

Slate Belt Heat Recovery Center, LLC
435 Williams Court, Suite 100
Baltimore, MD 21220

**NPDES PERMIT APPLICATION TO DISCHARGE
INDUSTRIAL STORMWATER**

Slate Belt Heat Recovery Center
Plainfield Township
Northampton County, PA

March 2018

Prepared By:



March 14, 2018

Mr. Bharat Patel
Permits Chief
Northeast Regional Office
PA Department of Environmental Protection
2 Public Square
Wilkes-Barre, PA 18701-1906

**RE: Individual NPDES Permit Application – Stormwater Runoff
from Industrial Activities
Slate Belt Heat Recovery Center
Plainfield Township, Northampton County, PA
EarthRes Project No. 151014.003**

Dear Mr. Patel:

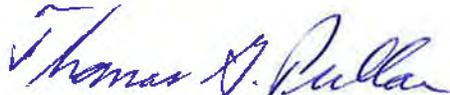
On behalf of Slate Belt Heat Recovery Center, LLC, and in support of the proposed Slate Belt Heat Recovery Center (SBHRC), EarthRes Group, Inc. hereby submits an original and three (3) copies of the NPDES permit application for the discharge of stormwater associated with industrial activity from the facility located in the 2100 block of Pen Argyl Road, Plainfield Township, Northampton County, PA. The individual permit application covers the discharge of stormwater runoff from the proposed SBHRC facility.

The SBHRC facility is located within the GCSL property and landfill permit boundary. The site is within the contributory drainage area of Sediment Basin #2 at GCSL (an existing, permitted, engineered, non-discharging stormwater control pond), which is designated as Outfall 012 in the GCSL NPDES permit. The property is located within the Little Bushkill Creek watershed; however, Sediment Basin #2 does not discharge to surface water. The NPDES application is being filed to establish a monitoring point for runoff from the SBHRC site prior to discharge to Sediment Basin #2.

A check made payable to Commonwealth of Pennsylvania in the amount of \$2,000.00 is included for the application fee. The local newspaper public notice is currently being published, and proof of publication will be provided under separate cover.

Please call with any questions or if you require additional information.

Sincerely,
EarthRes Group, Inc.



Thomas, G. Pullar, P.E.
Senior Project Manager

Enclosures: As Stated

cc: John Goodwin, SBHRC (w/ enclosure)
Glenn Kempa, GCSL (w/ enclosure)
Tom Petrucci, Plainfield Township (w/ enclosure)
Carlton Snyder, GKEDC (w/ enclosure)

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ATTACHMENTS

Attachment A Figure 1 – Site Location Map
 Figure 2 – Site Plan

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**SECTION 1.0
INTRODUCTION**

INTRODUCTION

Slate Belt Heat Recovery Center, LLC (SBHRC) proposes to develop a biosolids processing facility located in Plainfield Township, Northampton County, Pennsylvania (see Figure 1 in Attachment A). The site is located adjacent to the Green Knight Economic Development Corporation (GKEDC) at the Grand Central Sanitary Landfill (GCSL). SBHRC is applying for an individual National Pollutant Discharge Elimination System (NPDES) permit to cover the discharge of stormwater runoff from the site, which is considered an industrial activity.

An individual NPDES permit is required as the facility is located in the Little Bushkill Creek watershed, designated in Chapter 93 as a High Quality – Cold Water Fishery. Stormwater from the SBHRC site will be monitored separately from the GCSL outfalls. Stormwater from the facility will discharge into an existing, non-discharging, engineered, permitted, designed stormwater control pond known as Sediment Basin #2 located on the GCSL property (see Figure 2, Site Plan in Attachment A). GCSL Sediment Basin #2 is associated with Outfall 012 of GCSL's NPDES Permit No. PA 0074083. The SBHRC facility is located within the contributory drainage area of Outfall 012, but stormwater will be engineered to be controlled, managed and monitored separately.

SBHRC will discharge stormwater from the proposed facility following the terms and conditions of the NPDES permit when issued. Stormwater is considered uncontaminated runoff from the regulated industrial activities on the site. Process wastewater generated by the drying process including, but not limited to, air scrubber blowdown, wash water and precipitation accumulated in receiving unit, product load out and storage tank containment areas will be managed separately and transported to a permitted offsite liquid treatment facility for disposal. Sanitary wastewater generated from site restrooms, break rooms and locker rooms will be conveyed to the Pen Argyl Municipal Authority for treatment and disposal. Process wastewater and sanitary wastewater are managed separately and are not proposed for discharge from the SBHRC under this NPDES permit.

SBHRC's process involves using the waste heat from the GKEDC landfill gas-fired turbines to dry dewatered biosolids in an enclosed facility and produce a Class A biosolid product that will be used as a fertilizer blending agent, soil conditioner, and/or a renewable fuel product. The proposed project location was chosen based on the waste heat source provided by the GKEDC. The proposed project will also redirect biosolids to beneficial use that otherwise could be landfilled.

Biosolids will be transported to the site and weighed at the GCSL scales. The biosolids are then taken to the SBHRC processing facility where they are deposited into a covered receiving unit. The

biosolids are conveyed from the covered receiving unit into the processing facility and dried using heat recovered and transferred into thermal oil at the adjacent GKEDC facility. Dried biosolids are conveyed into storage silos and then transported from the facility to end users.

Stormwater from the SBHRC site, parking lot and driveway, will be conveyed through a vegetated swale to Outfall 001 and subsequently to Sediment Basin #2. This discharge will have the highest potential for impact and is proposed for monitoring. SBHRC will employ best management practices to capture stormwater in contact with material handling. The truck tipping equipment pads (2) will have containment of precipitation and tailgate wash water, and water captured in these areas will be conveyed to the 300,000 gallon storage tank and transported as process wastewater to offsite disposal. The load out pad for the product silos will be enclosed; however, any water captured in this area will be managed as process wastewater. In addition, the runoff swale is designed to capture sediment and improved runoff quality prior to discharge.

The facility is proposed; therefore, the application is submitted without any site specific data. Once SBHRC operations begin, a sample will be collected for required analysis and the data submitted to the Department. Future sampling, analysis and reporting will be performed by SBHRC following the terms and conditions of the NPDES permit.

SECTION 2.0
CHECKLIST AND CHECKLIST NARRATIVE



NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) APPLICATION FOR INDIVIDUAL PERMIT TO DISCHARGE INDUSTRIAL STORMWATER

| APPLICANT'S ✓ CHECKLIST | | | |
|---|---|-------------------------------------|--------------------------|
| Applicant Name | Slate Belt Heat Recovery Center, LLC | | |
| <p>Check the following list to make sure you have included all the required information. Place a checkmark in the box provided for all items completed and/or provided.</p> <p style="text-align: center;">ENCLOSE THIS CHECKLIST WITH YOUR COMPLETED APPLICATION. FAILURE TO SUBMIT ALL REQUIRED INFORMATION MAY RESULT IN DENIAL OF THE APPLICATION.</p> | | | |
| | REQUIREMENTS | Check ✓ If Included | DEP Use Only |
| 1. | Application Fee. Amount Enclosed \$ <u>2,000.00</u> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. | One signed original and 2 copies of the <i>completed</i> application with all applicable Analytical Results Tables. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. | One additional copy of application for ECHD (if located in Erie County). | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. | One copy of application mailed to Delaware River Basin Commission (if discharge is in the Delaware River Basin) | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 5. | One copy of the General Information Form (1300-PM-BIT0001). | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 6. | Proper evidence of Act 14 municipal and county notifications. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 7. | Evidence of newspaper publication for 4 consecutive weeks (new and modified discharges only) | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 8. | Copy of topographic/aerial map of facility and outfalls. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 9. | Site plan identifying significant site features. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 10. | Preparedness, Prevention and Contingency (PPC) Plan (optional) | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 11. | Module 1 – Anti-Degradation, and attachments (if applicable) | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 12. | Optional site-specific data: _____ | <input type="checkbox"/> | <input type="checkbox"/> |

*See attached Supplemental Narrative on following page.

NPDES Applicants Checklist
Supplemental Narrative

- 1. Application Fee:**
 - a. The application fee of \$2,000 for a new permit has been included with this application package.
- 2. Number of Copies:**
 - a. One (1) signed and two (2) copies of the completed application have been provided.
- 3. Copy for ECHD:**
 - a. The Site (Slate Belt Heat Recovery Center) is not located in Erie County. Therefore, a copy of the application package for ECHD has not been provided.
- 4. Copy for DRBC:**
 - a. The proposed Site (Slate Belt Heat Recovery Center) is located in the Delaware River Basin. Therefore, an additional copy of the application package has been provided.
- 5. General Information Form (GIF):**
 - a. A copy of the signed GIF has been included in each copy of the application package.
- 6. Municipal and County Notifications:**
 - a. Proper evidence for both municipal and county notifications have been included with the application package.
- 7. Newspaper Publication:**
 - a. Evidence of newspaper publication will provided when completed.
- 8. Topographical Map:**
 - a. A topographical map, including the facility and outfall(s), has been provided with the application package.
- 9. Site Plan:**
 - a. A Site Plan drawing identifying significant features has been provided with the application package.
- 10. PPC Plan:**
 - a. A Contingency Plan for Emergency Procedures has been included with the application package.
- 11. Module 1:**
 - a. Module 1 – Anti-Degradation and applicable attachments have been included with the application package.
- 12. Optional Site Specific Data:**
 - a. Site Specific Data will be provided following facility start up.

SECTION 3.0
GENERAL INFORMATION FORM (GIF)


GENERAL INFORMATION FORM – AUTHORIZATION APPLICATION

Before completing this General Information Form (GIF), read the step-by-step instructions provided in this application package. This version of the General Information Form (GIF) must be completed and returned with any program-specific application being submitted to the Department.

| Related ID#s (If Known) | | DEP USE ONLY | |
|-------------------------|-----|--------------|-------------------------------|
| Client ID# | TBD | APS ID# | Date Received & General Notes |
| Site ID# | TBD | Auth ID# | |
| Facility ID# | TBD | | |

CLIENT INFORMATION

| | | | |
|---|------------------------|----------------------|------------|
| DEP Client ID# | Client Type / Code | | |
| TBD | LLC | | |
| Organization Name or Registered Fictitious Name | Employer ID# (EIN) | Dun & Bradstreet ID# | |
| Slate Belt Heat Recovery Center, LLC | 45-4824177 | | |
| Individual Last Name | First Name | MI | Suffix SSN |
| Additional Individual Last Name | First Name | MI | Suffix SSN |
| Mailing Address Line 1 | Mailing Address Line 2 | | |
| 435 Williams Court | Suite 100 | | |
| Address Last Line – City | State | ZIP+4 | Country |
| Baltimore | MD | 21220-2888 | USA |
| Client Contact Last Name | First Name | MI | Suffix |
| Goodwin | John | | |
| Client Contact Title | Phone | Ext | |
| Vice President - Engineering | 443-489-9069 | | |
| Email Address | FAX | | |
| jgoodwin@SYNAGRO.com | N/A | | |

SITE INFORMATION

| | | | |
|-------------------------------------|---|--------------------------|---|
| DEP Site ID# | Site Name | | |
| TBD | Slate Belt Heat Recovery Center, LLC | | |
| EPA ID# | Estimated Number of Employees to be Present at Site | | 16 |
| Description of Site | Biosolids Processing Facility | | |
| County Name | Municipality | City | Boro Twp State |
| Northampton | Plainfield | <input type="checkbox"/> | <input type="checkbox"/> <input checked="" type="checkbox"/> PA |
| County Name | Municipality | City | Boro Twp State |
| | | <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> |
| Site Location Line 1 | Site Location Line 2 | | |
| 2100 block of Pen Argyl Road | | | |
| Site Location Last Line – City | State | ZIP+4 | |
| Pen Argyl | PA | 18072 | |
| Detailed Written Directions to Site | Take Route 33 to the Route 512 Wind Gap/Pen Argyl exit. Off the exit, turn onto Route 512 North (a right turn from Route 33 Northbound). Follow Route 512 through Wind Gap, turning right at the Turkey Hill in Wind Gap (3rd traffic light) to stay on Route 512. After 1.4 miles, turn right into Grand Central Sanitary Landfill. The entrance to the Slate Belt Heat Recovery Center will be on the right adjacent to the Green Knight Energy Center at 2147 Pen Argyl Road, Pen Argyl, PA. | | |
| Site Contact Last Name | First Name | MI | Suffix |
| John | Goodwin | | |
| Site Contact Title | Site Contact Firm | | |
| Vice President - Engineering | Slate Belt Heat Recovery Center, LLC | | |

| | | | | | |
|--|------------|-------------------|--|----------------------------|--|
| Mailing Address Line 1 435 Williams Court | | | Mailing Address Line 2 Suite 100 | | |
| Mailing Address Last Line – City Baltimore | | | State MD | ZIP+4 21220-2888 | |
| Phone 443-489-9069 | Ext | FAX N/A | Email Address jgoodwin@SYNAGRO.com | | |
| NAICS Codes (Two- & Three-Digit Codes – List All That Apply) 562 | | | 6-Digit Code (Optional) 562219 | | |

Client to Site Relationship
OWNOP Owner/Operator

FACILITY INFORMATION

Modification of Existing Facility

| | | |
|---|---|-----------------------------|
| 1. Will this project modify an existing facility, system, or activity? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| 2. Will this project involve an addition to an existing facility, system, or activity? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |

If "Yes", check all relevant facility types and provide DEP facility identification numbers below.

| Facility Type | DEP Fac ID# | Facility Type | DEP Fac ID# |
|---|------------------|--|--------------|
| <input checked="" type="checkbox"/> Air Emission Plant | GKEDC #574507 | <input type="checkbox"/> Industrial Minerals Mining Operation | |
| <input type="checkbox"/> Beneficial Use (water) | | <input type="checkbox"/> Laboratory Location | |
| <input type="checkbox"/> Blasting Operation | | <input type="checkbox"/> Land Recycling Cleanup Location | |
| <input type="checkbox"/> Captive Hazardous Waste Operation | | <input type="checkbox"/> MineDrainageTrmt/LandRecyProjLocation | |
| <input type="checkbox"/> Coal Ash Beneficial Use Operation | | <input checked="" type="checkbox"/> Municipal Waste Operation | GCSL #100265 |
| <input type="checkbox"/> Coal Mining Operation | | <input type="checkbox"/> Oil & Gas Encroachment Location | |
| <input type="checkbox"/> Coal Pillar Location | | <input type="checkbox"/> Oil & Gas Location | |
| <input type="checkbox"/> Commercial Hazardous Waste Operation | | <input type="checkbox"/> Oil & Gas Water Poll Control Facility | |
| <input type="checkbox"/> Dam Location | | <input type="checkbox"/> Public Water Supply System | |
| <input type="checkbox"/> Deep Mine Safety Operation -Anthracite | | <input type="checkbox"/> Radiation Facility | |
| <input type="checkbox"/> Deep Mine Safety Operation -Bituminous | | <input type="checkbox"/> Residual Waste Operation | |
| <input type="checkbox"/> Deep Mine Safety Operation -Ind Minerals | | <input type="checkbox"/> Storage Tank Location | |
| <input type="checkbox"/> Encroachment Location (water, wetland) | | <input type="checkbox"/> Water Pollution Control Facility | |
| <input type="checkbox"/> Erosion & Sediment Control Facility | | <input type="checkbox"/> Water Resource | |
| <input type="checkbox"/> Explosive Storage Location | | <input type="checkbox"/> Other: | |

| Latitude/Longitude Point of Origin | Latitude | | | Longitude | | |
|--|---|---------------|---------|---------------|---------|---------|
| | Degrees | Minutes | Seconds | Degrees | Minutes | Seconds |
| Center of Area | 40° | 51' | 34" | -75° | 15' | 41" |
| Horizontal Accuracy Measure | Feet | | | --or-- Meters | | |
| Horizontal Reference Datum Code | <input type="checkbox"/> North American Datum of 1927 <input checked="" type="checkbox"/> North American Datum of 1983 <input type="checkbox"/> World Geodetic System of 1984 | | | | | |
| Horizontal Collection Method Code | EMAP | | | | | |
| Reference Point Code | CNTAR | | | | | |
| Altitude | Feet 700 | | | --or-- Meters | | |
| Altitude Datum Name | <input type="checkbox"/> The National Geodetic Vertical Datum of 1929 <input checked="" type="checkbox"/> The North American Vertical Datum of 1988 (NAVD88) | | | | | |
| Altitude (Vertical) Location Datum Collection Method Code | TOPO | | | | | |
| Geometric Type Code | POINT | | | | | |
| Data Collection Date | January 2018 | | | | | |
| Source Map Scale Number | 1 | Inch(es) | = | 24,000 | Feet | |
| | --or-- | Centimeter(s) | = | | Meters | |

PROJECT INFORMATION

Project Name
Slate Belt Heat Recovery Center

Project Description
The proposed project involves the construction of a biosolids dryer facility. Dewatered municipal biosolids, primary/secondary blend, digested and undigested, will be transported to the proposed facility where they will be thermally dried to produce Class A biosolids that will be marketed as a fertilizer, soil conditioner, and renewable fuel product.

| | | | |
|---|-----------------------------|-----------------|-----------------------|
| Project Consultant Last Name Pullar | First Name Thomas | MI G. | Suffix P.E. |
|---|-----------------------------|-----------------|-----------------------|

| | | | |
|---|------------|---|--|
| Project Consultant Title Senior Project Manager | | Consulting Firm EarthRes Group, Inc. | |
| Mailing Address Line 1 P.O. Box 468 | | Mailing Address Line 2 6912 Old Easton Road | |
| Address Last Line - City Pipersville | | State PA | ZIP+4 18947 |
| Phone (215) 766-1211 | Ext | FAX (215) 766-1234 | Email Address tpullar@earthres.com |

| Time Schedules | Project Milestone (Optional) |
|---------------------|------------------------------|
| November 28, 2017 | Pre-Application Meeting |
| March 15, 2018 | PA DEP Applications |
| Oct 2018 - Dec 2018 | PA DEP Permit Issuance |
| February 2019 | Building Permits |
| Fall 2019 | Construction |
| December 2019 | Certification |
| December 2019 | Start-Up |
| | |
| | |
| | |
| | |

1. Have you informed the surrounding community and addressed any concerns prior to submitting the application to the Department? Yes No
2. Is your project funded by state or federal grants? Yes No
Note: If "Yes", specify what aspect of the project is related to the grant and provide the grant source, contact person and grant expiration date.
 Aspect of Project Related to Grant _____
 Grant Source: _____
 Grant Contact Person: _____
 Grant Expiration Date: _____
3. Is this application for an authorization on Appendix A of the Land Use Policy? (For referenced list, see Appendix A of the Land Use Policy attached to GIF instructions) Yes No
Note: If "No" to Question 3, _____
 If "Yes" to Question 3, the application is subject to this policy and the Applicant should answer the additional questions in the Land Use Information section.

LAND USE INFORMATION

Note: Applicants are encouraged to submit copies of local land use approvals or other evidence of compliance with local comprehensive plans and zoning ordinances.

1. Is there an adopted county or multi-county comprehensive plan? Yes No
2. Is there an adopted municipal or multi-municipal comprehensive plan? Yes No
3. Is there an adopted county-wide zoning ordinance, municipal zoning ordinance or joint municipal zoning ordinance? Yes No
Note: If the Applicant answers "No" to either Questions 1, 2 or 3, the provisions of the PA MPC are not applicable and the Applicant does not need to respond to questions 4 and 5 below.
 If the Applicant answers "Yes" to questions 1, 2 and 3, the Applicant should respond to questions 4 and 5 below.
4. Does the proposed project meet the provisions of the zoning ordinance or does the proposed project have zoning approval? If zoning approval has been received, attach documentation. Yes No
5. Have you attached Municipal and County Land Use Letters for the project? Yes No

COORDINATION INFORMATION

Note: The PA Historical and Museum Commission must be notified of proposed projects in accordance with DEP Technical Guidance Document 012-0700-001 and the accompanying Cultural Resource Notice Form.

If the activity will be a mining project (i.e., mining of coal or industrial minerals, coal refuse disposal and/or the operation of a coal or industrial minerals preparation/processing facility), respond to questions 1.0 through 2.5 below.

If the activity will not be a mining project, skip questions 1.0 through 2.5 and begin with question 3.0.

| | | | | | |
|------------|---|--------------------------|-----|--------------------------|----|
| 1.0 | Is this a coal mining project? If "Yes", respond to 1.1-1.6. If "No", skip to Question 2.0. | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 1.1 | Will this coal mining project involve coal preparation/ processing activities in which the total amount of coal prepared/processed will be equal to or greater than 200 tons/day? | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 1.2 | Will this coal mining project involve coal preparation/ processing activities in which the total amount of coal prepared/processed will be greater than 50,000 tons/year? | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 1.3 | Will this coal mining project involve coal preparation/ processing activities in which thermal coal dryers or pneumatic coal cleaners will be used? | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 1.4 | For this coal mining project, will sewage treatment facilities be constructed and treated waste water discharged to surface waters? | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 1.5 | Will this coal mining project involve the construction of a permanent impoundment meeting one or more of the following criteria: (1) a contributory drainage area exceeding 100 acres; (2) a depth of water measured by the upstream toe of the dam at maximum storage elevation exceeding 15 feet; (3) an impounding capacity at maximum storage elevation exceeding 50 acre-feet? | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 1.6 | Will this coal mining project involve underground coal mining to be conducted within 500 feet of an oil or gas well? | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 2.0 | Is this a non-coal (industrial minerals) mining project? If "Yes", respond to 2.1-2.6. If "No", skip to Question 3.0. | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 2.1 | Will this non-coal (industrial minerals) mining project involve the crushing and screening of non-coal minerals other than sand and gravel? | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 2.2 | Will this non-coal (industrial minerals) mining project involve the crushing and/or screening of sand and gravel with the exception of wet sand and gravel operations (screening only) and dry sand and gravel operations with a capacity of less than 150 tons/hour of unconsolidated materials? | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 2.3 | Will this non-coal (industrial minerals) mining project involve the construction, operation and/or modification of a portable non-metallic (i.e., non-coal) minerals processing plant under the authority of the General Permit for Portable Non-metallic Mineral Processing Plants (i.e., BAQ-PGPA/GP-3)? | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 2.4 | For this non-coal (industrial minerals) mining project, will sewage treatment facilities be constructed and treated waste water discharged to surface waters? | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 2.5 | Will this non-coal (industrial minerals) mining project involve the construction of a permanent impoundment meeting one or more of the following criteria: (1) a contributory drainage area exceeding 100 acres; (2) a depth of water measured by the upstream toe of the dam at maximum storage elevation exceeding 15 feet; (3) an impounding capacity at maximum storage elevation exceeding 50 acre-feet? | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |

| | | | | | |
|-------|---|-------------------------------------|-----|-------------------------------------|----|
| 3.0 | Will your project, activity, or authorization have anything to do with a well related to oil or gas production, have construction within 200 feet of, affect an oil or gas well, involve the waste from such a well, or string power lines above an oil or gas well? If "Yes", respond to 3.1-3.3. If "No", skip to Question 4.0. | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No |
| 3.1 | Does the oil- or gas-related project involve any of the following: placement of fill, excavation within or placement of a structure, located in, along, across or projecting into a watercourse, floodway or body of water (including wetlands)? | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 3.2 | Will the oil- or gas-related project involve discharge of industrial wastewater or stormwater to a dry swale, surface water, ground water or an existing sanitary sewer system or storm water system? If "Yes", discuss in <i>Project Description</i> . | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 3.3 | Will the oil- or gas-related project involve the construction and operation of industrial waste treatment facilities? | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 4.0 | Will the project involve a construction activity that results in earth disturbance? If "Yes", specify the total disturbed acreage. 4.0.1 Total Disturbed Acreage 6.3 acres | <input checked="" type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 5.0 | Does the project involve any of the following? If "Yes", respond to 5.1-5.3. If "No", skip to Question 6.0. | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No |
| 5.1 | Water Obstruction and Encroachment Projects – Does the project involve any of the following: placement of fill, excavation within or placement of a structure, located in, along, across or projecting into a watercourse, floodway or body of water? | <input checked="" type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 5.2 | Wetland Impacts – Does the project involve any of the following: placement of fill, excavation within or placement of a structure, located in, along, across or projecting into a wetland? | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No |
| 5.3 | Floodplain Projects by the commonwealth, a Political Subdivision of the commonwealth or a Public Utility – Does the project involve any of the following: placement of fill, excavation within or placement of a structure, located in, along, across or projecting into a floodplain? | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No |
| 6.0 | Will the project involve discharge of stormwater or wastewater from an industrial activity to a dry swale, surface water, ground water or an existing sanitary sewer system or separate storm water system? | <input checked="" type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 7.0 | Will the project involve the construction and operation of industrial waste treatment facilities? | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No |
| 8.0 | Will the project involve construction of sewage treatment facilities, sanitary sewers, or sewage pumping stations? If "Yes", indicate estimated proposed flow (gal/day). Also, discuss the sanitary sewer pipe sizes and the number of pumping stations/treatment facilities/name of downstream sewage facilities in the <i>Project Description</i> , where applicable. 8.0.1 Estimated Proposed Flow (gal/day) 1,120 conveyed to PAMA | <input checked="" type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 9.0 | Will the project involve the subdivision of land, or the generation of 800 gpd or more of sewage on an existing parcel of land or the generation of an additional 400 gpd of sewage on an already-developed parcel, or the generation of 800 gpd or more of industrial wastewater that would be discharged to an existing sanitary sewer system? | <input checked="" type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 9.0.1 | Was Act 537 sewage facilities planning submitted and approved by DEP? If "Yes" attach the approval letter. Approval required prior to 105/NPDES approval. | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No |
| 10.0 | Is this project for the beneficial use of biosolids for land application within Pennsylvania? If "Yes" indicate how much (i.e. gallons or dry tons per year). 10.0.1 Gallons Per Year (residential septage) Covered under separate approval 10.0.2 Dry Tons Per Year (biosolids) Covered under separate approval | <input checked="" type="checkbox"/> | Yes | <input type="checkbox"/> | No |

| | | | | | |
|--------|--|--|-----|-------------------------------------|----|
| 11.0 | Does the project involve construction, modification or removal of a dam? If "Yes", identify the dam. | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No |
| 11.0.1 | Dam Name | | | | |
| 12.0 | Will the project interfere with the flow from, or otherwise impact, a dam? If "Yes", identify the dam. | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No |
| 12.0.1 | Dam Name | | | | |
| 13.0 | Will the project involve operations (excluding during the construction period) that produce air emissions (i.e., NOX, VOC, etc.)? If "Yes", identify each type of emission followed by the amount of that emission. | <input checked="" type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 13.0.1 | Enter all types & amounts of emissions; separate each set with semicolons. | See attached emission calculations. | | | |
| 14.0 | Does the project include the construction or modification of a drinking water supply to serve 15 or more connections or 25 or more people, at least 60 days out of the year? If "Yes", check all proposed sub-facilities. | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No |
| 14.0.1 | Number of Persons Served | | | | |
| 14.0.2 | Number of Employee/Guests | | | | |
| 14.0.3 | Number of Connections | | | | |
| 14.0.4 | Sub-Fac: Distribution System | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 14.0.5 | Sub-Fac: Water Treatment Plant | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 14.0.6 | Sub-Fac: Source | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 14.0.7 | Sub-Fac: Pump Station | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 14.0.8 | Sub Fac: Transmission Main | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 14.0.9 | Sub-Fac: Storage Facility | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 15.0 | Will your project include infiltration of storm water or waste water to ground water within one-half mile of a public water supply well, spring or infiltration gallery? | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No |
| 16.0 | Is your project to be served by an existing public water supply? If "Yes", indicate name of supplier and attach letter from supplier stating that it will serve the project. | <input checked="" type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 16.0.1 | Supplier's Name | Pennsylvania American Water | | | |
| 16.0.2 | Letter of Approval from Supplier is Attached | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No |
| 17.0 | Will this project involve a new or increased drinking water withdrawal from a stream or other water body? If "Yes", should reference both Water Supply and Watershed Management. | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No |
| 17.0.1 | Stream Name | | | | |
| 18.0 | Will the construction or operation of this project involve treatment, storage, reuse, or disposal of waste? If "Yes", indicate what type (i.e., hazardous, municipal (including infectious & chemotherapeutic), residual) and the amount to be treated, stored, re-used or disposed. | <input checked="" type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 18.0.1 | Type & Amount | Class A Biosolid: 84 dry ton/day (30,660 dry ton/year) (400 wet ton/day) | | | |
| 19.0 | Will your project involve the removal of coal, minerals, etc. as part of any earth disturbance activities? | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No |
| 20.0 | Does your project involve installation of a field constructed underground storage tank? If "Yes", list each Substance & its Capacity. Note: Applicant may need a Storage Tank Site Specific Installation Permit. | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No |
| 20.0.1 | Enter all substances & capacity of each; separate each set with semicolons. | | | | |
| 21.0 | Does your project involve installation of an aboveground storage tank greater than 21,000 gallons capacity at an existing facility? If "Yes", list each Substance & its Capacity. Note: Applicant may need a Storage Tank Site Specific Installation Permit. | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No |
| 21.0.1 | Enter all substances & capacity of each; separate each set with semicolons. | Facility is proposed. See Question No. 23. | | | |

22.0 Does your project involve installation of a tank greater than 1,100 gallons which will contain a highly hazardous substance as defined in DEP's Regulated Substances List, 2570-BK-DEP2724? Yes No
 If "Yes", list each Substance & its Capacity. **Note:** Applicant may need a Storage Tank Site Specific Installation Permit.

