject to the accidental release program requirements of Section 112(r) of the Clean Air Act and 40 CFR Part 68, appropriate enforcement action will be taken by the Department if:
 - (1) The permittee fails to register and submit the RMP or a revised plan pursuant to 40 CFR Part 68.
 - (2) The permittee fails to submit a compliance schedule or include a statement in an annual Compliance Certification submittal for the previous year indicating compliance with the requirements of the terms and conditions of this permit, and the requirements of Section 112(r) of the Clean Air Act and 40 CFR Part 68. The certification shall include:
 - (i) The identification of each term or condition of the permit that is the basis of the certification.
 - (ii) The compliance status.
 - (iii) The methods used for determining the compliance status of the source, currently and over the reporting period.
 - (iv) Whether compliance was continuous or intermittent.
- (g) The compliance certification should be postmarked or hand-delivered within thirty days of each anniversary date of the date of issuance of this permit.

018 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a) The permittee shall report malfunctions, emergencies or incidents of excess emissions to the Department at 484-250-5920. A malfunction is any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment, process equipment, or a process to operate in a normal or usual manner. An emergency is any situation arising from sudden and reasonably unforeseeable events beyond the control of the owner or operator of a facility which requires immediate corrective action to restore normal operation and which causes the emission source to exceed emissions, due to unavoidable increases in emissions attributable to the situation. An emergency shall not include situations caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error.
- (b) When the malfunction, emergency or incident of excess emissions poses an imminent danger to the public health, safety, welfare, or environment, it shall be reported to the Department and the County Emergency Management Agency by telephone within one (1) hour after the discovery of the malfunction, emergency or incident of excess emissions. The owner or operator shall submit a written or emailed report of instances of such malfunctions, emergencies or incidents of excess emissions to the Department within three (3) business days of the telephone report.
- (c) The report shall describe the following:
 - (1) Name, permit or authorization number, and location of the facility;
 - (2) Nature and cause of the malfunction, emergency or incident;
 - (3) Date and time when the malfunction, emergency or incident was first observed;
 - (4) Expected duration of excess emissions;
 - (5) Estimated rate of emissions; and
 - (6) Corrective actions or preventative measures taken.
- (d) Any malfunction, emergency or incident of excess emissions that is not subject to the notice requirements of paragraph (b) of this condition shall be reported to the Department by telephone within 24 hours (or by 4:00 PM of the next business day, whichever is later) of discovery and in writing or by e-mail within five (5) business days of discovery. The report shall contain the same information required by paragraph (c), and any permit specific malfunction reporting requirements.
- (e) During an emergency an owner or operator may continue to operate the source at their discretion provided they submit justification for continued operation of a source during the emergency and follow all the notification and reporting requirements in accordance with paragraphs (b)-(d), as applicable, including any permit specific malfunction reporting requirements.
- (f) Reports regarding malfunctions, emergencies or incidents of excess emissions shall be submitted to the appropriate





DEP Regional Office Air Program Manager.

(g) Any emissions resulted from malfunction or emergency are to be reported in the annual emissions inventory report, if the annual emissions inventory report is required by permit or authorization.

#019 [25 Pa. Code §135.3]

Reporting

The permittee, who has been previously advised by the Department to submit a source report, shall submit by March 1, of each year, a source report for the preceding calendar year. The report shall include information from all previously reported sources, new sources which were first operated during the preceding calendar year, and sources modified during the same period which were not previously reported, including those sources listed in the Miscellaneous Section of this permit.

WORK PRACTICE REQUIREMENTS.

020 [25 Pa. Code §123.1]

Prohibition of certain fugitive emissions

A person responsible for any source specified in Condition #002 of this Section, shall take all reasonable actions to prevent particulate matter from becoming airborne. These actions shall include, but not be limited to, the following:

- (a) Use, where possible, of water or suitable chemicals, for control of dust in the demolition of buildings or structures, construction operations, the grading of roads, or the clearing of land.
- (b) Application of asphalt, water, or other suitable chemicals, on dirt roads, material stockpiles and other surfaces which may give rise to airborne dusts.
- (c) Paving and maintenance of roadways.
- (d) Prompt removal of earth or other material from paved streets onto which earth or other material has been transported by trucking or earth moving equipment, erosion by water, or by other means.

[25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall ensure that the sources and air pollution control devices listed in this permit are operated and maintained in a manner consistent with good operating and maintenance practices, and in accordance with manufacturer's specifications.

022 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee may not modify any air contaminant system identified in this permit, prior to obtaining Department approval, except those modifications authorized by Condition #013(g), of Section B, of this permit.

023 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall immediately, upon discovery, implement measures, which may include the application for the installation of an air cleaning device(s), if necessary, to reduce the air contaminant emissions to within applicable limitations, if at any time the operation of the sources identified in this permit, is causing the emission of air contaminants in excess of the limitations specified in, or established pursuant to, 25 Pa. Code Article III, or any other applicable rule promulgated under the Clean Air Act.

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

VIII. COMPLIANCE CERTIFICATION.

No additional compliance certifications exist except as provided in other sections of this permit including Section B (relating to State Only General Requirements).





IX. COMPLIANCE SCHEDULE.

No compliance milestones exist.





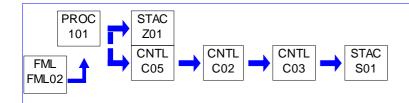


Source ID: 101 Source Name: PRIMARY TREATMENT UNIT

> Source Capacity/Throughput: 84,000.000 CF/HR Natural Gas

> > Natural Gas 130.000 MCF/HR

80.000 Tons/HR SOIL



RESTRICTIONS. I.

Emission Restriction(s).

