



# **Federal Facility Agreement Annual Progress Report for Fiscal Year 2022**

**SRNS-RP-2022-01026**

**November 2022**

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*Prepared for*  
**U.S. Department of Energy**  
**and**  
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**Aiken, South Carolina**

—  
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**Environmental Compliance & Area Completion Projects**

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## LIST OF ABBREVIATIONS AND ACRONYMS

ARF	Administrative Record File
BRA	Baseline Risk Assessment
CA	Corrective Action
CAGW	C-Area Groundwater
CAR	Corrective Action Report
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CMIP	Corrective Measures Implementation Plant
CMP	Chemicals, Metals, and Pesticides
CMS	Corrective Measures Study
D&D	Deactivation and Decommissioning
DAOU	D-Area Operable Unit
EA	Early Action
ECODS	Early Construction and Operational Disposal Site
EMR	Effectiveness Monitoring Report
ESD	Explanation of Significant Difference
EZVI	Emulsified Zero-Valent Iron
FMB	Fourmile Branch
FFA	Federal Facility Agreement
FS	Feasibility Study
FTF	F-Area Tank Farm
FY	Fiscal Year
GMR	Groundwater Monitoring Report
GSA	General Separations Area
GSACU	General Separations Area Consolidation Unit
GWMZ	Groundwater Mixing Zone
HTF	H-Area Tank Farm
HWMF	Hazardous Waste Management Facility
IOU	Integrator Operable Unit
IRF	Information Repository File
IROD	Interim Record of Decision
LLC	Limited Liability Company
LUC	Land Use Control
LUCAP	Land Use Control Assurance Plan
LUCIP	Land Use Control Implementation Plan
LLWF	Low-Level Waste Facility
MASB	M-Area Settling Basin
Met Lab	Metallurgical Laboratory
N/A	not applicable
NBN	No Building Number
ORWBG	Old Radioactive Waste Burial Ground
OU	Operable Unit

**LIST OF ABBREVIATIONS AND ACRONYMS** *(Continued/End)*

PCB	polychlorinated biphenyl
PCR	Post Construction Report
PDF	portable document format
PER	Performance Evaluation Report
POC	Point of Compliance
PP	Proposed Plan
PRB	Permeable Reactive Barrier
RA	remedial action
RAIP	Remedial Action Implementation Plan
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
RI	Remedial Investigation
ROD	Record of Decision
SCDHEC	South Carolina Department of Health and Environmental Control
SE	Site Evaluation
SEA	Site Evaluation Area
SEMS	Superfund Enterprise Management System
SB/PP	Statement of Basis/Proposed Plan
SR	Savannah River
SRNS	Savannah River Nuclear Solutions, LLC
SRR	Savannah River Remediation, LLC
SRS	Savannah River Site
SWP	Southwest Plume
TSCA	Toxic Substances Control Act
USDOE	United States Department of Energy
USDOE-SR	United States Department of Energy-Savannah River
USEPA	United States Environmental Protection Agency
VOC	volatile organic compound
WADB	Wetland Area at Dunbarton Bay
WSTS	Western Sector Treatment System

## **1.0 INTRODUCTION**

The Savannah River Site (SRS) Federal Facility Agreement (FFA) was negotiated between the United States Department of Energy (USDOE), the United States Environmental Protection Agency - Region 4 (USEPA), and the South Carolina Department of Health and Environmental Control (SCDHEC), collectively designated as the “Parties.” USEPA made the FFA effective on August 16, 1993. The preparation and submittal of this report have been undertaken to meet the terms of Section XXV, Reporting, of the FFA.

This FFA Annual Progress Report summarizes information on activities performed during Fiscal Year (FY) 2022 (October 1, 2021 through September 30, 2022) and activities planned for FY2023 (October 1, 2022 through September 30, 2023) by USDOE, USEPA, and SCDHEC at those units and areas identified for remediation in the FFA.

This report is presented in the sections described below.

### **1.1 Overview of FY2022**

This section contains a brief overview of the actions taken by USDOE, USEPA, and SCDHEC during FY2022 to implement the terms of the FFA.

### **1.2 Outcome of Extension Notifications and Requests**

This section presents the information about Extension Notifications and Extension Requests affecting FFA main milestones in tabular form.

### **1.3 Status of Site Evaluation Areas, Resource Conservation and Recovery Act/ Comprehensive Environmental Response, Compensation, and Liability Act Units, and Integrator Operable Units**

This section presents the information below in tabular form:

- List of planned work for FY2022, including milestones, document submittals, risk assessments, site evaluations, remediation activities, and other field activities;
- List of work accomplished in FY2022, as documented in Appendix D of the FFA;
- List of work accomplished in FY2022, not documented in Appendix D of the FFA;
- List of activities extended by a Three-Party Agreement during FY2022; and a
- List of work planned for FY2023, as documented in preliminary milestone agreements, including milestones, document submittals, risks assessments, site evaluations, remediation activities, and other field activities.

## **1.4 USDOE-Savannah River Contractors**

Table 1 identifies the USDOE-Savannah River (SR) contractors and their responsibilities.

## **2.0 OVERVIEW OF FY2022**

The following subsections contain a synopsis of activities and accomplishments achieved by USDOE, USEPA, and SCDHEC throughout FY2022.

### **2.1 Field Activities**

The Environmental Compliance and Area Completion Projects currently has 515 units in the program. Included in the 515 units are Resource Conservation and Recovery Act (RCRA)/Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Units, Site Evaluation Area (SEAs), and facilities covered under the SRS RCRA permit renewal. At the beginning and end of FY2022, 420 units were complete or in the remediation phase (412 complete and 8 in the remediation phase).

A RCRA Facility Investigation (RFI)/Remedial Investigation (RI) Field Start was initiated at the Early Construction and Operational Disposal Site (ECODS) L-3 (No Building Number [NBN]), L-Area Rubble Pit (131-1L), and L-Area Rubble Pit (131-4L) Operable Unit (OU).

USDOE did not install hog barrier fences in FY2022. USDOE plans to install hog barrier fences in FY2023 at the C-Area Burning/Rubble Pit (131-C), Old F-Area Seepage Basin (904-49G), Ford Building Seepage Basin (904-91G), and R-Area Burning/Rubble Pits (131-R and 131-1R). These fences are not required by any Record of Decision (ROD), Land Use Control Implementation Plan (LUCIP), or any other regulatory requirement. They will be installed by USDOE as a cost-saving initiative to prevent damage by feral hogs to caps/covers that USDOE are required to maintain over waste left in place for protection of human health and the environment.

### **2.2 RODs and/or Explanation of Significant Differences**

The ROD for the Lower Three Runs Integrator Operable Unit (IOU) was issued to the public after USDOE, SCDHEC, and USEPA signed the document.

The Sixth Five-Year Remedy Review Report for SRS OUs with Engineered Cover Systems was issued to the public after USDOE, SCDHEC, and USEPA signed the report.

The Sixth Five-Year Remedy Review Report for SRS OUs with Geosynthetic or Stabilization/Solidification Cover Systems was submitted by USDOE and approved by SCDHEC and USEPA.

## 2.3 Post-ROD Documents

Three post-ROD documents (i.e., LUCIP, Monitored Natural Recovery Effectiveness Plan, and Remedial Action Implementation Plan [RAIP]) for the Lower Three Runs IOU (Upper Subunit) were submitted by USDOE and approved by SCDHEC. USEPA approval of the documents was pending at the end of FY2022.

## 2.4 Annual Update of FFA Appendices

USDOE submits six (6) FFA appendices to USEPA and SCDHEC for their review, comment, and approval each fiscal year as discussed below.

### 2.4.1 Appendices C, G, H, and K

In accordance with the terms of the FFA, USDOE submitted Revision 0 of Appendix C, RCRA/CERCLA Units List, Appendix G, SEAs, and Appendix K, Deactivation and Decommissioning (D&D) Facilities for FY2022, on September 16, 2021. In their letter dated January 12, 2022, SCDHEC approved the Revision 0 Appendices C and G, as submitted, and provided comments on the Revision 0 Appendix K. USEPA approved Revision 0 of Appendices C, G, and K in their letter dated January 18, 2022. USDOE submitted responses to SCDHEC's comments on Appendix K on January 31, 2022. The USDOE submittal letter stated that upon approval of the responses, an editorial change will be made to Revision 0 Appendix K prior to adding it to the FFA. No other changes to Appendix K were proposed. SCDHEC approved the responses in their letter dated February 2, 2022. No response was required from USEPA since they approved the Revision 0 submittals.