22.0.1 Enter all substances & capacity of each; separate each set with semicolons.

23.0 Does your project involve installation of a storage tank at a new facility with a total AST capacity greater than 21,000 gallons? Yes No
 If "Yes", list each Substance & its Capacity. **Note:** Applicant may need a Storage Tank Site Specific Installation Permit.

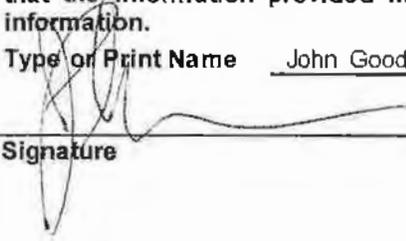
23.0.1 Enter all substances & capacity of each; separate each set with semicolons.
 300,000 gal Process Wastewater Tank
 5,000 gal Sulfuric Acid (H₂SO₄) (Acid) Tank
 3,000 gal Sodium Hydroxide (NaOH) (Caustic) Tank
 5,000 gal Sodium Hypochlorite (NaOCl) (Bleach) Tank

24.0 Will the intended activity involve the use of a radiation source? Yes No

CERTIFICATION

I certify that I have the authority to submit this application on behalf of the applicant named herein and that the information provided in this application is true and correct to the best of my knowledge and information.

Type or Print Name John Goodwin



Vice President - Engineering

Title

3/13/2018

Date

SECTION 4.0

**MUNICIPAL AND COUNTY NOTIFICATION LETTERS
AND PUBLIC NOTICE**

March 12, 2018

Lehigh Valley Planning Commission
961 Marcon Boulevard – Suite 310
Allentown, PA 18109
Phone: 610-264-4544

**RE: Slate Belt Heat Recovery Center, LLC
Notification of Individual NPDES Permit Application
Stormwater Runoff from Industrial Activities
Plainfield Township, Northampton County
EarthRes Project No. 151014.003**

Dear Commissioners:

The purpose of this notification is to inform you of our intent to submit a permit application to the Pennsylvania Department of Environmental Protection (PA DEP) for the following project:

Project Name: NPDES Permit Application
Stormwater Associated with Industrial Activity
Slate Belt Heat Recovery Center

Applicant Contact: John Goodwin
Vice President - Engineering
Slate Belt Heat Recovery Center, LLC
435 Williams Court, Suite 100
Baltimore, MD 21220

Project Location: 2100 Block of Pen Argyl Road
Plainfield Township, Northampton County

Project Description: Slate Belt Heat Recovery Center, LLC intends to submit an application to PA DEP for discharge of stormwater associated with industrial activity at a proposed facility located in Plainfield Township, Northampton County, PA.

Section 1905-A of the Commonwealth Administrative Code, as amended by Act 14, requires that each applicant for a PA DEP permit must give written notice to the municipality and the county in which the permitted activity is located. The written notices shall be received by the municipality and county at least 30 days before the Department may issue or deny the permit.

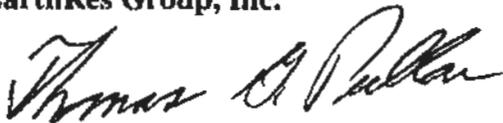
Acts 67, 68 and 127 of 2000 amended the Municipalities Planning Code (MPC) and directs state agencies to consider comprehensive plans and zoning ordinances when reviewing applications for permitting of facilities or infrastructure, and specifies that state agencies may rely upon comprehensive plans and zoning ordinances under certain conditions as described in Sections 619.2 and 1105 of the MPC.

Enclosed is a draft General Information Form (GIF) we have completed for this project. PA DEP invites you to review the attached GIF and comment on the project; please be specific when identifying any areas of conflict. If you wish to submit comments for PA DEP to consider in review of this project, you must respond within 30 days to the PA DEP Regional Office listed below. If there are no comments received by the end of the comment period, DEP will proceed with the normal application review process.

Please submit any comments concerning this project within 30 days from date of receipt of this letter to the Permits Chief, Clean Water Program, PA DEP, Northeast Regional Office, 2 Public Square, Wilkes-Barre, PA 18701-1915; telephone (570) 826-2511.

For more information about this land use review process, please visit www.dep.state.pa.us (DEP Keyword: Land Use Reviews).

Sincerely,
EarthRes Group, Inc.



Thomas G. Pullar, P.E.
Senior Project Manager

Enclosure: Draft GIF

OVERNIGHT MAIL

cc: John Goodwin, SBHRC (w/ enclosure)
Glenn Kempa, GCSL (w/ enclosure)
Tom Petrucci, Plainfield Township (w/ enclosure)
Carlton Snyder, GKEDC (w/ enclosure)


GENERAL INFORMATION FORM – AUTHORIZATION APPLICATION

Before completing this General Information Form (GIF), read the step-by-step instructions provided in this application package. This version of the General Information Form (GIF) must be completed and returned with any program-specific application being submitted to the Department.

| Related ID#s (If Known) | | DEP USE ONLY |
|-------------------------|-----|-------------------------------|
| Client ID# | TBD | Date Received & General Notes |
| Site ID# | TBD | |
| Facility ID# | TBD | |
| APS ID# | | |
| Auth ID# | | |

CLIENT INFORMATION

| | | | |
|---|------------------------|----------------------|------------|
| DEP Client ID# | Client Type / Code | | |
| TBD | LLC | | |
| Organization Name or Registered Fictitious Name | Employer ID# (EIN) | Dun & Bradstreet ID# | |
| Slate Belt Heat Recovery Center, LLC | XX-XXXXXX | | |
| Individual Last Name | First Name | MI | Suffix SSN |
| Additional Individual Last Name | First Name | MI | Suffix SSN |
| Mailing Address Line 1 | Mailing Address Line 2 | | |
| 435 Williams Court | Suite 100 | | |
| Address Last Line – City | State | ZIP+4 | Country |
| Baltimore | MD | 21220-2888 | USA |
| Client Contact Last Name | First Name | MI | Suffix |
| Goodwin | John | | |
| Client Contact Title | Phone | Ext | |
| Vice President - Engineering | 443-489-9069 | | |
| Email Address | FAX | | |
| jgoodwin@SYNAGRO.com | N/A | | |

SITE INFORMATION

| | | | |
|-------------------------------------|---|--------------------------|---|
| DEP Site ID# | Site Name | | |
| TBD | Slate Belt Heat Recovery Center, LLC | | |
| EPA ID# | Estimated Number of Employees to be Present at Site | | 16 |
| Description of Site | Biosolids Processing Facility | | |
| County Name | Municipality | City | Boro Twp State |
| Northampton | Plainfield | <input type="checkbox"/> | <input type="checkbox"/> <input checked="" type="checkbox"/> PA |
| County Name | Municipality | City | Boro Twp State |
| | | <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> |
| Site Location Line 1 | Site Location Line 2 | | |
| 2100 block of Pen Argyl Road | | | |
| Site Location Last Line – City | State | ZIP+4 | |
| Pen Argyl | PA | 18072 | |
| Detailed Written Directions to Site | Take Route 33 to the Route 512 Wind Gap/Pen Argyl exit. Off the exit, turn onto Route 512 North (a right turn from Route 33 Northbound). Follow Route 512 through Wind Gap, turning right at the Turkey Hill in Wind Gap (3rd traffic light) to stay on Route 512. After 1.4 miles, turn right into Grand Central Sanitary Landfill. The entrance to the Slate Belt Heat Recovery Center will be on the right adjacent to the Green Knight Energy Center at 2147 Pen Argyl Road, Pen Argyl, PA. | | |
| Site Contact Last Name | First Name | MI | Suffix |
| John | Goodwin | | |
| Site Contact Title | Site Contact Firm | | |
| Vice President - Engineering | Slate Belt Heat Recovery Center, LLC | | |

| | | | | | |
|--|------------|-------------------|--|--|--|
| Mailing Address Line 1 435 Williams Court | | | Mailing Address Line 2 Suite 100 | | |
| Mailing Address Last Line - City Baltimore | | | State MD | ZIP+4 21220-2888 | |
| Phone 443-489-9069 | Ext | FAX N/A | Email Address jgoodwin@SYNAGRO.com | | |
| NAICS Codes (Two- & Three-Digit Codes - List All That Apply) 562 | | | | 6-Digit Code (Optional) 562219 | |

Client to Site Relationship
OWNOP Owner/Operator

FACILITY INFORMATION

Modification of Existing Facility

| | | |
|---|-------------------------------------|--------------------------|
| 1. Will this project modify an existing facility, system, or activity? | Yes | No |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Will this project involve an addition to an existing facility, system, or activity? | Yes | No |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

If "Yes", check all relevant facility types and provide DEP facility identification numbers below.

| Facility Type | DEP Fac ID# | Facility Type | DEP Fac ID# |
|---|------------------|---|--------------|
| <input checked="" type="checkbox"/> Air Emission Plant | GKEDC #574507 | <input type="checkbox"/> Industrial Minerals Mining Operation | |
| <input type="checkbox"/> Beneficial Use (water) | | <input type="checkbox"/> Laboratory Location | |
| <input type="checkbox"/> Blasting Operation | | <input type="checkbox"/> Land Recycling Cleanup Location | |
| <input type="checkbox"/> Captive Hazardous Waste Operation | | <input type="checkbox"/> MineDrainageTrmt/LandRecyProj/Location | |
| <input type="checkbox"/> Coal Ash Beneficial Use Operation | | <input checked="" type="checkbox"/> Municipal Waste Operation | GCSL #100265 |
| <input type="checkbox"/> Coal Mining Operation | | <input type="checkbox"/> Oil & Gas Encroachment Location | |
| <input type="checkbox"/> Coal Pillar Location | | <input type="checkbox"/> Oil & Gas Location | |
| <input type="checkbox"/> Commercial Hazardous Waste Operation | | <input type="checkbox"/> Oil & Gas Water Poll Control Facility | |
| <input type="checkbox"/> Dam Location | | <input type="checkbox"/> Public Water Supply System | |
| <input type="checkbox"/> Deep Mine Safety Operation -Anthracite | | <input type="checkbox"/> Radiation Facility | |
| <input type="checkbox"/> Deep Mine Safety Operation -Bituminous | | <input type="checkbox"/> Residual Waste Operation | |
| <input type="checkbox"/> Deep Mine Safety Operation -Ind Minerals | | <input type="checkbox"/> Storage Tank Location | |
| <input type="checkbox"/> Encroachment Location (water, wetland) | | <input type="checkbox"/> Water Pollution Control Facility | |
| <input type="checkbox"/> Erosion & Sediment Control Facility | | <input type="checkbox"/> Water Resource | |
| <input type="checkbox"/> Explosive Storage Location | | <input type="checkbox"/> Other: | |

| | | | | | | |
|--|---|----------------|----------------|------------------|----------------|----------------|
| Latitude/Longitude Point of Origin | Latitude | | | Longitude | | |
| | Degrees | Minutes | Seconds | Degrees | Minutes | Seconds |
| Center of Area | 40° | 51' | 34" | -75° | 15' | 41" |
| Horizontal Accuracy Measure | Feet | | --or-- | Meters | | |
| Horizontal Reference Datum Code | <input type="checkbox"/> North American Datum of 1927 <input checked="" type="checkbox"/> North American Datum of 1983 <input type="checkbox"/> World Geodetic System of 1984 | | | | | |
| Horizontal Collection Method Code | EMAP | | | | | |
| Reference Point Code | CNTAR | | | | | |
| Altitude | Feet | | 700 | --or-- | | Meters |
| Altitude Datum Name | <input type="checkbox"/> The National Geodetic Vertical Datum of 1929 <input checked="" type="checkbox"/> The North American Vertical Datum of 1988 (NAVD88) | | | | | |
| Altitude (Vertical) Location Datum Collection Method Code | TOPO | | | | | |
| Geometric Type Code | POINT | | | | | |
| Data Collection Date | January 2018 | | | | | |
| Source Map Scale Number | 1 | Inch(es) | = | 24,000 | Feet | |
| | --or-- | Centimeter(s) | = | | Meters | |

PROJECT INFORMATION

Project Name
Slate Belt Heat Recovery Center

Project Description
The proposed project involves the construction of a biosolids dryer facility. Dewatered municipal biosolids, primary/secondary blend, digested and undigested, will be transported to the proposed facility where they will be thermally dried to produce Class A biosolids that will be marketed as a fertilizer, soil conditioner, and renewable fuel product.

| | | | |
|---|-----------------------------|-----------------|-----------------------|
| Project Consultant Last Name Pullar | First Name Thomas | MI G. | Suffix P.E. |
|---|-----------------------------|-----------------|-----------------------|

| | | | |
|---|------------|---|--|
| Project Consultant Title Senior Project Manager | | Consulting Firm EarthRes Group, Inc. | |
| Mailing Address Line 1 P.O. Box 468 | | Mailing Address Line 2 6912 Old Easton Road | |
| Address Last Line - City Pipersville | | State PA | ZIP+4 18947 |
| Phone (215) 766-1211 | Ext | FAX (215) 766-1234 | Email Address tpullar@earthres.com |

| Time Schedules | Project Milestone (Optional) |
|---------------------|--|
| Nov 2017 | Pre-Application Meetings Prep |
| Jan 2018 - Sep 2018 | PA DEP Solid Waste Permit Applications |
| Jan 2018 - Dec 2018 | PA DEP Water Quality Permit (Stormwater) |
| Jan 2018 - Oct 2018 | PA DEP Air Quality Permit |
| Jan 2018 - Oct 2018 | Preliminary Land Development & Subdivision |
| Oct 2018 - Feb 2019 | Final Land Development (Approved from Plainfield Township) |
| Feb 2019 - Mar 2019 | Zoning Permit Approval (Approved from Plainfield Township) |
| Feb 2019 - Mar 2019 | Local Building Permits (Approved from Plainfield Township) |
| Mar 2019 - Nov 2020 | Estimated Facility Construction |
| May 2019 - Oct 2020 | PA Labor and Industry Intent to Install Boiler Permit and Inspection |
| Sep 2020 - May 2020 | AST Registration and Approval |

1. **Have you informed the surrounding community and addressed any concerns prior to submitting the application to the Department?** Yes No
2. **Is your project funded by state or federal grants?** Yes No
Note: If "Yes", specify what aspect of the project is related to the grant and provide the grant source, contact person and grant expiration date.
 Aspect of Project Related to Grant _____
 Grant Source: _____
 Grant Contact Person: _____
 Grant Expiration Date: _____
3. **Is this application for an authorization on Appendix A of the Land Use Policy? (For referenced list, see Appendix A of the Land Use Policy attached to GIF instructions)** Yes No
Note: If "No" to Question 3, the application is not subject to the Land Use Policy.
 If "Yes" to Question 3, the application is subject to this policy and the Applicant should answer the additional questions in the Land Use Information section.

LAND USE INFORMATION

Note: Applicants are encouraged to submit copies of local land use approvals or other evidence of compliance with local comprehensive plans and zoning ordinances.

1. **Is there an adopted county or multi-county comprehensive plan?** Yes No
2. **Is there an adopted municipal or multi-municipal comprehensive plan?** Yes No
3. **Is there an adopted county-wide zoning ordinance, municipal zoning ordinance or joint municipal zoning ordinance?** Yes No
Note: If the Applicant answers "No" to either Questions 1, 2 or 3, the provisions of the PA MPC are not applicable and the Applicant does not need to respond to questions 4 and 5 below.
 If the Applicant answers "Yes" to questions 1, 2 and 3, the Applicant should respond to questions 4 and 5 below.
4. **Does the proposed project meet the provisions of the zoning ordinance or does the proposed project have zoning approval? If zoning approval has been received, attach documentation.** Yes No
5. **Have you attached Municipal and County Land Use Letters for the project?** Yes No

COORDINATION INFORMATION

Note: The PA Historical and Museum Commission must be notified of proposed projects in accordance with DEP Technical Guidance Document 012-0700-001 and the accompanying Cultural Resource Notice Form.

If the activity will be a mining project (i.e., mining of coal or industrial minerals, coal refuse disposal and/or the operation of a coal or industrial minerals preparation/processing facility), respond to questions 1.0 through 2.5 below.

If the activity will not be a mining project, skip questions 1.0 through 2.5 and begin with question 3.0.

| | | | | | |
|-----|---|--------------------------|-----|--------------------------|----|
| 1.0 | Is this a coal mining project? If "Yes", respond to 1.1-1.6. If "No", skip to Question 2.0. | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 1.1 | Will this coal mining project involve coal preparation/ processing activities in which the total amount of coal prepared/processed will be equal to or greater than 200 tons/day? | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 1.2 | Will this coal mining project involve coal preparation/ processing activities in which the total amount of coal prepared/processed will be greater than 50,000 tons/year? | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 1.3 | Will this coal mining project involve coal preparation/ processing activities in which thermal coal dryers or pneumatic coal cleaners will be used? | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 1.4 | For this coal mining project, will sewage treatment facilities be constructed and treated waste water discharged to surface waters? | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 1.5 | Will this coal mining project involve the construction of a permanent impoundment meeting one or more of the following criteria: (1) a contributory drainage area exceeding 100 acres; (2) a depth of water measured by the upstream toe of the dam at maximum storage elevation exceeding 15 feet; (3) an impounding capacity at maximum storage elevation exceeding 50 acre-feet? | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 1.6 | Will this coal mining project involve underground coal mining to be conducted within 500 feet of an oil or gas well? | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 2.0 | Is this a non-coal (industrial minerals) mining project? If "Yes", respond to 2.1-2.6. If "No", skip to Question 3.0. | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 2.1 | Will this non-coal (industrial minerals) mining project involve the crushing and screening of non-coal minerals other than sand and gravel? | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 2.2 | Will this non-coal (industrial minerals) mining project involve the crushing and/or screening of sand and gravel with the exception of wet sand and gravel operations (screening only) and dry sand and gravel operations with a capacity of less than 150 tons/hour of unconsolidated materials? | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 2.3 | Will this non-coal (industrial minerals) mining project involve the construction, operation and/or modification of a portable non-metallic (i.e., non-coal) minerals processing plant under the authority of the General Permit for Portable Non-metallic Mineral Processing Plants (i.e., BAQ-PGPA/GP-3)? | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 2.4 | For this non-coal (industrial minerals) mining project, will sewage treatment facilities be constructed and treated waste water discharged to surface waters? | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 2.5 | Will this non-coal (industrial minerals) mining project involve the construction of a permanent impoundment meeting one or more of the following criteria: (1) a contributory drainage area exceeding 100 acres; (2) a depth of water measured by the upstream toe of the dam at maximum storage elevation exceeding 15 feet; (3) an impounding capacity at maximum storage elevation exceeding 50 acre-feet? | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |

| | | | | | |
|--------|---|-------------------------------------|-----|-------------------------------------|----|
| 3.0 | Will your project, activity, or authorization have anything to do with a well related to oil or gas production, have construction within 200 feet of, affect an oil or gas well, involve the waste from such a well, or string power lines above an oil or gas well? If "Yes", respond to 3.1-3.3. If "No", skip to Question 4.0. | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No |
| 3.1 | Does the oil- or gas-related project involve any of the following: placement of fill, excavation within or placement of a structure, located in, along, across or projecting into a watercourse, floodway or body of water (including wetlands)? | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 3.2 | Will the oil- or gas-related project involve discharge of industrial wastewater or stormwater to a dry swale, surface water, ground water or an existing sanitary sewer system or storm water system? If "Yes", discuss in <i>Project Description</i> . | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 3.3 | Will the oil- or gas-related project involve the construction and operation of industrial waste treatment facilities? | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 4.0 | Will the project involve a construction activity that results in earth disturbance? If "Yes", specify the total disturbed acreage. 4.0.1 Total Disturbed Acreage 6.3 acres | <input checked="" type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 5.0 | Does the project involve any of the following? If "Yes", respond to 5.1-5.3. If "No", skip to Question 6.0. | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No |
| 5.1 | Water Obstruction and Encroachment Projects – Does the project involve any of the following: placement of fill, excavation within or placement of a structure, located in, along, across or projecting into a watercourse, floodway or body of water? | <input checked="" type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 5.2 | Wetland Impacts – Does the project involve any of the following: placement of fill, excavation within or placement of a structure, located in, along, across or projecting into a wetland? | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No |
| 5.3 | Floodplain Projects by the commonwealth, a Political Subdivision of the commonwealth or a Public Utility – Does the project involve any of the following: placement of fill, excavation within or placement of a structure, located in, along, across or projecting into a floodplain? | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No |
| 6.0 | Will the project involve discharge of stormwater or wastewater from an industrial activity to a dry swale, surface water, ground water or an existing sanitary sewer system or separate storm water system? | <input checked="" type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 7.0 | Will the project involve the construction and operation of industrial waste treatment facilities? | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No |
| 8.0 | Will the project involve construction of sewage treatment facilities, sanitary sewers, or sewage pumping stations? If "Yes", indicate estimated proposed flow (gal/day). Also, discuss the sanitary sewer pipe sizes and the number of pumping stations/treatment facilities/name of downstream sewage facilities in the <i>Project Description</i> , where applicable. 8.0.1 Estimated Proposed Flow (gal/day) 1,120 conveyed to PAMA | <input checked="" type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 9.0 | Will the project involve the subdivision of land, or the generation of 800 gpd or more of sewage on an existing parcel of land or the generation of an additional 400 gpd of sewage on an already-developed parcel, or the generation of 800 gpd or more of industrial wastewater that would be discharged to an existing sanitary sewer system? | <input checked="" type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 9.0.1 | Was Act 537 sewage facilities planning submitted and approved by DEP? If "Yes" attach the approval letter. Approval required prior to 105/NPDES approval. | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No |
| 10.0 | Is this project for the beneficial use of biosolids for land application within Pennsylvania? If "Yes" indicate how much (i.e. gallons or dry tons per year). | <input checked="" type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 10.0.1 | Gallons Per Year (residential septage) | Covered under separate approval | | | |
| 10.0.2 | Dry Tons Per Year (biosolids) | Covered under separate approval | | | |

| | | | | | |
|--------|--|--|-----|-------------------------------------|----|
| 11.0 | Does the project involve construction, modification or removal of a dam? If "Yes", identify the dam. | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No |
| 11.0.1 | Dam Name | | | | |
| 12.0 | Will the project interfere with the flow from, or otherwise impact, a dam? If "Yes", identify the dam. | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No |
| 12.0.1 | Dam Name | | | | |
| 13.0 | Will the project involve operations (excluding during the construction period) that produce air emissions (i.e., NOX, VOC, etc.)? If "Yes", identify each type of emission followed by the amount of that emission. | <input checked="" type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 13.0.1 | Enter all types & amounts of emissions; separate each set with semicolons. | See attached emission calculations. | | | |
| 14.0 | Does the project include the construction or modification of a drinking water supply to serve 15 or more connections or 25 or more people, at least 60 days out of the year? If "Yes", check all proposed sub-facilities. | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No |
| 14.0.1 | Number of Persons Served | | | | |
| 14.0.2 | Number of Employee/Guests | | | | |
| 14.0.3 | Number of Connections | | | | |
| 14.0.4 | Sub-Fac: Distribution System | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 14.0.5 | Sub-Fac: Water Treatment Plant | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 14.0.6 | Sub-Fac: Source | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 14.0.7 | Sub-Fac: Pump Station | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 14.0.8 | Sub Fac: Transmission Main | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 14.0.9 | Sub-Fac: Storage Facility | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 15.0 | Will your project include infiltration of storm water or waste water to ground water within one-half mile of a public water supply well, spring or infiltration gallery? | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No |
| 16.0 | Is your project to be served by an existing public water supply? If "Yes", indicate name of supplier and attach letter from supplier stating that it will serve the project. | <input checked="" type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 16.0.1 | Supplier's Name | Pennsylvania American Water | | | |
| 16.0.2 | Letter of Approval from Supplier is Attached | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No |
| 17.0 | Will this project involve a new or increased drinking water withdrawal from a stream or other water body? If "Yes", should reference both Water Supply and Watershed Management. | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No |
| 17.0.1 | Stream Name | | | | |
| 18.0 | Will the construction or operation of this project involve treatment, storage, reuse, or disposal of waste? If "Yes", indicate what type (i.e., hazardous, municipal (including infectious & chemotherapeutic), residual) and the amount to be treated, stored, re-used or disposed. | <input checked="" type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 18.0.1 | Type & Amount | Class A Biosolid: 84 dry ton/day (30,660 dry ton/year) (400 wet ton/day) | | | |
| 19.0 | Will your project involve the removal of coal, minerals, etc. as part of any earth disturbance activities? | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No |
| 20.0 | Does your project involve installation of a field constructed underground storage tank? If "Yes", list each Substance & its Capacity. Note: Applicant may need a Storage Tank Site Specific Installation Permit. | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No |
| 20.0.1 | Enter all substances & capacity of each; separate each set with semicolons. | | | | |
| 21.0 | Does your project involve installation of an aboveground storage tank greater than 21,000 gallons capacity at an existing facility? If "Yes", list each Substance & its Capacity. Note: Applicant may need a Storage Tank Site Specific Installation Permit. | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No |
| 21.0.1 | Enter all substances & capacity of each; separate each set with semicolons. | Facility is proposed. See Question No. 23. | | | |

22.0 Does your project involve installation of a tank greater than 1,100 gallons which will contain a highly hazardous substance as defined in DEP's Regulated Substances List, 2570-BK-DEP2724? If "Yes", list each Substance & its Capacity. **Note:** Applicant may need a Storage Tank Site Specific Installation Permit. Yes No

22.0.1 Enter all substances & capacity of each; separate each set with semicolons.

23.0 Does your project involve installation of a storage tank at a new facility with a total AST capacity greater than 21,000 gallons? If "Yes", list each Substance & its Capacity. **Note:** Applicant may need a Storage Tank Site Specific Installation Permit. Yes No

23.0.1 Enter all substances & capacity of each; separate each set with semicolons.
300,000 gal Process Wastewater Tank
5,000 gal Sulfuric Acid (H2SO4) (Acid) Tank
3,000 gal Sodium Hydroxide (NaOH) (Caustic) Tank
5,000 gal Sodium Hypochlorite (NaOCl) (Bleach) Tank

24.0 Will the intended activity involve the use of a radiation source? Yes No

CERTIFICATION

I certify that I have the authority to submit this application on behalf of the applicant named herein and that the information provided in this application is true and correct to the best of my knowledge and information.

Type or Print Name John Goodwin

Vice President - Engineering

Signature

Title

Date

March 12, 2018

Northampton County Council
Northampton County Courthouse
669 Washington Street
Easton, PA 18042-7475

**RE: Slate Belt Heat Recovery Center, LLC
Notification of Individual NPDES Permit Application -
Stormwater Runoff from Industrial Activities
Plainfield Township, Northampton County
EarthRes Project No. 151014.003**

Dear Council:

The purpose of this notification is to inform you of our intent to submit a permit application to the Pennsylvania Department of Environmental Protection (PA DEP) for the following project:

Project Name: Individual NPDES Permit Application
Stormwater Associated with Industrial Activity
Slate Belt Heat Recovery Center

Applicant Contact: John Goodwin
Vice President - Engineering
Slate Belt Heat Recovery Center, LLC
435 Williams Court, Suite 100
Baltimore, MD 21220

Project Location: 2100 Block of Pen Argyl Road
Plainfield Township, Northampton County

Project Description: Slate Belt Heat Recovery Center, LLC intends to submit an application to PA DEP for discharge of stormwater associated with industrial activity at a proposed biosolids processing facility located in Plainfield Township, Northampton County, PA.

Section 1905-A of the Commonwealth Administrative Code, as amended by Act 14, requires that each applicant for a PA DEP permit must give written notice to the municipality and the county in which the permitted activity is located. The written notices shall be received by the municipality and county at least 30 days before the Department may issue or deny the permit.

Acts 67, 68 and 127 of 2000 amended the Municipalities Planning Code (MPC) and directs state agencies to consider comprehensive plans and zoning ordinances when reviewing applications for permitting of facilities or infrastructure, and specifies that state agencies may rely upon comprehensive plans and zoning ordinances under certain conditions as described in Sections 619.2 and 1105 of the MPC.

Enclosed is a draft General Information Form (GIF) we have completed for this project. PA DEP invites you to review the attached GIF and comment on the project; please be specific when identifying any areas of conflict. If you wish to submit comments for PA DEP to consider in review of this project, you must respond within 30 days to the PA DEP Regional Office listed below. If there are no comments received by the end of the comment period, DEP will proceed with the normal application review process.