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a) Filterable Particulate Matter (PM) emissions from the Baghouse (Source ID C03) shall not exceed 5.23 pounds per hour and 10.7 tons per year as a 12-month rolling sum.
- (b) The permittee shall assure the filterable PM from this source does not exceed 0.02 grain per dry standard cubic foot.

[Compliance with this condition assures compliance with 25 Pa. Code Section 123.13]

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The Benzene emissions shall not exceed 0.12 pounds per hour.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The hydrochloric acid (HCI) maximum emission rate shall not exceed 3.9 lb/hr or 30 ppmv as an hourly average, corrected to 7% O2 on a dry basis.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The following air contaminant emission limits shall not be exceeded for Source ID 101 of this permit, as controlled by the Afterburner and Quench Tank (Source ID C02) and Baghouse (Source ID C03). The Department reserves the right to establish and impose more stringent limitations based on the results of stack testing, as specified in this permit, and the dispersion modeling techniques as approved by the Department.

(a) Volatile Organic Compounds (VOC): 1.0 lb/hr, 2.5 tons/yr (determined as a 12-month rolling sum) (b) Nitrogen Oxides (NOx): 10.0 lb/hr, 20.5 tons/yr (determined as a 12-month rolling sum) (c) Carbon Monoxide (CO): 7.4 lb/hr, 15.2 tons/yr (determined as a 12-month rolling sum)

(d) Sulfur Oxides (SOx): 50 ppmvd

[Compliance with (d) above assures compliance with Pa. Code § 123.21]

Operation Hours Restriction(s).

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The total operating hours for the primary treatment unit shall not exceed 4100 hrs/yr.







Throughput Restriction(s).

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a) The contaminated soil shall be fed to the primary treatment unit at a rate not exceeding 80 tons per hour.
- (b) The total petroleum hydrocarbon (TPH) concentration of the contaminated soil entering the primary treatment unit shall meet the requirements of the Solid Waste Permit No. 301254, but shall not be greater than 2 percent concentration.

Control Device Efficiency Restriction(s).

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The VOC destruction efficiency in the afterburner shall be maintained at 99 percent or greater, unless controlled emissions of VOC are less than 1.0 lb/hr.

TESTING REQUIREMENTS.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa Code § 139.2]

- (a) The permittee shall perform a stack test using the Department-approved procedures, every five (5) calendar years, where five (5) calendar years is defined as beginning with the calendar year the latest stack test was performed and ending on December 31, five (5) years later. The company shall use the test methods and procedures approved by the Department's Source Testing and Monitoring Section to determine compliance with the emissions restrictions for Source ID 101 of this permit, as controlled by the Afterburner and Quench Tank (Source ID C02) and Baghouse (Source ID C03). Maximum production shall be defined as 85% of the rated capacity for the source.
- (b) The company shall during this stack test, sample and analyze the soil used in the test for concentration of metals and VOC using methods approved by the Department.
- (c) To determine the VOC DE of the afterburner, the permittee shall determine uncontrolled emissions to the afterburner, based on soil sampling (USEPA Method 8015M for total petroleum hydrocarbons), while emissions of controlled VOC are tested for at the dust collector stack using USEPA Method 25A. The permittee shall take soil samples prior to the Primary Treatment Unit and immediately after the soil is treated, at the beginning, the middle, and the end of each test run.
- (d) At least ninety (90) days prior to the test, the company shall submit to the AQ Program Manager for the Southeast Regional Office and the PSIMS Administrator in Central Office for approval the procedures for the test and a sketch with dimensions indicating the location of sampling ports and other data to ensure the collection of representative samples.
- (e) At least thirty (30) days prior to the test, the AQ Program Manager for the Southeast Regional Office and the PSIMS Administrator in Central Office shall be informed of the date and time of the test.
- (f) Within sixty (60) days after the source test(s), the permittee shall submit a complete test report, including all operating conditions, to the AQ Program Manager for the Southeast Regional Office and the PSIMS Administrator in Central Office for approval.
- (g) In the event that any of the above deadlines cannot be met, the permittee may request an extension for the due date(s) in writing and include a justification for the extension. The Department may grant an extension for a reasonable cause.
- (h) A stack test shall be conducted for lead, particulate matter and volatile organic compounds when the first remediation is conducted with ethylene glycol contaminated soil and/or aggregate.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall email all source test submissions (notifications, protocols, reports, supplemental information, etc.) to both the AQ Program Manager for the Southeast Regional Office and the PSIMS Administrator in Central Office at the





following email addresses:

- (1) AQ Program Manager for the Southeast Regional Office: RA-EPSEstacktesting@pa.gov
- (2) PSIMS Administrator in Central Office: RA-EPstacktesting@pa.gov
- (b) The following pertinent information shall be listed on the title page:
 - (1) Test Date(s):
 - (i) For protocols, provide the proposed date on which testing will commence or "TBD"
 - (ii) For reports, provide the first and last day of testing
 - (2) Facility Identification Number (Facility ID): For test programs that were conducted under a multi-site protocol, also include the PF ID under which the protocol was stored in PSIMS, as indicated in the protocol response letter.
 - (3) Source ID(s) for the applicable source(s) and air pollution control device(s): The term Source ID is used in the permit but "Other Id" is used in DEP electronic systems. They are the same number and must also be listed for control equipment
 - (4) Testing Requirements (all that apply):
 - (i) Plan approval number(s)
 - (ii) Operating permit number
 - (iii) Applicable federal subpart(s) (i.e. 40 CFR 60, Subpart JJJJ)
 - (iv) Special purpose(s) (Consent Order, RFD, RACT II, Tier II, etc.)
- (c) If confidential information must be submitted, submit both a public copy, which has been redacted, and a confidential copy. The cover page of each submittal should state whether it is a "Public Copy" or "Confidential Copy" and each page of the latter must be marked "CONFIDENTIAL".

