March 27, 2012

Re: Ohio EPA Application No. 3MP00023*AM
Facility Name: Salem Water Treatment Plant

Larry K. Sebrell
City of Salem
231 South Broadway
Salem, OH 44460

Ladies and Gentlemen:

Transmitted herewith is one copy of the final Management Plan Approval for Lime Sludge from the City of Salem Water Treatment Plant for soil blending and land application at various locations across the State of Ohio.

You are hereby notified that this action of the Director is final and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. 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 “Ohio Treasurer Josh Mandel,” which the Commission, in its discretion, may reduce if by affidavit you demonstrate 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,

Chris Bowman, Manager
 Permit Processing Unit
 Division of Surface Water

CC: Central District Office
Northeast District Office
Northwest District Office
Southeast District Office
Southwest District Office
March 27, 2012

Re: Statewide
Salem Water Treatment Plant
Application No. 3MP00023*AM
Revised Management Plan for Lime Sludge for the City of Salem

Issue Date: March 27, 2012
Effective Date: May 1, 2012
Expiration Date: April 30, 2017

PERMITTEE:

The City of Salem
Attn: Larry K. Sebrell
231 South Broadway
Salem, OH 44460

FACILITY LOCATION:

City of Salem Water Treatment Plant
6343 Gamble Road
Lisbon, OH 44432

The Ohio Environmental Protection Agency has reviewed the land application management plan submitted on September 23, 2011 pursuant to Chapter 6111 of the Ohio Revised Code for the proposed beneficial use of lime sludge generated by the City of Salem Water Plant. The plan is approved subject to the condition of compliance with all applicable laws, rules, regulations and all the conditions below and in Part I and/or Part II of this permit.

The permittee may be required to submit a revised land application management plan application, if the Director of the Ohio EPA deems it necessary.

The director may add, delete, or change any conditions to a land application management plan permit to protect human health or the environment.

This approval is granted for the management of lime sludge from the City of Salem for soil blending and land application in accordance with the management plan. All other beneficial uses must be separately approved by the Ohio EPA. Only lime sludge from the source(s) identified in the approved management plan are eligible for beneficial use under this permit.

The director of the Ohio Environmental Protection Agency, or his authorized representative(s), may enter upon the premises of the site(s), including the generating facility, authorized for this plan approval for distribution of lime sludge at any reasonable time for the purpose of making inspections, conducting tests, examining records or reports pertaining to the installation, modification, or operation of the distribution system.
In the event that rules are developed to regulate the beneficial use of lime sludge in Ohio, all beneficial use shall be performed in accordance with those rules as adopted.

Issuance of this permit does not relieve you of the duty of complying with all applicable federal, state, and local laws, ordinances, and regulations.

This permit and authorization for beneficial use shall expire at midnight on the expiration date shown above. In order to receive authorization for beneficial use beyond the above date of expiration, the permittee shall submit such information and forms as are required by the Ohio EPA no later than 180 days prior to the above date of expiration.

You are hereby notified that this action of the Director is final and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. 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 "Ohio Treasure Josh Mandel", which the Commission, in its discretion, may reduce if by affidavit you demonstrate 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

Scott J. Nally
Director
Part II, OTHER REQUIREMENTS

A. Storage and land application of the lime sludge shall be conducted in such a manner that it will not cause a nuisance. Should a nuisance condition develop, or a determination be made by the Ohio EPA that storage or land application of lime sludge is a threat to human health or the environment, the Ohio EPA may order storage and land application to cease at the site and may require remediation of the site.

B. No person shall cause pollution or place or cause to be placed any lime sludge in a location where such placement may cause pollution of any water of the state except in accordance with an effective national pollutant discharge elimination system (NPDES) permit.

C. Any unauthorized discharge to waters of the state must be reported to Ohio EPA (toll free) by calling 1-800-282-9378 within 2 hours of discovery. The director shall be notified in writing within seven days of any person discovering noncompliance with this management plan permit.