In accordance with the terms of the FFA, USDOE submitted Revision 0 of Appendix H, Solid Waste Management Units for FY2022, on September 16, 2021. SCDHEC and USEPA approved Revision 0 Appendix H in their letters dated January 12, 2022, and January 18, 2022, respectively.

These four (4) appendices are due by October 1 of each year.

### 2.4.2 Appendix D, Timetables and Deadlines

Appendix D identifies current fiscal year milestones. After receipt of their annual budget, USDOE develops this list based on the allocated funding. Appendix D is due 30 business days after receipt of the annual budget allotment from USDOE-Headquarters. USDOE submitted the FY2022 Budget Allotment notification and Revision 0 Appendix D for FY2022 on June 21, 2022. The SCDHEC and USEPA approved Revision 0 of Appendix D in their respective letters dated June 27, 2022.

The Revision 0 Appendix D for FY2022, Timetables and Deadlines, lists numerous milestone dates. These include primary documents, annual updates to the FFA Appendices, Site Evaluation (SE) Reports, supporting documents, the initiation of RFI/RI Field Starts and remedial action (RA)

Starts, and the issuance of RODs. All milestones listed in Appendix D (i.e., all enforceable milestones for FY2022) were accomplished on time or ahead of schedule.

### ***2.4.3 Appendix E, Long Term Projections***

Appendix E identifies out-year milestones. The Parties use this appendix to develop an understanding of the resource needs that the implementation and oversight of the environmental restoration activities will require. In accordance with the FFA, USDOE submitted Revision 0 of Appendix E, Long-Term Projections for FY2022, on November 15, 2021. SCDHEC and USEPA provided comments on Revision 0 Appendix E, Long-Term Projections for FY2022 on December 20, 2021 and January 2, 2022, respectively. USDOE submitted the SRS' responses to the regulatory comments and Revision 1 of Appendix E, Long-Term Projections for FY2022 on January 24, 2022. SCDHEC and USEPA approved the Revision 1 Appendix E, Long-Term Projections for FY2022 in their respective letters dated February 14, 2022. Appendix E was updated throughout FY2022 based on regulatory approved changes to the milestones.

Appendix E is due by November 15 of each year.

## **2.5 Disputes**

There were no disputes in FY2022.

## **2.6 Site Evaluation Program**

Section X of the FFA requires USDOE to submit to SCDHEC and USEPA Removal SE Reports for those areas with potential or known releases of hazardous substances not identified before the effective date of the agreement. USDOE did not submit any Removal SE Report/Engineering Evaluation/Cost Analysis during FY2022.

Section X of the FFA also requires USDOE to submit Remedial SE Reports to the SCDHEC and USEPA for those areas listed in Appendix G.1 of the Agreement. USDOE did not submit any Remedial SE Reports during FY2022.

## **2.7 Administrative Record File/Information Repository File**

CERCLA, 42 United States Code §9613(k), Administrative Record and Participation Procedures, and National Oil and Hazardous Substances Pollution Contingency Plan, Subpart I – Administrative Record for Selection of Response Action, require the establishment of an administrative record that documents the investigation and selection of remedial alternatives/response actions. In addition, the Administrative Record File (ARF) is concerned with the presentation of evidence in the event of litigation. The ARF must be established at or near the facility at issue.

An Information Repository File (IRF) contains information and documents that do not meet the definition of ARFs, but contain Site and unit information, documents on Site and unit activities, and general information.

In accordance with the terms of Section XXXIV, Administrative Record, Subsection E, of the FFA, the USDOE provides an annual report of the ARF/IRF Indices to SCDHEC and USEPA for the prior FY by December 1 of the current FY. For several years, USDOE provided this report along with compact disks that contained portable document formats (PDFs) of ARF records. USDOE submitted the ARF/IRF Annual Indices Update (SRNS-RP-2021-05286, November 2021) to SCDHEC and USEPA on November 18, 2021. Based on discussions and agreements among USDOE, SCDHEC, and USEPA, this annual report and compact disks will no longer be submitted. The information is publicly available on the SRS external web page. The FFA will be updated to reflect this decision through a minor modification.

In 2020, SRS began posting PDFs of the ARF/IRF records on the SRS external web page, specifically the Area Completion Projects ARF/IRF web page (see <http://www.srs.gov/general/programs/soil/arf/arfirf.html>). In addition, this external web page contains an Index of Documents. This index is currently dated 10/20/2022 and lists entries numbered from 000001 to 023928. The PDFs that are currently posted on the SRS external web page are dated from 10/1/2017 to 9/30/2022. The Index of Documents and PDFs will be updated quarterly. Historical PDFs will be added at a later date.

### **3.0 OUTCOME OF EXTENSION NOTIFICATIONS AND REQUESTS**

The FFA provides for two (2) types of extensions for milestones: 1) an Extension Notification or 2) an Extension Request.

An Extension Notification is covered under the terms of Section XXII. Review/Comment on Documents, Subsection G. Review and Comment on Documents. SCDHEC or USEPA may extend their review/comment period up to 30 days, and SRS may extend its revision period up to 30 days. These extensions require the notifying Party to provide written notification of the extension. These extensions notifications do not require the other Party's approval. However, if an Extension Notification impacts a subsequent milestone, it may necessitate the submittal of an Extension Request. Extension requests are covered under the terms of Section XXXI. Extensions.

During FY2022, SRS submitted one Extension Request and three Extension Notifications. USEPA submitted one Extension Notification. Table 2 documents the outcome of extension notifications and requests for FY2022. The table describes the main milestones affected.

#### **4.0 STATUS OF SEAS, RCRA/CERCLA UNITS AND IOUS**

Table 3 documents work planned and accomplished in FY2022 and work planned for FY2023. Table 3 presents a listing of SEAs, RCRA/CERCLA Units, and IOUs in alphabetical order. The milestones identified in Table 3 are those listed in Appendix D of the FFA. Milestones/Submittals accomplished, not included in Appendix D, are included under the column “FY2022 Work Accomplished (Other)”.

**Table 1. USDOE-SR Contractors**

Contractor Name	Responsibility
Savannah River Nuclear Solutions, LLC	Management & Operating Contract
Battelle Savannah River Alliance, LLC	Management & Operating Contract for Savannah River National Laboratory (effective June 21, 2021)
Savannah River Mission Completion, LLC (assumed Liquid Waste operations from Savannah River Remediation, LLC [SRR] in February 2022; assumed Solid Waste Processing Facility operations from SRR in March 2022)	Liquid Waste Contract (awarded October 2021), including Salt Waste Processing Facility
Savannah River Ecology Laboratory	Ecological Research
Savannah River Archaeological Research Program	Cultural Resource Management
Centerra – SRS	Security Services
United States Department of Agriculture Forest Service – SR	Natural Resource Management
Ameresco Federal Solutions, Inc.	Supply steam and electricity

Table 2. Extension Notifications and Requests

USDOE Letter Number	Letter Date	Unit Affected	Main Milestone Affected	Request or Notification	Extension (From/To)	Outcome
IACD-22-108	11/16/2021	F-Area OU Early Action	USDOE Second Extension Request for the Submittal of the Early Action RCRA Facility Investigation/Remedial Investigation Work Plan (Revision 0) and Subsequent Milestones in Support of the F-Area Operable Unit	Request	Work Plan: 1/28/2022 to 1/28/2023 Field Start: 1/28/2023 to 1/28/2024 RI/BRA/FS: 2/22/2024 to 2/24/2025 PP: 12/24/2024 to 12/24/2025 ROD: 8/12/2025 to 8/12/2026 Issue ROD: 4/29/2026 to 4/29/2027 RAIP: 1/28/2026 to 1/28/2027 LUCIP: 1/28/2026 to 1/28/2027 RA Start: 07/28/2027 to 07/28/2028	Approved
IACD-22-133	3/2/2022	D-Area Groundwater OU	USDOE Thirty (30)-Day Extension Notification for the RCRA Facility Investigation/Remedial Investigation Work Plan for the D-Area Groundwater Operable Unit (D-Area Upgradient Sources) (U) (SRNS-RP-2019-00394, Revision 1) and Savannah River Site's Responses to the Regulatory Comments on the Revision 0 Document	Notification	3/16/2022 to 4/15/2022	N/A

