

STEEL CREEK INTEGRATOR OPERABLE UNIT

SCOPING SUMMARY

ERD-EN-2001-0181

November 19, 2003

1.0 PROJECT PHASE AND STATUS OF THE STEEL CREEK IOU

This scoping summary supports the November 19, 2003 Scoping Meeting for the second Steel Creek Integrator Operable Unit (IOU) Periodic Report. The Core Team agreed at the 3/11/03 Scoping Meeting to develop a Fact Sheet that describes the removal action of placing warning signs in areas of the IOUs that exceed human health benchmarks. The Fact Sheet was submitted to the Core Team for review and comment. After incorporating comments the Fact Sheet was included in the Administrative Record File (ARF) and mailed to the public and other stakeholders.

2.0 BACKGROUND

The Steel Creek IOU is defined as Steel Creek and its tributaries, including surface water and groundwater seeps, sediment, sediment/soil, and related biota in these streams and their associated floodplains (Figure 1). The L-Lake, L-Area Reactor Discharge Canal and P-Area Reactor Discharge Canal OUs have also been combined with the Steel Creek IOU. This area represents the integration of potential contaminant exposure pathways to onsite human and ecological receptors from potential SRS contaminant sources. Existing datasets for use in evaluating data needs and potential early actions are given in Table 1. A list of waste units potentially impacting the Steel Creek IOU is presented in Tables 2a and 2b.

Based on analytical data, process knowledge, and contaminant source information, a qualitative Steel Creek IOU Conceptual Site Model (CSM) has been developed and maintained for the Steel Creek IOU. The SRS-wide CSM is depicted in Figure 2. Figure 3 provides the CSM for L Area, the CSM for P Area is provided in Figure 4, and the CSM for the General Areas in the Steel Creek IOU is provided in Figure 5.

3.0 LAND USE

Current land use in the Steel Creek IOU is mixed. Two heavy industrial nuclear areas (L Area and P Area) surrounded by industrial non-nuclear areas are within the Steel Creek IOU. For the purposes of identifying problems warranting early actions, the evaluation focuses on assessment of the most likely human health receptors for each medium and ecological screening.

The following human receptors have been identified for primary benchmark analysis: on-site worker and subsistence fisherman. These human health scenarios include:

- on-site worker for sediment, sediment/soil, and surface water
- subsistence fisherman for fish

Final remedial decisions for the Steel Creek IOU will be based on the appropriate land use as determined by the core team during Phase III.

4.0 SEDIMENT AND SEDIMENT/SOIL EXPOSURE MEDIA

4.1 Problems Warranting Early Action

- Cesium-137 exceeds the human health sediment benchmark screening value (89 pCi/g) for the on-site worker in sediment and sediment/soil at Upper Steel Creek near the P-Area Reactor Discharge Canal and at an isolated location approximately 55 meters (175 feet) upstream of sample location SC-2A. SC-2A is located approximately 1,370 meters (4,500 feet) upstream of L-Lake.

4.2 Interim Remedial Action Objectives

- Minimize the potential exposure of cesium-137 in sediment to the current on-site worker in sediment and sediment/soil at Upper Steel Creek near the P-Area Reactor Discharge Canal, the area near sample location SC-2A, and other areas that may be identified during phase II activities.

4.3 Scope of the Problem Warranting Early Action

- A discernable area of cesium-137 is present in sediment (max 968 pCi/g) and sediment/soil (max 469 pCi/g) at levels exceeding the human health sediment benchmark (89 pCi/g). This area is located at the headwaters of the Upper Steel Creek near the P-Area Reactor Discharge Canal. The area upstream of sample location SC-2A contains a small discernable area (several hundred square meters) of cesium-137 (max 824 pCi/g) contamination exceeding the human health sediment benchmark.

- The scope of the problem may include other areas exceeding the human health benchmark identified during future Phase II activities.

4.4 Likely Early Response Actions

- Administrative controls (installation of warning signs of radiologically controlled areas and access restrictions for the on-site worker) have been implemented to augment existing and recently installed RADCON signs in the Upper Steel Creek IOU near P Area. Similar administrative controls have been taken at the location upstream of sample location SC-2A.

