

**United States Department of Energy**

**Savannah River Site**

**FEDERAL FACILITY AGREEMENT ANNUAL  
PROGRESS REPORT FOR FISCAL YEAR 2007**

**WSRC-RP-2007-4078**

**November 2007**

Prepared by:  
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Program and Regulatory Integration  
Soil and Groundwater Closure Projects

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## **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 the Fiscal Year (FY) 2007 (October 1, 2006 to September 30, 2007) and activities planned for FY 2008 by USEPA, SCDHEC, and the USDOE at those units and areas identified for remediation in the FFA

This report is presented in 5 sections, as described below.

### **Overview of FY 2007**

This section contains a brief overview of the actions taken by USEPA, SCDHEC, and SRS during FY 2007 to implement the terms of the FFA.

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

This section contains information about Extension Notifications and Extension Requests affecting FFA main milestones, presented in tabular form.

### **Status of Site Evaluation Areas and Resource Conservation Recovery Act/Comprehensive Environmental Response, Compensation, and Liability Act (RCRA/CERCLA) Units**

This section contains the following information, presented in tabular form:

- List of planned work for FY 2007, including milestones, document submittals, risk assessments, site evaluations, remediation activities, and other field activities,
- List of work accomplished in FY 2007, as documented in Appendix D of the FFA,
- List of work accomplished in FY 2007, not documented in Appendix D of the FFA,
- List of activities extended by a three Party Agreement during FY 2007, and a
- List of work planned for FY 2008, as documented in preliminary milestone agreements, including milestones, document submittals, risks assessments, site evaluations, remediation activities, and other field activities.

**Required Reporting**

This section contains two subsections: Corrective Measures Implementation Report/Post Construction Report/Final Remediation Report (CMIR/PCR/FRR) Groundwater Monitoring, and Institutional Control Units. The CMIR/PCR/FRR Groundwater Monitoring subsection contains information on groundwater monitoring required by that report. The Institutional Control Units subsection contains certification that specific units are being controlled in accordance with unit-specific Records of Decision (ROD) and Land Use Control Implementation Plans (LUCIP).

**List of Acronyms and Abbreviations**

This section contains a list of acronyms and abbreviations used throughout the report.

## **OVERVIEW OF FY 2007**

A synopsis of activities and accomplishments achieved by the USEPA, SCDHEC, and SRS throughout FY 2007 is contained in the following subsections.

### **Field Activities**

The Soil and Groundwater Closure Projects currently has 515 units in the program. Included in the 515 units are RCRA/CERCLA Units, Site Evaluation Areas, and facilities covered under the SRS RCRA permit. At the beginning of FY 2007, 367 units were complete or in the remediation phase. At the end of FY 2007, 371 units were complete or in the remediation phase (338 complete and 33 in the remediation phase).

RCRA Facility Investigation/Remedial Investigations (RFI/RI) were initiated for the following units:

- Area on North Side of Building 105-R, Laydown Area North of 105R, 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
- Gunsite 012 Operable Unit, consisting of Gunsite 012 Rubble Pile, NBN; Rubble Pile Across from Gunsite 012, NBN; and ECODS G-3, NBN
- Gunsite 218 Rubble Pile, 631-23G
- Potential Release from R-Area Disassembly Basin, 105-R, 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 Process Sewer Lines As Abandoned, NBN
- R-Area Reactor Area Cask Car Railroad Tracks As Abandoned, NBN

Remedial Action was initiated at the following unit:

- M-Area Settling Basin Inactive Process Sewers to Manhole, 081-M (Including the Southern Portions of 313-M Inactive Clay Process Sewer Lines to Tims Branch, NBN and the Southern Portions of 320-M Inactive Clay Process Sewer Lines from the Building Slab to the Former Security Fence, NBN)

Remedial Actions were completed and Post-Construction Reports/Final Remediation Reports (PCR/FRR) were submitted for the following units:

- D-Area Expanded Operable Unit (Consisting of D-Area Ash Basin, 488-D, and D-Area Ruble Pit, 431-2D)
- T Area Operable Unit (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; X-001 Outfall Drainage Ditch, NBN; Building 679-T, Engineering Test Facility [CMX]; Building 678-T, Chemical Semi-Works Building; Building 677-T, Pilot Plant Building; Building 672-T, DWPF Semi-Works Building; Building 607-46T, Organic Removal Facility; Building 671-T, Service Tankage Facilities; TNX, Building 673-T, Containerization Equipment Dev Facility; TNX, Building 675-T, Glass Melter Building; Building 679-8T, Pump House; Building 682-T, Manufacturing Building; Building 772-T, Consolidated Laboratory; and Building 904-T, TNX Effluent Treatment Plant)
- TNX Operable Unit (Consisting of New TNX Seepage Basin, 904-102G; Old TNX Seepage Basin, 904-76G; TNX Burying Ground, 643-5G [Including Spill on 01/12/53 of 1/2 Ton of Uranyl Nitrate, NBN]; and TNX Groundwater, 082-G2)

No Interim Action Post-Construction Reports (IAPCR) were submitted.

A Removal Action Report was issued for the Miscellaneous Rubble Pile, 631-7G.

### **Records of Decision**

A ROD was submitted for the following unit:

- L-Area Southern Groundwater (NBN)

RODs were approved for the following units:

- L-Area Southern Groundwater (NBN)
- M-Area Settling Basin Inactive Process Sewers to Manhole, 081-M (Including the Southern Portions of 313-M Inactive Clay Process Sewer Lines to Tims Branch, NBN and the Southern Portions of 320-M Inactive Clay Process Sewer Lines from the Building Slab to the Former Security Fence, NBN)
- A-Area Burning/Rubble Pits (731-A, -1A) and A-Area Rubble Pit (731-2A) and Miscellaneous Chemical Basin/Metals Burning Pit (731-4A, -5A), and A-Area Ash Pile (788-2A)

RODs with three-party signatures were issued for the following units:

- L-Area Southern Groundwater (NBN)



- M-Area Settling Basin Inactive Process Sewers to Manhole, 081-M (Including the Southern Portions of 313-M Inactive Clay Process Sewer Lines to Tims Branch, NBN and the Southern Portions of 320-M Inactive Clay Process Sewer Lines from the Building Slab to the Former Security Fence, NBN)
- A-Area Burning/Rubble Pits (731-A, -1A) and A-Area Rubble Pit (731-2A) and Miscellaneous Chemical Basin/Metals Burning Pit (731-4A, -5A), and A-Area Ash Pile (788-2A)

No Explanations of Significant Difference (ESD) were submitted, and no ESDs were issued.

### **Annual Update of FFA Appendices**

SRS submits five FFA appendices to the USEPA and SCDHEC for their review, comment, and approval each fiscal year:

#### ***Appendices C, G, and K***

In accordance with the terms of the FFA, SRS submitted Revision.0 of Appendix C, RCRA/CERCLA Units List, Appendix G, Site Evaluation Areas, and Appendix K, D&D Facilities for FY 2007, on September 26, 2006. The USEPA and SCDHEC approved Revision.1 of Appendices C, G, and K on June 20, 2007. These three appendices are due by October 1 of each year.

#### ***Appendix D, Timetables and Deadlines***

Appendix D identifies current fiscal year milestones. After receipt of their annual budget, SRS develops this list based on the allocated funding. In accordance with the terms of the FFA, Revision.0, Appendix D, Timetables and Deadlines, was submitted to the USEPA and SCDHEC on July 24, 2007. The USEPA and the SCDHEC approved Revision.1 of Appendix D on September 25, 2007. Appendix D is due 15 business days after receipt of the annual budget allotment from USDOE-Headquarters (HQ).

#### ***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, SRS submitted Revision.0 of Appendix E, Long Term Projections for FY 2007, on October 9,

2006. The USEPA approved Revision.1 of Appendix E on March 12, 2007 and the SCDHEC approved it on February 27, 2007. Appendix E is due by November 15 of each year.