010 [25 Pa. Code §139.3]

General requirements.

At the time of the required stack testing, the permittee shall use the emission rate, the exhaust parameters, and the modeling technique to determine compliance with the maximum annual ambient concentrations listed below:

PCDD & PCDF expressed

as 2, 3, 7, 8, TCDD equivalents: 0.30 x 10^7 ug/m^3 See Note Below

Arsenic and Compounds: 0.23 x 10^3 ug/m^3
Beryllium and Compounds: 0.42 x 10^3 ug/m^3
Cadmium and Compounds: 0.56 x 10^3 ug/m^3
Nickel and Compounds: 0.33 x 10^2 ug/m^3

Hexavalent Chromium

and Compounds: 0.83 x 10^4 ug/m^3 Lead and Compounds: 0.09 ug/m^3

Mercury and Compounds: 0.24 x 10^-1 ug/m^3

NOTE: Polychlorinated dibenzo-p-dioxins (PCDD) and Polychlorinated dibenzofurans (PCDF) expressed as 2, 3, 7, 8, tetrachlorinated dibenzo-p-dioxins (TCDD) equivalents using toxicity equivalents factors (TEFS) as described in the Department's Best Available Technology (BAT) and calculated according to the Department's approved method.

III. MONITORING REQUIREMENTS.

011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall monitor, daily:





- (1) The average concentration of TPH of contaminated soils prior to and after treatment in the primary treatment unit; and,
- (2) The operating hours.
- (b) The permittee shall continuously monitor the operating temperature of the PTU.
- (c) The permittee shall calculate the average feed rate (tons/hour) to the PTU daily.

012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall calculate the emissions of VOCs, NOx, and CO, on a monthly basis and as a 12-month rolling sum.

013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a) The permittee shall calculate PM emissions on a monthly basis and as a 12-month rolling sum, using the emission factor (lb/ton) from most recent stack tests to show compliance with the ton/yr emission limit.
- (b) The permittee shall determine compliance with the lb/hr and gr/dscf limit during required stack testing.

IV. RECORDKEEPING REQUIREMENTS.

014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a) The permittee shall keep daily records of:
 - (1) The average TPH concentration of soils prior to and after treatment in the primary treatment unit,
 - (2) The operating hours,
 - (3) The results of the tests conducted post-treatment; and,
 - (4) The average feed rate (tons/hour) to the PTU.
- (b) The permittee shall keep records of the temperature readings.

015 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a) The permittee shall keep records of the emission calculations for VOCs, NOx, and CO, on a monthly basis and as a 12-month rolling sum.
- (b) The permittee shall record PM emissions on a monthly basis and as a 12-month rolling sum, using the emission factor (lb/ton) from most recent stack tests to show compliance with the ton/yr emission limit.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

016 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The Primary Treatment Unit shall vent to the 36-cone Multi-cone Cyclone (Source ID C05), followed by the Afterburner & Quench Tank (Source ID C02), and the Baghouse (Source ID C03).

017 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The primary treatment unit (PTU) shall treat all contaminated soils/aggregates to meet the post-test requirements of the Solid Waste Permit.





018 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The PTU shall be:

- (a) Operated and maintained according to manufacturer's specifications; and,
- (b) Brought to the proper operating temperature according to the manufacturer's specifications prior to treating the soil.

019 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The thermal treatment operations of the primary treatment unit (PTU) shall be shutdown when the pugmill's water quench system is not operating.

020 [25 Pa. Code §127.441]

Operating permit terms and conditions.

No contaminated soils/aggregates shall be fed to the PTU until the secondary treatment unit (afterburner) has reached its required minimum operating temperature.

021 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a) The incoming petroleum contaminated soils/aggregates shall (a) meet, (b) store and (c) be tested in accordance with the requirements of Solid Waste permit.
- (b) The treated soil/aggregates shall (a) meet, (b) store and (c) be tested in accordance with the requirements of the Solid Waste permit.
- (c) The pre- and post-tests and sample analysis shall be conducted using the appropriate methods pursuant to the requirements of the Solid Waste permit.

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

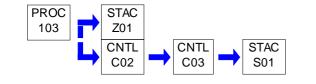






Source ID: 103 Source Name: STORAGE BUILDING & PILES

Source Capacity/Throughput: N/A SOIL



This source occurs in alternate operation ALT. OPERATING SCENARIO: SOURCE ID 103

I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

III. MONITORING REQUIREMENTS.

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor the following at the intervals indicated:

- (a) Volumetric flow rate from the storage area to the rotary combustor, once per shift, when operating.
- (b) Volumetric flow rate to the afterburner combustor from the remediation feed hoppers, once per shift, when operating.
- (c) The hours of operation, on a daily basis, when blending occurs.

NOTE: The term shift is defined as at least every eight hours, when operating.

IV. RECORDKEEPING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain records of the following at the intervals indicated:

- (a) Volumetric flow rate from the storage area to the rotary combustor, once per shift, when operating.
- (b) Volumetric flow rate to the afterburner combustor from the remediation feed hoppers, once per shift, when operating.
- (c) The hours of operation, on a daily basis, when blending occurs.

NOTE: The term shift is defined as at least every eight hours, when operating.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).



WORK PRACTICE REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The facility may accept soils/aggregates as stipulated in the permittee's current Bureau of Waste Management permit, and may process contaminated soils/aggregates up to 24 hours per day and 7 days per week.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The amount of contaminated soils/aggregate accepted at this facility shall comply with the limits as stipulated by the Bureau of Waste Management.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Storage of contaminated soils/aggregates shall occur inside the building only. The weighted average TPH concentration of each storage area shall be determined and recorded on a spreadsheet, as per the Department approved method.