4.5 Uncertainties

- There is uncertainty with the extent of contamination in areas where benchmark exceedances exist. This uncertainty impacts the team's ability to obtain a reasonable estimate of the volume of contamination to define the scope of the problem. This uncertainty will be managed through continued characterization in Phase II and III.
- There is uncertainty with the extent of contamination into those areas that were not included in the Phase II investigation. This uncertainty impacts the team's ability to define the nature and extent of contamination for Phase III final actions. This uncertainty will be managed through additional characterization in the other areas of the IOU as needed to support a final action in Phase III.
- There was uncertainty associated with nonvolatile beta values that exceeded the 50 pCi/g trigger level in sediment. This uncertainty was managed by performing nonvolatile beta speciation analysis at sample locations where the 50 pCi/g trigger level was exceeded. Results from the follow-on nonvolatile beta speciation indicated there are no individual nonvolatile beta emitting radionuclides exceeding human health or ecological benchmarks. The laboratory did not provide the requested analyses for Carbon-14, Nickel-63, Technetium-99, and Iodine-129. However, based on previous environmental investigations at SRS, these radionuclides do not show up as Contaminants of Concern. Additionally, these four radionuclides were evaluated upstream in the headwaters of Steel Creek (at the source area), and no human health or ecological benchmarks were observed. SRS proposes no re-sampling at these locations.

- There is uncertainty associated with the extent of cesium-137 contamination just upstream of sample location SC-2A. This uncertainty impacts the team's ability to determine the extent of contamination, evaluate for data gaps, and evaluate the need for an early action. Field screening for cesium-137 using sodium iodide detector technology with confirmatory laboratory gamma speciation analyses will be employed in this area to determine the extent of cesium-137 contamination.
- There is uncertainty associated with the source of the ecological benchmark exceedances in upper Meyers Branch. This impacts the team's ability to evaluate the need for an early action. This uncertainty will be managed with further investigation in upper Meyers Branch associated with the Dunbarton Railroad Yard.. As it becomes available, the data will be evaluated by the IOU Program and additional data needs will be identified in the subsequent periodic report.
- There is uncertainty that existing biological data do not assess contaminant biotransfer. . This uncertainty impacts the team's ability to perform contaminant uptake modeling in order to assess the impact to selected Steel Creek ecological receptors. This uncertainty is being managed by collecting data to assess prey item contaminant body burdens for piscivorous birds. Data collection is complete for the piscivorous bird study that was conducted in the floodplain swamp. The results of the study will be incorporated in the next periodic report.?
- There is uncertainty associated with the potential impacts of contaminants on fish and macroinvertebrate assemblages within Steel Creek. This uncertainty impacts the team's ability to determine whether ecological impacts are occurring due to contaminate levels within Steel Creek. This uncertainty is being managed by periodic bioassessment monitoring for fish and macroinvertebrate assemblages within Steel Creek that is currently being conducted. Potential impact to fish are also being addressed by the ongoing larval/juvenile fish survey and growth evaluation. Results of the bioassessment monitoring and larval/juvenile fish work will be addressed in a future periodic report.

5.0 FISH EXPOSURE MEDIA

5.1 Problems Warranting Early Action

There is no problem warranting action under the early action criteria.

5.2 *Interim Remedial Action Objectives*

- None

5.3 *Scope of the Problem Warranting Early Action*

- None

5.4 *Likely Early Response Actions*

- No early response action is needed.

5.5 *Uncertainties*

- There is uncertainty associated with the extent of contamination as a result of fish movement between the Savannah River and the Steel Creek. This impacts the team's ability to evaluate the risk to human health receptors from consumption of fish from the Savannah River, and to identify future Steel Creek response actions. This uncertainty will be managed as a part of the Savannah River /Swamp IOU by continuing the fish movement study that will be used to support future response action decisions in terms of the range of fish movement, timing, and magnitude.

6.0 SURFACE WATER EXPOSURE MEDIA

6.1 *Problems Warranting Early Action*

There is no problem warranting action under the early action criteria.

6.2 *Interim Remedial Action Objectives*

- None

6.3 *Scope of the Problem Warranting Early Action*

- None

6.4 *Likely Early Response Actions*

- No early response action is needed.

