



OHIO E.P.A.

AUG - 6 2013

John R. Kasich, Governor
Mary Taylor, Lt. Governor
Scott J. Nally, Director

August 6, 2013

Ohio Valley Electric Corporation
Attn: Mr. David E. Jones
P.O. Box 468
Piketon, OH 45661

Re: Permit for Land Application Management Plan to Use FGD Gypsum as an Agricultural Soil Amendment

Application Received: January 24, 2013

Issuance Date: August 6, 2013

Effective Date: August 6, 2013

Expiration Date: August 5, 2018

I certify this to be a true and accurate copy of the official documents as filed in the records of the Ohio Environmental Protection Agency.

By: John R. Kasich Date: 8-6-13

Dear Mr. Jones:

The Ohio Environmental Protection Agency (Ohio EPA) has reviewed the land application management plan (LAMP) permit application dated January 24, 2013 (OVEC Application) submitted by Ohio Valley Electric Corporation (OVEC) pursuant to Chapter 6111 of the Ohio Revised Code (ORC) for the proposed beneficial use of flue gas desulfurization (FGD) gypsum generated by OVEC Kyger Creek Station in Cheshire, Ohio (Facility). The submitted LAMP permit application proposes to beneficially use FGD gypsum, which consists of calcium sulfate dehydrate from flue gas desulfurization, as an agricultural soil amendment that will be applied directly to agricultural lands in the state of Ohio.

Pursuant to the authority of the Director of Ohio EPA (Director) under ORC Chapter 6111, the LAMP permit application for OVEC dated January 24, 2013 is approved subject to compliance with all of the conditions below. Further, pursuant to ORC Section 3734.02(G), the director hereby exempts OVEC and any recipient of FGD gypsum under this LAMP permit from the applicable solid waste provisions of ORC Chapter 3734 and rules adopted thereunder specific to the land application of FGD gypsum as authorized in this LAMP permit. The director has determined that granting an exemption from the applicable solid waste provisions of ORC Chapter 3734 to use FGD gypsum, in the quantities and under the circumstances specifically authorized in this LAMP permit, is unlikely to adversely affect the public health or safety or the environment.

CONDITIONS

1. The OVEC LAMP permit is approved for the beneficial use of FGD gypsum generated by the Facility as an agricultural soil amendment to serve as a source of calcium and sulfur in accordance with the LAMP submitted on January 24, 2013, which is attached and incorporated herein. All other beneficial uses must be separately approved by Ohio EPA. Only FGD gypsum from OVEC, as identified in this LAMP, is eligible for beneficial use under this permit.
2. The Director, or his authorized representative(s), may enter upon the Facility at any reasonable time for the purpose of conducting inspections, collecting samples of FGD gypsum, conducting tests, or examining records or reports pertaining to the generation or beneficial use of FGD gypsum from OVEC as an agricultural soil amendment.
3. Issuance of this LAMP permit does not relieve OVEC of the duty to comply with all applicable federal, state, and local laws, ordinances, and regulations.
4. OVEC shall notify Ohio EPA if OVEC anticipates substantial change in, or does substantially change, the generating process or the raw materials used in the generating process of the FGD gypsum. This LAMP permit does not authorize beneficial use of FGD gypsum generated by the substantially changed process or raw materials unless authorized by Ohio EPA based on review of characterization data of FGD gypsum generated under the changed process or raw materials. Under such circumstances, the Director may request that OVEC submit a revised LAMP permit application for approval. For the purposes of this LAMP permit, a substantial change in the raw materials is a change to a lower quality fuel or a lower quality limestone which results in FGD gypsum with additional pollutants or a higher concentration of pollutants.
5. The following shall be maintained by OVEC for a minimum of five years after the beneficial use of the FGD gypsum and made available to Ohio EPA upon request:
 - a. Records of the annual volume of FGD gypsum that is beneficially used;
 - b. Records identifying the recipients or distributors of FGD gypsum and the volume provided to each recipient or distributor during the previous year;
 - c. A sampling plan detailing where samples of FGD gypsum are to be collected, how those samples are to be collected, how frequently those samples are to be collected, and a list of parameters that are used to characterize the samples, as required in Conditions 6 through 9;
 - d. All laboratory reports of all characterizations of the FGD gypsum;