[25 Pa. Code §127.441] # 006

Operating permit terms and conditions.

During processing, the contaminated soil storage area shall be vented to the PTU and STU burners. Any time the facility is inactive (i.e., not receiving, processing, blending or screening) for one (1) week or longer, all contaminated stockpiles shall be covered with plastic sheeting.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

During processing operation, all doors and windows of the storage building shall be closed to provide sufficient air movement to the combustors except only to permit the ingress and egress of soil transport vehicles. Air intake grill(s) shall provide sufficient combustion air.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

When blending soils, the permittee shall ensure that the TPH content of the soil being fed to the PTU does not exceed 20,000 ppm, as per the Department approved method.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The volumetric flow rate to the rotary combustor from the storage area during thermal processing shall be maintained at a minimum of 2,400 scfm.

#010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The contaminated soils/aggregates storage building shall be repaired and maintained to the extent that it meets Department approval to allow the operation of the facility so that the conditions of this section, of this permit are met.

011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Soil handling, including screening, conditioning and feeding systems shall occur inside the building in a well ventilated area. The exhaust from this ventilated area shall be directed to the PTU and it's integral afterburner as combustion air.

012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The volumetric flow rate to the afterburner combustor from the remediation feed hoppers, scalpers and shredder areas during thermal processing shall be maintained at a minimum of 1,680 scfm.

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

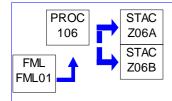




Source ID: 106 Source Name: EXTEC/ROBOTRAC SCREEN W/ DIESEL ENGINE

> Source Capacity/Throughput: 350.000 Tons/HR SOIL

> > 5.230 Gal/HR Diesel Fuel



RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Total combined emissions from the Extec/Robotrac Screen (Source ID 106) and the Sandvik Screen (Source ID 108) shall not exceed the following emission rates:

(a) Nitrogen Oxides (NOx) -2.16 tons per 12-month rolling period (b) Carbon Monoxide (CO) -1.52 tons per 12-month rolling period (c) Particulate Matter (PM)* -0.10 tons per 12-month rolling period (d) Volatile Organic Compounds (VOC) -6.34 tons per 12-month rolling period (e) Sulfur Oxides (SOx) -0.51 tons per 12-month rolling period (f) Hazardous Air Pollutants (HAP) -5.96 tons per 12-month rolling period

[The above emission limits apply to the combined emissions from the engines and the screening operation.]

Operation Hours Restriction(s).

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Total combined hours of operation from the Extec/Robotrac Screen (Source ID 106) and the Sandvik Screen (Source ID 108) shall be restricted to 4,100 hours per 12-month rolling period.

Throughput Restriction(s).

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The total combined material throughput through the Extec/Robotrac Screen (Source ID 106) and the Sandvik Screen (Source ID 108) shall be restricted to 344,400 tons per 12-month rolling period.

TESTING REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a) The following establishes two categories of contaminated soil: Group 1 contaminated soil and Group 2 contaminated soil.
 - (1) Group 1 contaminated soil is material with lighter hydrocarbons such as gasoline, jet fuel, kerosene, diesel fuel, No. 2-4 fuel oil, heating oil, alcohols, ethers, organic acids, and ethylene glycol.
 - (2) Group 2 contaminated soil is material with heavy hydrocarbons such as No. 5-6 fuel oil, asphalt, petroleum and coal tars, greases, crude oil, and lubricating oil.

^{*}The limit for PM also applies to PM-10 and PM-2.5.





- (b) To establish specific emission rates for VOC at different soil concentrations, the permittee shall take samples and analyze them for total semi-volatile organic compounds and total volatile organic compounds prior to and after screening the first time the permittee processes Group 1 and Group 2 contaminated soils with total hydrocarbon concentrations of 10,000 ppm, 20,000 ppm, 30,000 ppm, and 40,000 ppm, with a deviation of +/- 2,000 ppm:
 - (1) Group 1 contaminated soil 3 pre-screened grab samples and 3 post-screened grab samples shall be obtained per 60 tons of contaminated soil, with a minimum of 60 tons being screened.
 - (2) Group 2 contaminated soil 2 pre-screened grab samples and 2 post-screened grab samples shall be obtained per 60 tons of contaminated soil, with a minimum of 60 tons being screened.
- (c) The above testing requirements shall be satisfied while operating any of the following diesel powered screens: the Extec/Robotrac Screen (Source ID 106) or the Sandvik Screen (Source ID 108).
- (d) Prior to sampling, the permittee shall use a portable analyzer to measure hydrocarbons in the soil prior to and after screening to determine representative samples. At least 10 readings shall be taken in the soil prior to and after screening. Results shall be documented.
- (e) If possible, the permittee shall notify the Department ahead of time of proposed testing, such that the Department may observe the testing procedure. At a minimum, the permittee shall notify the Department of testing that was performed within one week of the test procedure, including the date(s) that testing was performed.
- (f) Within 60 days after performing a test, the permittee shall provide a report to the Department with results from the test.

MONITORING REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a) The diesel engines associated with Source IDs 106 and 108 shall be equipped with a non-resettable, totalizing hour meter to track hours of operation.
- (b) The total combined hours of operation of Source IDs 106 and 108 shall be monitored on a monthly basis.