Please submit any comments concerning this project within 30 days from date of receipt of this letter to the Permits Chief, Clean Water Program, PA DEP, Northeast Regional Office, 2 Public Square, Wilkes-Barre, PA 18701-1915; telephone (570) 826-2511.

For more information about this land use review process, please visit www.dep.state.pa.us (DEP Keyword: Land Use Reviews).

Sincerely,
EarthRes Group, Inc.



Thomas G. Pullar, P.E.
Senior Project Manager

Enclosure: Draft GIF

OVERNIGHT MAIL

cc: John Goodwin, SBHRC (w/enclosure)
Glenn Kempa, GCSL (w/enclosure)
Tom Petrucci, Plainfield Township (w/enclosure)
Carlton Snyder, GKEDC (w/enclosure)


GENERAL INFORMATION FORM – AUTHORIZATION APPLICATION

Before completing this General Information Form (GIF), read the step-by-step instructions provided in this application package. This version of the General Information Form (GIF) must be completed and returned with any program-specific application being submitted to the Department.

| Related ID#s (If Known) | | DEP USE ONLY |
|-------------------------|-----|-------------------------------|
| Client ID# | TBD | Date Received & General Notes |
| Site ID# | TBD | |
| Facility ID# | TBD | |
| APS ID# | | |
| Auth ID# | | |

CLIENT INFORMATION

| | | | | |
|---|------------------------|----------------------|---------|-----|
| DEP Client ID# | Client Type / Code | | | |
| TBD | LLC | | | |
| Organization Name or Registered Fictitious Name | Employer ID# (EIN) | Dun & Bradstreet ID# | | |
| Slate Belt Heat Recovery Center, LLC | XX-XXXXXX | | | |
| Individual Last Name | First Name | MI | Suffix | SSN |
| | | | | |
| Additional Individual Last Name | First Name | MI | Suffix | SSN |
| | | | | |
| Mailing Address Line 1 | Mailing Address Line 2 | | | |
| 435 Williams Court | Suite 100 | | | |
| Address Last Line – City | State | ZIP+4 | Country | |
| Baltimore | MD | 21220-2888 | USA | |
| Client Contact Last Name | First Name | MI | Suffix | |
| Goodwin | John | | | |
| Client Contact Title | Phone | | Ext | |
| Vice President - Engineering | 443-489-9069 | | | |
| Email Address | FAX | | | |
| jgoodwin@SYNAGRO.com | N/A | | | |

SITE INFORMATION

| | | | | | |
|--------------------------------|---|--------------------------|--------------------------|-------------------------------------|-------|
| DEP Site ID# | Site Name | | | | |
| TBD | Slate Belt Heat Recovery Center, LLC | | | | |
| EPA ID# | Estimated Number of Employees to be Present at Site | 16 | | | |
| Description of Site | Biosolids Processing Facility | | | | |
| County Name | Municipality | City | Boro | Twp | State |
| Northampton | Plainfield | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | PA |
| County Name | Municipality | City | Boro | Twp | State |
| | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Site Location Line 1 | Site Location Line 2 | | | | |
| 2100 block of Pen Argyl Road | | | | | |
| Site Location Last Line – City | State | ZIP+4 | | | |
| Pen Argyl | PA | 18072 | | | |

Detailed Written Directions to Site

Take Route 33 to the Route 512 Wind Gap/Pen Argyl exit. Off the exit, turn onto Route 512 North (a right turn from Route 33 Northbound). Follow Route 512 through Wind Gap, turning right at the Turkey Hill in Wind Gap (3rd traffic light) to stay on Route 512. After 1.4 miles, turn right into Grand Central Sanitary Landfill. The entrance to the Slate Belt Heat Recovery Center will be on the right adjacent to the Green Knight Energy Center at 2147 Pen Argyl Road, Pen Argyl, PA.

| | | | | | |
|------------------------------|--------------------------------------|----|--------|--|--|
| Site Contact Last Name | First Name | MI | Suffix | | |
| John | Goodwin | | | | |
| Site Contact Title | Site Contact Firm | | | | |
| Vice President - Engineering | Slate Belt Heat Recovery Center, LLC | | | | |

| | | | | |
|--|------------|-------------------|--|----------------------------|
| Mailing Address Line 1 435 Williams Court | | | Mailing Address Line 2 Suite 100 | |
| Mailing Address Last Line - City Baltimore | | | State MD | ZIP+4 21220-2888 |
| Phone 443-489-9069 | Ext | FAX N/A | Email Address jgoodwin@SYNAGRO.com | |
| NAICS Codes (Two- & Three-Digit Codes - List All That Apply) 562 | | | 6-Digit Code (Optional) 562219 | |

Client to Site Relationship
OWNOP Owner/Operator

FACILITY INFORMATION

| | | |
|---|-------------------------------------|--------------------------|
| Modification of Existing Facility | Yes | No |
| 1. Will this project modify an existing facility, system, or activity? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Will this project involve an addition to an existing facility, system, or activity? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <i>If "Yes", check all relevant facility types and provide DEP facility identification numbers below.</i> | | |

| Facility Type | DEP Fac ID# | Facility Type | DEP Fac ID# |
|---|------------------|--|--------------|
| <input checked="" type="checkbox"/> Air Emission Plant | GKEDC #574507 | <input type="checkbox"/> Industrial Minerals Mining Operation | |
| <input type="checkbox"/> Beneficial Use (water) | | <input type="checkbox"/> Laboratory Location | |
| <input type="checkbox"/> Blasting Operation | | <input type="checkbox"/> Land Recycling Cleanup Location | |
| <input type="checkbox"/> Captive Hazardous Waste Operation | | <input type="checkbox"/> MineDrainageTmt/LandRecyProjLocation | |
| <input type="checkbox"/> Coal Ash Beneficial Use Operation | | <input checked="" type="checkbox"/> Municipal Waste Operation | GCSL #100265 |
| <input type="checkbox"/> Coal Mining Operation | | <input type="checkbox"/> Oil & Gas Encroachment Location | |
| <input type="checkbox"/> Coal Pillar Location | | <input type="checkbox"/> Oil & Gas Location | |
| <input type="checkbox"/> Commercial Hazardous Waste Operation | | <input type="checkbox"/> Oil & Gas Water Poll Control Facility | |
| <input type="checkbox"/> Dam Location | | <input type="checkbox"/> Public Water Supply System | |
| <input type="checkbox"/> Deep Mine Safety Operation -Anthracite | | <input type="checkbox"/> Radiation Facility | |
| <input type="checkbox"/> Deep Mine Safety Operation -Bituminous | | <input type="checkbox"/> Residual Waste Operation | |
| <input type="checkbox"/> Deep Mine Safety Operation -Ind Minerals | | <input type="checkbox"/> Storage Tank Location | |
| <input type="checkbox"/> Encroachment Location (water, wetland) | | <input type="checkbox"/> Water Pollution Control Facility | |
| <input type="checkbox"/> Erosion & Sediment Control Facility | | <input type="checkbox"/> Water Resource | |
| <input type="checkbox"/> Explosive Storage Location | | <input type="checkbox"/> Other: | |

| | | | | | | |
|--|---|----------------|------------------|----------------|----------------|----------------|
| Latitude/Longitude Point of Origin | Latitude | | Longitude | | | |
| | Degrees | Minutes | Seconds | Degrees | Minutes | Seconds |
| Center of Area | 40° | 51' | 34" | -75° | 15' | 41" |
| Horizontal Accuracy Measure | Feet | | --or-- | Meters | | |
| Horizontal Reference Datum Code | <input type="checkbox"/> North American Datum of 1927 <input checked="" type="checkbox"/> North American Datum of 1983 <input type="checkbox"/> World Geodetic System of 1984 | | | | | |
| Horizontal Collection Method Code | EMAP | | | | | |
| Reference Point Code | CNTAR | | | | | |
| Altitude | Feet | | 700 | --or-- | Meters | |
| Altitude Datum Name | <input type="checkbox"/> The National Geodetic Vertical Datum of 1929 <input checked="" type="checkbox"/> The North American Vertical Datum of 1988 (NAVD88) | | | | | |
| Altitude (Vertical) Location Datum Collection Method Code | TOPO | | | | | |
| Geometric Type Code | POINT | | | | | |
| Data Collection Date | January 2018 | | | | | |
| Source Map Scale Number | 1 | Inch(es) | = | 24,000 | Feet | |
| | --or-- | Centimeter(s) | = | | Meters | |

PROJECT INFORMATION

Project Name
Slate Belt Heat Recovery Center

Project Description
The proposed project involves the construction of a biosolids dryer facility. Dewatered municipal biosolids, primary/secondary sludge, digested and undigested, will be transported to the proposed facility where they will be thermally dried to produce Class A biosolids that will be marketed as a fertilizer, soil conditioner, and renewable fuel product.

| | | | |
|---|-----------------------------|-----------------|-----------------------|
| Project Consultant Last Name Pullar | First Name Thomas | MI G. | Suffix P.E. |
|---|-----------------------------|-----------------|-----------------------|

| | | | |
|---|------------|---|--|
| Project Consultant Title Senior Project Manager | | Consulting Firm EarthRes Group, Inc. | |
| Mailing Address Line 1 P.O. Box 468 | | Mailing Address Line 2 6912 Old Easton Road | |
| Address Last Line - City Pipersville | | State PA | ZIP+4 18947 |
| Phone (215) 766-1211 | Ext | FAX (215) 766-1234 | Email Address tpullar@earthres.com |

| Time Schedules | Project Milestone (Optional) |
|---------------------|--|
| Nov 2017 | Pre-Application Meetings Prep |
| Jan 2018 - Sep 2018 | PA DEP Solid Waste Permit Applications |
| Jan 2018 - Dec 2018 | PA DEP Water Quality Permit (Stormwater) |
| Jan 2018 - Oct 2018 | PA DEP Air Quality Permit |
| Jan 2018 - Oct 2018 | Preliminary Land Development & Subdivision |
| Oct 2018 - Feb 2019 | Final Land Development (Approved from Plainfield Township) |
| Feb 2019 - Mar 2019 | Zoning Permit Approval (Approved from Plainfield Township) |
| Feb 2019 - Mar 2019 | Local Building Permits (Approved from Plainfield Township) |
| Mar 2019 - Nov 2020 | Estimated Facility Construction |
| May 2019 - Oct 2020 | PA Labor and Industry Intent to Install Boiler Permit and Inspection |
| Sep 2020 - May 2020 | AST Registration and Approval |

- Have you informed the surrounding community and addressed any concerns prior to submitting the application to the Department?** Yes No
- Is your project funded by state or federal grants?** Yes No
Note: If "Yes", specify what aspect of the project is related to the grant and provide the grant source, contact person and grant expiration date.
 Aspect of Project Related to Grant: _____
 Grant Source: _____
 Grant Contact Person: _____
 Grant Expiration Date: _____
- Is this application for an authorization on Appendix A of the Land Use Policy? (For referenced list, see Appendix A of the Land Use Policy attached to GIF instructions)** Yes No
Note: If "No" to Question 3, the application is not subject to the Land Use Policy.
 If "Yes" to Question 3, the application is subject to this policy and the Applicant should answer the additional questions in the Land Use Information section.

LAND USE INFORMATION

Note: Applicants are encouraged to submit copies of local land use approvals or other evidence of compliance with local comprehensive plans and zoning ordinances.

- Is there an adopted county or multi-county comprehensive plan?** Yes No
- Is there an adopted municipal or multi-municipal comprehensive plan?** Yes No
- Is there an adopted county-wide zoning ordinance, municipal zoning ordinance or joint municipal zoning ordinance?** Yes No
Note: If the Applicant answers "No" to either Questions 1, 2 or 3, the provisions of the PA MPC are not applicable and the Applicant does not need to respond to questions 4 and 5 below.
 If the Applicant answers "Yes" to questions 1, 2 and 3, the Applicant should respond to questions 4 and 5 below.
- Does the proposed project meet the provisions of the zoning ordinance or does the proposed project have zoning approval?** Yes No
 If zoning approval has been received, attach documentation.
- Have you attached Municipal and County Land Use Letters for the project?** Yes No

COORDINATION INFORMATION

Note: The PA Historical and Museum Commission must be notified of proposed projects in accordance with DEP Technical Guidance Document 012-0700-001 and the accompanying Cultural Resource Notice Form.

If the activity will be a mining project (i.e., mining of coal or industrial minerals, coal refuse disposal and/or the operation of a coal or industrial minerals preparation/processing facility), respond to questions 1.0 through 2.5 below.

If the activity will not be a mining project, skip questions 1.0 through 2.5 and begin with question 3.0.

| | | | | | |
|-----|---|--------------------------|-----|--------------------------|----|
| 1.0 | Is this a coal mining project? If "Yes", respond to 1.1-1.6. If "No", skip to Question 2.0. | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 1.1 | Will this coal mining project involve coal preparation/ processing activities in which the total amount of coal prepared/processed will be equal to or greater than 200 tons/day? | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 1.2 | Will this coal mining project involve coal preparation/ processing activities in which the total amount of coal prepared/processed will be greater than 50,000 tons/year? | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 1.3 | Will this coal mining project involve coal preparation/ processing activities in which thermal coal dryers or pneumatic coal cleaners will be used? | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 1.4 | For this coal mining project, will sewage treatment facilities be constructed and treated waste water discharged to surface waters? | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 1.5 | Will this coal mining project involve the construction of a permanent impoundment meeting one or more of the following criteria: (1) a contributory drainage area exceeding 100 acres; (2) a depth of water measured by the upstream toe of the dam at maximum storage elevation exceeding 15 feet; (3) an impounding capacity at maximum storage elevation exceeding 50 acre-feet? | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 1.6 | Will this coal mining project involve underground coal mining to be conducted within 500 feet of an oil or gas well? | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 2.0 | Is this a non-coal (industrial minerals) mining project? If "Yes", respond to 2.1-2.6. If "No", skip to Question 3.0. | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 2.1 | Will this non-coal (industrial minerals) mining project involve the crushing and screening of non-coal minerals other than sand and gravel? | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 2.2 | Will this non-coal (industrial minerals) mining project involve the crushing and/or screening of sand and gravel with the exception of wet sand and gravel operations (screening only) and dry sand and gravel operations with a capacity of less than 150 tons/hour of unconsolidated materials? | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 2.3 | Will this non-coal (industrial minerals) mining project involve the construction, operation and/or modification of a portable non-metallic (i.e., non-coal) minerals processing plant under the authority of the General Permit for Portable Non-metallic Mineral Processing Plants (i.e., BAQ-PGPA/GP-3)? | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 2.4 | For this non-coal (industrial minerals) mining project, will sewage treatment facilities be constructed and treated waste water discharged to surface waters? | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 2.5 | Will this non-coal (industrial minerals) mining project involve the construction of a permanent impoundment meeting one or more of the following criteria: (1) a contributory drainage area exceeding 100 acres; (2) a depth of water measured by the upstream toe of the dam at maximum storage elevation exceeding 15 feet; (3) an impounding capacity at maximum storage elevation exceeding 50 acre-feet? | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |

| | | | | | |
|--------|---|-------------------------------------|-----|-------------------------------------|----|
| 3.0 | Will your project, activity, or authorization have anything to do with a well related to oil or gas production, have construction within 200 feet of, affect an oil or gas well, involve the waste from such a well, or string power lines above an oil or gas well? If "Yes", respond to 3.1-3.3. If "No", skip to Question 4.0. | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No |
| 3.1 | Does the oil- or gas-related project involve any of the following: placement of fill, excavation within or placement of a structure, located in, along, across or projecting into a watercourse, floodway or body of water (including wetlands)? | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 3.2 | Will the oil- or gas-related project involve discharge of industrial wastewater or stormwater to a dry swale, surface water, ground water or an existing sanitary sewer system or storm water system? If "Yes", discuss in <i>Project Description</i> . | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 3.3 | Will the oil- or gas-related project involve the construction and operation of industrial waste treatment facilities? | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 4.0 | Will the project involve a construction activity that results in earth disturbance? If "Yes", specify the total disturbed acreage. 4.0.1 Total Disturbed Acreage 6.3 acres | <input checked="" type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 5.0 | Does the project involve any of the following? If "Yes", respond to 5.1-5.3. If "No", skip to Question 6.0. | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No |
| 5.1 | Water Obstruction and Encroachment Projects – Does the project involve any of the following: placement of fill, excavation within or placement of a structure, located in, along, across or projecting into a watercourse, floodway or body of water? | <input checked="" type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 5.2 | Wetland Impacts – Does the project involve any of the following: placement of fill, excavation within or placement of a structure, located in, along, across or projecting into a wetland? | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No |
| 5.3 | Floodplain Projects by the commonwealth, a Political Subdivision of the commonwealth or a Public Utility – Does the project involve any of the following: placement of fill, excavation within or placement of a structure, located in, along, across or projecting into a floodplain? | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No |
| 6.0 | Will the project involve discharge of stormwater or wastewater from an industrial activity to a dry swale, surface water, ground water or an existing sanitary sewer system or separate storm water system? | <input checked="" type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 7.0 | Will the project involve the construction and operation of industrial waste treatment facilities? | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No |
| 8.0 | Will the project involve construction of sewage treatment facilities, sanitary sewers, or sewage pumping stations? If "Yes", indicate estimated proposed flow (gal/day). Also, discuss the sanitary sewer pipe sizes and the number of pumping stations/treatment facilities/name of downstream sewage facilities in the <i>Project Description</i> , where applicable. 8.0.1 Estimated Proposed Flow (gal/day) 1,120 conveyed to PAMA | <input checked="" type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 9.0 | Will the project involve the subdivision of land, or the generation of 800 gpd or more of sewage on an existing parcel of land or the generation of an additional 400 gpd of sewage on an already-developed parcel, or the generation of 800 gpd or more of industrial wastewater that would be discharged to an existing sanitary sewer system? | <input checked="" type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 9.0.1 | Was Act 537 sewage facilities planning submitted and approved by DEP? If "Yes" attach the approval letter. Approval required prior to 105/NPDES approval. | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No |
| 10.0 | Is this project for the beneficial use of biosolids for land application within Pennsylvania? If "Yes" indicate how much (i.e. gallons or dry tons per year). | <input checked="" type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 10.0.1 | Gallons Per Year (residential septage) | Covered under separate approval | | | |
| 10.0.2 | Dry Tons Per Year (biosolids) | Covered under separate approval | | | |

| | | | | | |
|--------|--|--|-----|-------------------------------------|----|
| 11.0 | Does the project involve construction, modification or removal of a dam? If "Yes", identify the dam. | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No |
| 11.0.1 | Dam Name | | | | |
| 12.0 | Will the project interfere with the flow from, or otherwise impact, a dam? If "Yes", identify the dam. | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No |
| 12.0.1 | Dam Name | | | | |
| 13.0 | Will the project involve operations (excluding during the construction period) that produce air emissions (i.e., NOX, VOC, etc.)? If "Yes", identify each type of emission followed by the amount of that emission. | <input checked="" type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 13.0.1 | Enter all types & amounts of emissions; separate each set with semicolons. | See attached emission calculations. | | | |
| 14.0 | Does the project include the construction or modification of a drinking water supply to serve 15 or more connections or 25 or more people, at least 60 days out of the year? If "Yes", check all proposed sub-facilities. | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No |
| 14.0.1 | Number of Persons Served | | | | |
| 14.0.2 | Number of Employee/Guests | | | | |
| 14.0.3 | Number of Connections | | | | |
| 14.0.4 | Sub-Fac: Distribution System | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 14.0.5 | Sub-Fac: Water Treatment Plant | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 14.0.6 | Sub-Fac: Source | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 14.0.7 | Sub-Fac: Pump Station | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 14.0.8 | Sub Fac: Transmission Main | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 14.0.9 | Sub-Fac: Storage Facility | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 15.0 | Will your project include infiltration of storm water or waste water to ground water within one-half mile of a public water supply well, spring or infiltration gallery? | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No |
| 16.0 | Is your project to be served by an existing public water supply? If "Yes", indicate name of supplier and attach letter from supplier stating that it will serve the project. | <input checked="" type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 16.0.1 | Supplier's Name | Pennsylvania American Water | | | |
| 16.0.2 | Letter of Approval from Supplier is Attached | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No |
| 17.0 | Will this project involve a new or increased drinking water withdrawal from a stream or other water body? If "Yes", should reference both Water Supply and Watershed Management. | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No |
| 17.0.1 | Stream Name | | | | |
| 18.0 | Will the construction or operation of this project involve treatment, storage, reuse, or disposal of waste? If "Yes", indicate what type (i.e., hazardous, municipal (including infectious & chemotherapeutic), residual) and the amount to be treated, stored, re-used or disposed. | <input checked="" type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 18.0.1 | Type & Amount | Class A Biosolid: 84 dry ton/day (30,660 dry ton/year) (400 wet ton/day) | | | |
| 19.0 | Will your project involve the removal of coal, minerals, etc. as part of any earth disturbance activities? | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No |
| 20.0 | Does your project involve installation of a field constructed underground storage tank? If "Yes", list each Substance & its Capacity. Note: Applicant may need a Storage Tank Site Specific Installation Permit. | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No |
| 20.0.1 | Enter all substances & capacity of each; separate each set with aemicolons. | | | | |
| 21.0 | Does your project involve installation of an aboveground storage tank greater than 21,000 gallons capacity at an existing facility? If "Yes", list each Substance & its Capacity. Note: Applicant may need a Storage Tank Site Specific Installation Permit. | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No |
| 21.0.1 | Enter all substances & capacity of each; separate each set with semicolons. | Facility is proposed. See Question No. 23. | | | |

22.0 Does your project involve installation of a tank greater than 1,100 gallons which will contain a highly hazardous substance as defined in DEP's Regulated Substances List, 2570-BK-DEP2724? If "Yes", list each Substance & its Capacity. **Note:** Applicant may need a Storage Tank Site Specific Installation Permit. Yes No

22.0.1 Enter all substances & capacity of each; separate each set with semicolons.

23.0 Does your project involve installation of a storage tank at a new facility with a total AST capacity greater than 21,000 gallons? If "Yes", list each Substance & its Capacity. **Note:** Applicant may need a Storage Tank Site Specific Installation Permit. Yes No

23.0.1 Enter all substances & capacity of each; separate each set with semicolons. 300,000 gal Process Wastewater Tank
5,000 gal Sulfuric Acid (H2SO4)) (Acid) Tank
3,000 gal Sodium Hydroxide (NaOH)) (Caustic) Tank
5,000 gal Sodium Hypochlorite (NaOCl)) (Bleach) Tank

24.0 Will the intended activity involve the use of a radiation source? Yes No

CERTIFICATION

I certify that I have the authority to submit this application on behalf of the applicant named herein and that the information provided in this application is true and correct to the best of my knowledge and information.

Type or Print Name John Goodwin

Vice President - Engineering

Signature

Title

Date

March 12, 2018

Board of Supervisors
Plainfield Township
6292 Sullivan Trail
Nazareth, PA 18064

**RE: Slate Belt Heat Recovery Center, LLC
Notification of Individual NPDES Permit Application
Stormwater Runoff from Industrial Activities
Plainfield Township, Northampton County
EarthRes Project No. 151014.003**

Dear Supervisors:

The purpose of this notification is to inform you of our intent to submit a permit application to the Pennsylvania Department of Environmental Protection (PA DEP) for the following project:

Project Name: NPDES Permit Application
Stormwater Associated with Industrial Activity
Slate Belt Heat Recovery Center

Applicant Contact: John Goodwin
Vice President - Engineering
Slate Belt Heat Recovery Center, LLC
435 Williams Court, Suite 100
Baltimore, MD 21220

Project Location: 2100 Block of Pen Argyl Road
Plainfield Township, Northampton County

Project Description: Slate Belt Heat Recovery Center, LLC intends to submit an application to PA DEP for discharge of stormwater associated with industrial activity at a proposed biosolids processing facility located in Plainfield Township, Northampton County, PA.

Section 1905-A of the Commonwealth Administrative Code, as amended by Act 14, requires that each applicant for a PA DEP permit must give written notice to the municipality and the county in which the permitted activity is located. The written notices shall be received by the municipality and county at least 30 days before the Department may issue or deny the permit.

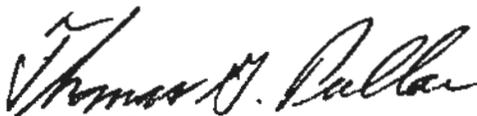
Acts 67, 68 and 127 of 2000 amended the Municipalities Planning Code (MPC) and directs state agencies to consider comprehensive plans and zoning ordinances when reviewing applications for permitting of facilities or infrastructure, and specifies that state agencies may rely upon comprehensive plans and zoning ordinances under certain conditions as described in Sections 619.2 and 1105 of the MPC.

Enclosed is a draft General Information Form (GIF) we have completed for this project. PA DEP invites you to review the attached GIF and comment on the project; please be specific when identifying any areas of conflict. If you wish to submit comments for PA DEP to consider in review of this project, you must respond within 30 days to the PA DEP Regional Office listed below. If there are no comments received by the end of the comment period, DEP will proceed with the normal application review process.

Please submit any comments concerning this project within 30 days from date of receipt of this letter to the Permits Chief, Clean Water Program, PA DEP, Northeast Regional Office, 2 Public Square, Wilkes-Barre, PA 18701-1915; telephone (570) 826-2511.

For more information about this land use review process, please visit www.dep.state.pa.us (DEP Keyword: Land Use Reviews).

Sincerely,
EarthRes Group, Inc.