6. OVEC shall collect and analyze at least one sample per year of the FGD gypsum intended for beneficial use and OVEC shall collect and analyze additional samples if there are substantial changes in the generation process or the raw materials used.
 - a. The samples collected shall be representative of the FGD gypsum beneficially used for the calendar year.
 - b. OVEC shall have the sample(s) analyzed for the pollutants listed in the table in Condition 7.
 - c. The reported detection limit for the analysis shall be below the limit specified for each pollutant in the table in Condition 7.
 - d. OVEC shall employ analytical methods that generate pollutant results in units consistent with the units in the table in Condition 7.

7. At a minimum, the FGD gypsum intended for beneficial use shall be analyzed for the pollutants specified in the following table. OVEC shall not designate, make available, or distribute for beneficial use any FGD gypsum that exceeds any pollutant(s) specified in the following table.

Leaching Limits	
Pollutant	Beneficial Use Limit (mg/L)
Arsenic	0.20
Cadmium	0.10
Copper	26
Lead	0.30
Mercury	0.040
Molybdenum	4.0
Nickel	14
Selenium	1.0
Zinc	200
Barium	40
Beryllium	0.080
Chromium, Total	2.0
Thallium	0.040
Boron	140
Fluoride	80

8. Ohio EPA reserves the right to add pollutants to this list as it deems necessary.

9. OVEC shall analyze the FGD gypsum for the parameters necessary for users to determine the appropriate maximum agronomic application rate as determined

by a qualified agronomist and/or soil test analysis. The maximum agronomic application rate shall not exceed the rate specified in the approved LAMP permit or the Ohio State University Extension Bulletin 945, titled "Gypsum as an Agricultural Amendment, General Use Guidelines."

10. Each year, concurrent to submittal of the annual report required by OAC Chapter 3745-30, OVEC shall submit a report regarding the beneficial use of the FGD gypsum for the previous calendar year. The annual report shall include the total amount, in tons, of FGD gypsum sold or distributed for beneficial use and the analytical results for any analysis(es) performed pursuant to Condition 6.
11. OVEC shall include in the annual report required in Condition 10 the following:

"I certify, under penalty of law, that the information used to determine compliance with the requirements contained in Chapters 3734. and 6111. of the Ohio Revised Code, and all rules thereunder, for the period beginning (insert date of last certification statement) and ending (insert current certification statement date) was prepared under my direction and supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate this information. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment."

12. The certification statement shall be signed by one of the following persons: In the case of a corporation, by a principal executive officer of at least the level of vice president or the principal executive officer's duly authorized representative, if such representative is responsible for the overall operation of the facility. In the case of a partnership, a general partner. In the case of a sole proprietorship, the proprietor. The signature shall constitute personal affirmation that all statements or assertions of fact in the records are true and complete and comply fully with applicable state requirements and shall subject the signatory to liability under ORC Section 2921.13.
13. The annual report shall be sent to the following address:

Ohio EPA
Division of Materials & Waste Management - AAEU
P.O. Box 1049
Columbus, OH 43216-1049

14. Storage and beneficial use of the FGD gypsum shall not create a nuisance and shall not adversely affect public health or safety or the environment. Should a nuisance condition develop, or a determination be made by Ohio EPA that storage or land application of FGD gypsum is a threat to public health or safety or

the environment, this LAMP permit to beneficially use the FGD gypsum may be revoked upon written notification from the Director. Immediately upon the effective date of any such revocation, OVEC shall cease distribution of the FGD gypsum for beneficial use under this LAMP permit. Furthermore, storage or beneficial use of FGD gypsum that creates a nuisance or adversely affects public health or safety or the environment may subject OVEC and/or the user to enforcement by Ohio EPA.

