



STATE OF TENNESSEE
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF WATER RESOURCES
William R. Snodgrass - Tennessee Tower
312 Rosa L. Parks Avenue, 11th Floor
Nashville, TN 37243-1102

PROJECT NAME: Clearview Acres Modification - Walnut Chase SD Addition

COUNTY: Rutherford

DATE REQUESTED: 1/21/21

DATE HELD: 1/28/21

MEETING LOCATION: Teams

MEETING TIME: 1:00pm

PERMIT: SOP-16018

WPN: 21.0036

PARTICIPANTS/REPRESENTING: (checklist ITEM I.A)

SEC:

Jamie Reed – jreed@sec-civil.com

TDEC:

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Consolidated Utility District of Rutherford County:

Jason Laxson – jlaxson@ cudrc.com

PROJECT BACKGROUND AND PURPOSE: (checklist ITEM B)

The proposed project is to expand the Clearview Acres treatment system to account for 37 lots from the Walnut Chase development. The total design flow rate for 305 lots is 91,500 gpd. The treatment system will be comprised of STEP effluent collection, 1-202.5'x55' RSF (existing), 1-135'x55' RSF (proposed), UV disinfection and drip irrigation. The RSFs have a recirc rate of 5:1. The 14 acres of proposed land application area will be loaded at 0.15 gpd/ft², with 7 acres of reserve area. CUD will be the owner and operator of the system.

SUMMARY OF PRELIMINARY ENGINEERING REPORT CONSIDERATIONS (checklist ITEMS C, D, E):

The project design must adhere to the Division's Design Criteria. Soil map with a drip zone overlay must be included. Plans review fee for a modification will be relative to engineering report, plans, and collection system review associated fees found on Form CN-1457.

SUMMARY OF RECEIVING WATERS OR SITE SUITABILITY: (checklist ITEM F)

The majority of the drip area anticipated for this project has already been approved. There will be additional zones to facilitate the expansion. The Division will review the originally approved background soils information submitted for suitability of wastewater assimilation.

SUMMARY OF ANTICIPATED PERMITTING NEEDS: (checklist ITEM G, I, J, K):

The Water Quality State Operating Permit application has been submitted, UIC will be authorized with draft of modified permit issuance. Final permit issuance is contingent upon final plans approval.

DWR ORGANIZER: Liz Campbell

MINUTES PREPARED BY: Liz Campbell

DATE MINUTES PREPARED: 1/28/21



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Planning/Permitting Process

1. PRELIMINARY PROJECT DISCUSSION: The format will be decided based on the complexity of the project. Refer to Wastewater Project Number and Permit number in all correspondence.
2. SITE APPROVAL PHASE: Submit SOP Permit application (see instructions at: <https://www.tn.gov/environment/permit-permits/water-permits1/water-quality-state-operation-permit.html>) including:
 - a. A preliminary engineering report (alternatives evaluation in terms of life cycle costs and permit implications) should be submitted before negotiations for the permit can be completed.
 - b. A soils map prepared by a Licensed Professional Soil Scientist with pit profiles must be submitted in support of the project. The map must be field verified by TDEC staff.
 - c. Ensure treatment schematic on application matches engineering report and preliminary plans to be submitted in preliminary design phase (WW Design Criteria, Chapter 1, Appendices 1-D-2 and -3)
 - d. Agreement stipulating transfer of property or permanent easements for utility access for maintenance and operation of collection system and treatment system.
 - e. Application fee for decentralized systems: see 400-40-11-.02(3) at: <https://sharetn.gov.tnsosfiles.com/sos/rules/0400/0400-40/0400-40-11.20160508.pdf>
3. PRELIMINARY DESIGN PHASE: After agreement on draft permit, submit preliminary design submittal consisting of:
 - a. Engineering Report (or Basis of Design or Design Memorandum) in accordance with WW Design Criteria Chapter 1 Appendix 1-D-2; Review of the engineering report primarily focuses on due diligence taken in the characterization of the influent and the selection of an appropriate technology to meet the agreed upon discharge requirements given the influent characterization. Life cycle cost estimates should be upgraded; previously considered alternatives should be omitted or will be disregarded at this point. Treatment processes outside the Design Criteria parameters must be justified with preferably actual data on similar installations. Performance should be examined over the realistic range of influent values.
 - b. Preliminary Plans in accordance with WW Design Criteria Chapter 1 Appendix 1-D-3. Review of the preliminary plans focuses on the process in accordance with the checklists. Preliminary plans may be attachments or figures in the engineering report.
4. FINAL DESIGN PHASE: Upon completion successful completion of the public comment period of the permit and approval of the engineering report and the preliminary plans, the final design phase is authorized. The final CD's should consist of:
 - a. Final Plans and Specifications in accordance with WW Design Criteria Chapter 1 Appendix 1-D-4. Note that the primary review emphasis is on those aspects not previously evaluated during the PRELIMINARY DESIGN PHASE: Maintainability, sustainability, operability and flexibility (including the visibility of process parameters to support operator optimization), expandability, and safety.
 - b. Note procurement documentation in the project manual/specifications is generally reviewed for functionality and does not duplicate review procurement requirements, policies, or ordinances of funding agencies or owning public entities.



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- c. Proof of ownership/permanent easements must be provided prior to transmission of wastewater or acceptance of wastewater at a new facility for treatment and disposal.
- d. Note Rules authorize and require the Division to specify the format and content of the submittals. Current versions of the Rules and Design Criteria specify paper submittals. The Division is moving towards accepting and prefers digital submissions. Plans should be able to be legible if printed in 11x17 paper format; documents should be word/phrase searchable. PDF versions will be digitally stamped approved on cover sheets and indices and when reproduced will fulfill the requirements for on-site construction monitoring. A paper copy (red-lined plans) of the contract documents should also be on site to record field changes to ensure an accurate record drawing set can be provided.

5. PERMITTING PHASE

- a. Prior to commencing operation, privately-owned public utilities must provide financial security to the Public Utility Commission to comply with TCA 69-3-122. Issuance of a Certificate of Convenience and Necessity (CCN) by the Public Utility Commission must occur prior to the startup of the facility.
- b. Final plans approval and issuance of the final permit will occur once the financial security provisions have been applied for.

6. CONSTRUCTION PHASE

- a. Notify location environmental field office (EFO) & Nashville Central Office upon:
 - i. Start of construction
 - ii. Start up, final inspection, commissioning
- b. Submit record or “as-built” drawings” if necessary