Thomas G. Pullar, P.E.
Senior Project Manager

Enclosure: Draft GIF

OVERNIGHT MAIL

cc: John Goodwin, SBHRC (w/ enclosure)
Glenn Kempa, GCSL (w/ enclosure)
Carlton Snyder, GKEDC (w/ enclosure)


GENERAL INFORMATION FORM – AUTHORIZATION APPLICATION

Before completing this General Information Form (GIF), read the step-by-step instructions provided in this application package. This version of the General Information Form (GIF) must be completed and returned with any program-specific application being submitted to the Department.

| Related ID#s (If Known) | | DEP USE ONLY |
|-------------------------|-----|-------------------------------|
| Client ID# | TBD | Data Received & General Notes |
| Site ID# | TBD | |
| Facility ID# | TBD | |
| APS ID# | | |
| Auth ID# | | |

CLIENT INFORMATION

| | | | | |
|---|--------------------|------------------------|----------------------|---------|
| DEP Client ID# | Client Type / Code | | | |
| TBD | LLC | | | |
| Organization Name or Registered Fictitious Name | | Employer ID# (EIN) | Dun & Bradstreet ID# | |
| Slate Belt Heat Recovery Center, LLC | | XX-XXXXXX | | |
| Individual Last Name | First Name | MI | Suffix | SSN |
| | | | | |
| Additional Individual Last Name | First Name | MI | Suffix | SSN |
| | | | | |
| Mailing Address Line 1 | | Mailing Address Line 2 | | |
| 435 Williams Court | | Suite 100 | | |
| Address Last Line – City | | State | ZIP+4 | Country |
| Baltimore | | MD | 21220-2888 | USA |
| Client Contact Last Name | First Name | MI | Suffix | |
| Goodwin | John | | | |
| Client Contact Title | | Phone | Ext | |
| Vice President - Engineering | | 443-489-9069 | | |
| Email Address | | FAX | | |
| jgoodwin@SYNAGRO.com | | N/A | | |

SITE INFORMATION

| | | | | |
|---|---|--------------------------|--------------------------|-------------------------------------|
| DEP Site ID# | Site Name | | | |
| TBD | Slate Belt Heat Recovery Center, LLC | | | |
| EPA ID# | Estimated Number of Employees to be Present at Site | | | 16 |
| Description of Site | | | | |
| Biosolids Processing Facility | | | | |
| County Name | Municipality | City | Boro | Twp |
| Northampton | Plainfield | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| County Name | Municipality | City | Boro | Twp |
| | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Site Location Line 1 | | Site Location Line 2 | | |
| 2100 block of Pen Argyl Road | | | | |
| Site Location Last Line – City | | State | ZIP+4 | |
| Pen Argyl | | PA | 18072 | |
| Detailed Written Directions to Site | | | | |
| Take Route 33 to the Route 512 Wind Gap/Pen Argyl exit. Off the exit, turn onto Route 512 North (a right turn from Route 33 Northbound). Follow Route 512 through Wind Gap, turning right at the Turkey Hill in Wind Gap (3rd traffic light) to stay on Route 512. After 1.4 miles, turn right into Grand Central Sanitary Landfill. The entrance to the Slate Belt Heat Recovery Center will be on the right adjacent to the Green Knight Energy Center at 2147 Pen Argyl Road, Pen Argyl, PA. | | | | |
| Site Contact Last Name | First Name | MI | Suffix | |
| John | Goodwin | | | |
| Site Contact Title | Site Contact Firm | | | |
| Vice President - Engineering | Slate Belt Heat Recovery Center, LLC | | | |

| | | | | |
|--|------------|-------------------|--|----------------------------|
| Mailing Address Line 1 435 Williams Court | | | Mailing Address Line 2 Suite 100 | |
| Mailing Address Last Line - City Baltimore | | | State MD | ZIP+4 21220-2888 |
| Phone 443-489-9069 | Ext | FAX N/A | Email Address jgoodwin@SYNAGRO.com | |
| NAICS Codes (Two- & Three-Digit Codes - List All That Apply) 562 | | | 6-Digit Code (Optional) 562219 | |
| Client to Site Relationship OWNOP Owner/Operator | | | | |

FACILITY INFORMATION

| | | |
|---|-------------------------------------|--------------------------|
| Modification of Existing Facility | Yes | No |
| 1. Will this project modify an existing facility, system, or activity? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Will this project involve an addition to an existing facility, system, or activity? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <i>If "Yes", check all relevant facility types and provide DEP facility identification numbers below.</i> | | |

| Facility Type | DEP Fac ID# | Facility Type | DEP Fac ID# |
|---|------------------|--|--------------|
| <input checked="" type="checkbox"/> Air Emission Plant | GKEDC #574507 | <input type="checkbox"/> Industrial Minerals Mining Operation | |
| <input type="checkbox"/> Beneficial Use (water) | | <input type="checkbox"/> Laboratory Location | |
| <input type="checkbox"/> Blasting Operation | | <input type="checkbox"/> Land Recycling Cleanup Location | |
| <input type="checkbox"/> Captive Hazardous Waste Operation | | <input type="checkbox"/> MineDrainageTrmt/LandRecyProjLocation | |
| <input type="checkbox"/> Coal Ash Beneficial Use Operation | | <input checked="" type="checkbox"/> Municipal Waste Operation | GCSL #100265 |
| <input type="checkbox"/> Coal Mining Operation | | <input type="checkbox"/> Oil & Gas Encroachment Location | |
| <input type="checkbox"/> Coal Pillar Location | | <input type="checkbox"/> Oil & Gas Location | |
| <input type="checkbox"/> Commercial Hazardous Waste Operation | | <input type="checkbox"/> Oil & Gas Water Poll Control Facility | |
| <input type="checkbox"/> Dam Location | | <input type="checkbox"/> Public Water Supply System | |
| <input type="checkbox"/> Deep Mine Safety Operation -Anthracite | | <input type="checkbox"/> Radiation Facility | |
| <input type="checkbox"/> Deep Mine Safety Operation -Bituminous | | <input type="checkbox"/> Residual Waste Operation | |
| <input type="checkbox"/> Deep Mine Safety Operation -Ind Minerals | | <input type="checkbox"/> Storage Tank Location | |
| <input type="checkbox"/> Encroachment Location (water, wetland) | | <input type="checkbox"/> Water Pollution Control Facility | |
| <input type="checkbox"/> Erosion & Sediment Control Facility | | <input type="checkbox"/> Water Resource | |
| <input type="checkbox"/> Explosive Storage Location | | <input type="checkbox"/> Other: | |

| | | | | | | |
|--|---|----------------|----------------|------------------|----------------|----------------|
| Latitude/Longitude Point of Origin | Latitude | | | Longitude | | |
| | Degrees | Minutes | Seconds | Degrees | Minutes | Seconds |
| Center of Area | 40° | 51' | 34" | -75° | 15' | 41" |
| Horizontal Accuracy Measure | Feet | | | --or-- Meters | | |
| Horizontal Reference Datum Code | <input type="checkbox"/> North American Datum of 1927 <input checked="" type="checkbox"/> North American Datum of 1983 <input type="checkbox"/> World Geodetic System of 1984 | | | | | |
| Horizontal Collection Method Code | EMAP | | | | | |
| Reference Point Code | CNTAR | | | | | |
| Altitude | Feet 700 | | | --or-- Meters | | |
| Altitude Datum Name | <input type="checkbox"/> The National Geodetic Vertical Datum of 1929 <input checked="" type="checkbox"/> The North American Vertical Datum of 1988 (NAVD88) | | | | | |
| Altitude (Vertical) Location Datum Collection Method Code | TOPO | | | | | |
| Geometric Type Code | POINT | | | | | |
| Data Collection Date | January 2018 | | | | | |
| Source Map Scale Number | 1 | Inch(es) | = | 24,000 | Feet | |
| | --or-- | Centimeter(s) | = | | Meters | |

PROJECT INFORMATION

| | | | |
|--|-----------------------------|-----------------|-----------------------|
| Project Name Slate Belt Heat Recovery Center | | | |
| Project Description The proposed project involves the construction of a biosolids dryer facility. Dewatered municipal biosolids, primary/secondary blend, digested and undigested, will be transported to the proposed facility where they will be thermally dried to produce Class A biosolids that will be marketed as a fertilizer, soil conditioner, and renewable fuel product. | | | |
| Project Consultant Last Name Pullar | First Name Thomas | MI G. | Suffix P.E. |

| | | |
|---|---|--|
| Project Consultant Title Senior Project Manager | Consulting Firm EarthRes Group, Inc. | |
| Mailing Address Line 1 P.O. Box 468 | Mailing Address Line 2 6912 Old Easton Road | |
| Address Last Line - City Pipersville | State PA | ZIP+4 18947 |
| Phone (215) 766-1211 | Ext | FAX (215) 766-1234 |
| | | Email Address tpullar@earthres.com |

| Time Schedules | Project Milestone (Optional) |
|---------------------|--|
| Nov 2017 | Pre-Application Meetings Prep |
| Jan 2018 - Sep 2018 | PA DEP Solid Waste Permit Applications |
| Jan 2018 - Dec 2018 | PA DEP Water Quality Permit (Stormwater) |
| Jan 2018 - Oct 2018 | PA DEP Air Quality Permit |
| Jan 2018 - Oct 2018 | Preliminary Land Development & Subdivision |
| Oct 2018 - Feb 2019 | Final Land Development (Approved from Plainfield Township) |
| Feb 2019 - Mar 2019 | Zoning Permit Approval (Approved from Plainfield Township) |
| Feb 2019 - Mar 2019 | Local Building Permits (Approved from Plainfield Township) |
| Mar 2019 - Nov 2020 | Estimated Facility Construction |
| May 2019 - Oct 2020 | PA Labor and Industry Intent to Install Boiler Permit and Inspection |
| Sep 2020 - May 2020 | AST Registration and Approval |

1. **Have you informed the surrounding community and addressed any concerns prior to submitting the application to the Department?** Yes No
2. **Is your project funded by state or federal grants?** Yes No
Note: If "Yes", specify what aspect of the project is related to the grant and provide the grant source, contact person and grant expiration date.
 Aspect of Project Related to Grant: _____
 Grant Source: _____
 Grant Contact Person: _____
 Grant Expiration Date: _____
3. **Is this application for an authorization on Appendix A of the Land Use Policy? (For referenced list, see Appendix A of the Land Use Policy attached to GIF instructions)** Yes No
Note: If "No" to Question 3, the application is not subject to the Land Use Policy.
 If "Yes" to Question 3, the application is subject to this policy and the Applicant should answer the additional questions in the Land Use Information section.

LAND USE INFORMATION

Note: Applicants are encouraged to submit copies of local land use approvals or other evidence of compliance with local comprehensive plans and zoning ordinances.

1. **Is there an adopted county or multi-county comprehensive plan?** Yes No
2. **Is there an adopted municipal or multi-municipal comprehensive plan?** Yes No
3. **Is there an adopted county-wide zoning ordinance, municipal zoning ordinance or joint municipal zoning ordinance?** Yes No
Note: If the Applicant answers "No" to either Questions 1, 2 or 3, the provisions of the PA MPC are not applicable and the Applicant does not need to respond to questions 4 and 5 below.
 If the Applicant answers "Yes" to questions 1, 2 and 3, the Applicant should respond to questions 4 and 5 below.
4. **Does the proposed project meet the provisions of the zoning ordinance or does the proposed project have zoning approval?** Yes No
 If zoning approval has been received, attach documentation.
5. **Have you attached Municipal and County Land Use Letters for the project?** Yes No

COORDINATION INFORMATION

Note: The PA Historical and Museum Commission must be notified of proposed projects in accordance with DEP Technical Guidance Document 012-0700-001 and the accompanying Cultural Resource Notice Form.

If the activity will be a mining project (i.e., mining of coal or industrial minerals, coal refuse disposal and/or the operation of a coal or industrial minerals preparation/processing facility), respond to questions 1.0 through 2.5 below.

If the activity will not be a mining project, skip questions 1.0 through 2.5 and begin with question 3.0.

| | | | | | |
|-----|---|--------------------------|-----|--------------------------|----|
| 1.0 | Is this a coal mining project? If "Yes", respond to 1.1-1.6. If "No", skip to Question 2.0. | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 1.1 | Will this coal mining project involve coal preparation/ processing activities in which the total amount of coal prepared/processed will be equal to or greater than 200 tons/day? | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 1.2 | Will this coal mining project involve coal preparation/ processing activities in which the total amount of coal prepared/processed will be greater than 50,000 tons/year? | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 1.3 | Will this coal mining project involve coal preparation/ processing activities in which thermal coal dryers or pneumatic coal cleaners will be used? | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 1.4 | For this coal mining project, will sewage treatment facilities be constructed and treated waste water discharged to surface waters? | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 1.5 | Will this coal mining project involve the construction of a permanent impoundment meeting one or more of the following criteria: (1) a contributory drainage area exceeding 100 acres; (2) a depth of water measured by the upstream toe of the dam at maximum storage elevation exceeding 15 feet; (3) an impounding capacity at maximum storage elevation exceeding 50 acre-feet? | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 1.6 | Will this coal mining project involve underground coal mining to be conducted within 500 feet of an oil or gas well? | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 2.0 | Is this a non-coal (industrial minerals) mining project? If "Yes", respond to 2.1-2.6. If "No", skip to Question 3.0. | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 2.1 | Will this non-coal (industrial minerals) mining project involve the crushing and screening of non-coal minerals other than sand and gravel? | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 2.2 | Will this non-coal (industrial minerals) mining project involve the crushing and/or screening of sand and gravel with the exception of wet sand and gravel operations (screening only) and dry sand and gravel operations with a capacity of less than 150 tons/hour of unconsolidated materials? | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 2.3 | Will this non-coal (industrial minerals) mining project involve the construction, operation and/or modification of a portable non-metallic (i.e., non-coal) minerals processing plant under the authority of the General Permit for Portable Non-metallic Mineral Processing Plants (i.e., BAQ-PGPA/GP-3)? | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 2.4 | For this non-coal (industrial minerals) mining project, will sewage treatment facilities be constructed and treated waste water discharged to surface waters? | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 2.5 | Will this non-coal (industrial minerals) mining project involve the construction of a permanent impoundment meeting one or more of the following criteria: (1) a contributory drainage area exceeding 100 acres; (2) a depth of water measured by the upstream toe of the dam at maximum storage elevation exceeding 15 feet; (3) an impounding capacity at maximum storage elevation exceeding 50 acre-feet? | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |

| | | | | | |
|--------|---|-------------------------------------|-----|-------------------------------------|----|
| 3.0 | Will your project, activity, or authorization have anything to do with a well related to oil or gas production, have construction within 200 feet of, affect an oil or gas well, involve the waste from such a well, or string power lines above an oil or gas well? If "Yes", respond to 3.1-3.3. If "No", skip to Question 4.0. | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No |
| 3.1 | Does the oil- or gas-related project involve any of the following: placement of fill, excavation within or placement of a structure, located in, along, across or projecting into a watercourse, floodway or body of water (including wetlands)? | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 3.2 | Will the oil- or gas-related project involve discharge of industrial wastewater or stormwater to a dry swale, surface water, ground water or an existing sanitary sewer system or storm water system? If "Yes", discuss in <i>Project Description</i> . | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 3.3 | Will the oil- or gas-related project involve the construction and operation of industrial waste treatment facilities? | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 4.0 | Will the project involve a construction activity that results in earth disturbance? If "Yes", specify the total disturbed acreage. 4.0.1 Total Disturbed Acreage 6.3 acres | <input checked="" type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 5.0 | Does the project involve any of the following? If "Yes", respond to 5.1-5.3. If "No", skip to Question 6.0. | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No |
| 5.1 | Water Obstruction and Encroachment Projects – Does the project involve any of the following: placement of fill, excavation within or placement of a structure, located in, along, across or projecting into a watercourse, floodway or body of water? | <input checked="" type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 5.2 | Wetland Impacts – Does the project involve any of the following: placement of fill, excavation within or placement of a structure, located in, along, across or projecting into a wetland? | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No |
| 5.3 | Floodplain Projects by the commonwealth, a Political Subdivision of the commonwealth or a Public Utility – Does the project involve any of the following: placement of fill, excavation within or placement of a structure, located in, along, across or projecting into a floodplain? | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No |
| 6.0 | Will the project involve discharge of stormwater or wastewater from an industrial activity to a dry swale, surface water, ground water or an existing sanitary sewer system or separate storm water system? | <input checked="" type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 7.0 | Will the project involve the construction and operation of industrial waste treatment facilities? | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No |
| 8.0 | Will the project involve construction of sewage treatment facilities, sanitary sewers, or sewage pumping stations? If "Yes", indicate estimated proposed flow (gal/day). Also, discuss the sanitary sewer pipe sizes and the number of pumping stations/treatment facilities/name of downstream sewage facilities in the <i>Project Description</i> , where applicable. 8.0.1 Estimated Proposed Flow (gal/day) 1,120 conveyed to PAMA | <input checked="" type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 9.0 | Will the project involve the subdivision of land, or the generation of 800 gpd or more of sewage on an existing parcel of land or the generation of an additional 400 gpd of sewage on an already-developed parcel, or the generation of 800 gpd or more of industrial wastewater that would be discharged to an existing sanitary sewer system? 9.0.1 Was Act 537 sewage facilities planning submitted and approved by DEP? If "Yes" attach the approval letter. Approval required prior to 105/NPDES approval. | <input checked="" type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 9.0.1 | Was Act 537 sewage facilities planning submitted and approved by DEP? If "Yes" attach the approval letter. Approval required prior to 105/NPDES approval. | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No |
| 10.0 | Is this project for the beneficial use of biosolids for land application within Pennsylvania? If "Yes" indicate how much (i.e. gallons or dry tons per year). | <input checked="" type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 10.0.1 | Gallons Per Year (residential septage) | Covered under separate approval | | | |
| 10.0.2 | Dry Tons Per Year (biosolids) | Covered under separate approval | | | |

| | | | | | |
|--------|--|-------------------------------------|-----|-------------------------------------|----|
| 11.0 | Does the project involve construction, modification or removal of a dam? If "Yes", identify the dam. | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No |
| 11.0.1 | Dam Name | | | | |
| 12.0 | Will the project interfere with the flow from, or otherwise impact, a dam? If "Yes", identify the dam. | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No |
| 12.0.1 | Dam Name | | | | |
| 13.0 | Will the project involve operations (excluding during the construction period) that produce air emissions (i.e., NOX, VOC, etc.)? If "Yes", identify each type of emission followed by the amount of that emission. | <input checked="" type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 13.0.1 | Enter all types & amounts of emissions; separate each set with semicolons. See attached emission calculations. | | | | |
| 14.0 | Does the project include the construction or modification of a drinking water supply to serve 15 or more connections or 25 or more people, at least 60 days out of the year? If "Yes", check all proposed sub-facilities. | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No |
| 14.0.1 | Number of Persons Served | | | | |
| 14.0.2 | Number of Employee/Guests | | | | |
| 14.0.3 | Number of Connections | | | | |
| 14.0.4 | Sub-Fac: Distribution System | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 14.0.5 | Sub-Fac: Water Treatment Plant | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 14.0.6 | Sub-Fac: Source | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 14.0.7 | Sub-Fac: Pump Station | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 14.0.8 | Sub Fac: Transmission Main | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 14.0.9 | Sub-Fac: Storage Facility | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 15.0 | Will your project include infiltration of storm water or waste water to ground water within one-half mile of a public water supply well, spring or infiltration gallery? | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No |
| 16.0 | Is your project to be served by an existing public water supply? If "Yes", indicate name of supplier and attach letter from supplier stating that it will serve the project. | <input checked="" type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 16.0.1 | Supplier's Name Pennsylvania American Water | | | | |
| 16.0.2 | Letter of Approval from Supplier is Attached | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No |
| 17.0 | Will this project involve a new or increased drinking water withdrawal from a stream or other water body? If "Yes", should reference both Water Supply and Watershed Management. | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No |
| 17.0.1 | Stream Name | | | | |
| 18.0 | Will the construction or operation of this project involve treatment, storage, reuse, or disposal of waste? If "Yes", indicate what type (i.e., hazardous, municipal (including infectious & chemotherapeutic), residual) and the amount to be treated, stored, re-used or disposed. | <input checked="" type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 18.0.1 | Type & Amount Class A Biosolid: 84 dry ton/day (30,660 dry ton/year) (400 wet ton/day) | | | | |
| 19.0 | Will your project involve the removal of coal, minerals, etc. as part of any earth disturbance activities? | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No |
| 20.0 | Does your project involve installation of a field constructed underground storage tank? If "Yes", list each Substance & its Capacity. Note: Applicant may need a Storage Tank Site Specific Installation Permit. | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No |
| 20.0.1 | Enter all substances & capacity of each; separate each set with semicolons. | | | | |
| 21.0 | Does your project involve installation of an aboveground storage tank greater than 21,000 gallons capacity at an existing facility? If "Yes", list each Substance & its Capacity. Note: Applicant may need a Storage Tank Site Specific Installation Permit. | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No |
| 21.0.1 | Enter all substances & capacity of each; separate each set with semicolons. Facility is proposed. See Question No. 23. | | | | |

COMPLIANCE HISTORY REVIEW

Is the facility owner or operator in violation of any DEP regulation, permit, order or schedule of compliance at this or any other facility?
 Yes No

If Yes, list each permit, order or schedule of compliance and provide compliance status. Use additional sheets as necessary.

| | | | |
|-----------------|--|-------------|--|
| Permit Program: | | Permit No.: | |
| Permit Program: | | Permit No.: | |
| Permit Program: | | Permit No.: | |

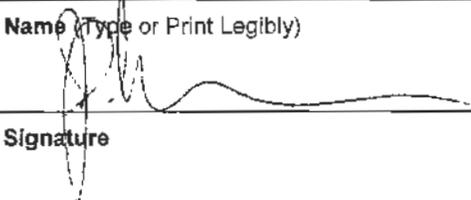
Brief Description of Non-Compliance:

| Steps Taken to Achieve Compliance | Date(s) Compliance Achieved |
|-----------------------------------|-----------------------------|
| | |
| | |
| | |

Current Compliance Status: In Compliance In Non-Compliance

CERTIFICATION AND SIGNATURE OF APPLICANT

I certify under penalty of law that this document and all attachments and modules were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

| | |
|---|-------------------------------------|
| John Goodwin | Vice President - Engineering |
| Name (Type or Print Legibly) | Official Title |
|  | 8/13/2018 |
| Signature | Date |

(Use corporate or professional seal as appropriate.)

DRAFT

Mr. Bharat Patel
Permits Chief
Northeast Regional Office
PA Department of Environmental Protection
2 Public Square
Wilkes-Barre, PA 18701-1906

**RE: NPDES Permit Application – Proof of Newspaper Publication
Slate Belt Heat Recovery Center
Plainfield Township, Northampton County, PA
EarthRes Project No. 151014.003**

Dear Mr. Patel:

Enclosed please find the proof of local newspaper public notice for the NPDES permit application for the discharge of stormwater associated with industrial activity from the proposed Slate Belt Heat Recovery Center facility located in Plainfield Township, Northampton County, PA. The permit application was submitted to the Department under separate cover on March 15, 2018.

The facility will collect a sample of the stormwater discharge for analysis when available. The sample results will be provided under separate cover when available.

Please call with any questions or if you require additional information.

Sincerely,
EarthRes Group, Inc.

Thomas, G. Pullar, P.E.
Senior Project Manager

Enclosure: As Stated

cc: John Goodwin, SBHRC
Glenn Kempa, GCSL
Tom Petrucci, Plainfield Township
Carlton Snyder, GKEDC

PUBLIC NOTICE

Notice is hereby given that Slate Belt Heat Recovery Center, LLC intends to make application to the Pennsylvania Department of Environmental Protection (PADEP) for a National Pollutant Discharge Elimination System (NPDES) Permit for the discharge of stormwater associated with industrial activity in a manner which meets PADEP requirements, from its proposed facility located in the 2100 Block of Pen Argyl Road, Plainfield Township, Northampton County, PA. Intermittent runoff discharges to an existing, permitted, engineered, non-discharging stormwater retention pond identified as Sediment Basin #2 located within the property boundary.

This application is made under the provision of the Clean Streams Law, the Act of June 22, 1937, P.L. 1987, as amended. Persons desiring additional information, or who wish to provide comment concerning this permit application should contact the Company as indicated above, or PADEP at the following address: Environmental Program Manager, Clean Water Program, PADEP, Northeast Regional Office, 2 Public Square, Wilkes-Barre, PA 18701-1915; telephone (570) 826-2511, after May 16, 2014.

SECTION 5.0
**APPLICATION FOR INDIVIDUAL PERMIT TO
DISCHARGE INDUSTRIAL STORMWATER**



**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
APPLICATION FOR INDIVIDUAL PERMIT TO DISCHARGE
INDUSTRIAL STORMWATER**

Before completing this form, please read the instructions (3800-PM-BCW0403a). **FAILURE TO FOLLOW THE INSTRUCTIONS MAY RESULT IN DENIAL OF THE APPLICATION.**

| | | | |
|-------------------------|--------------------|----------------|------|
| Related ID#s (If Known) | | DEP USE ONLY | |
| Client ID# _____ | APS ID# _____ | Date Received: | |
| Site ID# _____ | Facility ID# _____ | Permit No.: | |
| | | Auth ID: | PDG? |

GENERAL INFORMATION

| | |
|---|---|
| Applicant/Operator Name | Slate Belt Heat Recovery Center, LLC |
| <input checked="" type="checkbox"/> New Permit (Anticipated Discharge Date: <u>March 2019</u>) <input type="checkbox"/> Permit Renewal: NPDES No. PA _____ Permit Expiration Date: _____ Permit Renewal Application Due Date: _____ WQM Permit No(s): _____ WQM Permit Issuance Date(s): _____ Currently Using eDMR System? <input type="checkbox"/> Yes <input type="checkbox"/> No Start Date: _____ | |

Describe the nature of the industrial activity that may come into contact with stormwater: **The project involves using waste heat covered from the GKEDC to dry dewatered biosolids and produce a Class A biosolids product that will be used as a fertilizer blending agent, soil conditioner, and/or a renewable fuel product. The site will be constructed so that any stormwater in contact with biosolids, or related products, will be collected and transported to approved offsite facilities as process wastewater. Stormwater runoff from the remainder of the site will be discharged to Sediment Basin #2, an existing, permitted, engineered, non-discharging stormwater control pond serving the GCSL facility.**

Applicable ELG: 40 CFR: _____ Subpart: _____

| SIC Code | Primary? | Description | NAICS Code | Primary? | Description |
|----------|----------|-----------------------|------------|----------|---------------------------|
| 4953 | | Sanitary Services NEC | 562219 | 562 | Waste Management Services |
| | | | | | |
| | | | | | |

OTHER ENVIRONMENTAL PERMITS

| Type of Permit | Agency That Issued Permit | Date Issued |
|-------------------------|---------------------------|----------------|
| Air Quality | PA DEP | Pending |
| Waste Management | PA DEP | Pending |
| | | |
| | | |
| | | |

FACILITY AND DISCHARGE INFORMATION

Attach a site plan and topographic or aerial map with the facility and discharge or internal monitoring locations clearly identified (see instructions).

2. Total area of site (sf): **524,898** % Pervious: **85.6** % Impervious: **14.4**

3. Report the latitude and longitude of the facility below (see instructions).

| Latitude | | | Longitude | | |
|-----------|-----------|-----------|------------|-----------|-----------|
| Degrees | Minutes | Seconds | Degrees | Minutes | Seconds |
| 40 | 51 | 34 | -75 | 15 | 41 |

Horizontal Reference Datum: NAD of 1927 NAD of 1983 WGS of 1984 Unknown

4. The applicant may optionally attach its PPC Plan or related plan to the application. This information may be useful to DEP in completing its review of the application. If the PPC Plan is not attached to the application, DEP may request submission of the Plan during the review. Electronic transmission of large PPC Plans is encouraged.

Note for existing facilities: if there have been leaks or spills on-site within the past five years, report in the PPC Plan the cause of leaks or spills, the substance(s) released, measures taken to remediate the incident(s) and preventative measure(s) taken to reduce the possibility of future incidents.

| Type or Description of Plan (e.g., PPC, SPCC, etc.) | Attached? | Date of Latest Plan Update |
|---|-------------------------------------|----------------------------|
| Contingency Plan (PPC with SPCC) | <input checked="" type="checkbox"/> | New |
| | <input type="checkbox"/> | |
| | <input type="checkbox"/> | |

Identify and describe all non-stormwater discharges that are expected to occur during the 5 years following permit issuance. Describe the frequency and volume of all such anticipated discharges.

Process wastewater will be conveyed to onsite storage and hauled to offsite disposal. Sanitary wastewater will be conveyed to PAMA. Stormwater in contact with industrial activities will be collected with process wastewater and hauled to offsite disposal.

No non-stormwater discharges are anticipated during the 5 years following coverage or approval

6. Describe how often stormwater outfalls are inspected and routine maintenance performed.

Stormwater outfall will be inspected periodically and checked annually during dry weather to verify that there are no non-stormwater discharges. Samples will be collected per NPDES permit and results will be submitted to PA DEP with inspection reports.

Routine and preventative maintenance activities are described in the attached Contingency Plan.

The Slate Belt Heat Recovery Center (SBHRC) will use engineering controls and best management practices to prevent the discharge of runoff impacted from onsite activities.

7. List all stormwater discharge points (outfalls) and internal monitoring points (IMPs). If numbers were previously assigned in a permit, use those numbers. Order sequentially and use additional pages as necessary.

| Outfall / IMP No. | LATITUDE | | | LONGITUDE | | | RECEIVING WATERS | | | |
|----------------------|----------|-----|-----|-----------|-----|-----|--|------------------|--------------------------|--------------------------|
| | Deg | Min | Sec | Deg | Min | Sec | Name of Receiving Waters | Ch. 93 Class. | Impaired? | TMDL? |
| 001 | 40 | 51 | 33 | -75 | 15 | 43 | Sediment Basin #2 | * | <input type="checkbox"/> | <input type="checkbox"/> |
| | | | | | | | *Existing, permitted, nondischarging, engineered stormwater control pond. | | <input type="checkbox"/> | <input type="checkbox"/> |
| | | | | | | | Sediment Basin #2 does not connect with the Little Bushkill Creek (HQ-CWF) | | <input type="checkbox"/> | <input type="checkbox"/> |
| | | | | | | | 001 Outfall coordinates obtained via Google Earth Pro (ver. 7.1.7.2602) | | <input type="checkbox"/> | <input type="checkbox"/> |
| | | | | | | | | | <input type="checkbox"/> | <input type="checkbox"/> |
| | | | | | | | | | <input type="checkbox"/> | <input type="checkbox"/> |
| | | | | | | | | | <input type="checkbox"/> | <input type="checkbox"/> |
| | | | | | | | | | <input type="checkbox"/> | <input type="checkbox"/> |
| | | | | | | | | | <input type="checkbox"/> | <input type="checkbox"/> |
| | | | | | | | | | <input type="checkbox"/> | <input type="checkbox"/> |
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| | | | | | | | | | <input type="checkbox"/> | <input type="checkbox"/> |
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| | | | | | | | | | <input type="checkbox"/> | <input type="checkbox"/> |
| | | | | | | | | | <input type="checkbox"/> | <input type="checkbox"/> |
| | | | | | | | | | <input type="checkbox"/> | <input type="checkbox"/> |
| | | | | | | | | | <input type="checkbox"/> | <input type="checkbox"/> |

8. Do any of the outfalls identified above discharge to a storm sewer system? Yes No Is the storm sewer an MS4? Yes No
 Name of storm sewer owner/operator: _____ Outfalls discharging to storm sewer: _____

ANTI-DEGRADATION

the applicant is proposing a new or increased discharge to High Quality (HQ) or Exceptional Value (EV) waters, Module 1 (Anti Degradation Module) must be attached to the application. In addition, for HQ waters only, if the analysis concludes that the new or increased discharge will produce a measurable change in water quality, a social or economic justification (SEJ) must be attached if the applicant desires approval for the discharge.

1. Is the Anti-Degradation Module (Module 1) attached to the application? Yes No
2. Is a social or economic justification (SEJ) (HQ waters only) attached to the application? Yes No

COOLING WATER INTAKE STRUCTURES

1. Does the facility use cooling water? Yes No
2. Does the facility operate a cooling water intake structure? Yes No (if No, skip question 3).
3. Does the facility meet the regulatory definition of a new or existing facility (see instructions)? Yes No
If yes, the permittee must submit the Individual NPDES Permit Application for Industrial Waste Facilities (3800-PM-BCW0008) in lieu of this application.