### **Status of FY 2007 Milestones**

Appendix D, Revision.1 Timetables and Deadlines (print date 09/12/2007) for FY 2007, listed 67 milestones. These milestones included the submittal of primary documents, submittal of annual updates to the FFA Appendices, submittal of Site Evaluation Reports, submittal of supporting documents, the initiation of RFI/RI Field Starts and Remedial Action Starts, and the issuance of RODs. All milestones listed in Appendix D were accomplished on time.

### **Extension Notifications and Requests**

The FFA provides for two types of extensions for milestones: an Extension Notification or 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. USEPA or SCDHEC 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 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.

An Extension Request is covered under the terms of Section XXXI, Extensions. SRS is responsible for preparing all Extension Requests. Extension Requests require approval by USEPA and SCDHEC. In the event that USEPA or SCDHEC does not respond to an Extension Request within 14 business days of its receipt, the extension is granted.

During FY 2007, SRS submitted 4 Extension Requests and 4 Extension Notifications. The USEPA and SCDHEC granted the extension requests.

### **Land Use Restrictions**

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

remains protective of human health and the environment. The document "Institutional Control Units" with USDOE-SR Certification for Land Use Controls is included in the Required Reporting section of this report.

### **Disputes**

USDOE invoked informal dispute resolution per Section XXXI.D.3 of the SRS FFA in FY 2006 over SCDHEC nonconcurrence with a USDOE extension request regarding the schedule for closure of HLW Tank 19-F and Tank 18-F. Informal dispute resolution was still in progress at the end of FY 2007.

### **Site Evaluation Program**

Section X of the FFA requires SRS to submit to USEPA and SCDHEC Removal Site Evaluation Reports for those areas with potential or known releases of hazardous substances not identified before the effective date of the agreement.

Section X of the FFA also requires SRS to submit Remedial Site Evaluation (SE) Reports to the USEPA and SCDHEC for those areas listed in Appendix G.1 of the Agreement. The USEPA, in a letter dated May 23, 1995, delegated USEPA's authority to review and comment on the SE Reports to SCDHEC. The FFA was modified to state: "Failure of the USEPA to provide written concurrence by the close of the review/comment period or prior to USDOE's receipt of SCDHEC concurrence, whichever comes later, shall be deemed agreement with SCDHEC's concurrence."

SRS did not submit any Remedial SE Recommendations or revised SE Reports.

SRS did not submit any Remedial SE Reports

**OUTCOME OF EXTENSION NOTIFICATIONS AND REQUESTS**

Table 1 documents the outcome of extension notifications and requests for FY 2007. The table describes the main milestone affected and the reason for the request. The table is sorted in ascending order by USDOE letter number and date.

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**Table 1. Extension Notifications and Requests**

DOE Letter #	Letter Date	Unit Affected	Main Milestone Affected	Request or Notification	Extension (from/to)	Reason for Request	Outcome
SGP-07-121	12/18/2006	Lower Three Runs Integrator Operable Unit	Periodic Report#2	Notification	From 12/30/2006 to 01/29/2007	To incorporate comments and provide a quality document	Regulatory Approval Not Required
SGP-07-130	01/17/2007	Lower Three Runs Integrator Operable Unit	Periodic Report #2	Request	From 01/29/2007 to 03/14/2007	Comments received on the Revision.0 Periodic Report will require additional time to resolve. This time will be used to scope the revision to the document and develop consensus early action alternatives to address potential exposure to contaminants along the Lower Three Runs tail section.	SCDHEC Approval Letter Dated 01/26/07  USEPA Approval Letter Dated 01/25/07
SGP-07-141	02/26/2007	Steel Creek Integrator Operable Unit	Periodic Report#2	Notification	From 03/17/2007 to 04/16/2007	To resolve comments and to submit a quality document	Regulatory Approval Not Required
SGP-07-154	03/14/2007	Chemical, Metals, and Pesticides Pits Operable Unit	LUCIP, Redline Rev.1.2	Notification	From 03/15/2007 to 04/16/2007	To incorporate comments and provide a quality document	Regulatory Approval Not Required
SGP-07-159	04/04/2007	M-Area Settling Basin Inactive Process Sewer Lines Operable Unit	Issue ROD	Request	From 04/26/2007 to 05/29/2007	To allow adequate time to obtain both EPA and SCDHEC signatures prior to April 26, 2007	No response received from SCDHEC thus deeming their concurrence  USEPA Approval Letter Dated 04/16/07
SGP-07-165	04/13/2007	A-Area Burning/Rubble Pits, and Rubble Pit and the Miscellaneous Chemical Basin/Metals Burning Pit Operable Unit	Issue ROD	Request	From 05/08/2007 to 09/14/2007	The ROD requires EPA-HQ review due to the land use controls that are a part of the selected remedy. The additional time will allow the EPA-HQ review to be completed, the ROD to be revised and approved, and the signature process to be completed.	SCDHEC Approval Letter Dated 04/30/07  USEPA Approval Letter Dated 05/07/07
ACP-07-185	05/22/2007	C-Area Burning/Rubble Pit Operable Unit	SB/PP	Notification	From 06/06/2007 to 07/06/2007	To resolve comments received on Reb.0 SB/PP and to submit the Rev.1 SB/PP.	Regulatory Approval Not Required

**STATUS OF SITE EVALUATION AREAS, RCRA/CERCLA UNITS AND  
INTEGRATOR OPERABLE UNITS**

Tables 2 and 3 document work planned, work accomplished, activities extended in FY 2007, and work planned for FY 2008. Table 2 presents a listing of Site Evaluation Areas, RCRA/CERCLA Units, and Integrator Operable Units in alphabetical order. Table 3 presents the same information, grouped by watershed. The milestones identified in Tables 2 and 3 are those listed in Appendix D of the FFA. Milestones accomplished, not included in Appendix D, are included under the column "FY 2007 Work Accomplished (Other)".

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**Table 2. Status of Site Evaluation Areas, RCRA/CERCLA Units and Integrator Operable Units  
(by RCRA/CERCLA Unit or Site Evaluation Area Name)**

Watershed	RCRA/CERCLA Units or Site Evaluation Area	FY 2007 Work Planned	FY 2007 Work Accomplished (App. D Milestones)	FY 2007 Work Accomplished (Other)	Activities Extended	FY 2008 Work Planned
Upper Three Runs Watershed	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)	Issue ROD  Submit Rev. 0 CMI/RAIP  Submit Rev. 0 LUCIP  Submit Annual PER for the ABRP/MCB/MBP OU (Interim Action)	Issued ROD  Submitted Rev. 0 CMI/RAIP  Submitted Rev. 0 LUCIP  Submitted Annual PER for the ABRP/MCB/MBP OU (Interim Action)	Submitted Certified Clean Rev. 1 CMI/RAIP  Submitted Redline Rev. 1 LUCIP	SGP-07-165: Issue ROD Milestone extended from May 8, 2007 to September 14, 2007 due to EPA-HQ review and approval of RODs containing land use controls	Remedial Action Start  Submit Annual PER for the ABRP/MCB/MBP OU (Interim Action)
Upper Three Runs Watershed	A-Area Miscellaneous Rubble Pile, 731-6A	Submit Annual PER for the ARP OU  Continue operation of the vadose zone remediation system  Continue post-closure maintenance activities	Submitted Annual PER for the ARP OU	Continued operation of the vadose zone remediation system  Continued post-closure maintenance activities		Submit Annual PER for the ARP OU  Continue operation of the vadose zone remediation system  Continue post-closure maintenance activities
Fourmile Branch Watershed	C-Area Burning/Rubble Pit, 131-C and Old C-Area Burning/Rubble Pit, NBN	Submit Rev.0 SB/PP	Submitted Rev.0 SB/PP			Submit Record of Decision  Issue ROD
Fourmile Branch Watershed	C-Area Reactor Groundwater	Submit effectiveness monitoring report  Dismantle ERH/SVE and move to CMP Pits	Submitted effectiveness monitoring report	Dismantled ERH/SVE and moved to CMP Pits		
Pen Branch Watershed	CMP Pits, 080-170G, -171G, -180G, -181G, -182G, -183G, -190G	Construct ERH/SVE for the final action		Constructed ERH/SVE for the final action		Submit Post-Construction Report
Savannah River Floodplain Swamp Watershed	D-Area Groundwater Operable Unit	Submit Annual Groundwater Monitoring Report	Submitted Annual Groundwater Monitoring Report			Submit Annual Groundwater Monitoring Report Letter