6.5 *Uncertainties*

- There is uncertainty regarding the extent of tritium and VOC plumes discharging from P-Reactor Groundwater to the upper reaches of Steel Creek and P-Area Reactor Discharge Canal. The impact of this uncertainty is that additional remedial actions may be required to address all of the contamination in the Upper Steel Creek. This uncertainty will be managed by reprioritizing P Reactor Groundwater OU and performing plume characterization.
- There is uncertainty associated with the impact to sediment dwelling organisms from VOCs that are discharging into L-Lake from L Southern Groundwater OU. This uncertainty impacts the Core Team's ability to assess ecological risk. This uncertainty is being addressed under the characterization for L Southern Groundwater OU.
- There was uncertainty associated with alpha-emitting trigger levels that were exceeded at SC-4A. This uncertainty impacts the team's ability to clearly define the nature of the contamination. This uncertainty was managed by performing alpha speciation analysis at SC-4A where the 15 pCi/L trigger level was exceeded. Results from the follow-on nonvolatile beta speciation indicated there are no individual alpha emitting radionuclides exceeding human health or ecological benchmarks.

7.0 IOU STRATEGY

As Phase II continues, current IOU data, new OU information, and pertinent OU characterization data will be incorporated into the Steel Creek IOU project as it becomes available. Periodic evaluation of data will be used to refine the IOU CSM. Phase III of the Steel Creek IOU (completion of the RI/FS) will be conducted after the remedial decisions for OUs in the Steel Creek watershed have been made.

No portion of the IOU has been identified to be accelerated into Phase III.

As a result of data needs identified during the Steel Creek IOU investigation, the Core Team agreed to accelerate the schedule for the Dunbarton Railroad Yard. Characterization activities are ongoing, and the data will be evaluated/reported in future Steel Creek Periodic Reports.

7.1 Early Action Strategy

The project team proposes an early action that will include the following:

The Core Team agrees to implementing administrative controls (warning signs) as an early action at the headwaters of Steel Creek and continue similar administrative controls at other areas identified during Phase II activities to minimize on-site worker access in these areas to be protective of human health.

Key Changes

The following key changes were made to the January 31, 2002 version of the Steel Creek Integrator Operable Unit Scoping Summary:

- “Key Changes” and “Record of Key Agreements” have been added to the scoping summary to be consistent with *Core Team Guide for Project Scoping*, ERTEC-2002-00019, D. Brett, October 1, 2002.
- Savannah River Swamp Area including the Steel Creek Delta and Creek Plantation has been removed from the Steel Creek IOU and included in the Savannah River IOU.
- PTSM has been eliminated from the screening process.
- The project team proposes reevaluating the need for methyl mercury speciation as part of Phase III based on final decisions regarding assessment end points.

Record of Key Agreements

March 11, 2003 IROD/IAPP Design Team Meeting

The Core Team agreed at the 3/11/03 Design Team Meeting to develop a Fact Sheet that describes the removal action of placing warning signs in areas of the IOUs that exceed human health benchmarks.

January 8, 2003 Four Mile Branch Scoping Meeting

- SRS will evaluate an IOU program-wide IAPP/IROD strategy for the implementation of Interim actions. This will be presented for Core Team discussion at the February 19, 2003 Steel Creek IOU IAPP/IROD Scoping Meeting.
- The Core Team agreed to staggering the submittal of periodic reports to February, April and June (e.g. In 2004, Steel Creek Periodic Report 2 - February, Pen Branch Periodic Report 1 - April, and Lower Three Runs Periodic Report 1 - June).

November 18, 2002 Steel Creek PTSM Discussion

- The IOU program will utilize the EPA PRG calculator (http://epa-prgs.ornl.gov/radionuclides/prg_search.shtml).
- No PTSM evaluation is required. Early action determinations will continue to be performed consistent with current IOU protocols.