IV. RECORDKEEPING REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a) Total combined emissions of NOx, CO, PM, PM-10, PM-2.5, VOC, SOx, and HAP from Source IDs 106 and 108 shall be calculated and recorded on a monthly basis and as a 12-month rolling sum.
- (b) Emissions are to be accounted for from both the screening operation and emissions from the diesel engine.

[25 Pa. Code §127.441]

Operating permit terms and conditions.

The total combined material throughput through Source IDs 106 and 108 shall be recorded on a monthly basis and as a 12month rolling sum, reported in tons.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Total combined hours of operation of Source IDs 106 and 108 shall be recorded on a monthly basis and maintained as a 12-month rolling sum.

REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).





VI. WORK PRACTICE REQUIREMENTS.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a) Source IDs 106 and 108 shall be used exclusively inside the Storage Building (Source ID 103).
- (b) Source IDs 106 and 108 shall be operated such that they do not emit particulate matter emissions outdoors.

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source IDs 106 and 108 shall not operate unless emissions from the Storage Building (Source ID 103) are exhausting to the Primary Treatment Unit (Source ID 101) and Afterburner (Source ID C02) or to the Carbon Adsorption System (Source ID C04), as described herein this State Only Operating Permit.

011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The diesel engines associated with Source IDs 106 and 108 shall only use commercial diesel fuel.

012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source IDs 106 and 108 shall be operated and maintained in accordance with manufacturer's specifications and good air pollution control practices.

VII. ADDITIONAL REQUIREMENTS.

013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a) This source shall be manufactured by Extec, Model Robotrac, or an equivelant.
- (b) The diesel engine associated with this source shall be manufactured by Deutz, Model BF4M2012, and rated at 96 brake-horsepower, or an equivalent.

014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The quantity of soil processed though Source IDs 106 and 108 shall be calculated using the throughput of the Primary Treatment Unit (Source ID 101), multiplied by a factor of 1.05 unless the permittee can demonstrate by more accurate measures the actual throughput through these sources.

015 [25 Pa. Code §127.441]

Operating permit terms and conditions.

In accordance with the definition of a non-road engine under 40 CFR § 1068.30, if a portable non-road engine remains for more than a year at a single location on site, it is considered stationary. If either diesel powered screen remains for more than a year at a single location on site, it will be subject to 40 CFR Part 60, Subpart IIII, and must comply with all applicable requirements.

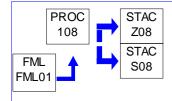




Source ID: 108 Source Name: SANDVIK SCREEN W/ CATERPILLAR ENGINE

> Source Capacity/Throughput: 992.000 Tons/HR SOIL

> > 6.980 Gal/HR Diesel Fuel



RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Total combined emissions from the Extec/Robotrac Screen (Source ID 106) and the Sandvik Screen (Source ID 108) shall not exceed the following emission rates:

(a) Nitrogen Oxides (NOx) -2.16 tons per 12-month rolling period (b) Carbon Monoxide (CO) -1.52 tons per 12-month rolling period (c) Particulate Matter (PM)* -0.10 tons per 12-month rolling period (d) Volatile Organic Compounds (VOC) -6.34 tons per 12-month rolling period (e) Sulfur Oxides (SOx) -0.51 tons per 12-month rolling period (f) Hazardous Air Pollutants (HAP) -5.96 tons per 12-month rolling period

[The above emission limits apply to the combined emissions from the engines and the screening operation.]

Operation Hours Restriction(s).

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Total combined hours of operation from the Extec/Robotrac Screen (Source ID 106) and the Sandvik Screen (Source ID 108) shall be restricted to 4,100 hours per 12-month rolling period.

Throughput Restriction(s).

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The total combined material throughput through the Extec/Robotrac Screen (Source ID 106) and the Sandvik Screen (Source ID 108) shall be restricted to 344,400 tons per 12-month rolling period.

TESTING REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a) The following establishes two categories of contaminated soil: Group 1 contaminated soil and Group 2 contaminated soil.
 - (1) Group 1 contaminated soil is material with lighter hydrocarbons such as gasoline, jet fuel, kerosene, diesel fuel, No. 2-4 fuel oil, heating oil, alcohols, ethers, organic acids, and ethylene glycol.
 - (2) Group 2 contaminated soil is material with heavy hydrocarbons such as No. 5-6 fuel oil, asphalt, petroleum and coal tars, greases, crude oil, and lubricating oil.

^{*}The limit for PM also applies to PM-10 and PM-2.5.





- (b) To establish specific emission rates for VOC at different soil concentrations, the permittee shall take samples and analyze them for total semi-volatile organic compounds and total volatile organic compounds prior to and after screening the first time the permittee processes Group 1 and Group 2 contaminated soils with total hydrocarbon concentrations of 10,000 ppm, 20,000 ppm, 30,000 ppm, and 40,000 ppm, with a deviation of +/- 2,000 ppm:
 - (1) Group 1 contaminated soil 3 pre-screened grab samples and 3 post-screened grab samples shall be obtained per 60 tons of contaminated soil, with a minimum of 60 tons being screened.
 - (2) Group 2 contaminated soil 2 pre-screened grab samples and 2 post-screened grab samples shall be obtained per 60 tons of contaminated soil, with a minimum of 60 tons being screened.
- (c) The above testing requirements shall be satisfied while operating any of the following diesel powered screens: the Extec/Robotrac Screen (Source ID 106) or the Sandvik Screen (Source ID 108).
- (d) Prior to sampling, the permittee shall use a portable analyzer to measure hydrocarbons in the soil prior to and after screening to determine representative samples. At least 10 readings shall be taken in the soil prior to and after screening. Results shall be documented.
- (e) If possible, the permittee shall notify the Department ahead of time of proposed testing, such that the Department may observe the testing procedure. At a minimum, the permittee shall notify the Department of testing that was performed within one week of the test procedure, including the date(s) that testing was performed.
- (f) Within 60 days after performing a test, the permittee shall provide a report to the Department with results from the test.