**Table 2. Extension Notifications and Requests (Continued/End)**

USDOE Letter Number	Letter Date	Unit Affected	Main Milestone Affected	Request or Notification	Extension (From/To)	Outcome
IACD-22-134	3/8/2022	ECODS N-1 (NBN), Central Shops Scrap Lumber Pile (631-2G), and Building 690-N, Process Heat Exchanger Repair Facility (aka Ford Building) OU	USDOE Thirty (30)-Day Extension Notification for the Resource Conservation and Recovery Act Facility Investigation/Remedial Investigation Report with Baseline Risk Assessment and Corrective Measures Study/Feasibility Study for the Early Construction and Operational Disposal Site N-1 (NBN), Central Shops Scrap Lumber Pile (631-2G), and Building 690-N, Process Heat Exchanger Repair Facility (aka Ford Building) Operable Unit (U) (SRNS-RP-2021-00548, Revision 1 Redline) and Savannah River Site's Responses to the Regulatory Comments on the Revision 0 Document	Notification	3/25/2022 to 4/25/2022	N/A
IACD-22-150	6/9/2022	Sixth Five-Year Remedy Review Report for SRS OUs with Geosynthetic (Geo) or Stabilization / Solidification (S/S) Cover Systems	USDOE Thirty (30)-Day Extension Notification for the Sixth Five-Year Remedy Review Report for SRS OUs with Geo or S/S Cover Systems (U) Aiken, South Carolina (SRNS-RP-2021-04229, Revision 1 and SRS' Responses to the Regulatory Comments on the Revision 0 Document	Notification	6/13/2022 to 7/13/2022	N/A
N/A	8/25/2022	D-Area Coal Storage Area (484-17D)	USEPA Thirty (30)-Day Extension Notification for Submittal of Comments on the Removal Action Report for the D-Area Coal Storage Area (484-17D) (SRNS-RP-2022-00071, Revision 0, June 2022)	Notification	8/28/2022 to 9/28/2022	N/A

BRA – Baseline Risk Assessment  
FS – Feasibility Study  
Geo – Geosynthetic  
LUCIP – Land Use Control Implementation Plan  
N/A – Not Applicable  
PP – Proposed Plan

RA – Remedial Action  
RAIP – Remedial Action Implementation Plan  
RI – Remedial Investigation  
ROD – Record of Decision  
S/S – Stabilization/Solidification

**Table 3. Status of Site Evaluation Areas, RCRA/CERCLA Units, and Integrator Operable Units**

RCRA/CERCLA Units or SEAs	FY2022 Work Planned	FY2022 Work Accomplished (Appendix D Milestones)	FY2022 Work Accomplished (Other)	FY2023 Work Planned
A-Area Burning/Rubble Pits (731-A, 731-1A) and A-Area Rubble Pit (731-2A) and Miscellaneous Chemical Basin (741-4A)/ Metal Burning Pit (731-5A) [includes the A-Area Ash Pile (788-2A)] OU	<ul style="list-style-type: none"> <li>Submit Annual Performance Evaluation Report (PER)</li> <li>Conduct post-closure activities</li> </ul>	<ul style="list-style-type: none"> <li>Submitted Annual PER</li> </ul>	<ul style="list-style-type: none"> <li>Conducted post-closure activities</li> </ul>	<ul style="list-style-type: none"> <li>Submit Annual PER</li> <li>Conduct post-closure activities</li> <li>Submit Sampling and Analysis Plan</li> </ul>
A-Area Miscellaneous Rubble Pile (731-6A) OU	<ul style="list-style-type: none"> <li>Conduct post-closure activities</li> </ul>		<ul style="list-style-type: none"> <li>Conducted post-closure activities</li> </ul>	<ul style="list-style-type: none"> <li>Conduct post-closure activities</li> </ul>
A-Area Ash Pile (788-0A) and A-Area Coal Pile Runoff Basin (788-3A) OU	<ul style="list-style-type: none"> <li>Perform berm stability inspection</li> </ul>		<ul style="list-style-type: none"> <li>Performed berm stability inspection</li> </ul>	<ul style="list-style-type: none"> <li>Perform berm stability inspection</li> </ul>
B-Area Operable Unit <sup>1</sup>	<ul style="list-style-type: none"> <li>Conduct post-closure activities</li> </ul>		<ul style="list-style-type: none"> <li>Conducted post-closure activities</li> </ul>	<ul style="list-style-type: none"> <li>Conduct post-closure activities</li> </ul>
C-Area Burning/Rubble Pit and Old C-Area Burning/Rubble Pit OU	<ul style="list-style-type: none"> <li>Conduct post-closure activities</li> </ul>		<ul style="list-style-type: none"> <li>Conducted post-closure activities</li> </ul>	<ul style="list-style-type: none"> <li>Submit Biennial Effectiveness Monitoring Report (EMR)</li> <li>Conduct post-closure activities</li> </ul>
C-Area Groundwater OU	<ul style="list-style-type: none"> <li>Submit EMR for Removal Action</li> <li>Perform removal action monitoring activities</li> </ul>		<ul style="list-style-type: none"> <li>Submitted EMR for Removal Action</li> <li>Performed removal action monitoring activities</li> </ul>	<ul style="list-style-type: none"> <li>Submit EMR for Removal Action</li> <li>Perform removal action monitoring activities</li> </ul>
C-Area Operable Unit <sup>1</sup>	<ul style="list-style-type: none"> <li>Conduct post-closure activities</li> </ul>		<ul style="list-style-type: none"> <li>Conducted post-closure activities</li> </ul>	<ul style="list-style-type: none"> <li>Conduct post-closure activities</li> </ul>
C-Reactor Complex	<ul style="list-style-type: none"> <li>Conduct post-closure activities (Early Action [EA])</li> </ul>		<ul style="list-style-type: none"> <li>Conducted post-closure activities (EA)</li> </ul>	<ul style="list-style-type: none"> <li>Conduct post-closure activities (EA)</li> </ul>