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**Table 2. Status of Site Evaluation Areas, RCRA/CERCLA Units and Integrator Operable Units  
(by RCRA/CERCLA Unit or Site Evaluation Area Name)**

<b>Watershed</b>	<b>RCRA/CERCLA Units or Site Evaluation Area</b>	<b>FY 2007 Work Planned</b>	<b>FY 2007 Work Accomplished (App. D Milestones)</b>	<b>FY 2007 Work Accomplished (Other)</b>	<b>Activities Extended</b>	<b>FY 2008 Work Planned</b>
Savannah River Floodplain Swamp Watershed	D-Area Oil Seepage Basin, 631-G	Submit Annual Groundwater Mixing Zone Monitoring Report	Submitted Annual Groundwater Mixing Zone Monitoring Report	Submitted Revision 1.3 Groundwater Mixing Zone Application		Submit 2007 Annual Groundwater Mixing Zone Report
Fourmile Branch Watershed	F- and H-Area Hazardous Waste Management Facilities (HWMF) Groundwater	<p>Collect quarterly samples from Fourmile Branch and the seepine</p> <p>Collect monthly flow measurements and tritium samples from Fourmile Branch</p> <p>Abandon monitoring wells</p> <p>Continue base injection system operations</p> <p>Submit the Semi-Annual and Annual CARs</p> <p>Submit the proposed POC Wells for Appendix IX sampling</p> <p>Collect monthly water level measurements</p> <p>Prepare Phase 2b CAPs</p>		<p>Collected quarterly samples from Fourmile Branch and the seepine</p> <p>Collected monthly flow measurements and tritium samples from Fourmile Branch</p> <p>Abandoned monitoring wells</p> <p>Continued base injection system operations</p> <p>Submitted the Semi-Annual and Annual CARs</p> <p>Submitted the proposed POC Wells for Appendix IX sampling</p> <p>Issued second public notice to reduce the groundwater monitoring requirements</p> <p>Collected monthly water level measurements</p> <p>Submitted request to extend the Phase 2a and 2b RCRA Permit conditions dates</p>	Phase 2a and 2b RCRA Permit conditions dates	<p>Collect quarterly samples from Fourmile Branch and the seepine</p> <p>Collect monthly flow measurements and tritium samples from Fourmile Branch</p> <p>Abandon monitoring and extraction wells</p> <p>Continue base injection system operations</p> <p>Submit the Semi-Annual and Annual CARs</p> <p>Submit the proposed POC Wells for Appendix IX sampling</p> <p>Collect monthly water level measurements</p> <p>Prepare Phase 2b CAPs</p> <p>Implement Base Injection TA and UIC in seepines</p>
Fourmile Branch Watershed	F-Area Retention Basin, 281-3F	Collect semi-annual groundwater samples		Collected semi-annual groundwater samples		



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**Table 2. Status of Site Evaluation Areas, RCRA/CERCLA Units and Integrator Operable Units  
(by RCRA/CERCLA Unit or Site Evaluation Area Name)**

<b>Watershed</b>	<b>RCRA/CERCLA Units or Site Evaluation Area</b>	<b>FY 2007 Work Planned</b>	<b>FY 2007 Work Accomplished (App. D Milestones)</b>	<b>FY 2007 Work Accomplished (Other)</b>	<b>Activities Extended</b>	<b>FY 2008 Work Planned</b>
Fourmile Branch Watershed	Fourmile Branch Integrator Operable Unit (Including the un-named tributary of Fourmile Branch South of C-Area and the C-Area Reactor discharge Canal)	Field Start	Field Start			
Fourmile Branch Watershed	General Separations Area Consolidation Unit (GSACU)  (Combines H-Area Retention Basin, 281-3H, HP-52 Ponds (NBN), Old Radioactive Waste Burial Ground, 643-E, and Warner's Pond, 685-23G)	Continue closure activities at the GSACU (H-Area Retention Basin, 281-3H, HP-52 Ponds (NBN), Old Radioactive Waste Burial Ground, 643-E, and Warner's Pond, 685-23G)		Continued closure activities at the GSACU (H-Area Retention Basin, 281-3H, HP-52 Ponds (NBN), Old Radioactive Waste Burial Ground, 643-E, and Warner's Pond, 685-23G)		Submit Post-Construction Report/Corrective Measures Implementation Report/Final Remediation Report
Upper Three Runs Watershed	General Separations Area Eastern Groundwater Operable Unit (NBN)  (Formerly the H-Area Groundwater Operable Unit (NBN))	Collect annual groundwater samples. Submit a revised Scoping Summary documenting results from the sampling activity and review the data with the Core Team		Collected annual groundwater samples. Submitted a revised Scoping Summary documenting results from the sampling activity and reviewed the data with the Core Team		Collect annual groundwater samples. Submit a revised Scoping Summary documenting results from the sampling activity and review the data with the Core Team
Upper Three Runs Watershed	General Separations Area Western Groundwater Operable Unit (NBN)  (Formerly the F-Area Tank Farm Groundwater and F-Area Canyon Groundwater Operable Units (NBN))	Collect annual groundwater samples. Submit a revised Scoping Summary documenting results from the sampling activity and review the data with the Core Team		Collected annual groundwater samples		Collect annual groundwater samples. Submit a revised Scoping Summary documenting results from the sampling activity and review the data with the Core Team
Lower Three Runs Watershed	Gunsite 012 Operable Unit, consisting of Gunsite 012 Rubble Pile (NBN), Rubble Pile Across from Gunsite 012 (NBN), and ECODS G-3 (NBN)			Conducted pre-characterization field study		Submit RFI/RI Workplan
Lower Three Runs Watershed	Gunsite 218 Operable Unit			Conducted pre-characterization field study		Submit RFI/RI Workplan

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**Table 2. Status of Site Evaluation Areas, RCRA/CERCLA Units and Integrator Operable Units  
(by RCRA/CERCLA Unit or Site Evaluation Area Name)**

<b>Watershed</b>	<b>RCRA/CERCLA Units or Site Evaluation Area</b>	<b>FY 2007 Work Planned</b>	<b>FY 2007 Work Accomplished (App. D Milestones)</b>	<b>FY 2007 Work Accomplished (Other)</b>	<b>Activities Extended</b>	<b>FY 2008 Work Planned</b>
Pen Branch Watershed	K-Area Burning/Rubble Pit 131-K and Rubble Pile, 631-20G	Submit 2006 Annual Mixing Zone Report	Submitted 2006 Annual Mixing Zone Report			Submit 2007 Annual Mixing Zone Monitoring Report
Pen Branch Watershed	L-Area Rubble Pile 131-3L	Submit 2006 Annual Mixing Zone Monitoring Report	Submitted 2006 Annual Mixing Zone Monitoring Report			Submit 2007 Annual Mixing Zone Monitoring Report
Steel Creek Watershed	L-Area Southern Groundwater	Submit CMI/RAIP  Submit LUCIP  Submit ROD  Issue ROD	Submitted CMI/RAIP  Submitted LUCIP  Submitted ROD  Issued ROD			Remedial Action Start
Lower Three Runs Watershed	Lower Three Runs Integrator Operable Unit (Including Par Pond, 685G Pre-Cooler Ponds and Canals and Old R-Area Discharge Canal)	Phase II Field Start	Phase II Field Start			
Upper Three Runs Watershed	M Area Operable Unit <sup>1</sup>	Submit Production Area RSER/EE/CA  Submit Salvage Yard RSER/EE/CA  Submit Rev. 0 RFI/RI Work Plan, RFI/RI Report with BRA, and CMS/FS	Submitted Rev. 0 RFI/RI Work Plan, RFI/RI Report with BRA, and CMS/FS	Submitted Production Area RSER/EE/CA  Submitted Salvage Yard RSER/EE/CA  Started Production Area Removal Actions  Started Salvage Yard Removal Action  Submitted Rev. 0 SB/PP		Submit Certified Clean Copy of the RFI/RI Work Plan, RFI/RI Report with BRA, and CMS/FS  Submit Rev. 0 ROD  Complete Production Area Removal Actions  Complete Salvage Yard Removal Action