MONITORING REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a) The diesel engines associated with Source IDs 106 and 108 shall be equipped with a non-resettable, totalizing hour meter to track hours of operation.
- (b) The total combined hours of operation of Source IDs 106 and 108 shall be monitored on a monthly basis.

IV. RECORDKEEPING REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a) Total combined emissions of NOx, CO, PM, PM-10, PM-2.5, VOC, SOx, and HAP from Source IDs 106 and 108 shall be calculated and recorded on a monthly basis and as a 12-month rolling sum.
- (b) Emissions are to be accounted for from both the screening operation and emissions from the diesel engine.

[25 Pa. Code §127.441]

Operating permit terms and conditions.

The total combined material throughput through Source IDs 106 and 108 shall be recorded on a monthly basis and as a 12month rolling sum, reported in tons.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Total combined hours of operation of Source IDs 106 and 108 shall be recorded on a monthly basis and maintained as a 12-month rolling sum.

REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).





WORK PRACTICE REQUIREMENTS. VI.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a) Source IDs 106 and 108 shall be used exclusively inside the Storage Building (Source ID 103).
- (b) Source IDs 106 and 108 shall be operated such that they do not emit particulate matter emissions outdoors.

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source IDs 106 and 108 shall not operate unless emissions from the Storage Building (Source ID 103) are exhausting to the Primary Treatment Unit (Source ID 101) and Afterburner (Source ID C02) or to the Carbon Adsorption System (Source ID C04), as described herein this State Only Operating Permit.

[25 Pa. Code §127.441]

Operating permit terms and conditions.

The diesel engines associated with Source IDs 106 and 108 shall only use commercial diesel fuel.

[25 Pa. Code §127.441]

Operating permit terms and conditions.

Source IDs 106 and 108 shall be operated and maintained in accordance with manufacturer's specifications and good air pollution control practices.

ADDITIONAL REQUIREMENTS. VII.

013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a) The Sandvik Screen shall be manufactured by Sandvik, Model QE440, or an equivelant.
- (b) The diesel engine associated with this source shall be manufactured by Caterpilar, Model C4.4ACERT, and rated at 129 brake-horsepower, or an equivalent. The engine shall be certified to meet EPA's Tier 4 interim emission standards

014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The quantity of soil processed though Source IDs 106 and 108 shall be calculated using the throughput of the Primary Treatment Unit (Source ID 101), multiplied by a factor of 1.05 unless the permittee can demonstrate by more accurate measures the actual throughput through these sources.

015 [25 Pa. Code §127.441]

Operating permit terms and conditions.

In accordance with the definition of a non-road engine under 40 CFR § 1068.30, if a portable non-road engine remains for more than a year at a single location on site, it is considered stationary. If either diesel powered screen remains for more than a year at a single location on site, it will be subject to 40 CFR Part 60, Subpart IIII, and must comply with all applicable requirements.

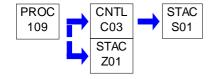






Source ID: 109 Source Name: PUGMILL MIXER

> Source Capacity/Throughput: N/A SOIL



This source occurs in alternate operation ALT. OPERATING SCENARIO: SOURCE ID 109

RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

TESTING REQUIREMENTS. II.

No additional testing requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

MONITORING REQUIREMENTS. III.

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor the following, at the specified interval, for the pugmill mixer:

- (a) Type of material added to the mixer to cool remediated soil on a daily basis.
- (b) Amount of the material added to the mixer on a daily basis.

IV. RECORDKEEPING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain records the following, at the specified interval, for the pugmill mixer:

- (a) Type of material added to the mixer to cool remediated soil on a daily basis.
- (b) Amount of the material added to the mixer on a daily basis.

REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall process only the following list of materials in the pugmill mixer to cool thermally remediated soil:

- (a) Class A and B biosolids.
- (b) Zirconium silicate.





(c) Other materials approved by The Bureau of Air Quality and The Bureau of Waste Management.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The pugmill exhausts shall be directed to the baghouse, for fugitive particulate matter capture when operating. When the pugmill is used only to mix remediated soils, fugitive dust emissions shall be controlled by the use of a water spray system.

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).



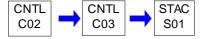
09-00102



SECTION D. Source Level Requirements

Source ID: C02 Source Name: AFTERBURNER & QUENCH TANK

Source Capacity/Throughput: 60,000.000 CF/HR Natural Gas



I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

III. MONITORING REQUIREMENTS.

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor the combustion chamber temperature for the afterburner on a continuous basis when the source is in operation.

IV. RECORDKEEPING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep records of:

- (a) The combustion chamber temperature for the afterburner when the source is in operation; and,
- (b) The annual tune-ups. The records shall include the date of tune-ups, procedures/tests conducted during the tune-up, air/fuel ratio, fuel atomization, percent oxygen and the results of the carbon monoxide emission rates during the test.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The combustion chamber shall be operated at a minimum temperature of 1500°F with a residence time of 1.9 seconds.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

When operating, the quench tank exhaust shall be directed to the baghouse, for fugitive particulate matter capture.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall:

(a) Operate and maintain the source in accordance with the manufacturer's specifications; and,





SECTION D. Source Level Requirements

09-00102

(b) Conduct annual tune-up on the afterburner to minimize the carbon monoxide emissions and to assure proper combustion efficiency.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The secondary treatment unit shall be brought to an operating temperature in accordance with the manufacturer's specifications.

ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

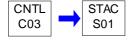
09-00102



SECTION D. Source Level Requirements

Source ID: C03 Source Name: BAGHOUSE

Source Capacity/Throughput: N/A SOIL



I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

III. MONITORING REQUIREMENTS.

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor the operating pressure drop across the fabric filter in inches w.g., on an hourly basis using a permanantly installed monitor.

IV. RECORDKEEPING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall record the operating pressure drop across the fabric filter in inches w.g., on an hourly basis.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Spare fabric collector bags shall be available to change out any ruptured or deteriorated bag(s) inside the baghouse.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The inlet flue to the baghouse shall not bypass the baghouse to the stack at any time that the facility is in operation.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The pressure drop across the baghouse shall be maintained between 2.0 - 8.0 inches water column.

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).





SECTION D. Source Level Requirements

Source ID: C04 Source Name: CARBON ADSORPTION SYSTEM

Source Capacity/Throughput: N/A SOIL



I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

IV. RECORDKEEPING REQUIREMENTS.

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain daily records of the daily monitoring for VOC breakthrough required on the activated carbon adsorbers.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The activated carbon adsorbers shall be monitored daily for VOC breakthrough. When breakthrough occurs, the air flow shall be directed to the standby unit while the other saturated unit is being regenerated. Breakthrough shall be defined as any time the effluent VOC concentration is 10 percent or more of the influent concentration and the influent concentration is more than 40 ppmv.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

These units shall be connected in parallel to each other. One adsorber unit shall be on-line while the other shall be on standby.

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

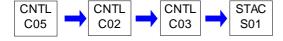




SECTION D. **Source Level Requirements**

Source ID: C05 Source Name: 36-CONE MULTI-CONE CYCLONE

> Source Capacity/Throughput: N/A SOIL



RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

III. MONITORING REQUIREMENTS.

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a) The multi-cone cyclone shall be equipped with a pressure drop gauge to continuously monitor the pressure drop across the multi-cone cyclone.
- (b) The permittee shall monitor the pressure drop across the multi-cone cyclone continuously.

IV. RECORDKEEPING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain records of the operating pressure drop across the multi-cone cyclone on a daily basis.

REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The operating pressure drop across the multi-cone cyclone shall be maintained between 3.0 - 8.0 inches water gauge.

[25 Pa. Code §127.441]

Operating permit terms and conditions.

The multi-cone cyclone shall be operated and maintained in accordance with the manufacturer's specifications and good air pollution control practices.

VII. ADDITIONAL REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a) The multi-cone cyclone is manufactured by Astec Industries, Model type 36-Tube Multi-cone.
- (b) The capping of cyclone tubes in the multi-cone cyclone shall not be modified without prior approval from the Department.



SECTION D. Source Level Requirements

(c) There shall be no increase in particulate matter loading at the inlet of the Afterburner (Source ID C02) due to the installation of the multi-cone cyclone.





SECTION E. Source Group Restrictions.





SECTION F. **Alternative Operation Requirements.**

Alternative Operation Name: ALT. OPERATING SCENARIO: SOURCE ID 103

#001 CHANGES FROM NORMAL OPERATION

The following are applicable when the PTU is not in operation and/or the facility is not processing contaminated soils/aggregates.

Sources included in this Alternative Operation:

ID	Name	Source Type
103	STORAGE BUILDING & PILES	Process

Alternative Operation Map:



RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

III. MONITORING REQUIREMENTS.

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor, on a daily basis, the volumetric flow rate from the storage building to the carbon adsorbers.

IV. RECORDKEEPING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain daily records of the volumetric flow rate from the storage building to the carbon adsorbers.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

When the facility is not processing contaminated soils/aggregates, a volumetric air flow rate of 1670 cfm shall be drawn across the stockpiles and discharge area to the activated carbon adsorber units.

[25 Pa. Code §127.441]

Operating permit terms and conditions.

The carbon adsorption system shall operate at all times when the PTU is not operating and when contaminated soil is present in the building.

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).





SECTION F. **Alternative Operation Requirements.**

Alternative Operation Name: ALT. OPERATING SCENARIO: SOURCE ID 109

#001 CHANGES FROM NORMAL OPERATION

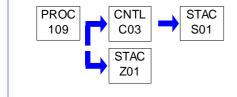
Production of thermally remediated soil/aggregate using Class A or B biosolids to cool the remediated soil/aggregate.

Sources included in this Alternative Operation:

ID	Name	Source Type
109	PUGMILL MIXER	Process

Alternative Operation Map:

09-00102



RESTRICTIONS.

Throughput Restriction(s).

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Maximum feed rate of Class A or B biosolids to the pugmill mixer shall not exceed 9.5 tons/hr, dry basis.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

III. MONITORING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

In addition to the monitoring required for the primary treatment scenario, as defined in Section D of this permit, the permittee shall also monitor the following:

- (a) Hours of operation for the alternate operating scenario, on a daily basis, as defined in this section of this permit.
- (b) Feed rate of the Class A or B biosolids to the pugmill, on an hourly basis.

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

In addition to the recordkeeping required for the primary treatment scenario, as defined in Section D of this permit, the permittee shall also maintain records of the following:

- (a) Hours of operation for the alternate operating scenario, on a daily basis, as defined in this section of this permit.
- (b) Feed rate of the Class A or B biosolids to the pugmill, on an hourly basis.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

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SECTION F. **Alternative Operation Requirements.**

VI. WORK PRACTICE REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The Class A and B biosolids shall be stored indoors until it is to be added to the pugmill mixer for processing.

[25 Pa. Code §127.441]

Operating permit terms and conditions.

When operating according to the alternate operating scenario as defined in this section of this permit, the exhaust from the pugmill shall be directed to the baghouse.