**Table 3. Status of Site Evaluation Areas, RCRA/CERCLA Units, and Integrator Operable Units (Continued)**

RCRA/CERCLA Units or SEAs	FY2022 Work Planned	FY2022 Work Accomplished (Appendix D Milestones)	FY2022 Work Accomplished (Other)	FY2023 Work Planned
CMP Pits (080-170G, -171G, -180G, -181G, -182G, -183G, -190G) OU	<ul style="list-style-type: none"> <li>Submit Annual EMR</li> <li>Conduct post-closure activities</li> </ul>	<ul style="list-style-type: none"> <li>Submitted Annual EMR</li> </ul>	<ul style="list-style-type: none"> <li>Conducted post-closure activities</li> </ul>	<ul style="list-style-type: none"> <li>Submit Annual EMR</li> <li>Conduct post-closure activities</li> </ul>
D-Area Expanded OU	<ul style="list-style-type: none"> <li>Conduct post-closure activities</li> </ul>		<ul style="list-style-type: none"> <li>Conducted post-closure activities</li> </ul>	<ul style="list-style-type: none"> <li>Conduct post-closure activities</li> </ul>
D-Area Groundwater OU	<ul style="list-style-type: none"> <li>Submit D-Area Groundwater OU Treatability Study Data Report</li> <li>Submit D-Area Groundwater OU RFI/RI Work Plan (Revision 1)</li> <li>Submit 488-4D Ash Landfill Groundwater Monitoring Report (GMR)</li> <li>Conduct post-closure activities</li> </ul>	<ul style="list-style-type: none"> <li>Submitted D-Area Groundwater OU Treatability Study Data Report</li> <li>Submitted 488-4D Ash Landfill GMR</li> </ul>	<ul style="list-style-type: none"> <li>Conducted post-closure activities</li> <li>Submitted D-Area Groundwater OU RFI/RI Work Plan (Revision 1)</li> </ul>	<ul style="list-style-type: none"> <li>Submit D-Area Groundwater OU GMR for calendar years 2021 and 2022</li> <li>Conduct post-closure activities</li> <li>Submit D-Area Groundwater OU Treatability Study Data Report</li> <li>Submit 488-4D Ash Landfill GMR</li> </ul>
D-Area Oil Seepage Basin (631-G) OU	<ul style="list-style-type: none"> <li>Submit Groundwater Mixing Zone (GWMZ) Report</li> <li>Conduct post-closure activities</li> </ul>	<ul style="list-style-type: none"> <li>Submitted GWMZ Report</li> </ul>	<ul style="list-style-type: none"> <li>Conducted post-closure activities</li> </ul>	<ul style="list-style-type: none"> <li>Submit GWMZ Letter Report</li> <li>Conduct post-closure activities</li> </ul>
D-Area Operable Unit <sup>1</sup>	<ul style="list-style-type: none"> <li>Submit Second EA Post-Construction Report (PCR) (Revision 0)</li> <li>Conduct post-closure activities</li> </ul>	<ul style="list-style-type: none"> <li>Submitted Second EA PCR (Revision 0)</li> </ul>	<ul style="list-style-type: none"> <li>Conducted post-closure activities</li> </ul>	<ul style="list-style-type: none"> <li>Submit Second EA PCR (Revision 1)</li> <li>Conduct post-closure activities</li> </ul>

**Table 3. Status of Site Evaluation Areas, RCRA/CERCLA Units, and Integrator Operable Units (Continued)**

RCRA/CERCLA Units or SEAs	FY2022 Work Planned	FY2022 Work Accomplished (Appendix D Milestones)	FY2022 Work Accomplished (Other)	FY2023 Work Planned
E-Area Low Level Waste Facility (643-26E)	<ul style="list-style-type: none"> <li>Conduct post-construction activities</li> </ul>		<ul style="list-style-type: none"> <li>Conducted post-construction activities</li> </ul>	<ul style="list-style-type: none"> <li>Conduct post-construction activities</li> </ul>
ECODS L-1, N-2, P-2, R-1A, R-1B, and R-1C OU	<ul style="list-style-type: none"> <li>Conduct post-closure activities</li> </ul>		<ul style="list-style-type: none"> <li>Conducted post-closure activities</li> </ul>	<ul style="list-style-type: none"> <li>Conduct post-closure activities</li> </ul>
ECODS L-3, L-Area Rubble Pit (131-1L) and L-Area Rubble Pit (131-4L) OU	<ul style="list-style-type: none"> <li>Submit RFI/RI Work Plan (Revisions 0 and 1)</li> <li>Initiate Field Start</li> </ul>	<ul style="list-style-type: none"> <li>Submitted RFI/RI Work Plan (Revision 0)</li> <li>Initiated Field Start</li> </ul>	<ul style="list-style-type: none"> <li>Submitted RFI/RI Work Plan (Revision 1)</li> </ul>	<ul style="list-style-type: none"> <li>Conduct Characterization Activities</li> </ul>
ECODS N-1, Central Shops Scrap Lumber Pile, and Building 690-N OU	<ul style="list-style-type: none"> <li>Submit RFI/RI Report with BRA and CMS/FS (Revisions 0 and 1)</li> <li>Submit SB/PP (Revision 0)</li> </ul>	<ul style="list-style-type: none"> <li>Submitted RFI/RI Report with BRA and CMS/FS (Revision 0)</li> <li>Submitted SB/PP (Revision 0)</li> </ul>	<ul style="list-style-type: none"> <li>Submitted RFI/RI Report with BRA and CMS/FS (Revision 1)</li> </ul>	<ul style="list-style-type: none"> <li>Submit SB/PP (Revision 1)</li> <li>Submit ROD (Revisions 0 and 1)</li> <li>Submit CMIP/RAIP (Revision 0)</li> <li>Submit LUCIP (Revision 0)</li> </ul>
F- and H-Area Hazardous Waste Management Facilities (HWMFs) Groundwater	<ul style="list-style-type: none"> <li>Collect quarterly samples from Fourmile Branch (FMB) and seepline</li> <li>Collect monthly flow measurements and tritium samples from FMB</li> <li>Continue base injection system operations</li> <li>Submit Annual Corrective Action Report (CAR)</li> <li>Submit proposed Point of Compliance (POC) wells for Appendix IX sampling</li> </ul>		<ul style="list-style-type: none"> <li>Collected quarterly samples from FMB and seepline</li> <li>Collected monthly flow measurements and tritium samples from FMB</li> <li>Continued base injection system operations</li> <li>Submitted Annual CAR</li> </ul>	<ul style="list-style-type: none"> <li>Collect quarterly samples from FMB and seepline</li> <li>Collect monthly flow measurements and tritium samples from FMB</li> <li>Continue base injection system operations</li> <li>Submit Annual CAR</li> <li>Submit proposed POC wells for Appendix IX sampling</li> </ul>

**Table 3. Status of Site Evaluation Areas, RCRA/CERCLA Units, and Integrator Operable Units (Continued)**

RCRA/CERCLA Units or SEAs	FY2022 Work Planned	FY2022 Work Accomplished (Appendix D Milestones)	FY2022 Work Accomplished (Other)	FY2023 Work Planned
F- and H-Area Hazardous Waste Management Facilities (HWMFs) Groundwater ( <i>cont'd/end</i> )	<ul style="list-style-type: none"> <li>Submit 2013 RCRA Permit Renewal Applications (Revision 3)</li> </ul>		<ul style="list-style-type: none"> <li>Submitted proposed POC wells for Appendix IX sampling</li> <li>Submitted 2013 RCRA Permit Renewal Applications (Revision 3)</li> </ul>	<ul style="list-style-type: none"> <li>Submit proposed POC wells for Appendix IX sampling</li> </ul>
F-Area Retention Basin (281-3F) OU	<ul style="list-style-type: none"> <li>Conduct groundwater sampling under General Separations Area (GSA) Western Groundwater OU</li> </ul>		<ul style="list-style-type: none"> <li>Conducted groundwater sampling under GSA Western Groundwater OU</li> </ul>	<ul style="list-style-type: none"> <li>Conduct groundwater sampling under GSA Western Groundwater OU</li> </ul>
General Separations Area Consolidation Unit (GSACU) [combines H-Area Retention Basin (281-3H), HP-52 Ponds (NBN), Old Radioactive Waste Burial Ground (ORWBG) (643-E), and Warner's Pond (685-23G)]	<ul style="list-style-type: none"> <li>Conduct post-closure activities</li> </ul>		<ul style="list-style-type: none"> <li>Conducted post-closure activities</li> </ul>	<ul style="list-style-type: none"> <li>Conduct post-closure activities</li> </ul>
GSA Eastern Groundwater OU (NBN) [formerly the H-Area Groundwater OU (NBN)]	<ul style="list-style-type: none"> <li>Collect annual groundwater samples</li> <li>Submit annual scoping summary</li> </ul>		<ul style="list-style-type: none"> <li>Collected annual groundwater samples</li> <li>Submitted annual scoping summary</li> </ul>	<ul style="list-style-type: none"> <li>Collect annual groundwater samples</li> <li>Submit annual scoping summary</li> </ul>
GSA Western Groundwater OU (NBN) [formerly the F-Area Tank Farm Groundwater and F-Area Canyon Groundwater OUs (NBN)]	<ul style="list-style-type: none"> <li>Collect annual groundwater samples</li> <li>Submit annual scoping summary</li> </ul>		<ul style="list-style-type: none"> <li>Collected annual groundwater samples</li> <li>Submitted annual scoping summary</li> </ul>	<ul style="list-style-type: none"> <li>Collect annual groundwater samples</li> <li>Submit annual scoping summary</li> </ul>