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<b>Watershed</b>	<b>RCRA/CERCLA Units or Site Evaluation Area</b>	<b>FY 2007 Work Planned</b>	<b>FY 2007 Work Accomplished (App. D Milestones)</b>	<b>FY 2007 Work Accomplished (Other)</b>	<b>Activities Extended</b>	<b>FY 2008 Work Planned</b>
Upper Three Runs Watershed	M-Area Hazardous Waste Management Facility, Vadose Zone, 642-28G	<p>Continue characterization of vadose zone</p> <p>Continue operations of the MASB DUS system and other vadose zone corrective actions</p> <p>Submit MASB DUS progress reports</p> <p>TA at the A-014 Outfall to enhance soil vapor extraction with hydraulic fractures</p>		<p>Continued characterization of vadose zone</p> <p>Continued operations of the MASB DUS system and other vadose zone corrective actions</p> <p>Submitted MASB DUS progress reports</p> <p>Obtained Renewal of TSCA Approval for the MASB DUS system, including the use of the system for the purge water from the A-014 Outfall TA Demonstration</p> <p>Began TA Demonstration at the A-014 Outfall to enhance soil vapor extraction with hydraulic fractures</p>		<p>Continue characterization of vadose zone</p> <p>Continue operations of the MASB DUS system and other vadose zone corrective actions</p> <p>Submit MASB DUS progress reports</p> <p>Continue TA Demonstration at the A-014 Outfall to enhance soil vapor extraction with hydraulic fractures</p>

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**Table 2. Status of Site Evaluation Areas, RCRA/CERCLA Units and Integrator Operable Units  
(by RCRA/CERCLA Unit or Site Evaluation Area Name)**

Watershed	RCRA/CERCLA Units or Site Evaluation Area	FY 2007 Work Planned	FY 2007 Work Accomplished (App. D Milestones)	FY 2007 Work Accomplished (Other)	Activities Extended	FY 2008 Work Planned
Upper Three Runs Watershed	M-Area Hazardous Waste Management Facility: A/M Area Groundwater Portion, 904-110G	<p>Submit Annual Appendix IX Well Sampling Proposal</p> <p>Continue operation of the MASB DUS System and other corrective action systems</p> <p>Continue additional characterization of suspect VOC sources</p> <p>Continue groundwater monitoring activities</p> <p>Submit the semi-annual and annual corrective action and groundwater monitoring reports</p> <p>Submit MASB DUS progress reports</p> <p>Submit Southern Sector Phase II Corrective Action Plan</p> <p>Submit ABRP/MCB/MBP OU Groundwater Phase II Corrective Action Plan</p>		<p>Submitted Annual Appendix IX Well Sampling Proposal</p> <p>Continued operation of the MASB DUS System and other corrective action systems</p> <p>Continued additional characterization of suspect VOC sources</p> <p>Continued groundwater monitoring activities</p> <p>Submitted the semi-annual and annual corrective action and groundwater monitoring reports</p> <p>Submitted MASB DUS progress reports</p> <p>Obtained Renewal of TSCA Approval for the MASB DUS system, including the use of the system for the purge water from the A-014 Outfall TA Demonstration</p> <p>Submitted Southern Sector Phase II Corrective Action Plan</p> <p>Submitted ABRP/MCB/MBP OU Groundwater Phase II Corrective Action Plan</p>		<p>Submit Annual Appendix IX Well Sampling Proposal</p> <p>Continue operation of the MASB DUS System and other corrective action systems</p> <p>Continue additional characterization of suspect VOC sources</p> <p>Continue groundwater monitoring activities</p> <p>Submit the semi-annual and annual corrective action and groundwater monitoring reports</p> <p>Submit MASB DUS progress reports</p>
Upper Three Runs Watershed	M-Area Settling Basin Inactive Process Sewers to Manhole 1, 081-M	<p>Issue ROD</p> <p>Submit Rev. 0 CMI/RAIP</p> <p>Submit Rev. 0 LUCIP</p> <p>Remedial Action Start</p>	<p>Issued ROD</p> <p>Submitted Rev. 0 CMI/RAIP</p> <p>Submitted Rev. 0 LUCIP</p> <p>Remedial Action Start</p>	<p>Submitted Certified Clean Rev. 1 CMI/RAIP</p> <p>Submitted Clean Rev. 1 LUCIP</p>	SGP-07-159: Issue ROD Milestone extended from April 26, 2007 to May 29, 2007 due to inadequate time to obtain EPA's and SCDHEC's signatures	Submit Rev. 0 PCR

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**Table 2. Status of Site Evaluation Areas, RCRA/CERCLA Units and Integrator Operable Units  
(by RCRA/CERCLA Unit or Site Evaluation Area Name)**

<b>Watershed</b>	<b>RCRA/CERCLA Units or Site Evaluation Area</b>	<b>FY 2007 Work Planned</b>	<b>FY 2007 Work Accomplished (App. D Milestones)</b>	<b>FY 2007 Work Accomplished (Other)</b>	<b>Activities Extended</b>	<b>FY 2008 Work Planned</b>
Upper Three Runs Watershed	M-Area Settling Basin, 904-51G	Continue surveillance and cap maintenance		Continued surveillance and cap maintenance		Continue surveillance and cap maintenance
Upper Three Runs Watershed	Met Lab/Carolina Bay, 904-110G	Submit Annual Appendix IX Well Sampling Proposal  Continue groundwater monitoring activities  Submit semi-annual and annual corrective action and groundwater monitoring reports  Continue operation of the existing Met Lab recovery wells and Baroball wells  Continue surveillance and cap maintenance		Submitted Annual Appendix IX Well Sampling Proposal  Continued groundwater monitoring activities  Submitted semi-annual and annual corrective action and groundwater monitoring reports  Continued operation of the existing Met Lab recovery wells and Baroball wells  Continued surveillance and cap maintenance		Submit Annual Appendix IX Well Sampling Proposal  Continue groundwater monitoring activities  Submit semi-annual and annual corrective action and groundwater monitoring reports  Continue operation of the existing Met Lab recovery wells and Baroball wells  Continue surveillance and cap maintenance
Fourmile Branch Watershed	Miscellaneous Rubble Pile, 631-7G	Submit Removal Action Report	Submitted Removal Action Report			
Fourmile Branch Watershed	Mixed Waste Management Facility (Groundwater)	Continue operation and effectiveness monitoring of the Tritium phytoremediation system at the Southwest plume  Submit Semi-Annual and Annual CARs  Maintain compliance with groundwater monitoring		Continued operation and effectiveness monitoring of the Tritium phytoremediation system at the Southwest plume  Submitted Semi-Annual and Annual CARs  Maintained compliance with groundwater monitoring		Continue operation and effectiveness monitoring of the Tritium phytoremediation system at the Southwest plume  Submit Semi-Annual and Annual CARs  Maintain compliance with groundwater monitoring
Steel Creek Watershed	P Area Operable Unit <sup>1</sup>	Submit RFI/RI/BRA w/CMS/FS	Submitted RFI/RI/BRA w/CMS/FS			Submit early action SB/PP

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**Table 2. Status of Site Evaluation Areas, RCRA/CERCLA Units and Integrator Operable Units  
(by RCRA/CERCLA Unit or Site Evaluation Area Name)**

