



## Department of Energy

Oak Ridge Office of Environmental Management  
P.O. Box 2001  
Oak Ridge, Tennessee 37831

June 1, 2022

Ms. Samantha Urquhart-Foster  
Superfund and Emergency Response Division  
U.S. Environmental Protection Agency  
Region 4  
Atlanta Federal Center  
61 Forsyth Street  
Atlanta, Georgia 30303-8960

Mr. Randy C. Young  
State of Tennessee  
Department of Environment and Conservation  
Division of Remediation – Oak Ridge  
761 Emory Valley Road  
Oak Ridge, Tennessee 37830-7072

Dear Ms. Urquhart-Foster and Mr. Young:

**TRANSMITTAL OF THE *FOCUSED FEASIBILITY STUDY FOR WATER MANAGEMENT FOR THE DISPOSAL OF CERCLA WASTE ON THE OAK RIDGE RESERVATION, OAK RIDGE, TENNESSEE (DOE/OR/01-2664&D4)***

The enclosed subject document is provided for your approval. Also enclosed are responses from the U.S. Environmental Protection Agency (EPA) and the Tennessee Department of Environment and Conservation on the D3 Focused Feasibility Study (FFS).

The D3 FFS was submitted in June 2021. The D4 FFS was revised to incorporate the radiological preliminary remediation goals (PRG) recently agreed-upon by the *Federal Facility Agreement for the Oak Ridge Reservation* parties. In addition, the document was updated to address comments received from EPA and the Tennessee Department of Environment and Conservation on the D3 FFS. The primary updates and revisions are as follows:

- Main body of document: Updated to reflect current Environmental Management Disposal Facility (EMDF) location, current conditions on the Oak Ridge Reservation, and the agreed-upon radiological in-stream water PRGs.
- Appendix C: *Explanation of How the Key Contaminants of Concern Were Developed* was updated to include recent data.
- Appendix E: *Mercury Concentration in EMDF Landfill Wastewater* was completely rewritten based on more recently available information.
- Appendix J: *Screening Water Sampling Results for Evaluating Compliance with ARARs* was completely rewritten to incorporate the language from the *Federal Facility Agreement for the Oak Ridge Reservation*.

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- Appendix K: *Development of Screening Level Discharge Limits for Landfill Wastewater* was revised as follows:
  - The radiological PRGs section was rewritten to incorporate the agreed-upon PRGs. The work performed by the Tri-Party team to collect and evaluate fish samples is described and the development of the agreed-upon radiological in-stream water PRGs is documented. A baseline risk assessment was added.
  - The non-radiological section was revised to reflect current conditions. A total uranium instream water value was developed using the radiological PRGs approach.
- Appendix L: *Proposed Sampling Approach for the Water Management Focused Feasibility Study* changed to update the graph with more current data.

The following appendices were not changed from the D3 version. The information contained in these appendices is still valid for the purpose of performing an evaluation of landfill wastewater treatment alternatives.

- Appendix A. *Bear Creek Burial Grounds Evaluation*
- Appendix B. *Contact Water And Leachate Flow Rate*
- Appendix D. *ARARs* was unchanged from D3 FFS and includes the complete set of applicable or relevant and appropriate regulation/requirements that accompanied the dispute resolution decision letter
- Appendix F. *Leachate and Contact Water Waste Determination*
- Appendix G. *Zero Discharge*
- Appendix H. *Water Storage Requirements*
- Appendix I: *Basis of Cost Estimates*
- Appendix M: EPA Administrator's Dispute Resolution Decision Letter

Final discharge limits will be developed by the Environmental Management Waste Management Facility and EMDF project teams, and will be provided in the Environmental Management Waste Management Facility and EMDF Records of Decision (ROD) and/or applicable post-ROD primary documents such as the Remedial Action Work Plan. Please note that the EMDF ROD contains the selected landfill wastewater remedy for the EMDF and treatment at the EMDF. Tri-party agreements leading to the development of these limits have been included in the administrative record for the EMDF project.

The approval period for this document will be maintained consistent with a D2 document (30 days) since the updated information in need of review is very limited.

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If you have any questions or if we can be of further assistance, please contact Dennis Mayton at (865) 576-2180.

Sincerely,

**Brian Henry**

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Henry  
Date: 2022.06.01  
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Brian T. Henry  
Portfolio Federal Project Director

**ROGER  
PETRIE**

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ROGER PETRIE  
Date: 2022.05.27  
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Roger B. Petrie  
Federal Facility Agreement Project Manager

Enclosures (2)

cc w/enclosures:

Carl Froede, EPA Region 4  
SSAB

Dana Casey, TDEC, Oak Ridge  
[ettpdmc@orcc.doe.gov](mailto:ettpdmc@orcc.doe.gov)

Rhonda Butler, Value Added Solutions

cc w/o enclosures:

Mark Maki, Pro2Serve  
Kahalealii Ishikawa, TDEC, Oak Ridge  
Brad Stephenson, TDEC, Oak Ridge  
Sid Garland, UCOR  
Jennifer Linton, UCOR  
Annette Primrose, UCOR  
Tanya Salamacha, UCOR  
Dennis Mayton, EM-921