**Table 3. Status of Site Evaluation Areas, RCRA/CERCLA Units, and Integrator Operable Units (Continued)**

RCRA/CERCLA Units or SEAs	FY2022 Work Planned	FY2022 Work Accomplished (Appendix D Milestones)	FY2022 Work Accomplished (Other)	FY2023 Work Planned
Gunsite 012 OU [consisting of Gunsite 012 Rubble Pile (NBN), Rubble Pile Across from Gunsite 012 (NBN), and ECODS G-3 (NBN)]	<ul style="list-style-type: none"> <li>Conduct post-closure activities</li> </ul>		<ul style="list-style-type: none"> <li>Conducted post-closure activities</li> </ul>	<ul style="list-style-type: none"> <li>Conduct post-closure activities</li> </ul>
K-Area Burning/Rubble Pit and Rubble Pile (131-K and 631-20G), and P-Area Burning/ Rubble Pit (131-P) OUs	<ul style="list-style-type: none"> <li>Submit Combined GMR</li> <li>Conduct post-closure activities</li> </ul>	<ul style="list-style-type: none"> <li>Submitted Combined GMR</li> </ul>	<ul style="list-style-type: none"> <li>Conducted post-closure activities</li> </ul>	<ul style="list-style-type: none"> <li>Submit Combined GMR (Sampling Summary)</li> <li>Conduct post-closure activities</li> </ul>
K-Reactor Complex	<ul style="list-style-type: none"> <li>Conduct post-closure activities (EA)</li> </ul>		<ul style="list-style-type: none"> <li>Conducted post-closure activities (EA)</li> </ul>	<ul style="list-style-type: none"> <li>Conduct post-closure activities (EA)</li> </ul>
L-Area Southern Groundwater OU	<ul style="list-style-type: none"> <li>Submit EMR (Data Summary)</li> <li>Conduct groundwater monitoring</li> </ul>	<ul style="list-style-type: none"> <li>Submitted EMR (Data Summary)</li> </ul>	<ul style="list-style-type: none"> <li>Conducted groundwater monitoring</li> </ul>	<ul style="list-style-type: none"> <li>Conduct groundwater monitoring</li> </ul>
L-Reactor Complex	<ul style="list-style-type: none"> <li>Conduct post-closure activities (EA)</li> </ul>		<ul style="list-style-type: none"> <li>Conducted post-closure activities (EA)</li> </ul>	<ul style="list-style-type: none"> <li>Conduct post-closure activities (EA)</li> </ul>
Lower Three Runs IOU [including P and R Pond (685G), Pre-Cooler Ponds and Canals, and Old R-Area Discharge Canal]	<ul style="list-style-type: none"> <li>Issue ROD</li> <li>Submit LUCIP (Revisions 0 and 1)</li> <li>Submit RAIP (Revisions 0 and 1)</li> <li>Submit Monitored Natural Recovery Effectiveness Plan (Revisions 0 and 1)</li> <li>Conduct post-closure activities (EA)</li> </ul>	<ul style="list-style-type: none"> <li>Issued ROD</li> <li>Submitted LUCIP (Revision 0)</li> <li>Submitted RAIP (Revision 0)</li> </ul>	<ul style="list-style-type: none"> <li>Submitted LUCIP (Revision 1)</li> <li>Submitted RAIP (Revision 1)</li> <li>Submitted Monitored Natural Recovery Effectiveness Plan (Revisions 0 and 1)</li> <li>Conducted post-closure activities (EA)</li> </ul>	<ul style="list-style-type: none"> <li>Initiate Remedial Action</li> <li>Conduct post-closure activities (EA)</li> </ul>

**Table 3. Status of Site Evaluation Areas, RCRA/CERCLA Units, and Integrator Operable Units (Continued)**

RCRA/CERCLA Units or SEAs	FY2022 Work Planned	FY2022 Work Accomplished (Appendix D Milestones)	FY2022 Work Accomplished (Other)	FY2023 Work Planned
M-Area Operable Unit <sup>1</sup>	<ul style="list-style-type: none"> <li>Conduct post-closure activities</li> </ul>		<ul style="list-style-type: none"> <li>Conducted post-closure activities</li> </ul>	<ul style="list-style-type: none"> <li>Conduct post-closure activities</li> </ul>
M-Area HWMF: Vadose Zone (643-28G)	<ul style="list-style-type: none"> <li>Continue characterization of vadose zone</li> <li>Continue operation of M-Area Settling Basin (MASB) Western Sector Treatment System (WSTS) and other vadose zone corrective action (CA) systems</li> <li>Submit annual WSTS polychlorinated biphenyl (PCB) progress report</li> <li>Submit Annual CA and GMR</li> <li>Submit 2013 RCRA Permit Renewal Application (Revisions 2 and 3)</li> <li>Submit WSTS TSCA Risk-Based PCB Remediation Permit Renewal Application</li> <li>Submit Soil Vapor Extraction Evaluation Report</li> </ul>		<ul style="list-style-type: none"> <li>Continued characterization of vadose zone</li> <li>Continued operation of MASB WSTS and other vadose zone CA systems</li> <li>Submitted annual WSTS PCB progress report</li> <li>Submitted Annual CA and GMR</li> <li>Submitted 2013 RCRA Permit Renewal Application (Revisions 2 and 3)</li> <li>Submitted WSTS TSCA Risk-Based PCB Remediation Permit Renewal Application</li> <li>Submitted Soil Vapor Extraction Evaluation Report</li> </ul>	<ul style="list-style-type: none"> <li>Continue characterization of vadose zone</li> <li>Continue operation of MASB WSTS and other vadose zone CA systems</li> <li>Submit annual WSTS PCB progress report</li> <li>Submit Annual CA and GMR</li> </ul>

**Table 3. Status of Site Evaluation Areas, RCRA/CERCLA Units, and Integrator Operable Units (Continued)**

RCRA/CERCLA Units or SEAs	FY2022 Work Planned	FY2022 Work Accomplished (Appendix D Milestones)	FY2022 Work Accomplished (Other)	FY2023 Work Planned
M-Area HWMF: A/M Area Groundwater Portion (904-110G)	<ul style="list-style-type: none"> <li>• Submit Annual Appendix IX POC Well Sampling Proposal</li> <li>• Continued operation of the WSTS and other CA systems</li> <li>• Continue additional characterization of suspect volatile organic compound (VOC) sources</li> <li>• Continue groundwater monitoring</li> <li>• Submit the Annual CA and GMR</li> <li>• Submit Northwest of MASB Underground Injection Control Application (Emulsified Zero Valent Iron [EZVI])</li> <li>• Submit 2013 RCRA Permit Renewal Application (Revisions 2 and 3)</li> </ul>		<ul style="list-style-type: none"> <li>• Submitted Annual Appendix IX POC Well Sampling Proposal</li> <li>• Continued operation of WSTS and other CA systems</li> <li>• Continued additional characterization of suspect VOC sources</li> <li>• Continued groundwater monitoring</li> <li>• Submitted Annual CA and GMR</li> <li>• Submitted Northwest of MASB Underground Injection Control Application (EZVI)</li> <li>• Submitted 2013 RCRA Permit Renewal Application (Revisions 2 and 3)</li> </ul>	<ul style="list-style-type: none"> <li>• Submit Annual Appendix IX POC Well Sampling Proposal</li> <li>• Continued operation of the WSTS and other CA systems</li> <li>• Continue additional characterization of suspect VOC sources</li> <li>• Continue groundwater monitoring</li> <li>• Submit the Annual CA and GMR</li> <li>• Submit 2013 RCRA Permit Renewal Application (Revisions 2 and 3)</li> <li>• Submit Western Sector In-Situ Chemical Oxidation Final Report (Revision 0)</li> </ul>
MASB Inactive Process Sewers to Manhole 1 (081-M) OU	<ul style="list-style-type: none"> <li>• Conduct post-closure activities</li> </ul>		<ul style="list-style-type: none"> <li>• Conducted post-closure activities</li> </ul>	<ul style="list-style-type: none"> <li>• Conduct post-closure activities</li> </ul>
MASB (904-51G)	<ul style="list-style-type: none"> <li>• Conduct post-closure activities</li> </ul>		<ul style="list-style-type: none"> <li>• Conducted post-closure activities</li> </ul>	<ul style="list-style-type: none"> <li>• Conduct post-closure activities</li> </ul>