<b>Watershed</b>	<b>RCRA/CERCLA Units or Site Evaluation Area</b>	<b>FY 2007 Work Planned</b>	<b>FY 2007 Work Accomplished (App. D Milestones)</b>	<b>FY 2007 Work Accomplished (Other)</b>	<b>Activities Extended</b>	<b>FY 2008 Work Planned</b>
Steel Creek Watershed	P-Area Burning Rubble Pit (131-P)	Submit annual groundwater monitoring reports	Submitted annual groundwater monitoring reports			Submit annual groundwater monitoring reports
Pen Branch Watershed	Pen Branch Integrator Operable Unit	Submit Periodic Report	Submitted Periodic Report			Second Phase II Field Start
Lower Three Runs Watershed	R Area Operable Unit <sup>1</sup>	Submit RFI/RI Work Plan  Field Start	Submitted RFI/RI Work Plan  Field Start			Complete characterization
Lower Three Runs Watershed	R-Area Burning/Rubble Pits, 131-R, -1R and Rubble Pile, 631-25G	Perform routine inspections in accordance with the ROD	Submitted Rev.0 PCR/FRR			
Lower Three Runs Watershed	R-Area Reactor Seepage Basins, 904-57G, -58G, -59G, -60G, -103G, -104G, and 108-4R Overflow Basin	Continuation of the Remedial Action		Continuation of the Remedial Action		Submit PCR
Upper Three Runs Watershed	Sanitary Landfill Groundwater, 740-G	Continue monitoring of the VOC-contaminated plume  Submit the semi-annual and annual corrective action and groundwater monitoring reports		Continued monitoring of the VOC-contaminated plume  Submitted the semi-annual and annual corrective action and groundwater monitoring reports		Continue monitoring of the VOC-contaminated plume  Submit the semi-annual and annual corrective action and groundwater monitoring reports
Upper Three Runs Watershed	Sanitary Landfill, 740-G	Continue post-closure maintenance and monitoring activities		Continued post-closure maintenance and monitoring activities		Continue post-closure maintenance and monitoring activities
Savannah River Floodplain Swamp Watershed	Savannah River/Floodplain Swamp Integrator Operable Unit	Phase II Field Start	Phase II Field Start			Submit Periodic Report #2

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**Table 2. Status of Site Evaluation Areas, RCRA/CERCLA Units and Integrator Operable Units  
(by RCRA/CERCLA Unit or Site Evaluation Area Name)**

<b>Watershed</b>	<b>RCRA/CERCLA Units or Site Evaluation Area</b>	<b>FY 2007 Work Planned</b>	<b>FY 2007 Work Accomplished (App. D Milestones)</b>	<b>FY 2007 Work Accomplished (Other)</b>	<b>Activities Extended</b>	<b>FY 2008 Work Planned</b>
Savannah River Floodplain Swamp Watershed	Silverton Road Waste Site, 731-3A	Continue post-closure maintenance activities		Continued post-closure maintenance activities		Continue post-closure maintenance activities
Upper Three Runs Watershed	SRL Seepage Basins, 904-53G1, 904-53G2, 904-54G, 904-55G	Continue post-closure maintenance activities		Continued post-closure maintenance activities		Continue post-closure maintenance activities
Steel Creek Watershed	Steel Creek Integrator Operable Unit (Including L-Lake, L-Area Reactor Discharge Canal and P-Area Reactor Discharge Canal)	Third Phase II Field Start	Third Phase II Field Start			
Savannah River Floodplain Swamp Watershed	T Area Operable Unit <sup>1</sup>	Submit Rev.0 PCR	Submitted Rev.0 PCR			Implement Edible Oil Treatability Study
Savannah River Floodplain Swamp Watershed	TNX Operable Unit <sup>1</sup>	Submit Rev.0 PCR  Continue to operate air stripper and SVE units	Submitted Rev.0 PCR		Continued to operate air stripper and SVE units	Implement Edible Oil Treatability Study
Upper Three Runs Watershed	Upper Three Runs Integrator Operable Unit	Phase II Field Start  Submit Periodic Report	Phase II Field Start  Submitted Periodic Report			Second Phase II Field Start

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

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

<b>Watershed</b>	<b>RCRA/CERCLA Units or Site Evaluation Area</b>	<b>FY 2007 Work Planned</b>	<b>FY 2007 Work Accomplished (App. D Milestones)</b>	<b>FY 2007 Work Accomplished (Other)</b>	<b>Activities Extended</b>	<b>FY 2008 Work Planned</b>
Fourmile Branch Watershed	C-Area Burning/Rubble Pit, 131-C and Old C-Area Burning/Rubble Pit, NBN	Submit Rev.0 SB/PP	Submitted Rev.0 SB/PP			Record of Decision Submittal Issue ROD
Fourmile Branch Watershed	C-Area Reactor Groundwater	Submit effectiveness monitoring report  Dismantle ERH/SVE and move to CMP Pits	Submitted effectiveness monitoring report			Dismantled ERH/SVE and moved to CMP Pits



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Watershed	RCRA/CERCLA Units or Site Evaluation Area	FY 2007 Work Planned	FY 2007 Work Accomplished (App. D Milestones)	FY 2007 Work Accomplished (Other)	Activities Extended	FY 2008 Work Planned
Fourmile Branch Watershed	F- and H-Area Hazardous Waste Management Facilities (HWMF) Groundwater	<p>Collect quarterly samples from Fourmile Branch and the seepage</p> <p>Collect monthly flow measurements and tritium samples from Fourmile Branch</p> <p>Abandon monitoring wells</p> <p>Continue base injection system operations</p> <p>Submit the Semi-Annual and Annual CARs</p> <p>Submit the proposed POC Wells for Appendix IX sampling</p> <p>Collect monthly water level measurements</p> <p>Prepare Phase 2b CAPs</p>		<p>Collected quarterly samples from Fourmile Branch and the seepage</p> <p>Collected monthly flow measurements and tritium samples from Fourmile Branch</p> <p>Abandoned monitoring wells</p> <p>Continued base injection system operations</p> <p>Submitted the Semi-Annual and Annual CARs</p> <p>Submitted the proposed POC Wells for Appendix IX sampling</p> <p>Issued second public notice to reduce the groundwater monitoring requirements</p> <p>Collected monthly water level measurements</p> <p>Submitted request to extend the Phase 2a and 2b RCRA Permit conditions dates</p>	Phase 2a and 2b RCRA Permit conditions dates	<p>Collect quarterly samples from Fourmile Branch and the seepage</p> <p>Collect monthly flow measurements and tritium samples from Fourmile Branch</p> <p>Abandon monitoring and extraction wells</p> <p>Continue base injection system operations</p> <p>Submit the Semi-Annual and Annual CARs</p> <p>Submit the proposed POC Wells for Appendix IX sampling</p> <p>Collect monthly water level measurements</p> <p>Prepare Phase 2b CAPs</p> <p>Implement Base Injection TA and UIC in seepings</p>
Fourmile Branch Watershed	F-Area Retention Basin, 281-3F	Collect semi-annual groundwater samples		Collected semi-annual groundwater samples		
Fourmile Branch Watershed	Fourmile Branch Integrator Operable Unit (Including the un-named tributary of Fourmile Branch South of C-Area and the C- Area Reactor discharge Canal)	Field Start	Field Start			