D. The permittee may report a discharge to the appropriate Ohio EPA district office e-mail account as follows:

Central Office: co24hourpdes@epa.state.oh.us
Central District Office: cdo24hourpdes@epa.state.oh.us
Northeast District Office: nedo24hourpdes@epa.state.oh.us
Northwest District Office: nwdo24hourpdes@epa.state.oh.us
Southeast District Office: sedo24hourpdes@epa.state.oh.us
Southwest District Office: swdo24hourpdes@epa.state.oh.us

E. All application of water treatment lime sludge shall be timed to avoid periods of excessive rainfall. Application to frozen or snow-covered ground is prohibited.

F. Notice shall be given to all end users of soil blends that contain lime sludge which states that the material is or contains an industrial byproduct that has been approved for use by the Ohio EPA.

G. The maximum amount of lime sludge that may be applied to a site shall be 6 dry tons/acre. The permittee shall provide the effective neutralizing power of the lime sludge to end users so proper application rates may be calculated. All land application shall be performed in accordance with agronomic management practices.
H. The following records shall be maintained by the permittee for a minimum of 5 years and be made available to the Ohio EPA upon request:

-All laboratory reports of all characterizations of the lime sludge performed by the permittee;

-Records of the amount of lime sludge produced during each calendar year;

-Records of the persons who have received lime sludge for land application and the amount each person received; and

-Records of the amount of lime sludge provided for use in soil blending.

I. By January 31 of each year, the permittee shall prepare and submit a report detailing the beneficial use activities involving the lime sludge for the previous calendar year. The annual report shall contain:

-Information detailing the amount of lime sludge, in dry tons, provided for beneficial use pursuant to the approved management plan in the previous calendar year, including information detailing how much lime sludge, in dry tons, was provided for each use;

-Information compiled by the permittee regarding the total amount of lime sludge, in dry tons, produced during the previous calendar year; and

-Copies of the results of pollutant analysis of lime sludge that has been completed during the previous calendar year.

Copies of the report shall be submitted to the Ohio EPA Division of Surface Water Central Office, PO Box 1049, Columbus, OH 43216-1049.
J. The following annual certification statement shall be included with the annual report as required by this permit:

"I certify, under penalty of law, that the information contained in this annual report that will be 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."

For the first certification statement, insert the effective date of this approval as the beginning date for the certified period of time. 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. 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 section 2921.13 of the Ohio Revised Code.
City of Salem Utilities
Department

Permit to Install/Plan Approval Application

Water Treatment Solids Management Plan

September 21, 2011
COPY
# TABLE OF CONTENTS

- Permit To Install/Plan Approval Application ........................................ Form A
- Permit To Install Supplement to Form A ............................................... Form A-C1
- Introduction ......................................................................................... 2
- Regulatory Requirements ....................................................................... 3
  - Resource Conservation and Recovery Act (RCRA) .......................... 3
  - Clean Water Act (CWA) ................................................................. 3
  - Ohio Agricultural Liming Material Law .......................................... 3
- General Information ............................................................................... 4
  - Water Treatment Lime Source ....................................................... 4
  - Areas of Application ....................................................................... 4
  - Contracts and Agreements ............................................................. 4
- Residuals Characterization ................................................................... 5
  - Process Description ....................................................................... 5
  - Water Source ................................................................................ 5
  - Quantity of lime residuals ............................................................. 5
  - Monitoring ...................................................................................... 5
- Residuals Management Practices ........................................................... 6
  - Processing Options ....................................................................... 6
  - Disposal and Beneficial Use Options ............................................. 7
- Method of Operation ........................................................................... 9
- Description of Operations .................................................................... 9
  - Transportation ............................................................................... 9
  - Field Operations ........................................................................... 9
  - Storage ............................................................................................ 9
  - Liquid Operations ........................................................................... 10
  - Backup Options ............................................................................. 10
- Monitoring and Reporting ..................................................................... 11
- Spill Control and Cleanup Plan .............................................................. 12

## Appendix

- Lime Residuals Analysis
- Example Lime Request Form
- Topographic Map
### Permit-to-Install/Plan Approval Application