**Table 3. Status of Site Evaluation Areas, RCRA/CERCLA Units, and Integrator Operable Units (Continued)**

RCRA/CERCLA Units or SEAs	FY2022 Work Planned	FY2022 Work Accomplished (Appendix D Milestones)	FY2022 Work Accomplished (Other)	FY2023 Work Planned
Metallurgical Laboratory (Met Lab) / Carolina Bay (904-110G)	<ul style="list-style-type: none"> <li>• Submit Annual Appendix IX POC Well Sampling Proposal</li> <li>• Continue groundwater monitoring</li> <li>• Submit Annual CA and GMR</li> <li>• Continue operation of the existing Met Lab recovery wells and BaroBall™ wells</li> <li>• Conduct post-closure activities</li> <li>• Submit 2013 RCRA Permit Renewal Application (Revisions 2 and 3)</li> </ul>		<ul style="list-style-type: none"> <li>• Submitted Annual Appendix IX POC Well Sampling Proposal</li> <li>• Continued groundwater monitoring</li> <li>• Submitted Annual CA and GMR</li> <li>• Continued operation of the existing Met Lab recovery wells and BaroBall™ wells</li> <li>• Conducted post-closure activities</li> <li>• Submitted 2013 RCRA Permit Renewal Application (Revisions 2 and 3)</li> </ul>	<ul style="list-style-type: none"> <li>• Submit Annual Appendix IX POC Well Sampling Proposal</li> <li>• Continue groundwater monitoring</li> <li>• Submit Annual CA and GMR</li> <li>• Continue operation of the existing Met Lab recovery wells and BaroBall™ wells</li> <li>• Conduct post-closure activities</li> </ul>
Mixed Waste Management Facility (Groundwater)	<ul style="list-style-type: none"> <li>• Conduct operation and effectiveness monitoring of the tritium phytoremediation system at the Southwest Plume (SWP)</li> <li>• Maintain compliance with groundwater monitoring</li> <li>• Submit the proposed POC wells for Appendix IX sampling</li> <li>• Submit Annual CAR</li> </ul>		<ul style="list-style-type: none"> <li>• Conducted operations and effectiveness monitoring of the tritium phytoremediation system at the SWP</li> <li>• Maintained compliance with groundwater monitoring</li> <li>• Submitted the proposed POC wells for Appendix IX sampling</li> <li>• Submitted Annual CAR</li> </ul>	<ul style="list-style-type: none"> <li>• Conduct operations and effectiveness monitoring of the tritium phytoremediation system at the SWP</li> <li>• Maintain compliance with groundwater monitoring</li> <li>• Submit the proposed POC wells for Appendix IX sampling</li> <li>• Submit Annual CAR</li> <li>• Submit 2023 RCRA Permit Renewal Application (Revision 0)</li> </ul>

**Table 3. Status of Site Evaluation Areas, RCRA/CERCLA Units, and Integrator Operable Units (Continued)**

RCRA/CERCLA Units or SEAs	FY2022 Work Planned	FY2022 Work Accomplished (Appendix D Milestones)	FY2022 Work Accomplished (Other)	FY2023 Work Planned
P-Area Operable Unit <sup>1</sup>	<ul style="list-style-type: none"> <li>Conduct post-closure activities</li> </ul>		<ul style="list-style-type: none"> <li>Conducted post-closure activities</li> </ul>	<ul style="list-style-type: none"> <li>Conduct post-closure activities</li> </ul>
P-Area Groundwater OU	<ul style="list-style-type: none"> <li>Conduct Permeable Reactive Barrier (PRB) removal action monitoring</li> <li>Submit P-Area Groundwater OU Data Summary Tables</li> </ul>		<ul style="list-style-type: none"> <li>Conducted PRB removal action monitoring</li> <li>Submitted P-Area Groundwater OU Data Summary Tables</li> </ul>	<ul style="list-style-type: none"> <li>Submit P-Area Groundwater OU EMR</li> <li>Conduct PRB removal action monitoring</li> <li>Submit P-Area Groundwater OU PRB Removal Action Report</li> </ul>
R-Area OU <sup>1</sup>	<ul style="list-style-type: none"> <li>Conduct post-closure activities</li> </ul>		<ul style="list-style-type: none"> <li>Conducted post-closure activities</li> </ul>	<ul style="list-style-type: none"> <li>Submit Biennial Groundwater EMR</li> <li>Conduct post-closure activities</li> </ul>
R-Area Burning/Rubble Pits (131-R, -1R) and Rubble Pile (631-25G) OU	<ul style="list-style-type: none"> <li>Conduct post-closure activities</li> </ul>		<ul style="list-style-type: none"> <li>Conducted post-closure activities</li> </ul>	<ul style="list-style-type: none"> <li>Conduct post-closure activities</li> </ul>
R-Area Reactor Seepage Basins (904-57G, -58G, -59G, -60G, -103G, -104G) and 108-4R Overflow Basin OU	<ul style="list-style-type: none"> <li>Conduct post-closure monitoring</li> <li>Submit Biennial GWMZ Report</li> </ul>	<ul style="list-style-type: none"> <li>Submitted Biennial GWMZ Report</li> </ul>	<ul style="list-style-type: none"> <li>Conducted post-closure monitoring activities</li> </ul>	<ul style="list-style-type: none"> <li>Conduct post-closure monitoring activities</li> </ul>
Sandblast Area CMH-002 (NBN) and Spill on 02/01/57 of Unknown of Seepage Basin Pipe Leak from 904-44G OU				<ul style="list-style-type: none"> <li>Submit RFI/RI Work Plan (Revision 0)</li> </ul>

**Table 3. Status of Site Evaluation Areas, RCRA/CERCLA Units, and Integrator Operable Units (Continued)**

RCRA/CERCLA Units or SEAs	FY2022 Work Planned	FY2022 Work Accomplished (Appendix D Milestones)	FY2022 Work Accomplished (Other)	FY2023 Work Planned
Sanitary Landfill (740-G) Groundwater	<ul style="list-style-type: none"> <li>• Submit Annual CA and GMR</li> <li>• Conduct groundwater monitoring</li> </ul>		<ul style="list-style-type: none"> <li>• Submitted Annual CA and GMR</li> <li>• Conducted groundwater monitoring</li> </ul>	<ul style="list-style-type: none"> <li>• Submit Annual CA and GMR</li> <li>• Conduct groundwater monitoring</li> <li>• Submit 2023 RCRA Permit Renewal Application (Revision 0)</li> </ul>
Sanitary Landfill (740-G)	<ul style="list-style-type: none"> <li>• Conduct post-closure activities</li> </ul>		<ul style="list-style-type: none"> <li>• Conducted post-closure activities</li> </ul>	<ul style="list-style-type: none"> <li>• Conduct post-closure activities</li> </ul>
Silverton Road Waste Site (731-3A)	<ul style="list-style-type: none"> <li>• Conduct post-closure activities</li> </ul>		<ul style="list-style-type: none"> <li>• Conducted post-closure activities</li> </ul>	<ul style="list-style-type: none"> <li>• Conduct post-closure activities</li> </ul>
Savannah River Laboratory Seepage Basins (904-53G1, 904-53G2, 904-54G, 904-55G) OU	<ul style="list-style-type: none"> <li>• Conduct post-closure activities</li> </ul>		<ul style="list-style-type: none"> <li>• Conducted post-closure activities</li> </ul>	<ul style="list-style-type: none"> <li>• Conduct post-closure activities</li> </ul>
Steel Creek IOU	<ul style="list-style-type: none"> <li>• Conduct post-closure activities</li> </ul>		<ul style="list-style-type: none"> <li>• Conducted post-closure activities</li> </ul>	<ul style="list-style-type: none"> <li>• Conduct post-closure activities</li> <li>• Submit Explanation of Significant Difference (ESD) for Wetland Area at Dunbarton Bay (WADB) (Revisions 0 and 1)</li> <li>• Issue ESD for WADB</li> <li>• Submit WADB LUCIP (Revision 0)</li> </ul>