15. OVEC shall notify Ohio EPA in writing not later than seven days after discovering noncompliance with this LAMP permit.
16. OVEC shall supply distributors and end users with a copy of this LAMP permit approval, including Attachment I, the “Synthetic Gypsum User Information Sheet” from OVEC’s LAMP permit application.
17. The Director may add, delete, or change any conditions of this LAMP permit to protect public health or safety or the environment.
18. This permit to beneficially use FGD gypsum shall expire at midnight on the expiration date shown above. In order to renew the permit to beneficially use FGD gypsum beyond the above date of expiration, OVEC shall submit such information and forms as are required by Ohio EPA not later than 90 days prior to the above date of expiration.

The FGD gypsum shall be beneficially used in strict accordance with the conditions of this LAMP permit and as outlined in the permit application submitted for this approval to the Director. Approval of this LAMP permit does not constitute an assurance that use of the FGD gypsum in accordance with the approved LAMP permit will be in compliance with all Ohio laws and regulations.

You are hereby notified that this action of the Director is final and may be appealed to the Environmental Review Appeals Commission pursuant to ORC Section 3745.04. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00, made payable to “Treasurer, State of Ohio.” The Commission, in its discretion, may reduce the fee if by affidavit it is demonstrated that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
77 South High Street, 17th Floor
Columbus, Ohio 43215

Sincerely,



Scott J. Nally
Director

PF

Attachment: LAMP

cc: Jeff Hurdley, Legal, CO
Bill Fischbein, Legal, CO
Rich Fox, DMWM, SEDO
Barbara Bradley, Gallia County General Health District



Synthetic Gypsum

USER INFORMATION SHEET

The Kyger Creek Station produces synthetic gypsum as a by-product of the flue gas scrubbing process in which flue gas passes through a reactor vessel containing limestone slurry. The flue gas and limestone slurry are then subjected to forced-air oxidation, which produces calcium sulfate dihydrate. Synthetic gypsum is essentially the same as natural gypsum, except that synthetic gypsum often is a more pure form of calcium sulfate. This product has been determined to be environmentally safe for use in certain agricultural and land use applications as specified below. Synthetic gypsum is not approved for use where it may be directly ingested by livestock. Stockpiles in the field, or small dumps by spreading equipment, should be avoided or remediated to prevent livestock from consuming gypsum in unlimited amounts. Failure to apply and handle the synthetic gypsum as recommended in this information sheet and in accordance with best agricultural management practices will result in the termination of the supply of the synthetic gypsum to that user.

Chemical Composition

Synthetic gypsum consists primarily of calcium sulfate dihydrate (approximately 92 - 94 %) and other inerts, including unreacted limestone or silica (approximately 6 - 8%). Organic compounds are not present in significant concentrations. Additionally, VOCs and SVOCs are not present in detectable concentrations. Trace amounts of inorganic elements (metals) can be found at detectable levels, but make up less than 0.01% of the total. Macro nutrients such as nitrogen, phosphorus, and potassium, make up less than 0.1% of the total composition. Chemical analysis of this product can be furnished upon request.

Approved Uses

1. Soil Amendment for Reducing Soil Erosion

Synthetic gypsum reduces crusting of the soil surface by increasing the electrolyte content of stormwater, which improves rain infiltration, in turn minimizing the erosion potential of the surface water runoff.

2. Nutrient Addition

Synthetic gypsum can be used to replace two necessary macro nutrients in soils, sulfur and calcium, in a form that is readily available to the plant root system. The use of synthetic gypsum is not approved as a livestock feed additive.

3. Mitigation of Acidic and Sodic Soils

When applied to the soil, synthetic gypsum catalyzes chemical reactions that can potentially mitigate the negative effects on plant growth due to soil acidity and toxicity. The reaction of gypsum in soil solutions reduces soil toxicity by converting free aluminum ions to less toxic aluminum sulfate ion pairs. Synthetic gypsum will also assist in neutralizing soil acidity, thus overcoming root growth limitations associated with acidic soils.

4. Additive to Fertilizer and Composting Materials

Synthetic gypsum is an additive that can be mixed with manure or other composted materials to improve its characteristics and benefits to the soil. When synthetic gypsum is added to manure it reduces the odor, adds certain nutrients (sulfur and calcium), and improves water retention to the soils in which the mixture is added.