**FOR AGENCY USE ONLY**

<table>
<thead>
<tr>
<th>Date Received:</th>
<th>/ /</th>
<th>Application/Revenue ID:</th>
<th>Organization ID:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Document ID:</td>
<td></td>
<td>Place ID:</td>
<td>Check ID:</td>
</tr>
<tr>
<td>Check Date:</td>
<td>/ /</td>
<td>Check Number:</td>
<td>Check Amount:</td>
</tr>
</tbody>
</table>

**1. Project Name:** City of Salem Water Treatment Plant Lime Residuals Plan

**2. Applicant (see note after signature)**

- **Name:** City of Salem Utilities Department
- **Mailing Address:** 231 South Broadway Avenue
  - **City:** Salem
  - **State:** OH
  - **Zip:** 44460
- **Contact Name:** Donald R. Weingart
- **Title:** Superintendent of Utilities
- **Phone:** (330) 337-8723  Fax: (330) 332-9615  E-mail: weingart@cityofsalemohio.org

**3. Application/Plans Prepared by:**

- **Name:** Synagro Central, LLC
- **Mailing Address:** 4515 Infirmary Road
  - **City:** Miamisburg
  - **State:** OH
  - **Zip:** 45342
- **Contact Name:** Bruce MacLeod
- **Title:** Technical Services Director
- **Phone:** (937) 384-0669  Fax: (937) 384-0674  E-mail: bmacleod@synagro.com

**4. Billing Address (if different than Applicant)**

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

**5. Future Owner (if different than Applicant)**

- **Name:**
- **Mailing Address:**
- **City:**
  - **State:**
  - **Zip:**
- **Contact Name:**
- **Title:**
- **Phone:** ( )  Fax: ( )  E-mail:
6. **Project Location**

Street Address or Location Description: 6343 Gamble Road

County: Columbiana  Township: Center

Municipality: Lisbon  Latitude: 40 48 27.24  Longitude: 80 50 02.92

Method of Determination: Google Earth™

7. **Brief Project Description:** Sludge management plan for agronomic land application of water treatment lime residuals produced in water treatment plant.

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 3IV00180 (expired)

      b. **Is this application filed in compliance with findings and orders, a consent decree, 3/ or NPDES permit schedule?**
      - Yes  No

      If Yes, effective date of the document containing the schedule: 06/01/2000

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](http://ohiodnr.com/?TabId=985 for additional information)

14. **Estimated Project Schedule:**

   Beginning construction date:  / /  Ending construction date:  / /  Beginning operation date:  / /

15. **Project Cost:**

   Installation/Construction Cost:  
   (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):

☐ Detail Plans
☐ Soil Evaluation Form
☐ Hydrogeologic Site Investigation Report

☒ Management Plan  4
☐ Engineering Report
☐ Engineering Specifications

☐ Site Evaluation Form
☐ Sewer Authority Letter

☐ Other (describe):

☐ Antidegradation Addendum

☐ Narrative Plans (LTCP, GP, etc.)

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

☐ Sewer and Pump Station Construction – Form B1
☐ Onsite Sewage Treatment Systems – Form B2
☐ Wastewater Treatment Plants Less Than 100,000 GPD – Form B3
☐ Wastewater Treatment Plants Greater Than or Equal to 100,000 GPD and all Pond Systems – Form B4
☐ Industrial Direct Discharge Facility – Form B5
☐ Industrial Indirect Discharge Facility – Form B6
☐ Underground Storage Tank Remediation – Form B7
☐ Holding Tanks – Form B8
☐ Industrial Impoundment Ponds – Form B9
☒ Land Application Management Plan for Sludge or Waste other than Treated Sewage – Form C1
☐ Treated Sewage Land Application Management Plan – Form C2
☐ 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):$  
d. Total Fee (a + b + c):$  

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:
- 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.).
- Renewal NPDES application or PTI application with no requested increase in loading of currently permitted pollutants.
- 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: Donald R. Weingart
Title: Superintendent of Utilities
Signature: [Signature]
Date: 09/22/2011

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 responsible entity. It is not the engineer who prepared the plans.