**Table 3. Status of Site Evaluation Areas, RCRA/CERCLA Units, and Integrator Operable Units (Continued/End)**

RCRA/CERCLA Units or SEAs	FY2022 Work Planned	FY2022 Work Accomplished (Appendix D Milestones)	FY2022 Work Accomplished (Other)	FY2023 Work Planned
T-Area OU <sup>1</sup>	<ul style="list-style-type: none"> <li>Conduct post-closure activities</li> </ul>		<ul style="list-style-type: none"> <li>Conducted post-closure activities</li> </ul>	<ul style="list-style-type: none"> <li>Conduct post-closure activities</li> </ul>
TNX OU	<ul style="list-style-type: none"> <li>Submit Comprehensive Annual Groundwater and RA Effectiveness Interim Report</li> <li>Conduct post-closure activities</li> </ul>	<ul style="list-style-type: none"> <li>Submitted Comprehensive Annual Groundwater and RA Effectiveness Interim Report</li> </ul>	<ul style="list-style-type: none"> <li>Conducted post-closure activities</li> </ul>	<ul style="list-style-type: none"> <li>Submit Comprehensive Annual Groundwater and RA Effectiveness Interim Report</li> <li>Conduct post-closure activities</li> </ul>

<sup>1</sup> FFA Appendix C.5 lists the Units and Facilities (or Remnants) assigned to each Area OU.

## APPENDIX A

### Land Use Controls Units

During Fiscal Year (FY) 2000, the Parties approved the Land Use Control Assurance Plan (LUCAP) for Savannah River Site (SRS) and signed its associated Memorandum of Agreement. The LUCAP is updated periodically to include additional approved unit-specific Land Use Control Implementation Plans (LUCIPs). The unit-specific LUCIPs detail how SRS will implement, maintain, and monitor the land use control (LUC) elements of the selected remedy to ensure that the remedy remains protective of human health and the environment.

Records of Decision (RODs) have been issued for some Resource Conservation and Recovery Act (RCRA)/Comprehensive Environmental Response, Compensation, and Liability Act Units at the SRS in which the selected alternative is or includes LUCs. To assure United States Environmental Protection Agency, South Carolina Department of Health and Environmental Control, and the public that United States Department of Energy (USDOE) is maintaining the LUCs as stipulated, the Manager, Savannah River Operations Office, shall annually certify these units. These units are currently being controlled in accordance with the unit-specific RODs, unit-specific LUCIPs, and in accordance with the LUCAP for SRS.

Unit-specific LUCs were not part of the interim remedies at the E-Area Low-Level Waste Facility (LLWF) (Slit Trench Disposal Units 1 to 5) Operable Unit (OU) and the F-Area Tank Farm (FTF) OU (Waste Tanks 5, 6, and 17 to 20). The E-Area LLWF and the FTF OU are currently in the operational phase, and OU-specific LUCs are deferred until final closure of the entire E-Area LLWF and FTF OUs. SRS facility security and administrative controls that restrict unauthorized access to these operating facilities were not previously recognized as part of the interim remedies. In the *Fifth Five-Year Remedy Review Report for Savannah River Site Operable Units with Geosynthetic or Stabilization/Solidification Cover Systems* (SRNS-RP-2016-00610, Revision 1.1, December 2017), USDOE recommended revising the Federal Facility Agreement Annual Progress Report list of LUC Units to include these OUs to recognize SRS facility security and administrative controls that restrict unauthorized access as providing long-term protection of human health and the environment.

The H-Area Tank Farm (HTF) OU (Waste Tank 16) Interim ROD (Irod) (SRR-CWDA-2015-00157, Revision 1, July 2016) was issued in August 2016. The HTF OU (Waste Tank 12) Explanation of Significant Difference to the Irod (SRR-CWDA-2016-00107, Revision 0, December 2016) was issued in April 2017. A remedy evaluation was premature for inclusion in the *Fifth Five-Year Remedy Review Report for Savannah River Site Operable Units with Geosynthetic or Stabilization/Solidification Cover Systems* (SRNS-RP-2016-00610, Revision 1.1, December 2017). However, the same conditions apply to the operational HTF OU as to the E-Area LLWF and FTF OUs. Therefore, these OUs were added to the list below to certify long-term protectiveness through compliance with the SRS facility security and administrative controls. A remedy evaluation for the HTF OU (Waste Tanks 12 and 16) was discussed for the first time in the *Sixth Five-Year Remedy Review Report for Savannah River Site Operable Units with Geosynthetic or Stabilization/Solidification Cover Systems* (SRNS-RP-2021-04229, Revision 1, July 2022). Additional slit trench disposal units and waste tanks will be added as interim remedies are implemented.

Unit-specific LUCs were not part of the interim remedy at the C-Area Groundwater (CAGW) OU. The electrical resistance heating with soil vapor extraction interim remedy was determined to be protective of human health and the environment in the short-term. However, for the remedy to be protective in the long-term, additional remedial actions, including LUCs (if needed), will need to be implemented at CAGW OU. SRS facility security and administrative controls that restrict unauthorized access to this OU were not previously recognized as part of the interim remedy. In the *Sixth Five-Year Remedy Review Report for Savannah River Site Operable Units with Groundwater Remedies* (SRNS-RP-2019-00511, Revision 1, July 2020), USDOE recommended revising the FFA Annual Progress Report list of LUC Units to include this OU to recognize SRS facility security and administrative controls that restrict unauthorized access as providing long-term protection of human health and the environment. Therefore, the CAGW OU was added to the list below.

The FY2022 certification is applicable to the following RCRA/CERCLA Units.

<b>Unit Name</b>	<b>SRS Index Number(s)</b>	<b>SEMS Number(s)</b>
A-Area Burning/Rubble Pits (731-A, -1A) and Rubble Pit (731-2A) and the Miscellaneous Chemical Basin/Metals Burning Pit (731-4A and -5A) OU (includes A-Area Ash Pile, 788-2A)	45, 46, 49, 101, 102, 237	28
A-Area Miscellaneous Rubble Pile (731-6A) OU	48	30
B-Area OU (consisting of Heavy Water Components Test Reactor [Building 770-U] and Early Construction and Operational Disposal Site [ECODS] B-3 [East of B Area, South of Road C] [no building number {NBN}] and ECODS B-5 [Adjacent to ECODS B-3] [NBN])	528, 530, 2003	48
C-, K-, and L-Reactor Complexes Early Action	577, 583, 584	79, 90, 91
C-Area Burning/Rubble Pit (131-C) and Old C-Area Burning Rubble Pit (NBN) OU	51, 566	31
C-Area OU Early Action (consisting of C-Area Process Sewer Lines as Abandoned [NBN], C-Area Reactor Area Cask Car Railroad Tracks as Abandoned [NBN], ECODS C-1 [Near C-Area Reactor Discharge Canal {NBN}], Potential Release from C-Area Disassembly Basin [NBN], Potential Release from C-Area Reactor Cooling Water System [186/190-C])	555, 475, 522, 240, 242	79
C-Area Groundwater OU (NBN) <sup>3</sup>	146	82
C-Area Reactor Seepage Basins (904-66G, -67G, and -68G) OU	53, 54, 55	60
Central Shops Burning/Rubble Pits (631-1G and -3G) OU	58, 59	50
Chemicals, Metals, and Pesticides Pits (080-170G, -171G, -180G, -182G, -183G, and -190G) OU	61, 62, 63, 64, 65, 66, 67	24
D-Area Burning/Rubble Pits (431-D and -1D) OU	32, 33	15
D-Area Expanded OU (consisting of D-Area Rubble Pit [431-2D] and D-Area Ash Basin [488-D])	68, 273	67
D-Area Oil Seepage Basin (631-G) OU	26	27
DAOU Early Action (consisting of D-Area Asbestos Pit [080-20G] and D-Area Coal Pile Runoff Basin [489-D] [Northern 25%])	69, 211	63
DAOU Second Early Action (consisting of D-Area Ash Basins [488-1D {including Inlet Basins} and 488-2D], D-Area Ash Landfill [488-4D], and D-Area Coal Pile Runoff Basin [489-D] [Southern 75%])	238, 272, 548, 211	63
E-Area Low-Level Waste Facility (643-26E) OU (Slit Trench Disposal Units 1 to 5)	592	86
ECODS L-1, N-2, P-2, and R-1A, -1B, -1C OU	535, 539, 545, 540	22
F-Area Burning/Rubble Pits (231-F, -1F, and -2F) OU	34, 35, 36	14
F-Area Industrial Solid Waste Landfill (F-Area Railroad Crosstie Pile) (NBN)	279	N/A*
F-Area Retention Basin (281-3F) OU	73	23
F-Area Tank Farm OU (Waste Tanks 5 to 6, 17 to 20)	283, 580	23
Ford Building Seepage Basin (904-91G) OU	75	58