STORMWATER TREATMENT CHEMICALS

Identify all chemicals that will be used for wastewater treatment over the next five years

| Chemical Name | Purpose | Max Usage Rate | Units | Acrylamide? |
|---------------|---------|----------------|-------|--------------------------|
| N/A | | | | <input type="checkbox"/> |
| | | | | <input type="checkbox"/> |

LABORATORY INFORMATION

Did an off-site laboratory perform any of the analyses required by this application? Yes No
If Yes, provide the information below.

| | | |
|---------|------------|---------------------|
| Name | TBD | Analyses Performed: |
| Address | | |
| Phone | () | |
| Name | | Analyses Performed: |
| Address | | |
| Phone | () | |

COMPLIANCE HISTORY REVIEW

Is the facility owner or operator in violation of any DEP regulation, permit, order or schedule of compliance at this or any other facility?
 Yes No

If Yes, list each permit, order or schedule of compliance and provide compliance status. Use additional sheets as necessary.

| | | | |
|-----------------|--|-------------|--|
| Permit Program: | | Permit No.: | |
| Permit Program: | | Permit No.: | |
| Permit Program: | | Permit No.: | |

Brief Description of Non-Compliance:

| Steps Taken to Achieve Compliance | Date(s) Compliance Achieved |
|-----------------------------------|-----------------------------|
| | |
| | |
| | |

Current Compliance Status: In Compliance In Non-Compliance

CERTIFICATION AND SIGNATURE OF APPLICANT

I certify under penalty of law that this document and all attachments and modules were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

John Goodwin

Vice President - Engineering

Name (Type or Print Legibly)

Official Title

Signature

Date

8/13/2018

(Use corporate or professional seal as appropriate.)

DOCUMENT REVISION HISTORY

| Date | Revision Reason |
|------|-----------------|
| | |

SECTION 6.0
MODULE 1 – ANTI-DEGRADATION



**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
APPLICATION FOR INDIVIDUAL PERMIT TO DISCHARGE
INDUSTRIAL WASTEWATER**

MODULE 1 – ANTI-DEGRADATION

| | |
|---|---|
| 1. Applicant/Operator Name: | Slate Belt Heat Recovery Center, LLC |
| General Information | |
| 1. Type of discharge: <input checked="" type="checkbox"/> New <input type="checkbox"/> Additional <input type="checkbox"/> Increased <input type="checkbox"/> Existing | 2. Outfall No. 001 |
| 3. Description of proposed discharge or stormwater drainage area (see instructions): Runoff from Slate Belt Heat Recovery Center | |
| 4. Date existing discharge commenced (if applicable): N/A | |
| 5. Date proposed discharge will commence: 2019 | |
| 6. Name of proposed receiving waters: Sediment Basin #2 (Existing, permitted, engineered, non-discharging stormwater control pond) | |
| 7. Chapter 93 Designated Use: Statewide | 8. Designation Date (if applicable): N/A |
| 9. Chapter 93 Existing Use: Watershed - HQ, CWF, MF | 10. Evaluation Date (if applicable): Unknown |
| 11. The proposed discharge is <input type="checkbox"/> directly to OR <input checked="" type="checkbox"/> upstream of the receiving waters with an existing use of HQ or EV. | |
| Non-Discharge Alternatives Analysis – Screening | |
| 1. Check the box next to any non-discharge alternative that is considered infeasible because it is obviously cost prohibitive, technically infeasible, or environmentally unsound. See instructions. | |
| <input checked="" type="checkbox"/> Pollution prevention and process changes <input checked="" type="checkbox"/> Alternative project siting <input checked="" type="checkbox"/> Land application of stormwater (seasonal or year-round) <input checked="" type="checkbox"/> Recycle/reuse of stormwater <input checked="" type="checkbox"/> Alternative discharge locations <input checked="" type="checkbox"/> Constructed treatment wetlands | |
| 2. For all boxes checked in No. 1, above, describe the reason(s) why the non-discharge alternative was eliminated from further consideration. Attach additional documentation to Module 1 as necessary. | |
| 1. Pollution Prevention will be implemented to prevent runoff contamination. Biosolids unloaded into covered receiving unit and dried in enclosed building. Product is held in designated storage silos. Precipitation from loading pads will be collected and transported for offsite disposal as process water. Process changes are not possible to eliminate stormwater discharge. 2. Other sites were evaluated and not feasible given siting constraints. 3. Industrial site, land application not feasible given siting constraints. 4. Recycling/resue of stormwater not feasible given siting constraints. 5. Alternate discharge locations are not feasible given siting constraints. 6. Runoff will be directed to a vegetated swale for TSS and organic loading removal. * Stormwater will flow into an existing, permitted, engineered, non-discharging stormwater control pond that will not share a connection to the Little Bushkill. | |

Non-Discharge Alternatives Analysis – Detailed

Complete this section for each non-discharge alternative that was not eliminated through the Non-Discharge Alternatives Analysis - Screening. Include any additional alternatives not listed in the Screening section. A minimum of three alternatives is required.

1. Name/Description of Non-Discharge Alternative: **N/A See Attached Narrative**

2. Explain why this alternative may be feasible in lieu of a discharge (i.e., describe the "pros" of this alternative).

3. Describe the challenges ("cons") associated with this alternative.

4. Explain how the environmental factors identified in the instructions to Module 1 were considered.

5. Direct comparison of present worth or equivalent annual costs (attach a narrative with calculations to Module 1):

Discharge Alternative: \$ Non-Discharge Alternative: \$

6. Is this non-discharge alternative cost effective and environmentally sound? Yes No

Explain your answer and describe any efforts that will be made to partially implement this alternative, if applicable.

Non-Degrading Discharges – Industrial Stormwater

1. Is the stormwater discharge a result of site construction activities? Yes No

Describe the activities or site modifications that will result, or have resulted, in the stormwater discharge.

Construction of SBHRC. Runoff will be managed through approved erosion and sedimentation controls during construction and through designated control facilities after construction during operation. No process water will be discharged onsite.

2. Is an NPDES permit for stormwater associated with construction activities under 25 Pa. Code Chapter 102 required prior to commencing the proposed discharge?

Yes No If Yes, specify the date the permit application was submitted: **TBD** Not Submitted

If No, indicate the earth disturbance associated with the proposed discharge: **acres**

3. Is the stormwater rate or volume from the site expected to increase following the new activities or site modifications?

Yes No N/A Provide an explanation for the answer below.

Construction activities are expected to increase the % impervious area on the site. This is expected to result in an increase in sheet flow for the affected areas.

4. Will the applicant create and maintain a condition of "No Exposure" within the stormwater drainage area?

Yes No If Yes, the applicant certifies that it will notify DEP prior to making changes that could modify the No Exposure condition. Yes No

If No, identify possible pollutants and estimated pollutant concentrations in the discharge as an attachment to Module 1.

5. Anti-Degradation Best Available Combination of Technologies (ABACT)

If the net change in stormwater discharges is not fully eliminated by non-discharge alternatives, the applicant must utilize ABACT BMPs to manage the change. Select the technologies that will be, or have been, used to ensure that the discharge will be a non-degrading discharge. **TBD**

Treatment BMPs:

- Infiltration Practices
- Wet Ponds
- Wetland Treatment Systems
- Vegetated Swales
- Manufactured Devices
- Bio-Retention / Infiltration
- Green Roofs
- Other: engineered control for containment and offsite treatment**

Pollution Prevention:

- Disconnection of roof drainage
- Bio-Retention / Bio-Infiltration
- Street Sweeping
- PPC Plans
- Non-structural Practices
- Land Preservation
- Restoration BMPs
- Nutrient, pesticide, herbicide or other chemical application plan alternatives

Land Disposal:

- Vegetated Filters
- Riparian Buffers < 150 ft
- Riparian Forest Buffers < 150 ft
- Stormwater Reuse Technologies:**
- Cisterns
- Rain Barrels
- Spray/Drip Irrigation
- Dry Hydrant w/Underground Storage

SECTION 7.0

MODULE 1 – ANTI DEGRADATION NARRATIVE

**MODULE 1 – ANTI-DEGRADATION
SLATE BELT HEAT RECOVERY CENTER, LLC
SUPPLEMENTAL NARRATIVE**

Slate Belt Heat Recovery Center, LLC (SBHRC) proposes to develop the Slate Belt Heat Recovery Center in Plainfield Township, Northampton County, PA. The facility will use waste heat from the Green Knight Economic Development Center (GKEDC) to dry biosolids and produce a Class A biosolid product that will be used as a fertilizer blending agent, soil conditioner, and/or a renewable fuel product.

SBHRC is applying for an Individual National Pollutant Discharge Elimination System (NPDES) permit to cover the discharge of stormwater runoff from the processing facility site. An individual NPDES permit is required as the facility is located in the Little Bushkill Creek Watershed, designated in Chapter 93 as a High Quality – Cold Water Fishery. Runoff from the SBHRC facility will discharge to a proposed surface swale adjacent to the GKEDC facility, and to an existing, permitted, non-discharging, engineered, stormwater control basin (GCSL's Sediment Basin #2) serving the adjacent Grand Central Sanitary Landfill (GCSL). The SBHRC site is located within the GCSL permit boundary and within the contributory drainage area of the GCSL NPDES permit No. PA 0074083. Sediment Basin #2 is designated as Outfall 012 in the GCSL NPDES permit; however it does not discharge to surface water. Runoff from this portion of the landfill as well as the GKEDC site and proposed SBHRC facility discharge into Sediment Basin #2.

The proposed facility will include truck tipping equipment that will serve as an unloading station for received biosolids and as a loading station for process wastewater. The process water storage tank will have secondary containment. Runoff / stormwater from these areas will be captured, and then tested, and inspected periodically in accordance with Best Management Practices (BMPs) in order to determine if it can be discharged. Stormwater collected in the receiving area and final product loadout that does not meet the discharge requirements will be conveyed to the process water storage tank, and transported to an approved offsite treatment facility for disposal.

Diversion around the basin is not feasible due to site constraints. SBHRC proposes to contain stormwater that does not meet discharge criteria in preparation for offsite disposal along with the process water. Uncontaminated runoff from the remainder of the site will be conveyed to a vegetated swale prior to discharge to Sediment Basin #2. SBHRC will implement the approved Contingency Plan for the Site and segregation of contaminated stormwater from site runoff will be incorporated into the site design. Runoff from the site to Sediment Basin #2 will be sampled by SBHRC per the NPDES permit requirements which is anticipated to be semi-annually for the designated parameters. An initial sample will be collected following start up and analyzed for oil

and grease, BOD5, COD, TSS, Total Nitrogen, Total Phosphorus, and pH as required in the NPDES application. Subsequent sampling and analysis will be performed based on the requirements in the SBHRC individual NPDES permit.

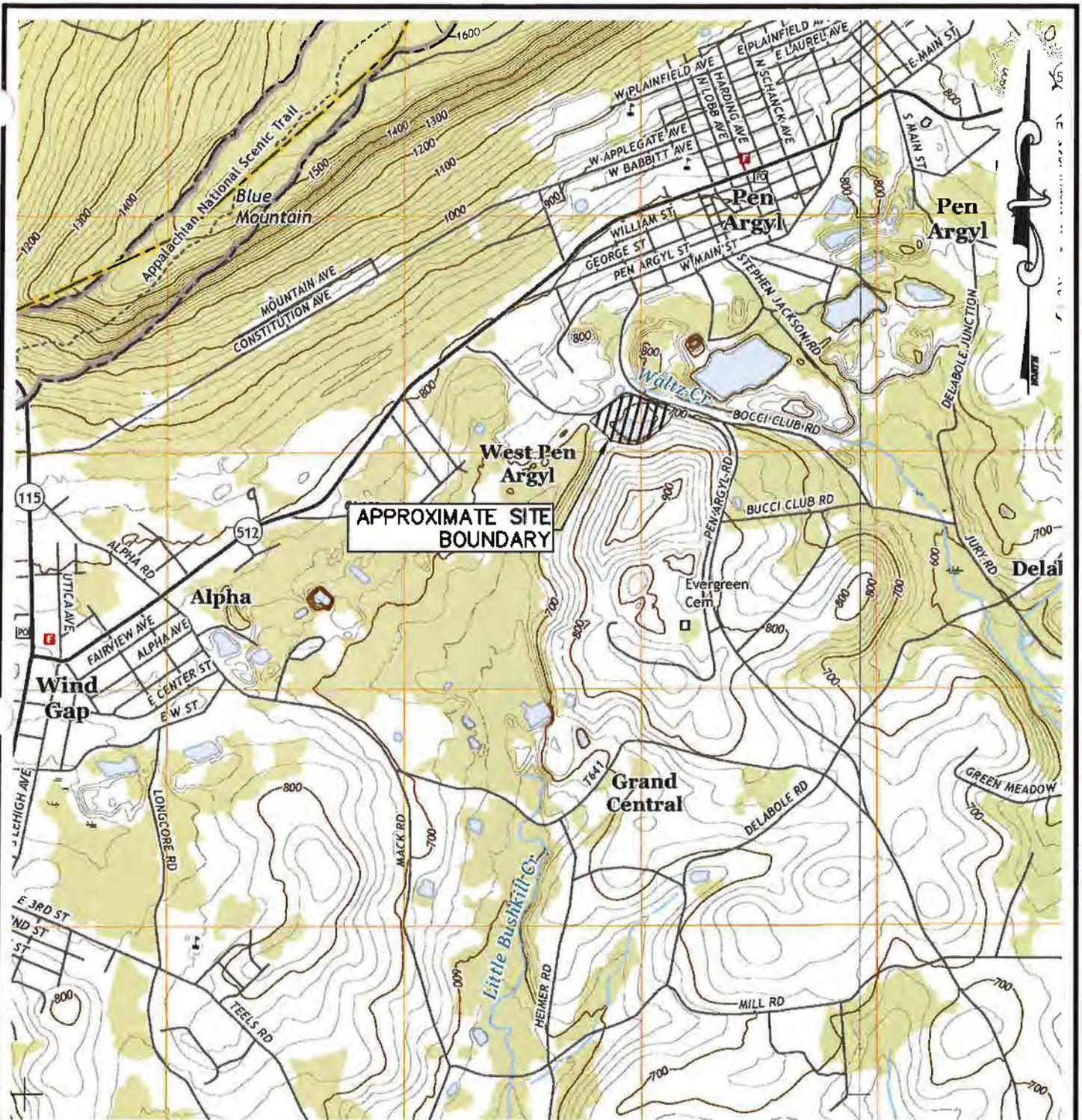
The outfall will be inspected periodically and corrective measures taken as required. Inspection reports will be completed and submitted with the analytical results and the Discharge Monitoring Report.

The SBHRC site is currently undeveloped and existing site runoff enters Sediment Basin #2. Runoff from the developed SBHRC site will be managed following township and county stormwater ordinance and discharged to the basin through the vegetated swale in a controlled manner. Runoff from the site will be monitored per the NPDES permit requirements when issued. Sediment Basin #2 is an existing, permitted, engineered, non-discharging stormwater control pond. Therefore, no degradation of water quality in the Little Bushkill Creek will result. This scenario complies with the anti-degradation requirements for the facility.

ATTACHMENT A

FIGURES

**FIGURE 1
SITE LOCATION MAP**



APPROXIMATE SITE BOUNDARY

LEGEND

- SCHOOL
- FIRE STATION
- CEMETERY
- POST OFFICE

SOURCE: USGS 7.5 MINUTE QUADRANGLE - WIND GAP AND BANGOR, PA

EarthRes
ENGINEERING AND SCIENCE

P.O. Box 468
6912 Old Eastern Road
Pitersville, PA 18947 USA

1221C Pineview Drive
Martinsburg, WV 26005

www.earthres.com

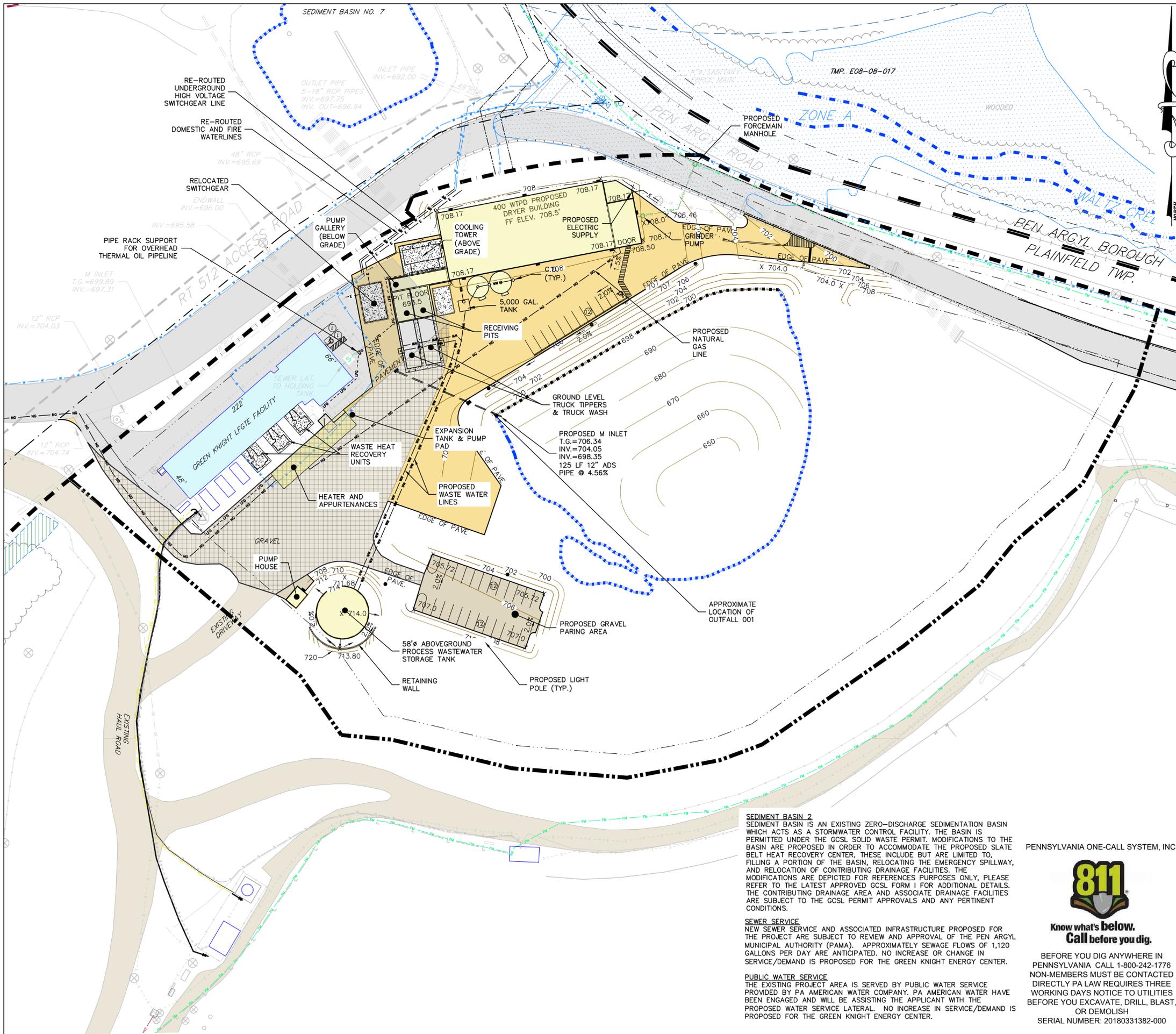
PA office 215.766.1211
WV office 304.212.6266
toll free 800.264.4553

| | |
|------------------------------|---------------------------|
| DRAWN BY: SP | CHECKED BY: TGP |
| DATE: 03/06/2018 | PROJECT NO: 151014.003 |
| DRAWING SCALE: 1" = 2000' | |
| | |

FIGURE 1
SITE LOCATION MAP

SLATE BELT HEAT RECOVERY CENTER
PLAINFIELD TOWNSHIP, NORTHAMPTON COUNTY
PENNSYLVANIA

**FIGURE 2
DRAINAGE PLAN**



LEGEND

- EXISTING HAUL ROAD/GRAVEL AREA
- EXISTING PAVING
- PROPOSED PAVING
- EXISTING GRAVEL TO BE REPLACED WITH PAVEMENT
- APPROXIMATE FLOODPLAIN
- MAPPED WETLANDS
- PROPOSED BUILDING/STRUCTURE
- EXISTING GREEN KNIGHT FACILITY
- PROPOSED CONCRETE PADS
- GCSL PROPERTY-R/W BOUNDARY LINE
- ADJACENT PROPERTY BOUNDARY
- BUILDING SETBACK LINE
- PA DOT ULTIMATE RIGHT OF WAY
- PROPOSED PROPERTY BOUNDARY
- EXISTING WATER LINE (APPROXIMATE)
- PROPOSED WATER LINE (APPROXIMATE)
- PROPOSED WASTE WATER LINE
- EXISTING SEWER LINE (APPROXIMATE)
- EXISTING SANITARY FORCEMAIN
- PROPOSED CONDENSATE FORCEMAIN
- EXISTING LANDFILL GAS UTILITY
- PROPOSED LANDFILL GAS UTILITY
- EXISTING NATURAL GAS UTILITY
- PROPOSED NATURAL GAS UTILITY
- EXISTING UNDERGROUND ELECTRIC UTILITY
- PROPOSED UNDERGROUND ELECTRIC UTILITY
- EXISTING OVERHEAD ELECTRIC UTILITY (APPROXIMATE LOCATION)
- OVERHEAD UTILITIES POLE
- EXISTING STORM PIPE
- EXISTING CHAIN LINK FENCE
- PROPOSED INLET AND PIPE
- EXISTING STREAMS/PONDS
- EXISTING SEDIMENT BASIN
- PROPOSED POND BOUNDARY
- EXISTING CONCRETE JERSEY BARRIER
- EXISTING GRADE 10' ELEV.
- EXISTING GRADE 2' ELEV.
- PROPOSED GRADE 10' & 5' ELEV.
- PROPOSED GRADE 1' & 2' ELEV.

- NOTES:**
- EXISTING GRADE CONTOURS AND SITE FEATURES FROM PHOTOGRAMMETRIC DIGITAL MAPPING BY MID-ATLANTIC PHOTOGRAMMETRIC SERVICES, INC. DATE OF PHOTOGRAPH NOVEMBER 11, 2017.
 - PERIMETER BOUNDARY DEVELOPED FROM SURVEY PERFORMED BY THOMAS MICHAEL ENGLERTH, NOVEMBER 1988; DEED PLOT BY CHARLES SOROKA, PLS, MARCH, 1996; REVIEW OF NORTHAMPTON COUNTY TAX MAPS; AND LEHIGH & NORTHAMPTON DIGITAL GEOGRAPHIC DATA, VERSION 4.0 (10/2005).
 - EVERGREEN CEMETERY LOT LINE ADJUSTMENT INFORMATION TAKEN FROM PEN ARGYL EVERGREEN CEMETERY PRELIMINARY/FINAL RESUBDIVISION LOT LINE ADJUSTMENT PLAN BY EARTHRES GROUP, INC. DATED 06/22/01 AND LAST REVISED 09/07/01.
 - PRIVATE ACCESS ROAD FROM LOT #1 ACROSS LOT #2 TO PEN ARGYL ROAD EXCEEDS TOWNSHIP STANDARDS (CONSISTS OF 12" OF CONCRETE AND CURBING) AND WILL BE MAINTAINED BY GRAND CENTRAL SANITARY LANDFILL, INC. PLAINFIELD TOWNSHIP SHALL NOT BE RESPONSIBLE FOR MAINTENANCE OF THIS PRIVATE ROAD.
 - ZONING INFORMATION OBTAINED FROM PLAINFIELD TOWNSHIP ZONING ORDINANCE (NO. 351) ADOPTED FEBRUARY 9, 2000 AMENDED THROUGH JANUARY 11, 2012 AND PEN ARGYL BOROUGH ZONING ORDINANCE (NO. 528) ADOPTED JULY 8, 1997.
 - SUBDIVISION AND LAND DEVELOPMENT INFORMATION OBTAINED FROM PLAINFIELD TOWNSHIP SUBDIVISION AND LAND DEVELOPMENT ORDINANCE ADOPTED MARCH 6, 1991 AMENDED THROUGH AUGUST 12, 2009 AND PEN ARGYL BOROUGH SUBDIVISION AND LAND DEVELOPMENT ORDINANCE (NO. 628) ADOPTED JANUARY 9, 2007.
 - THE SITE IS LOCATED OUTSIDE THE 100-YEAR FLOODPLAIN AS REFERENCED FROM THE FLOOD INSURANCE RATE MAPS (FIRM) AS PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AREA (FEMA). FEMA FIRM #420950132E.
 - THE RECLAMATION GRADES FOR THE DONEY II QUARRY HAVE BEEN REFERENCED FROM THE APPROVED RECLAMATION PLAN AS PREPARED BY EARTHRES GROUP, INC. DATED 08/27/2003, DRAWING NO. D-494, PROJECT 951001.075.

SEDIMENT BASIN 2
 SEDIMENT BASIN IS AN EXISTING ZERO-DISCHARGE SEDIMENTATION BASIN WHICH ACTS AS A STORMWATER CONTROL FACILITY. THE BASIN IS PERMITTED UNDER THE GCSL SOLID WASTE PERMIT. MODIFICATIONS TO THE BASIN ARE PROPOSED IN ORDER TO ACCOMMODATE THE PROPOSED SLATE BELT HEAT RECOVERY CENTER. THESE INCLUDE BUT ARE LIMITED TO FILLING A PORTION OF THE BASIN, RELOCATING THE EMERGENCY SPILLWAY, AND RELOCATION OF CONTRIBUTING DRAINAGE FACILITIES. THE MODIFICATIONS ARE DEPICTED FOR REFERENCES PURPOSES ONLY, PLEASE REFER TO THE LATEST APPROVED GCSL FORM I FOR ADDITIONAL DETAILS. THE CONTRIBUTING DRAINAGE AREA AND ASSOCIATE DRAINAGE FACILITIES ARE SUBJECT TO THE GCSL PERMIT APPROVALS AND ANY PERTINENT CONDITIONS.

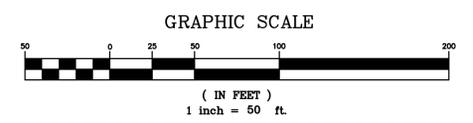
SEWER SERVICE
 NEW SEWER SERVICE AND ASSOCIATED INFRASTRUCTURE PROPOSED FOR THE PROJECT ARE SUBJECT TO REVIEW AND APPROVAL OF THE PEN ARGYL MUNICIPAL AUTHORITY (PAMA). APPROXIMATELY SEWAGE FLOWS OF 1,120 GALLONS PER DAY ARE ANTICIPATED. NO INCREASE OR CHANGE IN SERVICE/DEMAND IS PROPOSED FOR THE GREEN KNIGHT ENERGY CENTER.

PUBLIC WATER SERVICE
 THE EXISTING PROJECT AREA IS SERVED BY PUBLIC WATER SERVICE PROVIDED BY PA AMERICAN WATER COMPANY. PA AMERICAN WATER HAVE BEEN ENGAGED AND WILL BE ASSISTING THE APPLICANT WITH THE PROPOSED WATER SERVICE LATERAL. NO INCREASE IN SERVICE/DEMAND IS PROPOSED FOR THE GREEN KNIGHT ENERGY CENTER.

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| | |
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| <p>PREPARED FOR:</p> | <p>PREPARED BY:</p> <p>ENGINEERING AND SCIENCE</p> |
| <p>90 S. Bay 408 6012 Old Eastern Road Plainville, PA 18947 USA</p> <p>P.O. Box 794 Morningside, WV 26065 www.earthres.com</p> <p>PA office 217.766.1211 toll free 800.254.4563</p> | <p>SITE PLAN</p> <p>SLATE BELT HEAT RECOVERY CENTER GRAND CENTRAL SANITARY LANDFILL PLAINFIELD TOWNSHIP, NORTHAMPTON COUNTY, PA.</p> |
| <p>CHECKED BY: JLD</p> <p>DATE: 3/6/2018</p> <p>DRAWING NUMBER: FIGURE 2</p> | <p>PROJECT NO: 151014.004</p> <p>DATE: 3/6/2018</p> <p>DRAWING NUMBER: FIGURE 2</p> |
| <p>NO.</p> <p>DATE</p> <p>BY</p> <p>REVISIONS</p> | <p>SHEET 1 OF 1</p> |

*Slate Belt Heat Recovery Center, LLC
Individual NPDES Permit Application
Stormwater Runoff from Industrial Activities
March 2018*

ATTACHMENT B
CONTINGENCY PLAN FOR EMERGENCY PROCEDURES

**Slate Belt Heat Recovery Center, LLC
435 Williams Court, Suite 100
Baltimore, MD 21220**

**CONTINGENCY PLAN FOR EMERGENCY
PROCEDURES**

**Slate Belt Heat Recovery Center
Plainfield Township
Northampton County, PA**

March 2018

Prepared By:



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Immediately following report

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- Appendix A Substantial Harm Criteria Certification
- Appendix B PPC and SPCC Cross-Reference
- Appendix C Aboveground Storage Tanks Maintenance/Operation Monthly Checklist
- Appendix D Drum and Small Container Storage and Handling Monthly Checklist Form
- Appendix E Directions to Emergency Medical Facilities
- Appendix F Forms and Reports
- Appendix G Standard Operating Procedures
- Appendix H Safety Data Sheets

INTRODUCTION

This Contingency Plan, hereinafter referred to as the “Plan”, has been developed to prevent the release of toxic, hazardous, or other pollutants to the environment from the Slate Belt Heat Recovery Center, LLC – Slate Belt Heat Recovery Center (SBHRC). The Plan is to be used as a training tool and as a strategy for response to actual emergencies. In developing the Plan, the SBHRC has put emphasis on preventing accidental discharges.