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<b>Watershed</b>	<b>RCRA/CERCLA Units or Site Evaluation Area</b>	<b>FY 2007 Work Planned</b>	<b>FY 2007 Work Accomplished (App. D Milestones)</b>	<b>FY 2007 Work Accomplished (Other)</b>	<b>Activities Extended</b>	<b>FY 2008 Work Planned</b>
Fourmile Branch Watershed	General Separations Area Consolidation Unit (GSACU)  (Combines H-Area Retention Basin, 281-3H, HP-52 Ponds (NBN), Old Radioactive Waste Burial Ground, 643-E, and Warner's Pond, 685-23G)	Continue closure activities at the GSACU (H-Area Retention Basin, 281-3H, HP-52 Ponds (NBN), Old Radioactive Waste Burial Ground, 643-E, and Warner's Pond, 685-23G)		Continued closure activities at the GSACU (H-Area Retention Basin, 281-3H, HP-52 Ponds (NBN), Old Radioactive Waste Burial Ground, 643-E, and Warner's Pond, 685-23G)		Submit Post-Construction Report/Corrective Measures Implementation Report/Final Remediation Report
Fourmile Branch Watershed	Miscellaneous Rubble Pile, 631-7G	Submit Removal Action Report	Submitted Removal Action Report			
Fourmile Branch Watershed	Mixed Waste Management Facility (Groundwater)	Continue operation and effectiveness monitoring of the Tritium phytoremediation system at the Southwest plume  Submit Semi-Annual and Annual CARs  Maintain compliance with groundwater monitoring		Continued operation and effectiveness monitoring of the Tritium phytoremediation system at the Southwest plume  Submitted Semi-Annual and Annual CARs  Maintained compliance with groundwater monitoring		Continue operation and effectiveness monitoring of the Tritium phytoremediation system at the Southwest plume  Submit Semi-Annual and Annual CARs  Maintain compliance with groundwater monitoring
Lower Three Runs Watershed	Lower Three Runs Integrator Operable Unit (Including Par Pond, 685G Pre-Cooler Ponds and Canals and Old R-Area Discharge Canal)	Phase II Field Start	Phase II Field Start			
Lower Three Runs Watershed	R Area Operable Unit <sup>1</sup>	Submit RFI/RI Work Plan  Field Start	Submitted RFI/RI Work Plan  Field Start			Complete characterization
Lower Three Runs Watershed	R-Area Burning/Rubble Pits, 131-R, -1R and Rubble Pile, 631-25G	Perform routine inspections in accordance with the ROD	Submitted Rev.0 PCR/FRR			

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(by Watershed)**

<b>Watershed</b>	<b>RCRA/CERCLA Units or Site Evaluation Area</b>	<b>FY 2007 Work Planned</b>	<b>FY 2007 Work Accomplished (App. D Milestones)</b>	<b>FY 2007 Work Accomplished (Other)</b>	<b>Activities Extended</b>	<b>FY 2008 Work Planned</b>
Lower Three Runs Watershed	R-Area Reactor Seepage Basins, 904-57G, -58G, -59G, -60G, -103G, -104G, and 108-4R Overflow Basin	Continuation of the Remedial Action		Continuation of the Remedial Action		Submit PCR
Lower Three Runs Watershed	Gunsite 218 Operable Unit			Conducted pre-characterization field study		Submit RFI/RI Workplan
Lower Three Runs Watershed	Gunsite 012 Operable Unit, consisting of Gunsite 012 Rubble Pile (NBN), Rubble Pile Across from Gunsite 012 (NBN), and ECODS G-3 (NBN)			Conducted pre-characterization field study		Submit RFI/RI Workplan
Pen Branch Watershed	Pen Branch Integrator Operable Unit	Submit Periodic Report	Submitted Periodic Report			Second Phase II Field Start
Pen Branch Watershed	CMP Pits, 080-170G, -171G, -180G, -181G, -182G, -183G, -190G	Construct ERH/SVE for the final action		Constructed ERH/SVE for the final action		Submit Post-Construction Report
Pen Branch Watershed	K-Area Burning/Rubble Pit 131-K and Rubble Pile, 631-20G	Submit 2006 Annual Mixing Zone Report	Submitted 2006 Annual Mixing Zone Report			Submit 2007 Annual Mixing Zone Monitoring Report
Pen Branch Watershed	L-Area Rubble Pile 131-3L	Submit 2006 Annual Mixing Zone Monitoring Report	Submitted 2006 Annual Mixing Zone Monitoring Report			Submit 2007 Annual Mixing Zone Monitoring Report
Savannah River Floodplain Swamp Watershed	D-Area Groundwater Operable Unit	Submit Annual Groundwater Monitoring Report	Submitted Annual Groundwater Monitoring Report			Submit Annual Groundwater Monitoring Report Letter

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Savannah River Floodplain Swamp Watershed	D-Area Oil Seepage Basin, 631-G	Submit Annual Groundwater Mixing Zone Monitoring Report	Submitted Annual Groundwater Mixing Zone Monitoring Report	Submitted Revision 1.3 Groundwater Mixing Zone Application		Submit 2007 Annual Groundwater Mixing Zone Report
Savannah River Floodplain Swamp Watershed	Savannah River/Floodplain Swamp Integrator Operable Unit	Phase II Field Start	Phase II Field Start			Submit Periodic Report #2
Savannah River Floodplain Swamp Watershed	Silverton Road Waste Site, 731-3A	Continue post-closure maintenance activities		Continued post-closure maintenance activities		Continue post-closure maintenance activities
Savannah River Floodplain Swamp Watershed	T Area Operable Unit <sup>1</sup>	Submit Rev.0 PCR	Submitted Rev.0 PCR			Implement Edible Oil Treatability Study
Savannah River Floodplain Swamp Watershed	TNX Operable Unit <sup>1</sup>	Submit Rev.0 PCR  Continue to operate air stripper and SVE units	Submitted Rev.0 PCR	Continued to operate air stripper and SVE units		Implement Edible Oil Treatability Study
Steel Creek Watershed	L-Area Southern Groundwater	Submit CMI/RAIP  Submit LUCIP  Submit ROD  Issue ROD	Submitted CMI/RAIP  Submitted LUCIP  Submitted ROD  Issued ROD			Remedial Action Start
Steel Creek Watershed	P-Area Burning Rubble Pit (131-P)	Submit annual groundwater monitoring reports	Submitted annual groundwater monitoring reports			Submit annual groundwater monitoring reports
Steel Creek Watershed	P Area Operable Unit <sup>1</sup>	Submit RFI/RI/BRA w/CMS/FS	Submitted RFI/RI/BRA w/CMS/FS			Submit early action SB/PP

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Steel Creek Watershed	Steel Creek Integrator Operable Unit (Including L-Lake, L-Area Reactor Discharge Canal and P-Area Reactor Discharge Canal)	Third Phase II Field Start	Third Phase II Field Start			
Upper Three Runs Watershed	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)	Issue ROD  Submit Rev. 0 CMI/RAIP  Submit Rev. 0 LUCIP  Submit Annual PER for the ABRP/MCB/MBP OU (Interim Action)	Issued ROD  Submitted Rev. 0 CMI/RAIP  Submitted Rev. 0 LUCIP  Submitted Annual PER for the ABRP/MCB/MBP OU (Interim Action)	Submitted Certified Clean Rev. 1 CMI/RAIP  Submitted Redline Rev. 1 LUCIP	SGP-07-165: Issue ROD Milestone extended from May 8, 2007 to September 14, 2007 due to EPA-HQ review and approval of RODs containing land use controls	Remedial Action Start  Submit Annual PER for the ABRP/MCB/MBP OU (Interim Action)
Upper Three Runs Watershed	A-Area Miscellaneous Rubble Pile, 731-6A	Submit Annual PER for the ARP OU  Continue operation of the vadose zone remediation system  Continue post-closure maintenance activities	Submitted Annual PER for the ARP OU	Continued operation of the vadose zone remediation system  Continued post-closure maintenance activities		Submit Annual PER for the ARP OU  Continue operation of the vadose zone remediation system  Continue post-closure maintenance activities
Upper Three Runs Watershed	General Separations Area Eastern Groundwater Operable Unit (NBN)  (Formerly the H-Area Groundwater Operable Unit (NBN))	Collect annual groundwater samples. Submit a revised Scoping Summary documenting results from the sampling activity and review the data with the Core Team		Collected annual groundwater samples. Submitted a revised Scoping Summary documenting results from the sampling activity and reviewed the data with the Core Team		Collect annual groundwater samples. Submit a revised Scoping Summary documenting results from the sampling activity and review the data with the Core Team
Upper Three Runs Watershed	General Separations Area Western Groundwater Operable Unit (NBN)  (Formerly the F-Area Tank Farm Groundwater and F-Area Canyon Groundwater Operable Units (NBN))	Collect annual groundwater samples. Submit a revised Scoping Summary documenting results from the sampling activity and review the data with the Core Team		Collected annual groundwater samples		Collect annual groundwater samples. Submit a revised Scoping Summary documenting results from the sampling activity and review the data with the Core Team

