

**WQROS REGIONAL STAFF REPORT FOR
UIC Program Support**

Permit No. WI0500447

Date: 09/11/2020

County: Wake

To: Michael Rogers

Permittee/Applicant: City of Raleigh Solid Waste Services

Regional Office Reviewer: Brion N. Byers

Facility Name: Wilders Grove Landfill (Closed)

I. GENERAL INFORMATION

1. This application is (check all that apply): ☐ New ☒ Renewal
☐ Minor Modification ☐ Major Modification
- a. Date of Inspection: N/A
- b. Person contacted and contact information:
- c. Site visit conducted by:
- d. Inspection Report Printed from BIMS attached: ☐ Yes ☒ No
- e. Physical Address of Site including zip code:
- f. Driving Directions if rural site and/or no physical address: _____
- g. Latitude: N/A Longitude: N/A
Source of Lat/Long & accuracy (i.e., Google Earth, GPS, etc.): _____

II. DESCRIPTION OF INJECTION WELL(S) AND FACILITY

1. Type of injection system:
- ☐ Geothermal Heating/Cooling Water Return
- ☒ *In situ* Groundwater Remediation
- ☐ Non-Discharge Groundwater Remediation
- ☐ Other (Specify: _____)
2. For Geothermal Water Return Well(s) only
- a. For existing geothermal system:
- Were samples collected from Influent/Effluent sampling ports? ☐ Yes ☐ No.
- Provide well construction information from well tag: _____
- b. Does existing or proposed system use same well for water source and injection? ☐ Yes ☐ No
- If No, please provide source/supply well construction info (i.e., depth, date drilled, well contractor, etc.) and attached map and sketch location of supply well in relation to injection well and any other features in **Section IV** of this Staff Report.
3. Are there any potential pollution sources that may affect injection? ☐ Yes ☒ No
- What is/are the pollution source(s)?
4. What is the distance of the injection well(s) from the pollution source(s)?
5. What is the minimum distance of proposed injection wells from the property boundary? _____
6. Quality of drainage at site: ☐ Good ☐ Adequate ☐ Poor
7. Flooding potential of site: ☐ Low ☐ Moderate ☐ High

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8. For Groundwater Remediation systems, is the proposed and/or existing groundwater monitoring program (number of wells, frequency of monitoring, monitoring parameters, etc.) adequate? ☒ Yes ☐ No. If No, attach map of existing monitoring well network if applicable and recommend any changes to the groundwater-monitoring program.
9. Does the map included in the Application reasonably represent the actual site (property lines, wells, surface drainage)? ☒ Yes ☐ No. If No, or no map, please attach a sketch of the site. Show property boundaries, buildings, wells, potential pollution sources, roads, approximate scale, and north arrow.
10. For Non-Discharge groundwater remediation systems only:
- Are the treatment facilities adequate for the type of waste and disposal system? ☐ Yes ☐ No ☐ N/A. If no, please explain: _____
 - Are the site conditions (soils, topography, depth to water table, etc.) consistent with what was reported by the soil scientist and/or Professional Engineer? ☐ Yes ☐ No ☐ N/A. If no, please explain: _____

III. EVALUATION AND RECOMMENDATIONS

1. Do you foresee any problems with issuance/renewal of this permit? ☐ Yes ☒ No. If yes, explain. _____
2. List any items that you would like WQROS Central Office to obtain through an additional information request. Make sure that you provide a reason for each item:

Item	Reason

3. List specific special conditions or compliance schedules that you recommend to be included in the permit when issued. Make sure that you provide a reason for each special condition:

Condition	Reason

4. Recommendation

- ☐ Deny. If Deny, please state reasons: _____
- ☐ Hold pending receipt and review of additional information by regional office
- ☐ Issue upon receipt of needed additional information
- ☒ Issue

5. Signature of report preparer(s): _____

Brion N. Byers

Digitally signed by Brion N.
Byers
Date: 2020.09.11 10:50:41
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DocuSigned by:

Signature of WQROS Regional Supervisor: _____

Vanessa E. Manuel

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Date: 9/11/2020

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IV. ADDITIONAL REGIONAL STAFF REVIEW COMMENTS/ATTACHMENTS (If Needed)=

Summary of Proposed Renewal:

- Injection has been discontinued at the site, however, need for injection will be reevaluated in 2022 through a Corrective Action Evaluation Report.
- City of Raleigh Solid Waste Services (City of Raleigh) previously requested (Permit Modification - 2019) to revise the monitoring plan:
 - Move from quarterly sampling to semi-annual sampling.
 - Eliminate analytical parameters carbon dioxide, chloride, and total dissolved solids, as they are below 2L standards or at background levels

Recommendations by RRO:

- Based on historical groundwater analytical data submitted, RRO recommends proceeding with the permit renewal as requested in the UIC Permit Renewal Application dated June 18, 2020.