To ensure that all necessary measures are in place to prevent the release of toxic, hazardous, or other pollutants, this contingency plan is comprised of a complete Preparedness, Prevention, and Contingency Plan (PPC). The included PPC plan complies with the Pennsylvania Department of Environmental Protection’s (PADEP’s) most recent guidelines for PPCs as described in the section below.

Preparedness, Prevention, and Contingency Plan

The Preparedness, Prevention, and Contingency (PPC) Plan addresses the requirements of the following state and federal pollution incident prevention and emergency response programs:

- Pennsylvania Solid Waste Management Act (25 Pa. Code Ch. 262a, 264a, 265a, 266a, 273, 277, 279, 281, 283, 287, 288, 289, 293, 295, 297)
- Pennsylvania Clean Streams Law (25 Pa. Code Ch. 78, 91.34)
- Pennsylvania Storage Tank and Spill Prevention Act (Act 32-1989, 25 Pa. Code Ch. 245)
- Federal Clean Water Act and Oil Pollution Act (40 CFR 110, 112, 125)

The purpose of the PPC Plan is to minimize and abate hazards to human health and the environment from fires, explosions, or release of hazardous wastes to air, soil, or surface water. The PPC Plan was prepared following the Pennsylvania Department of Environmental Protection (PADEP) “Guidelines for the Development and Implementation of Environmental Emergency Response Plans”, revised August 2005.

The PPC Plan must be periodically reviewed and updated, if necessary. As a minimum this must occur when:

- Applicable Department regulations are revised;
- The PPC Plan fails in an emergency;
- The Facility changes in its design, construction, operation, maintenance, or other circumstances, in a manner that materially increases the potential for fires, explosions or releases of toxic or hazardous constituents; or which changes the response necessary in an emergency;
- The list of emergency coordinators changes;
- The list of emergency equipment changes;
- Upon removal or addition of a storage tank(s).

Spill Prevention Control and Countermeasure Plan

A Spill Prevention Control and Countermeasure (SPCC) Plan is also required at the Facility due to combined capacity of aboveground oil storage of more than 1,320 gallons of oil, and if due to its location, the Facility could reasonably be expected to discharge into or upon the navigable waters of the United States. This document has been created to maintain compliance with 40 CFR Part 112 – Oil Pollution Prevention. The SPCC Plan addresses storage tanks, drum storage areas, piping and equipment that are used for oil. The Substantial Harm Criteria Certification is provided in **Appendix A**. The SPCC Plan requirements are addressed within the PPC Plan as indicated in the cross-reference table located in **Appendix B**.

The elements of this SPCC Plan should be updated when any of the following occur:

- A change in the Facility design, construction, operation and maintenance occurs that materially affects the potential for discharge.
- Changes in Site conditions occur that materially affect the content of the SPCC Plan.
- A reportable spill or release occurs.
 - The Facility discharges in a single event more than 1,000 gallons of oil into or upon navigable waters of the U.S.
 - The Facility discharges oil in harmful quantities in two spill events (over 42 gallons) within any twelve-month period.
- Sources covered under the SPCC Plan are added or deleted.

The SPCC Plan must be submitted to the U.S. EPA Region 3 Regional Administrator within sixty (60) days and to the state agency, along with the other information specified in 40 CFR Part 112.4, if either of the following occurs:

- The Facility discharges in a single event more than 1,000 gallons of oil into or upon navigable waters of the U.S.
- The Facility discharges oil in harmful quantities in two spill events (over 42 gallons) within any twelve-month period.

Changes should be made to the SPCC Plan within six (6) months of those changes taking place. Following any technical changes, the SPCC must be reviewed and approved by a registered Professional Engineer (PE). A PE certification is not required for non-technical changes to the SPCC Plan portion of this Plan.

Spill Prevention Response Plan

A Spill Prevention Response (SPR) Plan is required by the Pennsylvania Storage Tank and Spill Prevention Act for all facilities with more than 21,000 gallons of aboveground storage of regulated substances. The Slate Belt Heat Recovery Center has less than 21,000 gallons stored in regulated tanks at this Site; therefore, the SPR provisions do not apply.

DESCRIPTION OF FACILITY

1.1 Description of the Industrial Activity

Slate Belt Heat Recovery Center, LLC proposes to permit and construct the Slate Belt Heat Recovery Center (SBHRC), hereinafter referred to as the “Site” or “Facility”, a biosolids processing facility, contained within a 12.05 acre parcel of land (tax parcel no. E8-12-1 and E8-12-1A will be adjusted to create the 12.05 acre lot) owned by Grand Central Sanitary Landfill (GCSL) and situated near Green Knight Economic Development Corporation (GKEDC) facilities at a latitude and longitude of 40° 51’ 34”, -75° 15’ 41” (respectively) in Plainfield Township, Northampton County, Pennsylvania (see Figure 1 – Site Location Map).

The proposed process involves the transporting of dewatered biosolids to the proposed Facility where it will be thermally dried to produce a Class A biosolid that can be used as a fertilizer, soil conditioner, and/or a renewable fuel product. Class A biosolids must meet the requirements established under 25 Pa. Code §271.932(a) in regard to pathogens and 25 Pa. Code §271.933(b)(1)–(8) relating to vector attraction reduction, is nonliquid, and is unrecognizable as human waste. The drying process will consist of two (2) fully enclosed belt dryers in parallel, each with a capacity of approximately 200 wet tons per day of biosolid, for total throughput of 400 wet tons per day (84 dry tons per day at 21% dry solids). The dryers will primarily use waste heat recovered from the nearby GKEDC landfill gas-to-energy (LFGTE) plant. The existing stacks of three (3) turbines located at the GKEDC LFGTE plant will be modified to recover waste heat from the stacks via a heat exchanger, transferring the heat into a thermal oil that is routed to the drying equipment. There will also be a supplemental thermal oil heater in the thermal oil loop that can provide additional heat to the thermal drying process as necessary. This supplemental thermal oil heater can be fueled by natural gas or landfill gas (LFG).

Major processes include tipping equipment, a covered biosolid receiving unit, biosolids transfer equipment, belt drying lines, dry product storage silos, and a truck load-out station. The dryer belts and all associated processing equipment will be enclosed. The Facility will be enclosed with the only exhaust point from the dryers being from the scrubber (control device).

The odor control process will be a two-stage chemical scrubber system. The first stage is a packed column which uses an acid wash fluid (sulfuric acid). The second stage uses an alkaline wash fluid (sodium hydroxide). Quantities and locations of materials stored and managed on-site are provided in Section 1.3.

Process wastewater generated by the drying process will be hauled to the biosolid generator or other approved liquid waste disposal facility. There will not be any process wastewater discharges to local waterbodies. Sanitary wastewater originating from office, restrooms, and employee facilities will be discharged to the local publically owned treatment works operated by the Pen Argyl Municipal Authority (PAMA).

SBHRC will discharge stormwater from the proposed facility following the terms and conditions of the NPDES permit when issued. Stormwater is considered uncontaminated runoff from the

regulated industrial activities on the site. Process wastewater generated by the drying process including, but not limited to, air scrubber blowdown, wash water and precipitation accumulated in receiving unit, product load out and storage tank containment areas will be managed separately and transported to a permitted offsite liquid treatment facility for disposal. Sanitary wastewater generated from site restrooms, break rooms and locker rooms will be conveyed to the Pen Argyl Municipal Authority for treatment and disposal. Process wastewater and sanitary wastewater are managed separately and are not proposed for discharge from the SBHRC under the NPDES permit.

1.2 Description of Existing Emergency Response Plans

The Facility does not currently have existing emergency response plans as it is not currently constructed or operational.

1.3 Material Inventory

The materials inventory is summarized in the following table:

Table 1.3 – Material Inventory

| | | |
|---------------------|--|--------------------------------|
| Thermal Oil | 4,000 gallons / Heat exchanger, expansion tank, and pipeline | Adjacent to GKEDC |
| Sulfuric Acid | 5,000 gallons / AST | Inside Dryer Building |
| Sodium Hydroxide | 3,000 gallons / AST | Inside Dryer Building |
| Sodium Hypochlorite | 5,000 gallons / AST | Inside Dryer Building |
| Nitrogen (gas) | 27,100 ft ³ / Cylinders | Inside Dryer Building |
| Process Wastewater | 300,000 gallons / AST | South of the GKEDC |
| Trash | 4-cubic yard / Dumpster | Parking Area by Dryer Building |
| Product | 14,500 ft ³ each / two silos | Adjacent to Dryer Building |
| Dewatered Biosolids | 12,000 ft ³ each / two units | Adjacent to Dryer Building |

None of the above materials stored in bulk storage are combustible, flammable, or explosive.

1.4 Pollution Incident History

The Facility does not have a pollution incident history. Records of all spills or leaks will be maintained with this Plan.

1.5 Implementation Schedule for Plan Elements Not Currently in Place

There are no additional elements necessary for the proposed Facility. SBHRC will implement Plan elements not currently in place upon authorization of this Plan.

2.0 DESCRIPTION OF HOW PLAN IS IMPLEMENTED BY ORGANIZATION

This section presents a description of how the Plan is implemented by the organization. The following subsections describe the various components.

2.1 Organizational Structure of Facility for Implementation

This Plan has been developed by Slate Belt Heat Recovery Center, LLC with the help of EarthRes Group, Inc. The Plan will be implemented by the Plant Manager with the help of designated Site personnel. It is the responsibility of these individuals to maintain information concerning materials inventory, regularly review potential spill sources, establish spill reporting procedures, audit visual inspection programs, and review plant spill incidents.

The Emergency Coordinators will coordinate activities for spill clean-up, notification of authorities, and establishment of training and educational programs for Site personnel. These individuals are also responsible for regularly reviewing the Plan, making any necessary changes and recommendations. The Secondary Emergency Coordinator will coordinate activities in the absence of the Primary Emergency Coordinator. The Back-up Emergency Coordinator will coordinate activities in the absence of both the Primary and Secondary Emergency Coordinators.

New equipment, construction, and process changes will be reviewed relative to the Plan. The Emergency Coordinator will be responsible for filing all reports, annual or otherwise, related to the Plan. Ultimate responsibility for implementation of the Plan lies with the Plant Manager.

2.2 List of Emergency Coordinators

The following is a table of Emergency Coordinators who are thoroughly familiar with all aspects of the Plan and have the authority to commit the resources necessary to implement the Plan.

Table 2.2 – List of Emergency Coordinators

| | | | |
|---------------------------------|-----|-----|-----|
| Primary Emergency Coordinator | TBD | TBD | TBD |
| Secondary Emergency Coordinator | TBD | TBD | TBD |
| Back-up Emergency Coordinator | TBD | TBD | TBD |

2.3 Duties and Responsibilities of the Coordinator

During an emergency, the Emergency Coordinator should notify emergency response agencies, identify the problem, assess the health or environmental hazards, and take all reasonable measures to stabilize the situation. The Emergency Coordinator should also be responsible for follow-up

activities after the incident such as treating, storing, or disposing of residues and contaminated soil, decontamination and maintenance of emergency equipment, and submission of any reports. The Emergency Coordinator will do the following whenever there is an imminent or actual emergency situation:

- Activate Facility alarm system to notify associates and response team.
- Notify local emergency response agencies, state response agencies, PADEP, and the National Response Center as needed. Phone numbers and procedures are included in Section 5.0 of this Plan.
- As quickly as possible determine the nature and extent of the problem. The exact source, area and extent of emitted or discharged materials should also be determined as quickly as possible. Evacuation of areas must be carried out if conditions warrant.
- Assess the health and environmental hazards present or imminent. The safety of Facility personnel and others in the area is the most important consideration.
- Take all reasonable measures to stabilize the situation. Protection of emergency responders and Facility personnel is the most important consideration.
- Coordinate the treatment, storage, and disposal of spill residues and contaminated soil.
- Coordinate decontamination and maintenance of emergency equipment.
- Coordinate submission of any required reports.

If the Emergency Coordinator determines that the Facility has had an emission, discharge, fire, or explosion which would threaten human health or the environment, he/she must immediately notify the applicable local authorities including the county emergency management agency and indicate if evacuation of local areas may be advisable; and immediately notify the Department; the National Response Center; and the Pennsylvania Emergency Management Agency; and report the following:

- a. Name of the person reporting the incident;
- b. Name and location of the Facility;
- c. Phone number where the person reporting the spill can be reached;
- d. Date, time, and location of the incident;
- e. A brief description of the incident, nature of the materials or wastes involved, extent of any injuries, and possible hazards to human health or the environment;
- f. The estimated quantity of the materials or wastes spilled; and
- g. The extent of contamination of land, water, or air, if known.

Immediately after an emergency, the Emergency Coordinator, with Departmental approval, must provide for treating, storing, or disposing of residues, contaminated soil, etc., from an emission, discharge, fire, or explosion at the installation.

The Emergency Coordinator must insure that in the affected areas of the Facility, no material or waste incompatible with the emitted or discharged residues is processed, stored, treated, or disposed of until cleanup procedures are completed; and, all emergency equipment listed in this Plan is cleaned and fit for its intended use before operations are resumed.

Within 15 days after the incident, the installation must submit a written report on the incident to the Department. The report must include the following:

- a. Name, address, and telephone number of the individual filing the report;
- b. Name, address, and telephone number of the installation;
- c. Date, time, and location of the incident;
- d. A brief description of the circumstances causing the incident;
- e. Description and estimated quantity by weight or volume of materials or wastes involved;
- f. An assessment of any contamination of land, water, or air that has occurred due to the incident;
- g. Estimated quantity and disposition of recovered materials or wastes that resulted from the incident; and
- h. A description of what actions the installation intends to take to prevent a similar occurrence in the future.

2.4 Chain of Command

If you:

- Observe a spill or release
- Observe a fire or explosion
- Suspect a spill or release is imminent
- Suspect a fire or explosion is imminent

Notify the following people immediately:

- TBD , (Primary Emergency Coordinator):
- TBD , (Secondary Emergency Coordinator):
- TBD , (Back-up Emergency Coordinator):

If you are unable to immediately notify these people, notify your supervisor so that they can make the notifications immediately.

When reporting the emergency situation, relay the following information:

- Your name;
- Your department or area;
- What emergency situation is occurring;
- Where the emergency is located; and
- Extent of any injuries.

3.0 SPILL LEAK PREVENTION AND RESPONSE

3.1 Pre-release Planning

This section describes the sources and areas where potential spills and leaks may occur and the pollution incident prevention practices specific to the source or area.

3.1.1 Thermal Fluid/Oil

Thermal fluid/oil is stored in a 1,300-gallon expansion tank located within the Heat Exchange Pad that provides secondary containment. The heater contains approximately 700 gallons of oil, and the pipeline contains approximately 2,000 gallons of thermal oil.

Sorbent material is available to contain a spill or leak of such fluids.

Thermal fluid/oil is piped and pumped continuously via pipeline (6" diameter carbon steel pipe) from the heater to the Dryer Building. All fill and drain locations occur inside the building.

3.1.2 Sulfuric Acid

Sulfuric acid is stored in a 5,000-gallon aboveground storage tank (AST) located adjacent to the Dryer Building with secondary containment (i.e., AST is double-walled).

The double-walled AST provides secondary containment for 110% of the tank's capacity; however, a spill of sulfuric acid during loading/unloading operations would be captured within the tank containment system.

3.1.3 Sodium Hydroxide

Sodium hydroxide is stored in a 3,000-gallon AST located adjacent to the Dryer Building with secondary containment (i.e., AST is double-walled).

The double-walled AST provides secondary containment for 110% of the tank's capacity; however, a spill of sodium hydroxide during loading/unloading operations would be captured within the tank containment system.

3.1.4 Sodium Hypochlorite

Sodium hypochlorite is stored in a 5,000-gallon AST located adjacent to the Dryer Building with secondary containment (i.e., AST is double-walled).

The double-walled AST provides secondary containment for 110% of the tank's capacity however, a spill of sodium hypochlorite during loading/unloading operations would be captured within the tank containment system.

3.1.5 Process Wastewater

Process wastewater is stored in a 300,000-gallon aboveground storage tank (AST) located just south of the GKEDC facility. This tank is also located within a secondary containment tank to capture any potential spills. The tank will have a leak detection zone under the concrete floor.

3.1.6 Product Silos

Finished product is stored in two (2) product silos located on the south side of the SBHRC. The finished product will be solid and not subject to the same concerns as liquid spills. A truck load-out pad will be located under the silos, and capable of handling spills during product load-out.

3.1.7 Dewatered Biosolids

Dewatered biosolids that arrive at the SBHRC site are stored in one of two (2) receiving units just outside the dryer building. These units will have a lid to contain the material within. In addition, all potential runoff and spills around these receiving units will be captured and pumped to the process wastewater storage tank for appropriate disposal at an approved facility.

3.2 Material Compatibility

All materials are stored in containers, tanks, bins or drums made of materials compatible with the materials handled. Compatibility with other materials on-Site is not a problem given the nature of the materials, the quantities stored and the storage location.

3.3 Inspection and Monitoring Program

Observation of Site activities are carried out by SBHRC employees during operating hours and supervised by the Plant Manager. Employees look for problem areas to prevent releases and accumulation of wastes in areas open to runoff. Problems are reported to their supervisors for corrective action.

3.3.1 Tank and Container Inspections

Inspections to be performed by designated employee(s):

A visual inspection shall be performed monthly of all storage tanks, piping, valves, drum storage areas, and loading/unloading areas. The inspections shall be performed by an employee or employees designated by the Plant Manager. The designated employee(s) are to complete the following forms monthly:

- **Appendix C:** Aboveground Storage Tanks Maintenance/Operations Form
- **Appendix D:** Drum & Small Container Storage And Handling Form

All completed forms are to be placed in the back of the Appendix in which the form was taken from in this Plan.

3.3.2 Drainage from Diked Storage Areas

All ASTs will be double-walled and have an inspection port for monitoring. The process water containment tank will accumulate precipitation. Limited liquid is expected from the chemical ASTs. The key is to be in control of the person responsible for spill prevention. The water from this area is to be drained only when there is no sign of contamination or oil on it. A sample will be pulled and observed. Testing for pH and specific conductivity will be performed. If there is no sign of contamination it will be released. If there is a small amount of oil on the water, it is to be removed with absorbent pads. These pads are to be disposed of per manufacturers' and local regulations. If there is visible contamination, it will be managed as process wastewater.

3.3.3 Records

Inspection & testing records will be signed by the appropriate supervisor or inspector, and are to be kept with this Plan for a minimum of three (3) years. These records should be placed in the appendix in which the form was taken from. All tank integrity testing documentation should be kept for the life of the tank.

3.4 Preventive Maintenance

The Facility will be inspected as described above. Routine maintenance is conducted on the equipment on a regular maintenance schedule. Regular inspections are conducted on all equipment and repairs are made as necessary. Records are kept of equipment maintenance and repair in a computerized maintenance management system (CMMS). The CMMS system will be used to generate routine work orders to track and record activities. Problem areas are reported to the supervisors, and entered in the CMMS, when discovered for corrective action.

3.5 Housekeeping Program

The primary type of housekeeping practices will be those which reduce the possibility of accidental spills and safety hazards to personnel. Storage areas are maintained in a neat and orderly fashion. Brooms are used to keep floors free of debris. Small spills are cleaned immediately by dry measures. Any equipment or machinery stored outside is kept clean, neat, and orderly. Walkways and entryways are kept free from obstructions. Trash is collected regularly on routine basis.

3.6 Security

The Facility is located within the fenced confines of GCSL, kept locked outside of operating hours and a security alarm system is utilized. The Facility is adequately lit for nighttime monitoring. All visitors are required to check in at the main office and sign in upon arrival.

3.7 External Factor Planning

External factors have the potential to interrupt Facility operations. Major external factors and plans for dealing with them are described below:

A **power outage** at the Facility would not adversely affect operations in such a way to cause an environmental release or a safety problem. Operations would be suspended until power returns and activities resume.

Floods: Based on FEMA mapping, the Site lies above the designated FEMA Zone A (100-year) and the designated FEMA Zone X (500-year) of the Waltz Creek. Floodwaters should not interrupt Site operations. SBHRC will take measures to prevent damage to, and releases from, the Site during high water conditions.

Power outages during a flood should be handled the same as other power outages.

Snowstorms should not cause environmental releases or increase the threat of a release. However, snowstorms or other severe winter weather could make emergency response difficult. Efforts will be made by the Facility to keep all areas clear of snow.

Other external factors (such as earthquakes, tornadoes, and windstorms) cannot be planned for in order to prevent releases. However, in the highly unlikely event that such a situation occurs, all reasonable means should be exercised to prevent or contain environmental releases.

Fires of any kind have the potential to cause significant environmental releases. However, any fire is very dangerous, and only trained individuals should combat fires. Fire responders must be made aware of all oils, chemicals, and other substances, which may be affected by the fire.

3.8 Employee Training Program

The primary training that will occur will be to familiarize employees with safety procedures to be followed when working around heavy equipment. Employees will be trained in procedures to follow in the event of an accident where an employee is injured on Site.

Employee training will instruct employees on proper procedures to initiate in the event of an inadvertent spill of fluid or fuel from operating equipment including proper spill response techniques and notification requirements.

3.9 Facility Transfer Operations

Product transfer operations are performed under the observation of trained delivery personnel. Delivery personnel are assigned to monitor all storage tanks during filling by tank trucks. Their duties include monitoring the levels of vessels being filled, and ceasing the flow of product once a vessel reaches the desired level.

Inbound material offloading is confined to the receiving area where trailers empty biosolids into the receiving and storage tanks. Upon offloading biosolids into the enclosed receiving unit, trailers will have the tailgates washed and proceed to the scales to weigh out. The vehicles will return to the truck tipper in order to accept/load process wastewater pumped from the above process wastewater storage tank. A metered process wastewater fill station connects to the truck with positively sealed fittings and ensures fill volumes do not exceed the truck tank capacity. These trucks will depart the site when full. Outbound product is loaded into trailers under one of two product storage silos. After loading, trucks are weighed and depart the site.

The tipping equipment and product loading pads are designed to contain spills and precipitation. Any accumulated wastewater will be conveyed to the process wastewater tank for storage prior to off-site disposal.

Any tank trucks making deliveries to the Site are inspected by delivery personnel prior to off-loading to confirm the condition and integrity of the vehicle and the transfer connection lines, valves, flanges, and fittings.

All hoses used for product transfer operations are visually inspected prior to use. Any hose that appears damaged is not used. All hose connections to fixed piping and to delivery vehicles are inspected by the delivery personnel prior to initiating the flow of product and during product transfer operations.

4.0 COUNTERMEASURES

4.1 Countermeasures to be Undertaken by Facility

In the event of a spill, leak or release, SBHRC personnel will advise their immediate supervisor who will assess the situation and determine the course of action. The Facility will implement immediate response measures to the extent safe and practicable at the Site to contain a release on-Site using available material and equipment.

SBHRC will undertake the cleanup of minor or non-reportable releases at the Facility and has developed standard operating procedures (SOP's) for certain occurrences. The Emergency Coordinator will be responsible for the cleanup and appropriate disposal of any contaminated media generated during the cleanup. Following completion of the cleanup, the Emergency Coordinator will be responsible for reviewing the cause of the incident and implementing the necessary measures to prevent future occurrences.

4.1.1 Spills and Releases

Safety data sheets (SDS) for the spilled material must be reviewed before any other action is taken. Spill responders must put on proper personal protective equipment (PPE) and must take other action as necessary to reduce hazards posed by the spill. This action includes the removal of incompatible chemicals from the area and the evacuation of the immediate area of the spill. SDS of the chemicals proposed for use at SBHRC are provided in **Appendix H**.

If the Emergency Coordinator determines that the situation is too dangerous for Facility responders to handle, outside assistance will be called in. Generally, response contractors will be called in the event of a reportable release at the Facility. Facility responders should be evacuated if necessary.

4.1.2 Liquid Spills to Asphalt/Macadam/Concrete Surfaces and Not Reaching Storm Sewers or Surface Water

Absorbent pigs, mats, and oil dry must be used to contain the spill and prevent further migration. Efforts should be made to stop the release (if not already done) and to prevent the spill from reaching storm sewers or surface water. The spill should be cleaned up and spill residues and cleanup materials should be placed in appropriate containers. The drums must be labeled so that they can be disposed of properly. All contaminated equipment should be cleaned if possible or placed in the drums for disposal.

4.1.3 Liquid Spills to Ground Surface

The same controls should be used to contain spills on bare ground as those detailed in the asphalt/macadam/concrete surface spill section above. Additionally, shovels or

other equipment should be used to construct emergency berms and containment structures to prevent further spread of the spill. Once the spill is stabilized, it must be cleaned up as soon as possible. Spill residues and cleanup materials should be placed in appropriately labeled containers. Contaminated soils must also be removed as soon as possible and must be treated or disposed of properly. All contaminated equipment must be cleaned up if possible or placed in drums for disposal.

4.1.4 Spills Reaching Surface Waters

Spills which reach surface water must be responded to quickly. This is even more important if it is raining. Attempts will be made to stop the spill if the spill has not reached surface waters. This can be done by using soil, absorbent materials, or any other material, which will stop the flow of the spill. The entry of additional liquids into surface waters must be stopped at the point where the spill is entering. If it is raining, this response method may be impossible.

If the spill reaches surface waters or entry into surface waters is imminent, steps will be taken to contain the spill and remove it from the water.

In the event of an oil spill, the majority of the oil will float on top of the water. Straw bales placed across areas of flow are effective at capturing floating oil. Absorbent materials should be used to contain the oil until cleanup can be conducted. Once the oil is contained it should be removed from the water by pumping, skimming, or by adsorbents if possible. All soil, vegetation, debris, and cleanup materials contaminated by oil must be collected and disposed of properly.

In the event of a spill of materials other than oil, the spill may not float on the water. This will make recovery much more difficult. If any oils are contained in the product or appear on the water surface, the same methods used to handle oil spills can be used to handle this oil fraction. However, substances that dissolve in water or become dispersed in the water must be contained by other means.

4.2 Countermeasures to be Undertaken by Contractors

Response contractors will generally be called in the event of a reportable release from the Facility. The following services can be provided by emergency response contractors: spill cleanup, pumping of contaminated water and spill residue, backhoe work, waste disposal, and removal/stabilization of damaged drums or tanks. It will be up to the Emergency Coordinator to decide whether these services are needed during a release.

Contact for Emergency Response Contractor

- Rapid Response, Inc., Northampton, PA - (877) 460-1038
- Lewis Environmental, Royersford, PA - (610) 495-6695

4.3 Internal and External Communications and Alarm Systems

Key operations personnel have cellular telephones as part of the internal communication network for use in the event of an incident. The telephones allow contact with contractors and regulatory agencies if required.

Local police department, fire department, hospital/medical facilities, local emergency management agency, and response contractors can be summoned from any phone at the numbers listed below.

List of Emergency Assistance Contacts

- Lookout Fire Company No. 1 – 911 or (610) 863-4121 (Non-Emergency)
- Pen Argyl Police Department – 911 or (610) 863-6704 (Non-Emergency)
- Easton Hospital – (610) 250-4000
- St. Luke's University Health Network – Easton – (484) 503-3000
- Lehigh Valley Hospital – (610) 402-8000
- Pocono Medical Center – (570) 421-4000
- Northampton County Emergency Management Services – (610) 746-3194
- Rapid Response, Inc. – (877) 460-1038
- Lewis Environmental – (610) 495-6695

4.4 Evacuation Plan for Facility Personnel

The Emergency Coordinator must decide whether an evacuation is necessary. When the evacuation order is given, all Site personnel must evacuate immediately through the nearest usable exit and gather at the evacuation meeting point designated by the Emergency Coordinator. Some routes may not be usable during an emergency. Routes near the release, spill, or fire area must not be used.

4.5 Emergency Equipment Available for Response

The following equipment, categorized by type, is maintained at the Site:

Fire/Safety

Portable Fire Extinguishers – located throughout Facility

First Aid Kits – located throughout the Facility

Spill Control/Cleanup

Spill kits (booms, pigs, pads, oil dry) – located inside a storage container in the Dryer Building.

Additional equipment may be on hand at the Facility.