Unit Name	SRS Index Number(s)	SEMS Number(s)
General Separations Area Consolidation Unit (consisting of Old Radioactive Waste Burial Ground [ORWBG] [including Solvent Tanks 650-01E to 650-22E] [643-E], HP-52 Ponds, H-Area Retention Basin [281-3H] and Spill on 05/01/1956 of Unknown of Retention Basin Pipe Leak [NBN], Warner's Pond [685-23G] and Spill on 03/08/1978 of Unknown of Seepage Basin Pipe Leak in H-Area Seepage Basin [NBN], and Spill on 02/08/78 of Unknown of H-Area Process Sewer Line Cave-In [NBN])	18, 29, 28, 417, 27, 405, 398	32
Gunsite 012 OU (consisting of Gunsite 012 Rubble Pile [NBN], Rubble Pile Across from Gunsite 012 [NBN], and ECODS G-3 [Adjacent to Gunsite 012] [NBN])	163, 337, 544	78
H-Area Tank Farm OU (Waste Tanks 12 and 16)	298, 582	89
Heavy Equipment Wash Basin (NBN) OU	502	53
K-Area Bingham Pump Outage Pit (643-1G) OU	83	20
K-Area Burning/Rubble Pit (131-K) and K-Area Rubble Pile (631-20G) OU	84, 88	40
K-Area Reactor Seepage Basin (904-65G) OU	87	55
L- and P-Area Bingham Pump Outage Pits (643-2G, -3G, and -4G) OU	91, 92, 107	26, 39
L-Area Oil and Chemical Basin (904-83G) OU	96	17
L-Area Reactor Seepage Basin (904-64G) OU	306	65
L-Area Southern Groundwater (NBN) OU	487	77
Lower Three Runs Integrator Operable Unit (IOU) Tail Portion (Middle and Lower Subunits)	505	35
Lower Three Runs IOU (Upper Subunit) <sup>4</sup>	110, 312, 505	35
M-Area OU (consisting of Potential release of Heavy Metals from 321-M Abandoned Sewer Line [NBN], Salvage Yard [741-A], Underground Sump 321-M #001, and Underground Sump 321-M #002)	585, 326, 340, 465, 466	92
M-Area Settling Basin Inactive Process Sewer Lines OU (081-M)	100, 234	19
Old F-Area Seepage Basin (904-49G) OU	105	16
P-Area Burning/Rubble Pit (131-P) OU	108	59
P-Area OU (consisting of Spill on 03/15/79 of 500 Gallons of Contaminated Water [NBN], P-Area Ash Basin [188-0P], Potential Release from P-Area Disassembly Basin [105-P], Potential Release from the P-Area Reactor Cooling Water System [186/190-P], P-Area Reactor Area Cask Car Railroad Tracks as Abandoned [NBN], P-Area Process Sewer Lines as Abandoned [NBN])	126, 313, 314, 316, 477, 557, 587	94
P-Area Reactor Seepage Basins (904-61G, -62G, and -63G) OU	317, 318, 319	66
R-Area Bingham Pump Outage Pits (643-8G, -9G, and -10G) and R-Area Unknown Pits #1, #2, #3 (RUNK-1, -2, and -3) OU	113, 114, 115, 550, 551, 552	38
R-Area Burning/Rubble Pits (131-R and 131-1R) and R-Area Rubble Pile (631-25G) OU	117, 116, 118	43

Unit Name	SRS Index Number(s)	SEMS Number(s)
R-Area OU (consisting of Area on the North Side of Building 105-R, Laydown Area North of 105-R, and Release from the Decontamination of R-Area Reactor Disassembly Basin [NBN], Combined Spills North of Building 105-R [NBN], Cooling Water Effluent Sump [107-R], Potential Release from R-Area Disassembly Basin [NBN], Potential Release of NaOH/H <sub>2</sub> SO <sub>4</sub> from 183-2R [NBN], R-Area Ash Basin [188-0R], R-Area Groundwater, R-Area Process Sewer Lines as Abandoned [NBN], and R-Area Reactor Area Cask Car Railroad Tracks as Abandoned [NBN])	231, 233, 271, 288, 324, 329, 330, 478, 513, 517, 556, 588	95
R-Area Reactor Seepage Basins (904-57G, -58G, -59G, -60G, -103G, and -104G) OU	119, 120, 121, 122, 123, 124	25
Silverton Road Waste Site (731-3A)	41	13
Savannah River Laboratory Seepage Basins (904-53G1, -53G2, -54G, and -55G) OU	133, 134, 135, 136	47
T-Area OU (consisting of Neutralization Sump [678-T], TNX Outfall Delta, Lower Discharge Gully, and Swamp [NBN], TNX-Area Process Sewer Lines and Tile Fields as Abandoned [NBN], and X-001 Outfall Drainage Ditch [NBN] [See USDOE Letter SGP-05-128 for list of decommissioned facilities added to T-Area Completion])	589, 310, 500, 559, 467	96
TNX OU (consisting of TNX Burying Ground [643-5G] [including Spill on 01/12/53 of 1/2 Ton of Uranyl Nitrate], New TNX Seepage Basin [904-102G], Old TNX Seepage Basin [904-076G], and TNX Groundwater [082-G])	139, 104, 106, 25, 127	21, 29
Wetland Area at Dunbarton Bay in Support of Steel Creek IOU <sup>5</sup>	509	71

\* N/A = Not Applicable

SEMS = Superfund Enterprise Management System

Notes:

1. The L-Area Hot Shop OU (717-G) was designated as a No Action OU in FY2014 and was removed from this LUC certification list.
2. The L-Area Rubble Pile (131-3L) OU was designated as a No Action OU in FY2018 and was removed from this LUC certification list.
3. The E-Area LLWF, FTF, HTF, and CAGW OUs were added to the list to certify long-term protectiveness through compliance with the SRS facility security and administrative controls.
4. The LUCIP for the Lower Three Runs Integrator Operable Unit (Upper Subunit) (SRNS-RP-2022-00017, Revision 1, August 2022) was approved by South Carolina Department of Health and Environmental Control and United States Environmental Protection Agency on September 22, 2022 and October 4, 2022, respectively. However, the LUCs will not be implemented until Spring of 2023.
5. The LUCIP for the Wetland Area at Dunbarton Bay in Support of Steel Creek IOU (SRNS-RP-2018-00479, Revision 1, November 2018) was approved in FY2019. The signs were installed on January 8, 2020. Per the regulatory approved LUCIP, the field inspections will be performed every five years. Additional inspections may be necessary in the event of unusual weather (e.g., storms with significant wind force or ice storms that could result in tree damage to access control signs) or any other condition warranting inspection.

**USDOE-SR Certification for Land Use Controls**

I certify that the Savannah River Site has maintained compliance with all unit-specific Land Use Control Implementation Plans in accordance with the *Land Use Control Assurance Plan for the Savannah River Site*.

Michael D.  
Budney

Signature: \_\_\_\_\_

Michael D. Budney  
Savannah River Site Manager



Digitally signed by Michael D.  
Budney  
Date: 2022.11.22 09:18:30 -05'00'

Date: November 22, 2022