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).







SECTION G. Emission Restriction Summary.

Source id	Oddice Description
101	PRIMARY TREATMENT UNIT

Emission Limit			Pollutant
0.120	Lbs/Hr		Benzene
7.400	.400 Lbs/Hr		CO
15.200	Tons/Yr	Determined on a 12-month rolling period	CO
3.900	Lbs/Hr		Hydrochloric Acid
30.000	30.000 PPMV Hourly average, corrected to 7% O2, dry basis		Hydrochloric Acid
10.000 Lbs/Hr			NOX
20.500	20.500 Tons/Yr Determined on a 12-month rolling period		NOX
50.000 PPMV Dry volume		Dry volume	SOX
0.020	020 gr/DRY FT3 Applies to filterable PM only		TSP
5.230	Lbs/Hr Applies to filterable PM only		TSP
10.700 Tons/Yr Applies to filterable PM only; Determined on a TS 12-month rolling period		TSP	
1.000	Lbs/Hr		VOC
2.500	2.500 Tons/Yr Determined on a 12-month rolling period VOC		VOC

106 EXTEC/ROBOTRAC SCREEN W/ DIESEL ENGINE

Emission Limit			Pollutant
1.520	Tons/Yr	Determined on a 12-month rolling basis	CO
5.960	Tons/Yr	Determined on a 12-month rolling basis	Hazardous Air Pollutants
2.160	Tons/Yr	Determined on a 12-month rolling basis	NOX
0.510	Tons/Yr	Determined on a 12-month rolling basis	SOX
0.100	Tons/Yr	Determined on a 12-month rolling basis	TSP
6.340	Tons/Yr	Determined on a 12-month rolling basis	VOC

108 SANDVIK SCREEN W/ CATERPILLAR ENGINE

Emission Limit			Pollutant
1.520	Tons/Yr	Determined on a 12-month rolling basis	CO
5.960	Tons/Yr	Determined on a 12-month rolling basis	Hazardous Air Pollutants
2.160	Tons/Yr	Determined on a 12-month rolling basis	NOX
0.510	Tons/Yr	Determined on a 12-month rolling basis	SOX
0.100	Tons/Yr	Determined on a 12-month rolling basis	TSP
6.340	Tons/Yr	Determined on a 12-month rolling basis	VOC

Site Emission Restriction Summary

Emission Limit		Pollutant
24.900 Tons/Yr	Total HAP	Hazardous Air Pollutants
9.900 Tons/Yr	Individual HAP	Hazardous Air Pollutants





SECTION G. Emission Restriction Summary.

Alternative Operation Emission Restriction Summary

Source Id

Source Description





SECTION H. Miscellaneous.

(a) The following source is no longer an active source at this facility:

Cedar Rapids Jaw Crusher (Source ID 102): This source was originally included in operating permit 09-330-011B. As of 6/12/2003 this source had been out of operation for over a year. A new plan approval is needed for this source before being put back into service.

- (b) The following previously issued Plan Approvals and Operating Permits serve as a basis for certain terms and conditions in this State Only Operating Permit (APS ID: 584559, Auth ID: 797522):
 - (1) State Only Operating Permit No. 09-00102 (APS ID: 500923, Auth ID: 582609)
 - (2) 09-0102B (Modifications to existing State Only Operating Permit)
 - (3) State Only Operating Permit No. 09-00102 (APS ID: 584559, Auth ID: 716241)
 - (4) 09-0102A (Installation of an indoor screen with diesel engine)
- (c) This State Only Operating Permit (Synthetic Minor) has been renewed for another 5-year term under APS ID: 584559, AUTH ID: 804698.
- (d) This State Only Operating Permit (Synthetic Minor) has been amended to incorporate the requirements of Plan Approval No. 09-0102D under APS ID: 584559, AUTH ID: 906941. This Administrative Amendment also incorporates Request for Determination (RFD) No. 2481. Per the RFD:
 - (1) The permittee must keep on file a sample analysis of drill cuttings for each location drill cuttings are received from;
 - (2) The permittee must keep records of the amount of drill cuttings received by location (site of origination); and,
 - (3) The Department reserves the right to require stack testing while drill cuttings are thermally treated to demonstrate compliance with the existing State Only Operating Permit conditions.
- (e) This State Only Operating Permit (Synthetic Minor) has been renewed for another 5-year term under APS ID: 584559, AUTH ID: 1049901 and incorporates the requirements of Plan Approval No. 09-0102E under APS ID: 584559, AUTH ID: 1099177. The permit renewal also incorporates Request for Determination (RFD) No. 3395 by reference, which was approved for the temporary operation of a Robotrac Screen for a period not to exceed six (months), while a Terex/Finley Trommel Screen was repaired or authorization was received for a new screen.
- (f) This State Only Operating Permit (Synthetic Minor) has been renewed for another 5-year term under APS ID: 584559, AUTH ID: 1323730. This permit renewal makes corrections to the emission limits for the indoor screens (Source IDs 106 and 108), specifically for NOx, VOC, and HAP, based on already approved emission rates that were determined during the review of Plan Approval No. 09-0102E. This permit renewal also incorporates Request for Determination (RFD) Nos. 7934 and 9161:
 - (1) RFD No.7934 for the replacement of the upper shell, tube sheet, and cages of the Baghouse (Source IDC03), and replacement of the existing PTFE-coated bags with an identical number and size of PTFE-coated bags of equal performance.
 - (2) RFD No. 9161, to replace the Sandvik Screen (Source 107) with another Sandvik Screen operated by a Caterpillar engine (included under Section D as Source ID 108).





***** End of Report *****