5.0 EMERGENCY SPILL CONTROL NETWORK

5.1 Arrangements with Local Emergency Response Agencies and Hospitals

The following local emergency response agencies will be contacted to respond to emergencies at the Facility:

- Lookout Fire Company No. 1 – 911 or (610) 863-4121 (Non-Emergency)
- Pen Argyl Police Department – 911 or (610) 863-6704 (Non-Emergency)
- Easton Hospital – (610) 250-4000
- St. Luke's University Health Network – Easton (484) 503-3000
- Lehigh Valley Hospital – (610) 402-8000
- Pocono Medical Center – (570) 421-4000
- Northampton County Emergency Management Services – (610) 746-3194
- Rapid Response, Inc. – (877) 460-1038
- Lewis Environmental – (610) 495-6695

The Emergency Coordinator will serve as the Facility contact for these agencies during an emergency. Directions to emergency medical facilities are included in **Appendix E**.

5.2 Notification Lists

In the event of a spill or release, SBHRC will contact the agencies listed below:

- Pennsylvania Department of Environmental Protection (PADEP) -
Northeast Regional Office, Wilkes-Barre – (570) 826-2511
Bethlehem District Office – (610) 861-2070
Statewide Emergency Number – (800) 541-2050
- Northampton County Emergency Management Services – (610) 746-3194
- National Response Center – (800) 424-8802

In accordance with 25 Pa. Code §91.33, if because of an accident or other activity or incident a toxic substance or another substance which would endanger downstream users of the waters of the Commonwealth, would otherwise result in pollution or create a danger of the waters, or would damage property, is discharged into these waters – including sewers, drains, ditches or other channels of conveyance into the waters – or is placed so that it might discharge, flow, be washed or fall into them, SBHRC will immediately notify the Department by telephone of the location and nature of the danger and, if reasonably possible to do so, to notify known downstream users of the waters.

In accordance with the reporting requirements of 40 CFR §122.41(1), the permittee must give at least a 24-hour advanced notice to PADEP of any planned changes to the permitted activity or Facility that may result in noncompliance with permit requirements. In addition, the permittee shall also report noncompliance with any term or condition of the Permit, and any statute, rule or regulation, to PADEP within 24 hours of becoming aware of the noncompliance. Where oral notification of noncompliance is made, a written report outlining the same information must be completed, kept on file and submitted to PADEP upon request.

The following are important numbers to be used as required or directed by the aforementioned agencies:

- Lookout Fire Company No. 1 – 911 or (610) 863-4121 (Non-Emergency)
- Pen Argyl Police Department – 911 or (610) 863-6704 (Non-Emergency)
- USEPA – (800) 535-0202
- PA Emergency Management Agency – (800) 424-7362
- PA Boat and Fish Commission – (855) 347-4545
- OSHA – (800) 321-6742
- Chemtrec – (800) 424-9300

5.3 Downstream Notification Requirement for Storage Tanks

The Facility does not have aboveground storage tank containing regulated substances with a capacity of greater than 21,000 gallons. Therefore, the Facility is not subject to the Downstream Notification requirements.

6.0 STORMWATER POLLUTION PREVENTION PLAN (SPPP)

6.1 Stormwater Management Practices

The majority of the proposed project operations occur within a building and are not exposed to stormwater. Sediment Basin #2 will be modified in order to accommodate the proposed Facility. The basin is and will continue to function as a zero-discharge basin for up to and including the 100-year storm event. Stormwater runoff from the Site flows as sheet flow in a generally southeasterly direction into the permitted, existing, engineered, non-discharging stormwater collection pond (Sediment Basin #2). SBHRC will obtain an individual NPDES permit for site run-off to allow monitoring of run-off from site industrial activities.

6.2 Potential Pollutant Sources

6.2.1 Exposed Significant Materials

The unloading receiving unit will have a retractable cover that will be closed until a vehicle is on the tipping equipment to unload. The cover will then be opened, the truck is raised until the biosolids are discharged into the receiving unit. Then the cover will be closed. The truck pad will provide containment for the tailgate wash water and any spilled biosolids or product. Stormwater from this area will be managed as process wastewater, and conveyed to the storage tank prior to transportation to off-Site disposal.

Biosolid drying occurs within the Dryer Building and is not exposed to stormwater. The process wastewater storage tank will have a roof and be located within a containment tank.

Dry product will be stored in enclosed silos and are not exposed to stormwater. The silos will have roofs. Spillage during load out will be contained on the concrete pad and accumulated liquids will be managed as process wastewater.

6.2.2 Past Spills and Leaks

The Facility does not have a history of past spills or leaks.

6.2.3 Non-Stormwater Discharges

The proposed project plans to submit a National Pollutant Discharge Elimination System Application Individual Permit for Discharges of Stormwater Associated with Industrial Activity to PADEP under separate cover.

6.2.4 Stormwater Monitoring Data

All proposed project operations occur within a building and are not exposed to stormwater. Roof runoff, along with stormwater runoff, flows off-Site in a southeasterly direction as sheet flow. No representative stormwater outfall or data collection point currently exists at the Facility. After the Site improvements have been constructed, a drainage swale will be utilized for sampling runoff from the operations area.

The proposed project plans to submit a National Pollutant Discharge Elimination System Application (NPDES) for Individual Permit for Discharges Stormwater Associated with Industrial Activity to PADEP under separate cover; therefore, stormwater monitoring data is not currently recorded or maintained by the Facility. Required stormwater monitoring will be implemented upon issuance of individual permit to discharge stormwater associated with industrial activities.

6.2.5 Summary of Potential Pollutant Sources

All Facility activities occur within the Dryer Building and are not exposed to precipitation; however, the following items have been provided to be conservative:

Thermal fluid/Oil: Thermal fluid/oil is contained within the closed loop system. All system fill points will be located within the Dryer Building.

A spill of thermal fluid/oil during operations would be contained on the concrete floor of the Dryer Building. Sorbent material is available to contain a spill or leak of such fluids.

Sulfuric Acid: Sulfuric acid is stored in one (1) 5,000-gallon aboveground storage tank (AST) located adjacent to the Dryer Building with secondary containment (i.e., AST is double-walled).

The double-walled AST provides secondary containment for 110% of the tank's capacity.

Sodium Hydroxide: Sodium hydroxide is stored in one (1) 3,000-gallon aboveground storage tank (AST) located adjacent to the Dryer Building with secondary containment (i.e., AST is double-walled).

The double-walled AST provides secondary containment for 110% of the tank's capacity.

Sodium Hypochlorite: Sodium hypochlorite is stored in one (1) 5,000 gallon AST located adjacent to the Dryer Building, with secondary containment (i.e., AST is double-walled).

The double-walled AST provides secondary containment for 110% of the tank's capacity.

Process Wastewater Tank: Process wastewater is stored in one (1) 300,000-gallon aboveground storage tank (AST) located just south of the GKEDC. The tank will have a leak detection zone under the concrete floor. Secondary containment is provided along with leak detection pursuant to the PADEP residual waste storage regulations to mitigate the possibility of any spill.

The Site generates process wastewater from the condensing operation and air scrubbers, and wash water. Stormwater collected near the receiving unit is also collected and stored in the process wastewater storage tank. Liquid from the process wastewater storage tank is transported off-Site to an approved liquid waste disposal facility for disposal.

6.3 Best Management Practices (BMP's)

6.3.1 BMPs Applicable to SIC Code 4953

The Facility will follow the below BMPs for chemical material storage areas to be conservative:

1. Store drums, including empty or used drums, in secondary containment with a roof or cover (including temporary cover such as a tarp that prevents contact with precipitation).
2. Provide secondary containment with sufficient capacity to contain a spill (the greater of 10 percent of the total enclosed tank volume or 110 percent of the volume contained in the largest tank).
3. Locate material storage areas away from high traffic areas and surface waters.
4. Inspect storage tanks and piping systems (pipes, pumps, flanges, couplings, hoses, and valves) for failures or leaks and perform preventive maintenance.
5. Clearly label drums with their contents.
6. Maintain an inventory of fluids to identify leakage.
7. Properly dispose of chemicals that are no longer in use.
8. Store and handle liquids in compliance with applicable local fire codes, local zoning codes, and the National Electric Code.
9. Provide drip pads/pans where chemicals are transferred.
10. Have materials such as absorbent pads easily accessible to clean up spills.
11. Develop and implement a Contingency Plan.

12. Train employees in spill prevention and control and proper materials management.

6.3.2 Good Housekeeping

Every attempt will be made to maintain the storage areas in a neat and orderly fashion. Brooms are used to keep floors free of debris. Small spills are cleaned immediately by dry measures. Any equipment or machinery stored outside is kept clean, neat, and orderly. Walkways and entryways are kept free from obstructions. Trash is collected regularly on routine basis. Floors and ground surfaces will be kept clean to the greatest extent practical. Solid waste will be placed only in designated trash receptacles or dumpsters. Associates will be encouraged to maintain neat and orderly work areas.

6.3.3 Preventive Maintenance

Preventive maintenance involves the regular inspection and testing of equipment and operational systems. A system will be used to generate work orders and to track inspections and maintenance activities. These inspections are necessary to detect conditions, which could cause a breakdown or failure that may result in discharges of oil to the stormwater system.

6.3.4 Visual Inspections

Visual inspections are a means to ensure that all the elements of the stormwater pollution prevention plan are in place and working properly. They are intended to identify conditions which may potentially cause contamination of stormwater runoff.

Visual inspections of the Facility will be performed on a regular basis by an individual trained to identify stormwater problems. Areas to be inspected include the parking areas, loading/unloading areas, and any other areas identified as potential pollutant sources. These inspections will be documented and maintained with this Plan.

6.3.5 Spill Prevention and Response

Spill prevention and response includes practices to minimize the potential for stormwater pollution from spills and leaks. Spills and leaks can be one of the largest contributors of stormwater pollutants.

Areas with significant potential for spills and leaks include the loading and unloading areas, and any other area where products or wastes are stored. Associates working in these areas will be trained how to properly handle materials in order to minimize the

potential for spills and leaks. Associates will be trained in spill response procedures. Spill containment and cleanup equipment will be placed in readily accessible areas.

6.3.6 Sediment and Erosion Control

This BMP is covered in more detail in Section 9.0 of this Plan. Sediment and erosion control practices are designed to minimize soil erosion in areas which have a high potential for erosion due to activities, topography, or other factors. There are no areas at the Facility which have a high potential for erosion.

During any new construction activities, silt fences, tarps, berms, or other stabilization techniques must be used to minimize erosion. If the construction area is large enough, a separate approval may be required.

6.3.7 Management of Runoff

Stormwater runoff from the Site flows as sheet flow in a generally southerly direction into the proposed stormwater controls. Runoff from the Site will be monitored pursuant to the Site's NPDES permit and discharge into Sediment Basin #2, a non-discharging basin serving SBHRC, GKEDC, and GCSL.

6.3.8 Associate Training

Training covering all aspects of stormwater pollution prevention will be conducted on an annual basis. The training program will address proper practices required to minimize the potential for stormwater pollution. These practices include good housekeeping, spill prevention and response, preventive maintenance, and proper material handling and storage.

Training events will be documented and records will be maintained at the Facility with this Plan.

6.3.9 Recordkeeping and Reporting

Incidents and activities related to stormwater, which occur at the Facility, will be documented and maintained with this Plan. These incidents and activities include significant spills or leaks, inspections, maintenance activities and training sessions. Records must be maintained with the Plan for a minimum of three (3) years.

Records of significant spills or leaks should include the date and time of the incident, weather conditions, duration, cause, environmental problems, response procedures, parties notified, and any recommended revisions of procedures or equipment to prevent recurrence. Also any reports to the National Response Center for a reportable quantity spill should be documented.

Inspection reports should include a description of the areas inspected, problems that were noted, and recommendations for corrective actions. The reports should also include any field notes made during the inspection.

Maintenance records will include a description of the maintenance being performed and the purpose of the maintenance. If the maintenance is being performed as the result of a problem noted during an inspection, the report should discuss the success in correcting the problem and if additional work needs to be performed.

Records of stormwater training sessions should include the type of training, the topics discussed, and a list of attendees.

6.4 Annual Evaluation

All proposed project operations occur within a building and are not exposed to stormwater. Roof runoff, along with stormwater runoff, flow off-Site in a southeasterly direction as sheet flow. No representative stormwater outfall or data collection point currently exists at the Facility.

The proposed project plans to submit a National Pollutant Discharge Elimination System Application for Individual Permit for Discharge of Stormwater Associated with Industrial Activity to PADEP under separate cover; therefore, stormwater monitoring data is not currently recorded or maintained by the Facility. Required stormwater monitoring will be implemented upon issuance of individual permit to discharge stormwater associated with industrial activities.

7.0 FACILITY TANK CAR AND TANK TRUCK LOADING/UNLOADING RACK

The Facility does not have a loading/unloading rack; therefore, pursuant to guidance contained in the United States Environmental Protection Agency's SPCC Guidance for Regional Inspectors, Version 1.0, the requirements contained in 40 CFR Part 112.7(h) are not applicable.

8.0 BRITTLE FRACTURE EVALUATION REQUIREMENTS

The Facility does not have any field-constructed petroleum tanks on-Site; therefore, pursuant to guidance contained in the United States Environmental Protection Agency's SPCC Guidance for Regional Inspectors, Version 1.0, the requirements contained in 40 CFR Part 112.7(i) are not applicable.

9.0 SEDIMENT AND EROSION PREVENTION

Sediment and erosion control practices will be implemented in accordance with the Site's NPDES permit. Those controls will be in place during the construction of the proposed Facility and will be supplemented as depicted on the Erosion and Sediment Control Plan. Upon completion of construction, earth disturbance activities associated with the Facility will cease.

10.0 ADDITIONAL REQUIREMENTS FOR EPCRA SECTION 313 FACILITIES

Based on the Facility's North American Industry Classification System (NAICS) Code of 562219 and Standard Industrial Classification (SIC) Code of 4953, the Facility is an EPCRA 313 Facility, regulated under the Resource Conservation and Recovery Act (RCRA). The Facility will use sulfuric acid; however because the sulfuric acid will exist in an aqueous state (not an aerosol) it is exempt from EPCRA Section 313's additional requirements.

11.0 CERTIFICATION FOR NON-STORMWATER DISCHARGES

This form will be completed as required for the Facility covered by the Plan.

All stormwater discharges from this Site have been inspected for the presence of non-stormwater discharges. A description of the on-Site drainage points which were directly observed are detailed below.

Non-Stormwater Discharge Summary:

Date of Inspection: _____

Outfalls directly observed: _____

Methods used: _____

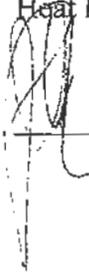
Results and Comments: _____

Person performing inspection: _____

If outfall was not observed, state reason:

Date of previous non-stormwater certification: _____

I hereby certify that there are no unauthorized non-stormwater discharges from the Slate Belt Heat Recovery Center, LLC Facility.

| | | |
|---|---|------------------------------------|
|  _____ Signature and Title | <u>VP-ENGINEERING</u> _____ Date Observed | <u>N/A</u> _____ Date Signed |
| _____ Signature and Title | _____ Date Observed | _____ Date Signed |

12.0 SIGNATORY REQUIREMENTS

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



Signature and Title

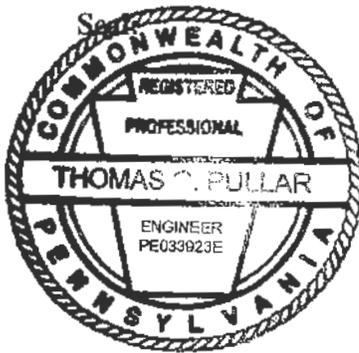
VP-ENVIRONMENTAL

Date

13.0 PLAN CERTIFICATION

CERTIFICATION

The undersigned hereby attests that the provisions of 40 CFR, Part 112 are understood, the Facility discussed herein has been examined, that this Plan has been prepared in accordance with good engineering practices including consideration of applicable industry standards, that procedures for required inspections and testing have been established, and that the Plan is adequate for the Facility.



THOMAS G. PULLAR
Printed Name of Registered Professional Engineer

Thomas G. Pullar
Signature of Registered Professional Engineer

Date: 03/14/2018

Registration No.: PE033923E State: PA

This certification in no way relieves the owner or operator of the Facility of their duty to fully implement this Plan in accordance with the regulations.

MANAGEMENT APPROVAL

This Plan has the full approval of management and the necessary resources to implement the Plan will be made available. This Plan will be fully implemented as herein described.

Signature [Handwritten Signature]
Name John P. Goodwin
Title VP - ENGINEERING
Date 3/13/2018

CERTIFICATION of the APPLICABILITY of the SUBSTANTIAL HARM CRITERIA

Does the facility transfer oil over-water to or from vessels and does the facility have a total oil storage capacity greater than or equal to 42,000 gallons?

Yes _____ No X

Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and, within any storage area, does the facility lack secondary containment that is sufficiently large to contain the capacity of the largest aboveground oil storage tank plus sufficient freeboard to allow for precipitation?

Yes _____ No X

Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and is the facility located at a distance (as calculated using the appropriate formula in Appendix C of 40 CFR 112.20 or a comparable formula) such that the discharge from the facility could cause injury to fish and wildlife and sensitive environments?

Yes _____ No X

Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and is the facility located at a distance (as calculated using the appropriate formula in Appendix C of 40 CFR 112.20 or a comparable formula) such that the discharge from the facility would shut down a public drinking water intake?

Yes _____ No X

Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and has the facility experienced a reportable oil spill in an amount greater than or equal to 10,000 gallons within the last 5 years?

Yes _____ No X

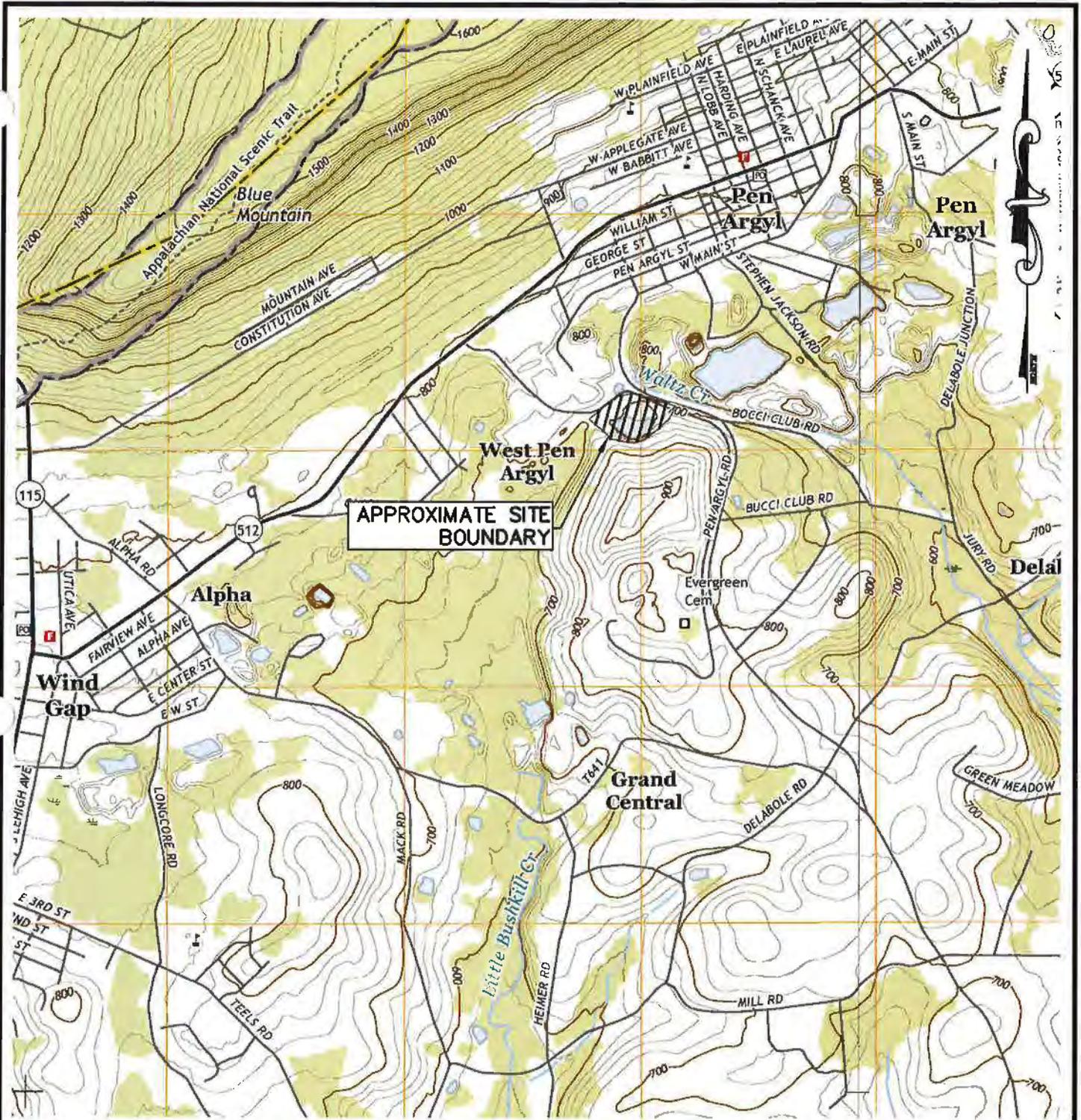
Certification:

“I certify under penalty of law that I have personally examined and am familiar with the information submitted above, and that based on my inquiry of those individuals responsible for obtaining information, I believe that the submitted information is true, accurate, and complete.”

| | |
|---|--|
| <p><i>Name (Type or print)</i></p> <p>Thomas G. Pullar, P.E.</p> | <p><i>Title</i></p> <p>Senior Project Manager EarthRes Group, Inc.</p> |
| <p><i>Signature</i></p>  | <p><i>Date</i></p> <p>03/14/2018</p> |

FIGURE 1

Site Location Map



LEGEND

- SCHOOL
- FIRE STATION
- CEMETERY
- POST OFFICE

SOURCE: USGS 7.5 MINUTE QUADRANGLE - WIND GAP AND BANGOR, PA



P.O. Box 468
 6912 Old Eastern Road
 Pigersville, PA 18947 USA
 12241 Pinewind Drive
 Mcगतown, WV 26505
 www.earthres.com
 PA office 215.766.1211
 WV office 304.212.8866
 toll free 800.264.4553

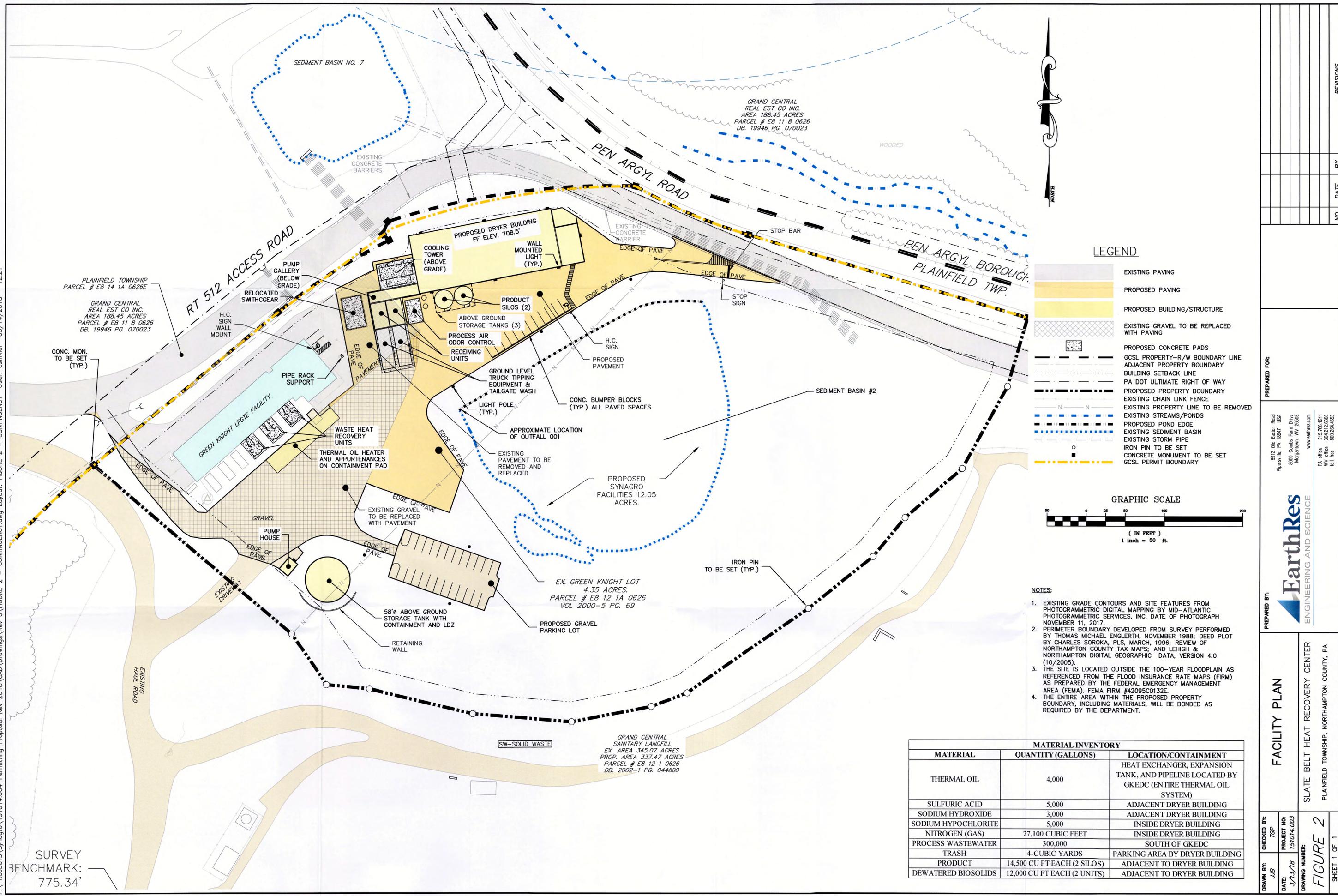
| | |
|------------------------------|---------------------------|
| DRAWN BY: SP | CHECKED BY: TGP |
| DATE: 03/06/2018 | PROJECT NO: 151014.003 |
| DRAWING SCALE: 1" = 2000' | |

FIGURE 1
SITE LOCATION MAP

SLATE BELT HEAT RECOVERY CENTER
 PLAINFIELD TOWNSHIP, NORTHAMPTON COUNTY
 PENNSYLVANIA

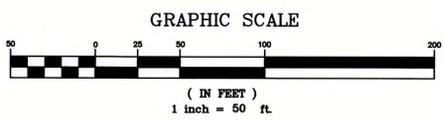
FIGURE 2
Facility Plan

F:\PROJECTS\Synagro\151014.004 Permitting Proposal Rev 2018\CAD Drawings\Rev 0\FIGURE 2 - CONTINGENCY.dwg Layout: FIGURE 2 - CONTINGENCY User: csnikler 03/14/2018 12:21



LEGEND

- EXISTING PAVING
- PROPOSED PAVING
- PROPOSED BUILDING/STRUCTURE
- EXISTING GRAVEL TO BE REPLACED WITH PAVING
- PROPOSED CONCRETE PADS
- GCSL PROPERTY-R/W BOUNDARY LINE
- ADJACENT PROPERTY BOUNDARY
- BUILDING SETBACK LINE
- PA DOT ULTIMATE RIGHT OF WAY
- PROPOSED PROPERTY BOUNDARY
- EXISTING CHAIN LINK FENCE
- EXISTING PROPERTY LINE TO BE REMOVED
- EXISTING STREAMS/PONDS
- PROPOSED POND EDGE
- EXISTING SEDIMENT BASIN
- EXISTING STORM PIPE
- IRON PIN TO BE SET
- CONCRETE MONUMENT TO BE SET
- GCSL PERMIT BOUNDARY



NOTES:

1. EXISTING GRADE CONTOURS AND SITE FEATURES FROM PHOTOGRAMMETRIC DIGITAL MAPPING BY MID-ATLANTIC PHOTOGRAMMETRIC SERVICES, INC. DATE OF PHOTOGRAPH NOVEMBER 11, 2017.
2. PERIMETER BOUNDARY DEVELOPED FROM SURVEY PERFORMED BY THOMAS MICHAEL ENGLERTH, NOVEMBER 1988; DEED PLOT BY CHARLES SOROKA, PLS, MARCH, 1996; REVIEW OF NORTHAMPTON COUNTY TAX MAPS; AND LEHIGH & NORTHAMPTON DIGITAL GEOGRAPHIC DATA, VERSION 4.0 (10/2005).
3. THE SITE IS LOCATED OUTSIDE THE 100-YEAR FLOODPLAIN AS REFERENCED FROM THE FLOOD INSURANCE RATE MAPS (FIRM) AS PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AREA (FEMA). FEMA FIRM #42095C0132E.
4. THE ENTIRE AREA WITHIN THE PROPOSED PROPERTY BOUNDARY, INCLUDING MATERIALS, WILL BE BONDED AS REQUIRED BY THE DEPARTMENT.