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Upper Three Runs Watershed	M Area Operable Unit <sup>1</sup>	<p>Submit Production Area RSER/EE/CA</p> <p>Submit Salvage Yard RSER/EE/CA</p> <p>Submit Rev. 0 RFI/RI Work Plan, RFI/RI Report with BRA, and CMS/FS</p>	<p>Submitted Rev. 0 RFI/RI Work Plan, RFI/RI Report with BRA, and CMS/FS</p>	<p>Submitted Production Area RSER/EE/CA</p> <p>Submitted Salvage Yard RSER/EE/CA</p> <p>Started Production Area Removal Actions</p> <p>Started Salvage Yard Removal Action</p> <p>Submitted Rev. 0 SB/PP</p>		<p>Submit Certified Clean Copy of the RFI/RI Work Plan, RFI/RI Report with BRA, and CMS/FS</p> <p>Submit Rev. 0 ROD</p> <p>Complete Production Area Removal Actions</p> <p>Complete Salvage Yard Removal Action</p>
Upper Three Runs Watershed	M-Area Hazardous Waste Management Facility, Vadose Zone, 642-28G	<p>Continue characterization of vadose zone</p> <p>Continue operations of the MASB DUS system and other vadose zone corrective actions</p> <p>Submit MASB DUS progress reports</p> <p>TA at the A-014 Outfall to enhance soil vapor extraction with hydraulic fractures</p>		<p>Continued characterization of vadose zone</p> <p>Continued operations of the MASB DUS system and other vadose zone corrective actions</p> <p>Submitted MASB DUS progress reports</p> <p>Obtained Renewal of TSCA Approval for the MASB DUS system, including the use of the system for the purge water from the A-014 Outfall TA Demonstration</p> <p>Began TA Demonstration at the A-014 Outfall to enhance soil vapor extraction with hydraulic fractures</p>		<p>Continue characterization of vadose zone</p> <p>Continue operations of the MASB DUS system and other vadose zone corrective actions</p> <p>Submit MASB DUS progress reports</p> <p>Continue TA Demonstration at the A-014 Outfall to enhance soil vapor extraction with hydraulic fractures</p>

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Upper Three Runs Watershed	M-Area Hazardous Waste Management Facility: A/M Area Groundwater Portion, 904-110G	<p>Submit Annual Appendix IX Well Sampling Proposal</p> <p>Continue operation of the MASB DUS System and other corrective action systems</p> <p>Continue additional characterization of suspect VOC sources</p> <p>Continue groundwater monitoring activities</p> <p>Submit the semi-annual and annual corrective action and groundwater monitoring reports</p> <p>Submit MASB DUS progress reports</p> <p>Submit Southern Sector Phase II Corrective Action Plan</p> <p>Submit ABRP/MCB/MBP OU Groundwater Phase II Corrective Action Plan</p>		<p>Submitted Annual Appendix IX Well Sampling Proposal</p> <p>Continued operation of the MASB DUS System and other corrective action systems</p> <p>Continued additional characterization of suspect VOC sources</p> <p>Continued groundwater monitoring activities</p> <p>Submitted the semi-annual and annual corrective action and groundwater monitoring reports</p> <p>Submitted MASB DUS progress reports</p> <p>Obtained Renewal of TSCA Approval for the MASB DUS system, including the use of the system for the purge water from the A-014 Outfall TA Demonstration</p> <p>Submitted Southern Sector Phase II Corrective Action Plan</p> <p>Submitted ABRP/MCB/MBP OU Groundwater Phase II Corrective Action Plan</p>		<p>Submit Annual Appendix IX Well Sampling Proposal</p> <p>Continue operation of the MASB DUS System and other corrective action systems</p> <p>Continue additional characterization of suspect VOC sources</p> <p>Continue groundwater monitoring activities</p> <p>Submit the semi-annual and annual corrective action and groundwater monitoring reports</p> <p>Submit MASB DUS progress reports</p>
Upper Three Runs Watershed	M-Area Settling Basin Inactive Process Sewers to Manhole 1, 081-M	<p>Issue ROD</p> <p>Submit Rev. 0 CMI/RAIP</p> <p>Submit Rev. 0 LUCIP</p> <p>Remedial Action Start</p>	<p>Issued ROD</p> <p>Submitted Rev. 0 CMI/RAIP</p> <p>Submitted Rev. 0 LUCIP</p> <p>Remedial Action Start</p>	<p>Submitted Certified Clean Rev. 1 CMI/RAIP</p> <p>Submitted Clean Rev. 1 LUCIP</p>	SGP-07-159: Issue ROD Milestone extended from April 26, 2007 to May 29, 2007 due to inadequate time to obtain EPA's and SCDHEC's signatures	Submit Rev. 0 PCR

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Upper Three Runs Watershed	M-Area Settling Basin, 904-51G	Continue surveillance and cap maintenance		Continued surveillance and cap maintenance		Continue surveillance and cap maintenance
Upper Three Runs Watershed	Met Lab/Carolina Bay, 904-110G	Submit Annual Appendix IX Well Sampling Proposal  Continue groundwater monitoring activities  Submit semi-annual and annual corrective action and groundwater monitoring reports  Continue operation of the existing Met Lab recovery wells and Baroball wells  Continue surveillance and cap maintenance		Submitted Annual Appendix IX Well Sampling Proposal  Continued groundwater monitoring activities  Submitted semi-annual and annual corrective action and groundwater monitoring reports  Continued operation of the existing Met Lab recovery wells and Baroball wells  Continued surveillance and cap maintenance		Submit Annual Appendix IX Well Sampling Proposal  Continue groundwater monitoring activities  Submit semi-annual and annual corrective action and groundwater monitoring reports  Continue operation of the existing Met Lab recovery wells and Baroball wells  Continue surveillance and cap maintenance
Upper Three Runs Watershed	Sanitary Landfill Groundwater, 740-G	Continue monitoring of the VOC-contaminated plume  Submit the semi-annual and annual corrective action and groundwater monitoring reports		Continued monitoring of the VOC-contaminated plume  Submitted the semi-annual and annual corrective action and groundwater monitoring reports		Continue monitoring of the VOC-contaminated plume  Submit the semi-annual and annual corrective action and groundwater monitoring reports
Upper Three Runs Watershed	Sanitary Landfill, 740-G	Continue post-closure maintenance and monitoring activities		Continued post-closure maintenance and monitoring activities		Continue post-closure maintenance and monitoring activities
Upper Three Runs Watershed	SRL Seepage Basins, 904-53G1, 904-53G2, 904-54G, 904-55G	Continue post-closure maintenance activities		Continued post-closure maintenance activities		Continue post-closure maintenance activities
Upper Three Runs Watershed	Upper Three Runs Integrator Operable Unit	Phase II Field Start  Submit Periodic Report	Phase II Field Start  Submitted Periodic Report			Second Phase II Field Start



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

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

**REQUIRED REPORTING****Corrective Measures Implementation Report/Post Construction Report/Final Remediation Report Groundwater Monitoring*****F-Area Retention Basin (FRB)***

Groundwater data from the F-Area Retention Basin is now reported on an annual basis as part of the GSA Western Groundwater OU. The data is no longer reported in the FFA Annual Progress Report.

**Institutional Control Units**

Records of Decision (RODs) have been issued for some RCRA/CERCLA Units at the SRS in which the selected alternative is or includes Institutional Controls. To assure the USEPA, SCDHEC, and the public that SRS is maintaining the Institutional Controls 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 Land Use Control Implementation Plans (LUCIPs), and in accordance with the *Land Use Control Assurance Plan for the Savannah River Site*.