Application Rate

Application rates of synthetic gypsum will vary according to the type of soil and its condition. The rate applied to any site will be dependent on the specific needs of the soil as determined by standard agricultural soil testing. The application rate will vary from as little as 0.5 tons/acre to 5.0 tons/acre. An application rate of 5.0 tons/acre is not to be exceeded. The average agronomic application rate is one ton or less per acre. Synthetic gypsum should be applied at the appropriate times of the year when the soils and crops will benefit the most. Precaution should be taken during application to avoid spillage, or accumulation in piles, such that it could be ingested by livestock after the product has been applied.

Storage Considerations

Standard agricultural management practices should be implemented during application or temporary staging to minimize potential impact on surrounding waterways. Stockpiling of synthetic gypsum must be stored in a manner that prevents dispersion of the product from storm events which could potentially allow the soluble product to enter a waterway. Synthetic gypsum should not be stockpiled in areas that are accessible to livestock at any time.

For additional information contact:
Ohio Valley Electric Corporation
 P.O. Box 468
 Piketon, OH 45661
 Attention: Gabriel Coriell



AUG 08 2013

Permit-to-Install/Plan Approval Application

FOR AGENCY USE ONLY		AS EVIDENCED BY COPY OF LETTER OF APPROVAL HEREIN ATTACHED
Date Received: / /	Application/Revenue ID:	
Document ID:	Place ID:	
Check Date: / /	Check Number:	

1. Project Name: Kyger Creek Station - Synthetic gypsum land application

2. Applicant (see note after signature)

Name: Ohio Valley Electric Corporation - Kyger Creek Station
 Mailing Address: P.O. Box 468
 City: Piketon State: Ohio Zip: 45661
 Contact Name: David E. Jones
 Title: Vice President - Operations
 Phone: (740)289-7211 Fax: (740)289-7253 E-mail: djones@ovec.com

3. Application/Plans Prepared by:

Name: Ohio Valley Electric Corporation
 Mailing Address: P.O. Box 468
 City: Piketon State: Ohio Zip: 45661
 Contact Name: Gabriel Coriell
 Title: Environmental Specialist III
 Phone: (740) 289-7267 Fax: (740) 897-7731 E-mail: gcoriell@ovec.com

4. Billing Address (if different than Applicant)

Name: same as Applicant
 Mailing Address:
 City: State: Zip:
 Contact Name:
 Title:
 Phone: () - Fax: () - E-mail :

5. Future Owner (if different than Applicant)

Name: NA
 Mailing Address:
 City: State: Zip:
 Contact Name:
 Title:
 Phone: () - Fax: () - E-mail :

6. Project Location

Street Address or Location Description: Statewide land application

County: _____ Township: _____

Municipality: _____ Latitude: _____ Longitude: _____

Method of Determination: _____

7. Brief Project Description: Land application of synthetic gypsum as agricultural soil amendment to serve as a source of calcium and sulfur.

8. Will one or more acres be disturbed during construction of this project? Yes No

If Yes, enter the date the NOI for coverage under the construction storm water NPDES permit was submitted: / / and the date coverage was granted: / /

9. Will wetlands be disturbed during construction of this project? Yes No

If Yes, enter the date the 401/404 permit application was submitted: / /

10 a. Is this application part of a combined permit-to-install application? (for example air + water) Yes No

b. Has an application for a Class V injection well permit been submitted? Yes No N/A

If Yes, date submitted: / /

11. Compliance Status

a. Will this project connect to a collection/treatment system that has a NPDES permit? Yes No

If Yes, list federal and state permit numbers:
 OH 0IB00005*OD

b. Is this application filed in compliance with findings and orders, a consent decree, and/or NPDES permit schedule? Yes No

If Yes, effective date of the document containing the schedule: / /

12. Compliance with 208 plan

Does the project conform to the 208/201 plan for the area? Yes No N/A

If Yes, has the engineer submitted supporting documentation? Yes No

13. Designated Ohio, Wild, Scenic, & Recreational Rivers

Is this project located within 1000 feet of a designated wild, scenic, and recreational river? Yes No

See <http://ohiodnr.com/?TabId=985> for additional information

14. Estimated Project Schedule:

Beginning construction date: / / Ending construction date: / / Beginning operation date: upon/ approval