| MATERIAL INVENTORY | | |
|---------------------|-----------------------------|---|
| MATERIAL | QUANTITY (GALLONS) | LOCATION/CONTAINMENT |
| THERMAL OIL | 4,000 | HEAT EXCHANGER, EXPANSION TANK, AND PIPELINE LOCATED BY GKEDC (ENTIRE THERMAL OIL SYSTEM) |
| SULFURIC ACID | 5,000 | ADJACENT DRYER BUILDING |
| SODIUM HYDROXIDE | 3,000 | ADJACENT DRYER BUILDING |
| SODIUM HYPOCHLORITE | 5,000 | INSIDE DRYER BUILDING |
| NITROGEN (GAS) | 27,100 CUBIC FEET | INSIDE DRYER BUILDING |
| PROCESS WASTEWATER | 300,000 | SOUTH OF GKEDC |
| TRASH | 4-CUBIC YARDS | PARKING AREA BY DRYER BUILDING |
| PRODUCT | 14,500 CU FT EACH (2 SILOS) | ADJACENT TO DRYER BUILDING |
| DEWATERED BIOSOLIDS | 12,000 CU FT EACH (2 UNITS) | ADJACENT TO DRYER BUILDING |

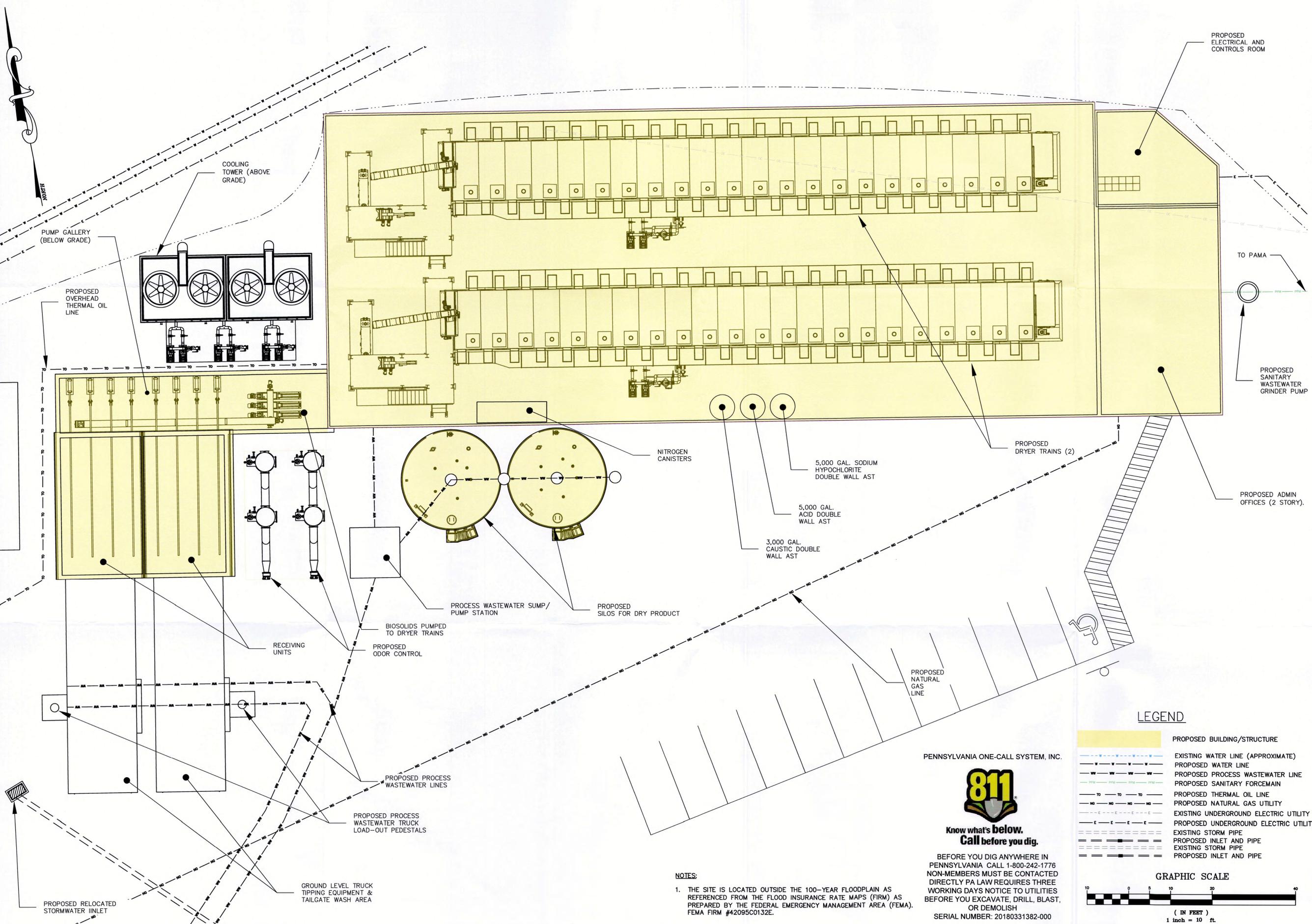
| <p>PREPARED FOR:</p> <p>6912 Old Easton Road Pipersville, PA 18847 USA 8000 Concho Farm Drive Morgantown, WV 25008 www.eartHres.com</p> <p>PA office: 215.768.1211 WV office: 304.212.8866 cell: 800.264.4553</p> | <p>REVISIONS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table> | NO. | DATE | BY | | | | | | | | | |
|---|---|-----|------|----|--|--|--|--|--|--|--|--|--|
| NO. | DATE | BY | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| <p>EarthRes ENGINEERING AND SCIENCE</p> | | | | | | | | | | | | | |
| <p>FACILITY PLAN</p> | | | | | | | | | | | | | |
| <p>SLATE BELT HEAT RECOVERY CENTER PLAINFIELD TOWNSHIP, NORTHAMPTON COUNTY, PA</p> | | | | | | | | | | | | | |
| <p>DRAWN BY: JUB CHECKED BY: TGP</p> | <p>PROJECT NO.: 151014.003 DATE: 3/13/18</p> | | | | | | | | | | | | |
| <p>DRAWING NUMBER: FIGURE 2</p> | | | | | | | | | | | | | |
| <p>SHEET 1 OF 1</p> | | | | | | | | | | | | | |

SURVEY BENCHMARK: 775.34'

FIGURE 3

Facility Floor Plan

F:\PROJECTS\Synagro\151014.004 Permitting Proposal Rev 2018\CAD\Drawings\Rev 0\GP (3) AND NPDES (2+3) FACILITY PLANS.dwg Layout: CONTINGENCY - FIGURE 3 User: jBernard 03/14/2018 10:40



NOTES:
 1. THE SITE IS LOCATED OUTSIDE THE 100-YEAR FLOODPLAIN AS REFERENCED FROM THE FLOOD INSURANCE RATE MAPS (FIRM) AS PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AREA (FEMA), FEMA FIRM #42095C0132E.

PENNSYLVANIA ONE-CALL SYSTEM, INC.

**Know what's below.
Call before you dig.**

BEFORE YOU DIG ANYWHERE IN PENNSYLVANIA CALL 1-800-242-1776
 NON-MEMBERS MUST BE CONTACTED DIRECTLY PA LAW REQUIRES THREE WORKING DAYS NOTICE TO UTILITIES BEFORE YOU EXCAVATE, DRILL, BLAST, OR DEMOLISH
 SERIAL NUMBER: 20180331382-000

LEGEND

| | |
|--|---------------------------------------|
| | PROPOSED BUILDING/STRUCTURE |
| | EXISTING WATER LINE (APPROXIMATE) |
| | PROPOSED WATER LINE |
| | PROPOSED PROCESS WASTEWATER LINE |
| | PROPOSED SANITARY FORCEMAIN |
| | PROPOSED THERMAL OIL LINE |
| | PROPOSED NATURAL GAS UTILITY |
| | EXISTING UNDERGROUND ELECTRIC UTILITY |
| | PROPOSED UNDERGROUND ELECTRIC UTILITY |
| | EXISTING STORM PIPE |
| | PROPOSED INLET AND PIPE |
| | EXISTING STORM PIPE |
| | PROPOSED INLET AND PIPE |

GRAPHIC SCALE
 (IN FEET)
 1 inch = 10 ft.

| | | | | | | | | |
|------------------|--------------------|------------------|---------------------------|------------------------------------|--------------|---|--|--|
| DRAWN BY: JUB | CHECKED BY: TGP | DATE: 3/12/18 | PROJECT NO: 151014.003 | DRAWING NUMBER: FIGURE 3 | SHEET 1 OF 1 | PREPARED FOR: SLATE BELT HEAT RECOVERY CENTER, LLC | PREPARED BY: EarthRes ENGINEERING AND SCIENCE | P.O. Box 468 6912 Old Estlin Road Pittsville, PA 16847 USA P.O. Box 794 Morgantown, WV 26505 www.earthres.com PA office 215.766.1211 WV office 304.272.8866 toll free 800.294.4553 |
| | | | | | | | | |

APPENDIX A

Substantial Harm Criteria Certification

SUBSTANTIAL HARM CRITERIA CERTIFICATION

Under the requirements of the Oil Pollution Act of 1990 (40 CFR 112.20), facilities that pose a risk of causing substantial or significant and substantial harm to the environment from an oil spill are required to prepare facility response plans. A copy of the completed "Certification of the Applicability of the Substantial Harm Criteria", which dictates whether or not a facility response plan is needed, must be kept with the SPCC Plan. If a facility meets one of the two following substantial harm criteria, they are required to develop and submit a facility response plan:

- Transfers oil over water to or from vessels and has a total oil storage capacity greater than 42,000 gallons; or
- The facility's total oil storage capacity is greater than 1 million gallons and also:
 - Lacks secondary containment adequate for the largest tank in each containment;
 - Is in close proximity to a sensitive waterway or public drinking water system; or
 - Has spilled more than 10,000 gallons within the past 5 years.

Facilities that do not meet either criteria and therefore are not required to submit a facility response plan must keep a signed certification in their SPCC plan indicating that the substantial harm criteria has not been met.

The Slate Belt Heat Recovery Center does not meet either substantial harm criteria and therefore does not require a facility response plan. Consequently, the Facility has provided the completed "Certification of the Applicability of the Substantial Harm Criteria" form on the following page.

CERTIFICATION of the APPLICABILITY of the SUBSTANTIAL HARM CRITERIA

Does the facility transfer oil over-water to or from vessels and does the facility have a total oil storage capacity greater than or equal to 42,000 gallons?

Yes _____ No X

Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and, within any storage area, does the facility lack secondary containment that is sufficiently large to contain the capacity of the largest aboveground oil storage tank plus sufficient freeboard to allow for precipitation?

Yes _____ No X

Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and is the facility located at a distance (as calculated using the appropriate formula in Appendix C of 40 CFR 112.20 or a comparable formula) such that the discharge from the facility could cause injury to fish and wildlife and sensitive environments?

Yes _____ No X

Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and is the facility located at a distance (as calculated using the appropriate formula in Appendix C of 40 CFR 112.20 or a comparable formula) such that the discharge from the facility would shut down a public drinking water intake?

Yes _____ No X

Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and has the facility experienced a reportable oil spill in an amount greater than or equal to 10,000 gallons within the last 5 years?

Yes _____ No X

Certification:

“I certify under penalty of law that I have personally examined and am familiar with the information submitted above, and that based on my inquiry of those individuals responsible for obtaining information, I believe that the submitted information is true, accurate, and complete.”

| | |
|---|--|
| <i>Name (Type or print)</i> Thomas G. Pullar, P.E. | <i>Title</i> Senior Project Manager EarthRes Group, Inc. |
| <i>Signature</i>  | <i>Date</i> 03/14/2018 |

APPENDIX B

PPC and SPCC Cross-Reference

PPC and SPCC Cross-Reference

| Final SPCC Rule | Old SPCC Rule | Description of Section | Section |
|---------------------------|----------------|--|--|
| § 112.7 | § 112.7 | General requirements for SPCC Plans for all facilities and all oil types. | Introduction |
| § 112.7(a) | § 112.7 | Facility Physical Layout and Description | 1.1 – 1.4 |
| | | Oil Storage Inventory | 1.3 |
| | | Discharge Prevention | 3.0 |
| | | Discharge/Drainage Control | 3.1 |
| | | Countermeasures | 4.0 |
| | | Methods of Disposal | 4.2 |
| | | Contact Lists | 2.1, 2.2, 2.4, 4.2, 4.3, 4.5, 5.1, 5.2 |
| § 112.7(b) | § 112.7(b) | Fault analysis. | 3.1 |
| § 112.7(c) | § 112.7(c) | Secondary containment. | 3.1, 6.2.5 |
| § 112.7(d) | § 112.7(d) | Contingency planning. | 3.0 |
| § 112.7(e) | § 112.7(e)(8) | Inspections, tests, and records. | 3.3, 6.2.4, 6.3.4, 6.4 |
| § 112.7(f) | § 112.7(e)(10) | Personnel, training, and discharge prevention procedures. | 3.8, 6.3.8 |
| § 112.7(g) | § 112.7(e)(9) | Security (excluding oil production facilities). | 3.6 |
| § 112.7(h) | § 112.7(e)(4) | Facility tank car and tank truck loading/unloading rack (excluding offshore facilities). | 7.0 |
| § 112.7(i) | n/a | Brittle fracture evaluation requirements. | 8.0 |
| § 112.7(j) | § 112.7(e) | Conformance with state requirements. | Introduction |
| § 112.8(a) § 112.12(a) | n/a | General and specific requirements. | Introduction |
| § 112.8(b) § 112.12(b) | § 112.7(e)(1) | Facility drainage. | 6.1, 6.2.4, 6.3.7, 6.4 |
| § 112.8(c) § 112.12(c) | § 112.7(e)(2) | Bulk storage containers. | 3.1, 3.2, 3.3, 6.2.5 |
| § 112.8(d) § 112.12(d) | § 112.7(e)(3) | Facility transfer operations, pumping, and facility process. | 3.9 |

APPENDIX C

**Aboveground Storage Tanks Maintenance/Operation Monthly
Checklist**

**ABOVEGROUND STORAGE TANKS MAINTENANCE / OPERATION
MONTHLY CHECKLIST**

Facility Name: _____

ITEM

SYMBOL

REFERENCE

(Identify Tank & Required Action)

I. Visual Check for Deterioration

| | | | |
|--|---|---|--|
| Condition of tank exterior | A | U | |
| Condition of aboveground piping | A | U | |
| Condition of foundations and supports | A | U | |
| Condition of containment structures | A | U | |
| Condition of hoses, connections, clamps, & conduit seals | A | U | |
| Condition of pumps | A | U | |

II.

Containment Areas

| | | | |
|---|---|---|--|
| Level of standing water in containment | A | U | |
| Drain Valves secured in a closed position | Y | N | |
| Debris or fire hazard in containment | Y | N | |

III. Leak Detection System

| | | | |
|---|---|---|--|
| Leak detection system monitored | Y | N | |
| Regulated Substance in containment area | Y | N | |
| Evidence of release from tank | Y | N | |
| Evidence of release from ancillary equipment including piping | Y | N | |

IV. Ancillary Equipment

| | | | |
|--|---|---|--|
| Overfill prevention device functioning properly (if installed) | Y | N | |
| Valves functioning properly | Y | N | |
| Vents clear of restrictions | Y | N | |
| Gauge or monitoring device functioning properly (if installed) | Y | N | |
| Hoses are free of cuts, tears, blisters, etc. | Y | N | |

V. Safety Precautions

| | | | |
|--|---|---|--|
| Safety equipment in place and operative (including spill kits) | Y | N | |
| Fire extinguishers in place | Y | N | |
| Safety precautions posted | Y | N | |
| Tank system secured to prevent vandalism and unauthorized use | Y | N | |
| Electrical connections & groundings are tight and maintained | Y | N | |

Facility I.D.# _____ Inspection Completed By: _____ Date: _____

Comments: _____

SYMBOLS: Y-Yes, N-NO, A-Acceptable, U-Unacceptable
 File original form on site with SPCC Plan. This form may be copied as needed.

APPENDIX D

**Drum and Small Container Storage and Handling Monthly Checklist
Form**

Drum & Small Container Storage and Handling Monthly Checklist Form

Facility: _____

Inspector: _____

| Item to Inspect | Acceptable | Unacceptable | Corrective Action |
|---|------------|--------------|-------------------|
| Storage/work areas are free of spills/leaks | _____ | _____ | _____ |
| Containers not leaking, rusted, or deteriorated | _____ | _____ | _____ |
| Containers have closed lids or bung holes | _____ | _____ | _____ |
| Incompatible materials are not stored together | _____ | _____ | _____ |
| Containers are stored on impermeable surface with adequate space to inspect container | _____ | _____ | _____ |
| Drip pans are used under spigots and free of liquid | _____ | _____ | _____ |
| Spigots, pumps, hoses, valves are not leaking | _____ | _____ | _____ |
| Containment areas are free of debris and liquid accumulations | _____ | _____ | _____ |
| Containment/drainage structures are intact, with no cracks, breaches | _____ | _____ | _____ |
| Emergency equipment is operational, complete | _____ | _____ | _____ |
| Storage/handling equipment is properly used, in good condition | _____ | _____ | _____ |
| Clean/orderly areas, adequate aisle space | _____ | _____ | _____ |
| Containers are labeled | _____ | _____ | _____ |

INSPECTOR SIGNATURE

DATE

SUPERVISOR SIGNATURE

DATE

File original form on site with SPCC Plan. This form may be copied as needed.

APPENDIX E

Directions to Emergency Medical Facilities

DIRECTIONS TO MEDICAL FACILITIES

Medical:

Easton Hospital
250 South 21st Street
Easton, PA 18042-3892

(610) 250-4204

Directions:

Head southwest on PA-512 S toward Speer Avenue (1.8 mi). Turn left onto PA-512 S/N Broadway (1.1 mi). Continue straight onto PA-512 S (0.2 mi). Use the right lane to merge onto PA-33 S via the ramp to Easton/Bethlehem (0.2 mi). Merge onto PA-33 S (11.3 mi). Take the exit onto US-22 E toward Easton (2.3 mi). Take the 25th Street exit toward PA-248/Wilson (0.2 mi). Continue onto Wood Avenue (0.2 mi). Turn right onto Northampton Street (0.2 mi). Slight right onto Ferry Street (0.2 mi). Turn right onto S 22nd Street (0.2 mi). Turn left onto Lehigh Street (0.1 mi). Turn left onto S 21st Street (69 ft). The destination, Easton Hospital, will be on the left.



DIRECTIONS TO MEDICAL FACILITIES (CONT.)

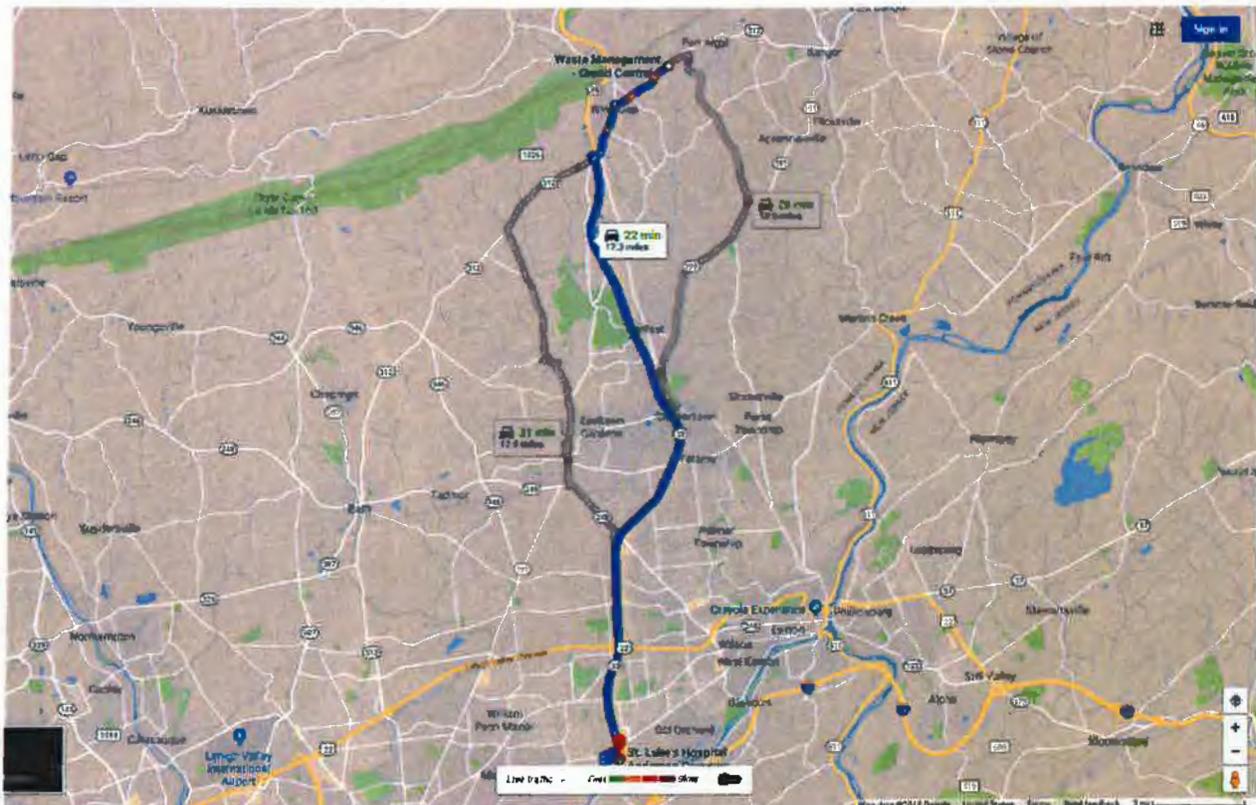
Medical:

St. Luke's Hospital – Anderson Campus
1872 St Luke's Blvd
Easton, PA 18045

(484) 503-3000

Directions:

Head southwest on PA-512 S toward Speer Avenue (1.8 mi). Turn left onto PA-512 S/N Broadway (1.1 mi). Continue straight onto PA-512 S (0.2 mi). Use the right lane to merge onto PA-33 S via the ramp to Easton/Bethlehem (0.2 mi). Follow PA-33 S to Freemansburg Ave in Bethlehem Township. Take the Freemansburg Ave exit from PA-33 S. Continued on Freemansburg Ave. Take Star Dr. to St Luke's Blvd.



DIRECTIONS TO MEDICAL FACILITIES (CONT.)

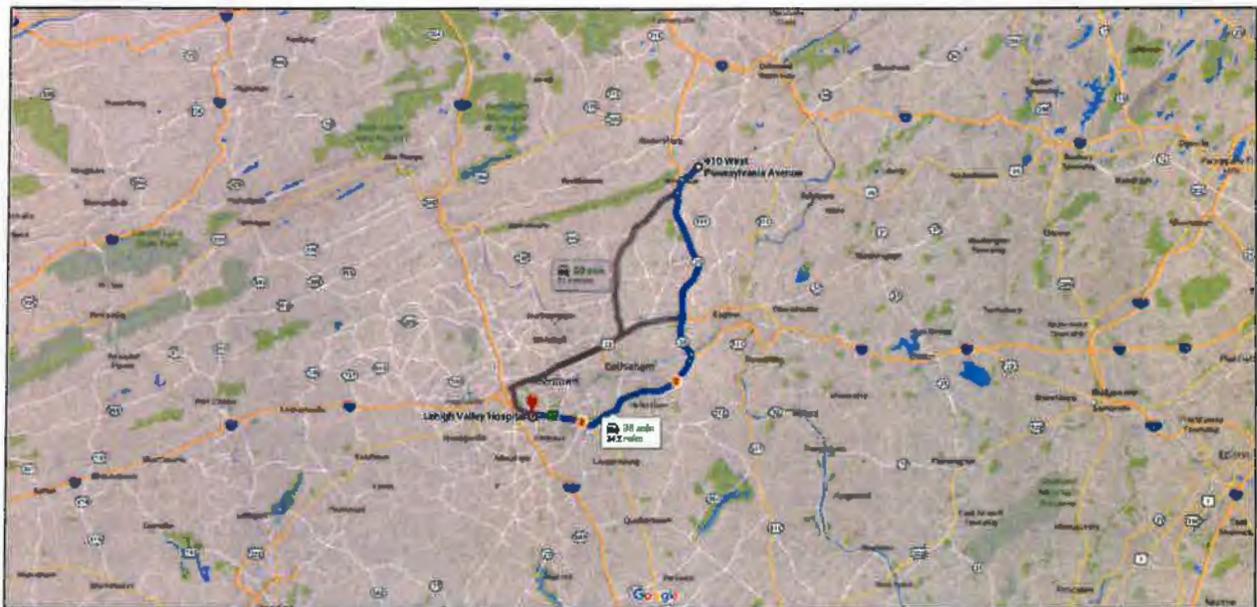
Medical:

Lehigh Valley Hospital
1200 South Cedar Crest Boulevard
Allentown, PA 18103

(610) 402-2273

Directions:

Head southwest on PA-512 S toward Speer Avenue (1.8 mi). Turn left onto PA-512 S/N Broadway (1.1 mi). Continue straight onto PA-512 S (0.2 mi). Use the right lane to merge onto PA-33 S via the ramp to Easton/Bethlehem (0.2 mi). Merge onto PA-33 S (14.6 mi). Use any lane to take the Interstate 78 W exit toward Allentown/Harrisburg (0.6 mi). Merge onto I-78 W (14.8 mi). Take exit 55 for PA-29/Cedar Crest Boulevard (0.3 mi). Turn left onto s Cedar Crest Boulevard (signs for Emmaus/PA-29 S) (0.3 mi). Turn right (0.1 mi). Turn left (0.2 mi). The destination, Lehigh Valley Hospital, will be on the right.



DIRECTIONS TO MEDICAL FACILITIES (CONT.)

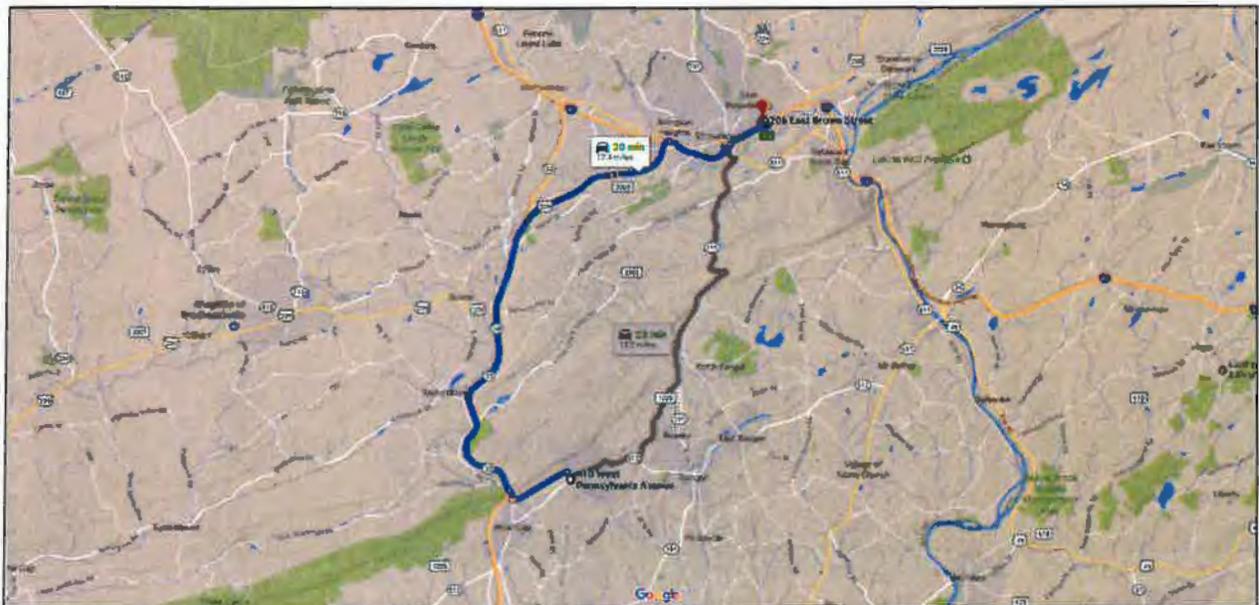
Medical:

Pocono Medical Center
206 East Brown Street
East Stroudsburg, PA 18301

(570) 421-4000

Directions:

Head southwest on PA-512 S toward Speer Avenue (59 ft). Turn right onto Speer Avenue (0.2 mi). Turn left onto Constitution Avenue (1.5 mi). Turn right onto N Broadway (0.3 mi). Slight right to merge onto PA-33 N (0.2 mi). Merge onto PA-33 N (5.6 mi). Continue onto PA-33 N/US-209 N (2.1 mi). Keep right to stay on US-209 N, follow signs for I-80 E/Stroudsburg (4.2 mi). Merge onto I-80 E/US-209 N (2.8 mi). Take exit 308 toward Stroudsburg (0.3 mi). Turn right onto Prospect Street (0.2 mi). Turn right onto E Brown Street (0.1 mi). The destination, Pocono Medical Center, will be on the left.



APPENDIX F

Forms, Reports and Correspondence

APPENDIX G

Standard Operating Procedures

*To be added upon completion of Facility Construction

APPENDIX H

Safety Data Sheets

*To be added upon completion of Facility Construction