



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 4  
ATLANTA FEDERAL CENTER  
61 FORSYTH STREET  
ATLANTA, GEORGIA 30303-8960

April 13, 2023

ENVIRONMENTAL COMPLIANCE &amp;

Mr. Brian Hennessey, 730-B  
SRS Remedial Project Manager  
Savannah River Operations Office  
Area Completion Projects  
Post Office Box A  
Aiken, South Carolina 29802

APR 13 2023

AREA COMPLETION PROJECTS

Dear Mr. Hennessey:

The U.S. Environmental Protection Agency (EPA) has received the Department of Energy, Savannah River Site Treatability Study Data Report for the Groundwater Injection and Discharge Canal Neutralization at the D-Area Groundwater Operable Unit, SEMS #63, dated January 2023.

EPA cannot approve the above mentioned report until the below comments are addressed. Should you have any questions or concerns, please feel free to call me at on my cell number 404-229-9500.

Sincerely,

A handwritten signature in cursive script that reads "Diedre Lloyd".

Diedre Lloyd  
Remedial Project Manager  
DOD Section  
Superfund & Emergency Management Division

cc: Angelia Holmes, DOE-SRS, Brian Hennessey, DOE-SRS, Phil Prater, DOE-SRS, Karen Adams, DOE-SRS, C.L. Bergren, SRNS-ACP (Signed Original), Susan Fulmer, SCDHEC

**EPA REVIEW**  
**TREATABILITY STUDY DATA REPORT FOR GROUNDWATER INJECTION AND**  
**DISCHARGE CANAL NEUTRALIZATION AT THE**  
**D-AREA GROUNDWATER OPERABLE UNIT (OU) (U)**

**2022 DATA AND INFORMATION, SEMS NUMBER: 63**

**DATED JANUARY 2023**

**SAVANNAH RIVER SITE**  
**AIKEN, SOUTH CAROLINA**

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**EPA GENERAL COMMENT**

1. A figure of the second quarter (2Q) 2022 potentiometric surface map of the upper three runs aquifer (UTRA) and a figure presenting the pre-injection water elevation map from 2Q 2020 are provided for comparison of changes in water levels; however, similar figures comparing the pre-injection pH levels, beryllium and sulfate concentrations are not presented for comparative purposes for evaluation of the changes. Please revise the Treatability Study Data Report for Groundwater Injection and Discharge Canal Neutralization at the D-Area Groundwater Operable Unit (OU) (U), 2022 Data and Information, SEMS Number: 63, SRNS-TR-2022-00009, Revision 0, dated January 2023 (the Data Report) to present figures depicting the pre-injection pH levels, beryllium and sulfate concentrations to provide for a comparison of the results with current data.

**EPA SPECIFIC COMMENTS**

1. **Section 5.0, Treatability Study Progress and Data, Page 7 of 54:** The text states that due to the abundance of clays, sandy clays, and silty sands the injection wells originally planned to be screened from approximately 12 – 32 feet below ground surface (ft bgs) were installed deeper within the mid to lower zone of the UTRA; however, the text does not present the final installation depths in ft bgs of the injection well screens. Please revise the text to include the final installation depths in ft bgs of the injection well screens.
2. **Figure 12, D-Area Treatability Study Monitoring Locations, Page 41 of 54:** The figure depicts all the D-Area injection wells; however, it is noted only 10 of the proposed 20 injection wells have been installed and the figure does not identify which injection wells are currently installed and which wells have not been installed. Please revise the figure to identify which 10 wells are installed.