15. Project Cost:

*Installation/Construction Cost: \$ not applicable (Mark one): Actual Bid Estimate

Annual Operation/Maintenance Cost (if applicable - this project only): \$

Are Water Pollution Control Loan Funds going to be used for this project? Yes No

If No, Funding Source: _____

**This is costs of the treatment/dispersal/collection system that will serve the project*

16. Attachments

The following are included in this application package (check appropriate box(es) and indicate how many copies of each are provided):

<input type="checkbox"/> Detail Plans	<input checked="" type="checkbox"/> Management Plan
<input type="checkbox"/> Soil Evaluation Form	<input type="checkbox"/> Engineering Report
<input type="checkbox"/> Hydrogeologic Site Investigation Report	<input type="checkbox"/> Engineering Specifications
<input type="checkbox"/> Site Evaluation Form	<input type="checkbox"/> Sewer Authority Letter
<input type="checkbox"/> Other (describe):	<input type="checkbox"/> Antidegradation Addendum
<input type="checkbox"/> Narrative Plans (LTCP, GP, etc.)	

17. Form B / C Submission (check all that apply):

<input type="checkbox"/> Sewer and Pump Station Construction – Form B1
<input type="checkbox"/> Onsite Sewage Treatment Systems – Form B2
<input type="checkbox"/> Wastewater Treatment Plants Less Than 100,000 GPD – Form B3
<input type="checkbox"/> Wastewater Treatment Plants Greater Than or Equal to 100,000 GPD and all Pond Systems – Form B4
<input type="checkbox"/> Industrial Direct Discharge Facility – Form B5
<input type="checkbox"/> Industrial Indirect Discharge Facility – Form B6
<input type="checkbox"/> Underground Storage Tank Remediation – Form B7
<input type="checkbox"/> Holding Tanks – Form B8
<input type="checkbox"/> Industrial Impoundment Ponds – Form B9
<input checked="" type="checkbox"/> Land Application Management Plan for Sludge or Waste other than Treated Sewage – Form C1
<input type="checkbox"/> Treated Sewage Land Application Management Plan – Form C2
<input type="checkbox"/> Sewage Holding Tank Management Plan – Form C3

18. Fee Calculations:

Permit-to-Install (maximum total fee \$15,100)

a. Application fee:	\$ 100.00
b. Plan review fee:	\$ 100.00
c. Plan review fee (installation/construction cost x .0065):	\$ <u>0.00</u>
d. Total Fee (a + b + c):	\$ <u>200.00</u>

Sludge Management Plan Approval*

a. Application fee:	\$ 100.00
b. Plan review fee:	\$ 100.00
c. Total fee (a + b):	\$ 200.00

* No separate fee is needed for land application

19. Antidegradation

Is this project subject to the Antidegradation Rule (OAC 3745-1-05)? Yes No

If **Yes**, an antidegradation addendum must be submitted (Note: It applies even if an exclusion and/or waiver is met)

If **No**, check all that apply:

<input type="checkbox"/>	Application with no direct surface water discharge (Projects that do not meet the applicability section of 3745-1-05 (B)1, i.e., onsite sewage treatment systems, sanitary sewer extensions, indirect discharger to POTW, etc.).
<input type="checkbox"/>	Renewal NPDES application or PTI application with no requested increase in loading of currently permitted pollutants.
<input checked="" type="checkbox"/>	Narrative Plans (Examples: LTCP, Land Application, General Plans, etc.)

20. Submittals:

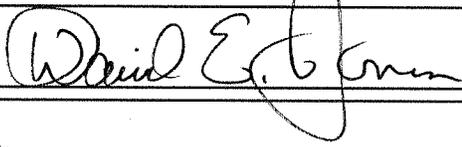
To be considered complete, this application must include the following unless otherwise directed by Ohio EPA:

- Four copies of the detail plans including profile and plan views of all sewers (shown on the same sheet), existing (as applicable) and proposed pump station facilities, incorporating all of the details outlined in Section 20.1, 20.2 and 20.3 of *Recommended Standards for Wastewater Facilities*.
- Two copies of complete technical specifications.
- Two copies of the Permit-to-Install Application including Form A, pertinent B & C form(s), and the antidegradation addendum (if applicable)
- Fee check payable to "Treasurer, State of Ohio."