The following certification is applicable to the following RCRA/CERCLA Units:

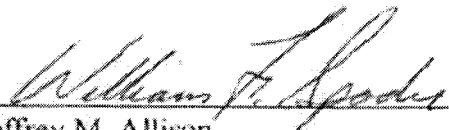
Unit Name	SRS Index Number(s)	CERCLIS Number(s)
A-Area Burning/Rubble Pits and Rubble Pit (731-A, -1A, & -2A)	45, 46, 49	19
A-Area Miscellaneous Rubble Pile (731-6A)	48	30
C-Area Reactor Seepage Basins (904-66G, -67G, & -68G)	53, 54, 55	60
Central Shops Burning/Rubble Pits (631-1G & -3G)	58, 59	50
CMP Pits 3, 80-170G, -171G, -180G, -182G, 183G, and -190G	61, 62, 63, 64, 65, 66, 67	24
D-Area Burning/Rubble Pits (431-D, & -1D)	32, 33	15
D-Area Expanded Operable Unit (Consisting of the D-Area Rubble Pit, 431-2D and D-Area Ash Basin, 488-D)	68, 273	67
D-Area Oil Seepage Basin (631-G)	26	27
F-Area Burning/Rubble Pits (231-F, -1F, & -2F)	34, 35, 36	14
F-Area Retention Basin (281-3F)	73	23
Ford Building Seepage Basin (904-91G)	75	58
General Separations Area Consolidation Unit <ul style="list-style-type: none"> <li>• Old Radioactive Waste Burial Ground (Including Solvent Tanks) (643-E)</li> <li>• HP-52 Ponds</li> <li>• H-Area Retention Basin (281-3H) and Spill on 05/01/1956 of Unknown of Retention Basin Pipe Leak (NBN)</li> <li>• Warner's Pond (685-23G) and Spill on 03/08/1978 of Unknown of Seepage Basin Pile Leak in H-Area Seepage Basin (NBN) and Spill on 02/08/78 of Unknown of H-Area Process Sewer Line Cave-In, NBN</li> </ul>	18, 29, 28, 417, 27, 405, 398	22, 49, 32, 48
Heavy Equipment Wash Basin (NBN)	502	53
K-Area Bingham Pump Outage Pit (643-1G)	83	20
K-Area Burning/Rubble Pit (131-K) and K-Area Rubble Pile (631-20G)	84, 88	40

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Savannah River Site**
**WSRC-RP-2007-4078  
November 2007**

<b>Unit Name</b>	<b>SRS Index Number(s)</b>	<b>CERCLIS Number(s)</b>
K-Area Reactor Seepage Basin (904-65G)	87	55
L- and P-Area Bingham Pump Outage Pits (643-2G, -3G, & -4G)	91, 92, 107	26, 39
L-Area Hot Shop (717-G) (Including CML-003 Sandblast Area)	94, 353	76
L-Area Oil and Chemical Basin (904-83G)	96	17
L-Area Reactor Seepage Basin (904-64G)	306	65
L-Area Rubble Pile (131-3L)	169	56
M-Area Inactive Process Sewer Lines Operable Unit (81-M)	100, 234	92
Miscellaneous Chemical Basin/Metals Burning Pit (731-4A & -5A)	101, 102	28
Old F-Area Seepage Basin (904-49G)	105	116
P-Area Burning/Rubble Pit (131-P)	108	59
P-Area Reactor Seepage Basins (904-61G, -62G, & -63G)	317, 318, 319	66
R-Area Bingham Pump Outage Pits (643-8G, -9G, & -10G) and R-Area Unknown Pits #1, #2, #3 (RUNK -1, -2, & -3)	113, 114, 115, 550, 551, 552	38
R-Area Burning/Rubble Pits (131-R & 131-1R) and R-Area Rubble Pile (631-25G)	117, 116, 118	43
R-Area Reactor Seepage Basins (904-57G, -58G, -59G, -60G, -103G, -104G)	119, 120, 121, 122, 123, 124	25
Silverton Road Waste Site (731-3A)	41	13
SRL Seepage Basins (904-53G1, -53G2, -54G, & 55G)	133, 134, 135, 136	83
T Area Operable Unit [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, X-001 Outfall Drainage Ditch, NBN (See DOE Letter SGP-05-128 for list of decommissioned facilities added to T Area Completion)]	310, 500, 559, 467	96
TNX Area Operable Unit [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), & TNX Groundwater (082-G)]	139, 104, 106, 25, 127	47

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*.

Signature: 

Date: 11/26/07

Jeffrey M. Allison  
Manager  
for United States Department of Energy  
Savannah River Operations Office

**LIST OF ACRONYMS AND ABBREVIATIONS**

ABRP	A-Area Burning/Rubble Pits and Rubble Pit
AS	Air Sparging
BRA	Baseline Risk Assessment
CAP	Corrective Action Plan
CAR	Corrective Action Report
CBRP	C-Area Burning/Rubble Pit
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CMI	Corrective Measures Implementation
CMIR	Corrective Measures Implementation Report
CMI/RAIP	Corrective Measures Implementation/Remedial Action Implementation Plan
CMP Pits	Chemicals, Metals, and Pesticides Pits
CMS	Corrective Measures Study
CPT	Cone Penetrometer Test
DEXOU	D-Area Expanded Operable Unit
ECODS	Early Construction Operational Disposal Site
ER	Environmental Restoration
ERD	Environmental Restoration Department
ESD	Explanation of Significant Differences
FFA	Federal Facility Agreement
FRR	Final Remediation Report
FS	Feasibility Study
FY	Fiscal Year
GSA	General Separations Area
GSACU	General Separations Area Consolidation Unit
HLW	High Level Waste
HWMF	Hazardous Waste Management Facility
IAPCR	Interim Action Post-Construction Report
IAPP	Interim Action Proposed Plan
ICM	Interim Corrective Measures
IOU	Integrator Operable Unit
IPSL	Inactive-Process Sewer Line
IRA	Interim Remedial Action
IRAIP	Interim Remedial Action Implementation Plan
IROD	Interim Record of Decision
LLRWDF	Low-Level Radioactive Waste Disposal Facility
LUCAP	Land Use Control Assurance Plan
LUCIP	Land Use Control Implementation Plan
MBP	Metals Burning Pit
MCB	Miscellaneous Chemical Basin
MCL	Maximum Contaminant Level
MNA	Monitored Natural Attenuation
MOA	Memorandum of Agreement

**LIST OF ACRONYMS AND ABBREVIATIONS (cont'd)**

MWMF	Mixed Waste Management Facility
NaOH	Sodium Hydroxide
NBN	No Building Number
ORWBG	Old Radioactive Waste Burial Ground
OST	Old Solvent Tank
OU	Operable Unit
PCB	Polychlorinated Biphenyl
PCL	Picocuries/Liter
PCR	Post-Construction Report
PER	Performance Evaluation Report
PMR	Performance Monitoring Report
POC	Point of Compliance
PP	Proposed Plan
PRG	Preliminary Remediation Goal
PSVE	Passive Soil Vapor Extraction
RA	Remedial Action
RACR	Remedial Action Completion Report
RAIP	Remedial Action Implementation Plan
RCRA	Resource Conservation Recovery Act
RDR	Remedial Design Record
RAWP	Remedial Action Work Plan
RCRA	Resources Conservation and Recovery Act
RD/RA	Remedial Design/Remedial Action
RFI/RI	RCRA Facility Investigation/Remedial Investigation
RFI/RI/BRA	RCRA Facility Investigation/Remedial Investigation/Baseline Risk Assessment
RFI/RI WP	RCRA Facility Investigation/Remedial Investigation Work Plan
ROD	Record of Decision
SB	Statement of Basis
SCDHEC	South Carolina Department of Health and Environmental Control
SDWA	Safe Drinking Water Act
SEA	Site Evaluation Area
SRL	Savannah River Laboratory (now SRNL)
SRNL	Savannah River National Laboratory
SRS	Savannah River Site
SRTC	Savannah River Technology Center
SRWU	Silverton Road Waste Unit
SVE	Soil Vapor Extraction
TA	Temporary Authorization
TER	Technical Evaluation Report
UIC	Underground Injection Control
UST	Underground Storage Tank
USDOE	United States Department of Energy
USDOE-HQ	United States Department of Energy Headquarters
USDOE-SR	United States Department of Energy Savannah River

USEPA  
VOC  
WTU

United States Environmental Protection Agency  
Volatile Organic Compound  
Waste Treatment Unit



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