21. Signature of the Applicant: (see Ohio Administrative Code 3745-42-03)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision and that all the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are substantial penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Typed name: David E. Jones Title: Vice President - Operations

Signature:  Date: 01/24/13

NOTE (Who Must Sign):
The person signing as "Applicant" is not the applicant's engineer or architect or any other person submitting the Permit-to-Install Application on behalf of the owner. The "Applicant" should be owner of the facility, business, corporation, company, etc. or the legal responsibly entity. It is not the engineer who prepared the plans.



Plan Approval - Management Plan For Sludge or Industrial Byproducts other than Treated Sewage

Note: This form, with the attachments indicated, is intended to serve as the main substance of the management plan. If you prefer to submit a separate and complete document to serve as your management plan, then to respond to a question where a description or calculation is requested (such as Items C.1 through C.4), simply enter the page numbers of the submitted plan where the information requested can be found. Please respond on this form when just a check mark or brief statement is requested.

FOR AGENCY USE ONLY

Application Number:	Date Received:	APPROVED OHIO ENVIRONMENTAL PROTECTION AGENCY AUG 08 2013 AS EVIDENCED BY COPY OF LETTER OF APPROVAL HERETO ATTACHED
Applicant:	Kyger Creek Station	
Facility Owner:	Ohio Valley Electric Corporation	
Application/Plans Prepared by:	Gabe Coriell	
Project Name:	Synthetic Gypsum Land Application	

A. Background Information

a. Briefly describe type and source of material to be land applied: See attached Management Plan.

b. Briefly describe proposed uses of materials (agronomic uses, soil blends, structural fill, etc.): Agronomic

c. Existing Plan Approval number: _____ N/A

B. Generating Facility N/A

a. Amount of sludge/byproduct generated 600,000 dry tons/year

b. Amount proposed for beneficial use Unknown dry tons/year

c. Disposal method for amount not used Landfilled

d. Storage capacity at facility: _____ days

C. Land Application (If N/A, Skip to D) N/A

a. Use category of land application area (check all that apply): Unrestricted Access site Restricted Access site

b. Quantity of material to be land applied: _____ Inches/acre/year (annual average-liquid) Max of 5 tons/acre Dry tons/acre/year (annual average-sludge)

c. Does the land application area have subsurface drains/tiles located less than 24 inches below natural grade?
 Yes No Unknown at this time

d. Amount of land area available for land application if known (do not include buffer zones in the figure) Unknown acres

e. Maximum slope of land to be used for land application = Unknown %

f. Type(s) of crops or vegetation to be grown on land application area: **Corn, soybeans, wheat, and hay crops.**

C.1 Describe the method or methods used for the storage and land application of sludge/other byproducts (including detailed information about the distribution system):

Please see attached Management Plan

C.2 State what the maximum land application rate(s) are proposed to be and the total acres required and available for land application. Attach calculations and references showing how the application rates and acreage needs were determined.

Application rates will be determined by a qualified agronomist and/or soil test analyses. OVEC has established a maximum application rate of 5 tons/acre.

C.3 Describe the monitoring of the material to be land applied and the soils in the land application area(s), including frequency, methods and parameters that will be measured in each:

Please see attached Management Plan

C.4 Describe the appropriate weather conditions required for the land application of sludge/other byproducts and how they will be determined and documented:

Weather conditions will be similar to those required for traditional fertilizer application - conducive to over-ground travel without damaging agricultural fields.

C.5 Check which land application activities listed below are proposed. If yes, please explain how runoff, ponding or discharges to waters of the state will be prevented (attach separate pages as needed).

- | | |
|---|---|
| Do you propose to land apply during precipitation events?
If yes , please explain: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Do you propose to spray irrigate when instantaneous wind speeds exceed 20 miles per hour?
If yes , please explain: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Do you propose to land apply within 10-year floodplain?
If yes , please explain: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Do you propose to land apply in wetlands?
If yes , please explain: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Do you propose to land apply where the land application contract is expired or void?
If yes , please explain: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Do you propose to land apply when the ground is saturated at or near the surface?
If yes , please explain: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Do you propose to land apply where there is at less than 12 inches between final grade and bedrock, sand or gravel lenses, compacted glacial till, and/or normal ground water elevation?
If yes , please explain: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

C.6 List setback distances that will be observed for all of the following:

Ditches/Streams/Waterways: _____ feet	Private Water Supply Well: _____ feet
Residences/Business: _____ feet	Public Water Supply Well: _____ feet
Sinkholes: _____ feet	Public Surface Drinking Water Intake: _____ feet
Pond or Lake: _____ feet	Other: Please see attached Management Plan _____ feet

Attach additional pages if different setbacks are proposed for different methods of application (e.g. greater setbacks should be observed for surface application than injection).

C.7 Land application on frozen/snow-covered ground is not recommended. If land application on frozen/snow-covered ground is proposed, please indicate which of the following practices will be used to minimize pollutant discharges or nuisances:

- Application rate is limited to 10 wet tons/acre for solid materials (50% moisture or more) and 5 wet tons/acre for material less than 50% moisture. For liquids the application rate is limited to 5,000 gallons/acre.
- Applications will be made on land with at least 90% surface residue cover.
- Material shall not be land applied on more than 20 contiguous acres, separated by breaks of at least 200 feet.
- Application setbacks shall be increased to at least 200 feet from all grassed waterways, drainage ditches, streams, surface inlets, and water bodies.
- The rate of application will not exceed: _____ lbs Nitrogen/acre or _____ lbs Phosphorus/acre
- Application will not take place on slopes greater than 6% unless material is applied in alternating strips less than 200' wide generally on the contour, or in the case of contour strips, on alternating strips.

If any of these practices are not proposed to be followed, please attach a description of how pollutant discharges will be minimized during application on frozen/snow covered ground.

C.8 Describe or list any other practices that will be used to minimize pollutant discharges or nuisances:

Please see attached Management Plan

C.9 Land Application Records

How will land application information be recorded? : Reporting as required by the Ohio Department of Agriculture

- Ohio EPA's Land Application Record Form Our Own Land Application Record Form (attached)

Where will the records be kept? : Kyger Creek Station Environmental files

C.10 Application Site Map (If known)

a. A map locating each land application site shall be attached. Each site shall be labeled "Restricted access site" or "Un-restricted access site". The map(s) should show the following items and are considered part of this plan:

- All present and known proposed occupied buildings within 300 feet of the land application area.
- All present and known proposed non occupied buildings within 300 feet of the land application area.
- All present and known proposed public and private water supply wells within 1,000 feet of the land application area.
- All sinkholes and waters of the state (including ditches, grass waterways, streams and rivers) within 200 feet of the land application area.
- All public surface drinking water supply intakes within 1500' of the land application area.
- All present and known proposed developments and public access areas within 300 feet of the land application area.

b. If the land application site(s) are not known, will site maps be submitted before land application starts? Yes No

D. Other Beneficial Uses

1. Is this material one of the following:
- Spent Foundry Sand
 - Bottom Ash From Coal Combustion
 - Fly Ash
 - Steel Slag
 - Sludge
 - Other:
2. If the material is "Other", have you contacted Ohio EPA to discuss the applicable regulations? Yes No
3. Is a comprehensive management plan attached for uses other than land application? Yes No

E. Miscellaneous Information:

The following items shall be included with this land application management plan:

- Two copies of the Permit-to-Install/Plan Approval Application Form A or the NPDES Permit Application.
- If applicable, two copies of the site and soil evaluation(s) (For renewal applications, this is only needed if additional or different areas)
- One copy of the sampling results for the material to be beneficially used (the most recent, but no older than one year).
- Four copies of this management plan and any attachments or Four copies of a separate/complete management plan.
- Fee check payable to "Treasurer, State of Ohio."

The following additional information is included with this form: Management Plan

F. The foregoing data is a true statement of facts pertaining to this proposed management plan.

Printed (Person Preparing Plan): *Gabriel S. Coriell* Title: Environmental Specialist III

Signed: *Gabriel S. Coriell* Date: 1 / 24 / 2013