January 16, 2002 Design Team Meeting

- Steel Creek Swamp Area and Creek Plantation were removed from the Steel Creek IOU and included in the Savannah River IOU.
- Various locations in the vicinity of the Steel Creek headwaters exceeded ~~both~~ the human health benchmark

- This Core Team agreed that the proposed early action would include defining an interim remedial action objective, and selecting likely response actions.
- Based on the existing dataset, the lateral extent of cesium-137 in sediment and sediment/soil exceeding the 10^{-4} human health benchmarks is adequately established, and no additional sampling is proposed at this time. However, additional sampling may be required to support the evaluation associated with the IAPP/ IROD. Note: Subsequent Core Team discussions resulted in agreement for further evaluation of the cesium contamination above SC-2A.
- The L Lake / Old L Area Discharge Canal OU will be combined with the Steel Creek IOU and will no longer be considered separate operable units. The FFA Appendix will be revised accordingly during the next annual revision.
- For the next Periodic Report the adolescent trespasser scenario will be replaced with the on-site worker for surface water to be consistent with the other IOUs in applying the most realistic conservative scenario.

FIGURE 1 STEEL CREEK IOU

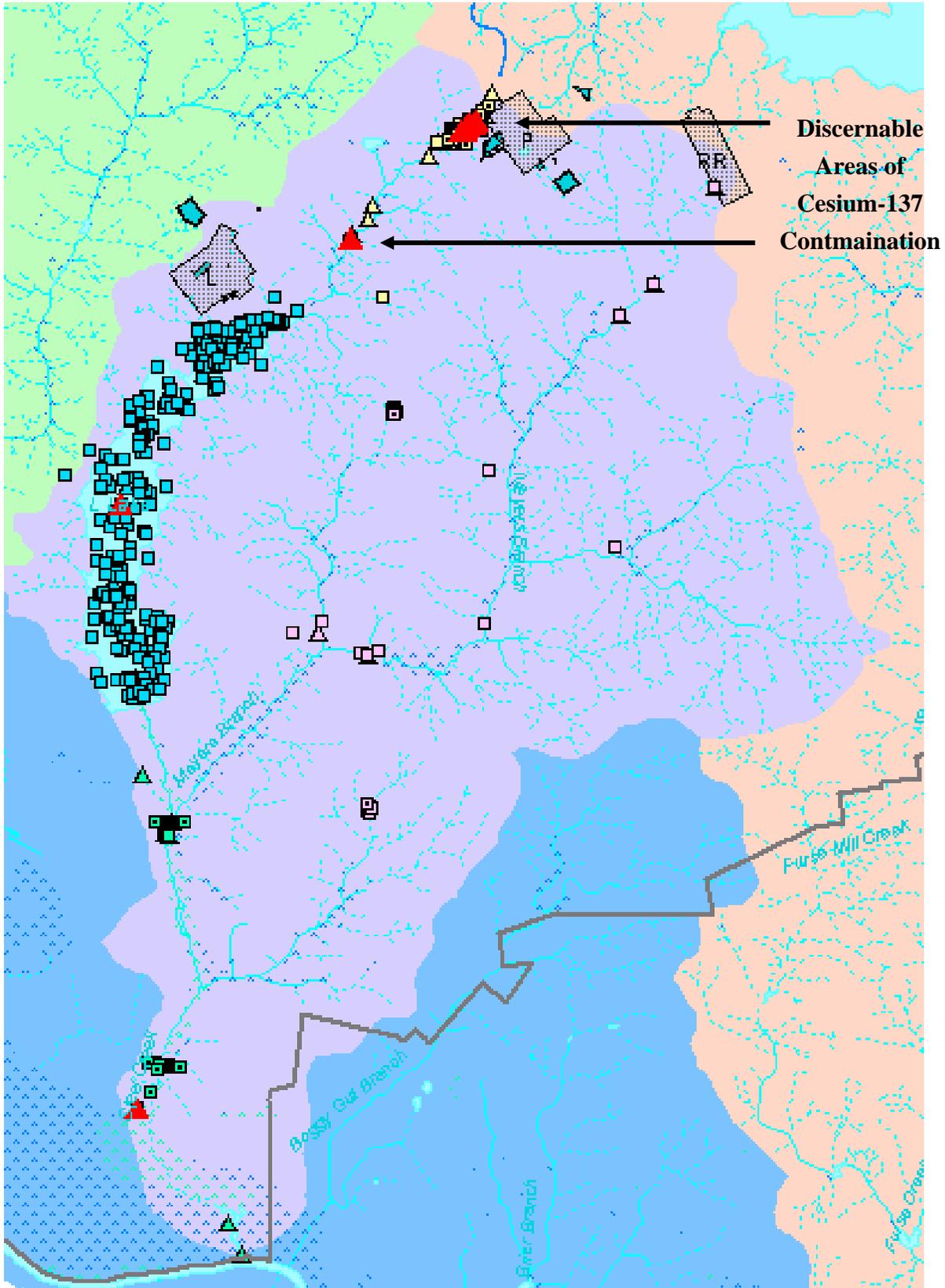


FIGURE 2 SRS – WIDE CONCEPTUAL SITE MODEL

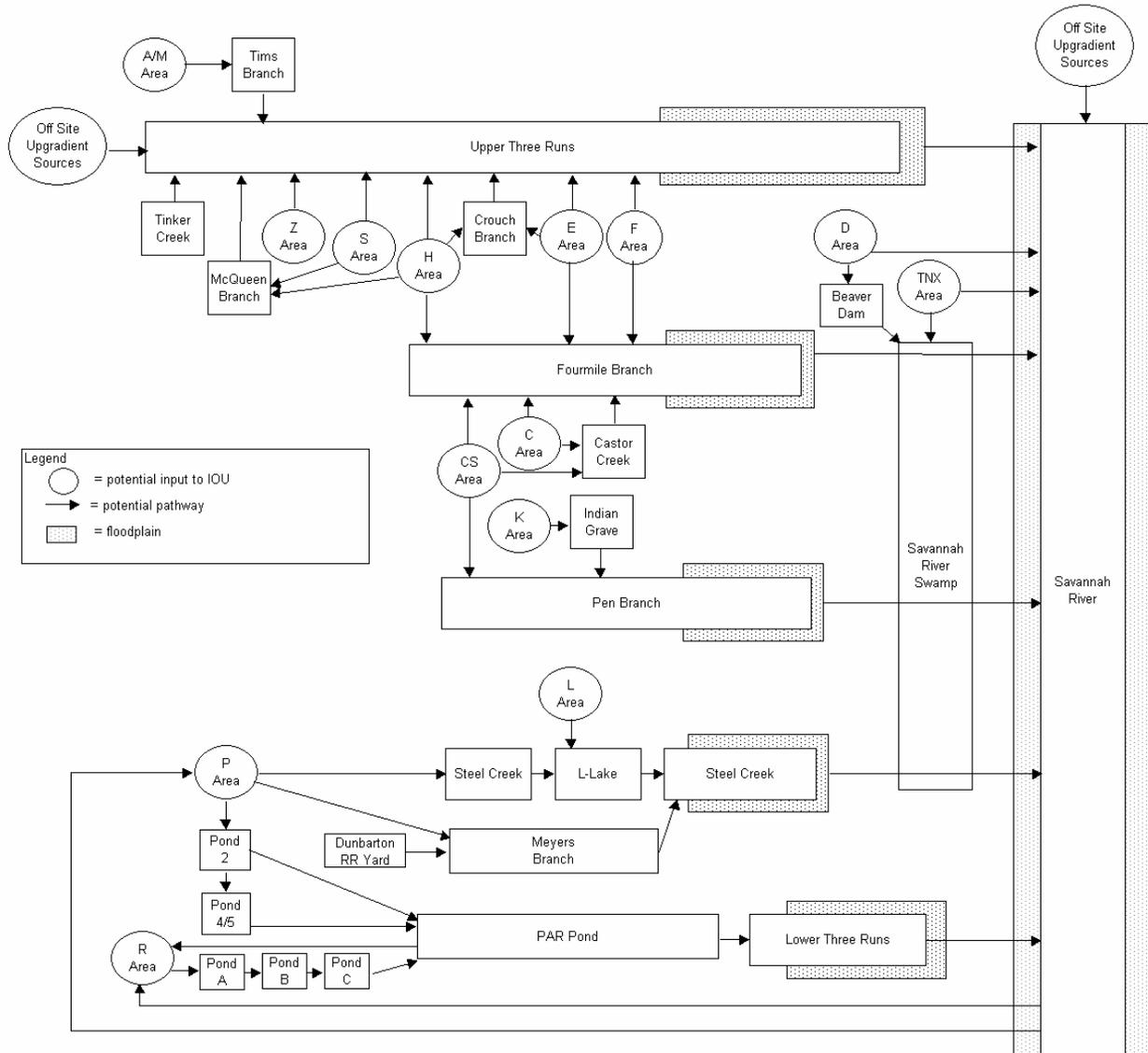


FIGURE 3 -- L AREA CONCEPTUAL SITE MODEL

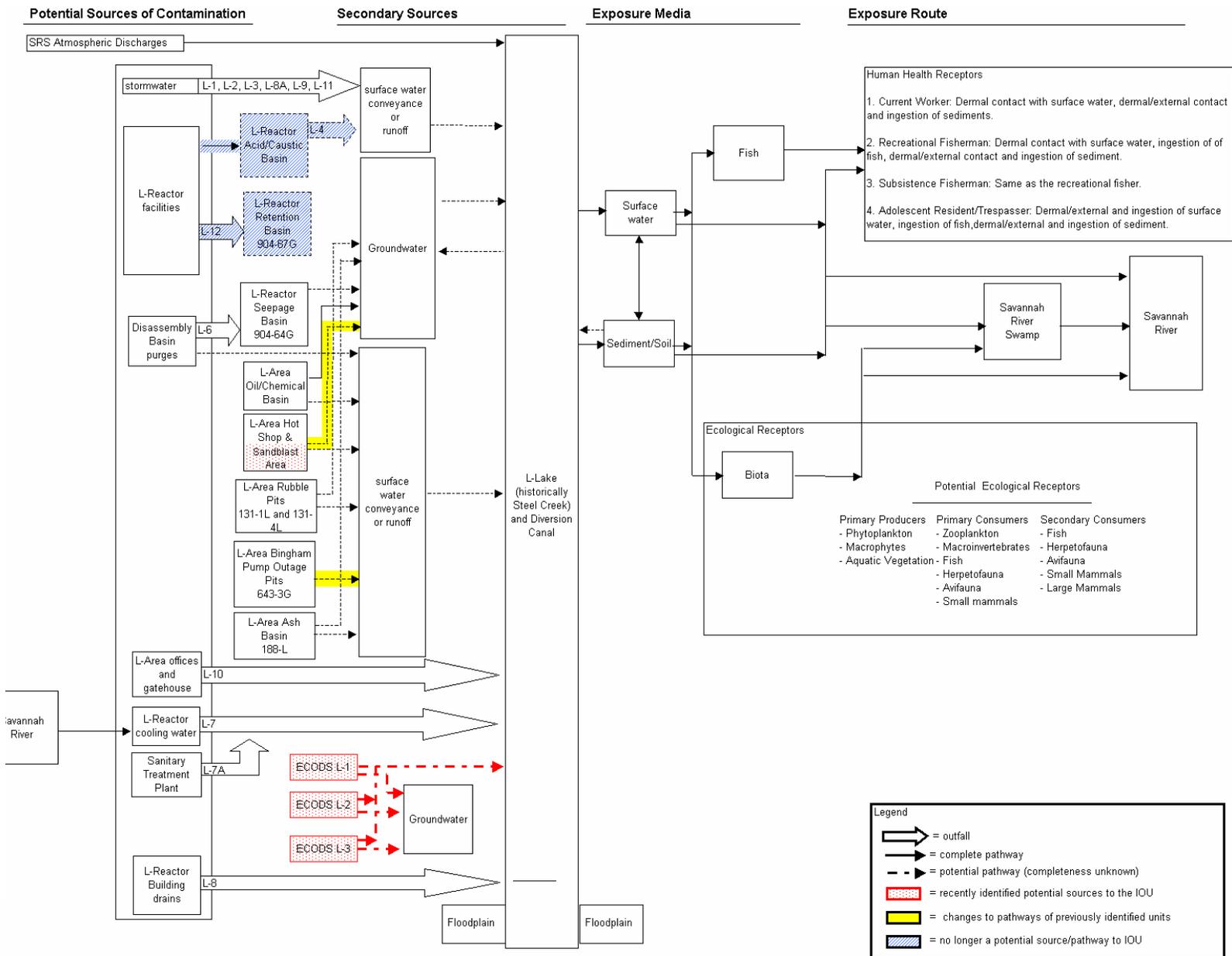


FIGURE 4 -- P AREA CONCEPTUAL SITE MODEL

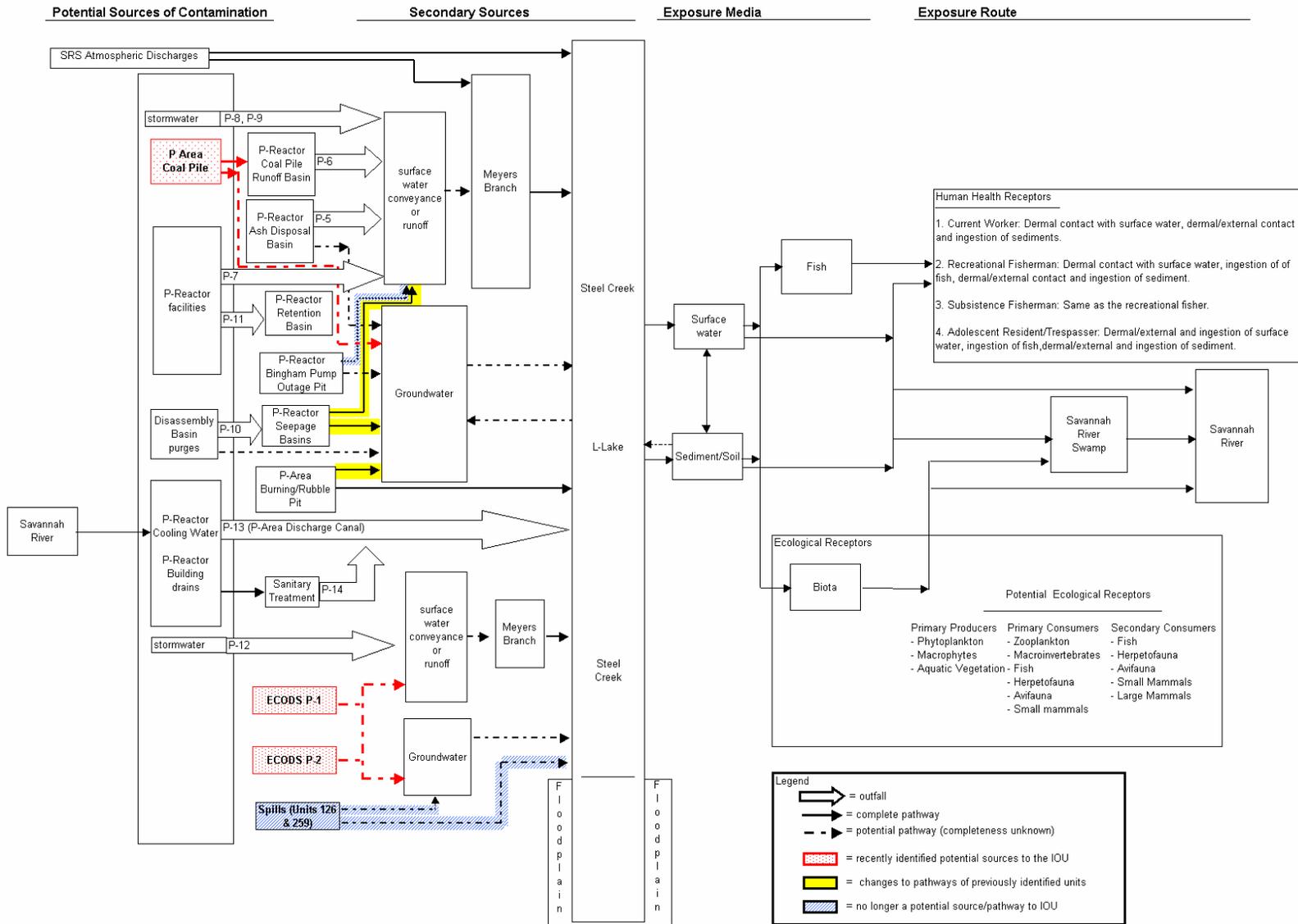


FIGURE 5 -- GENERAL AREAS CONCEPTUAL SITE MODEL

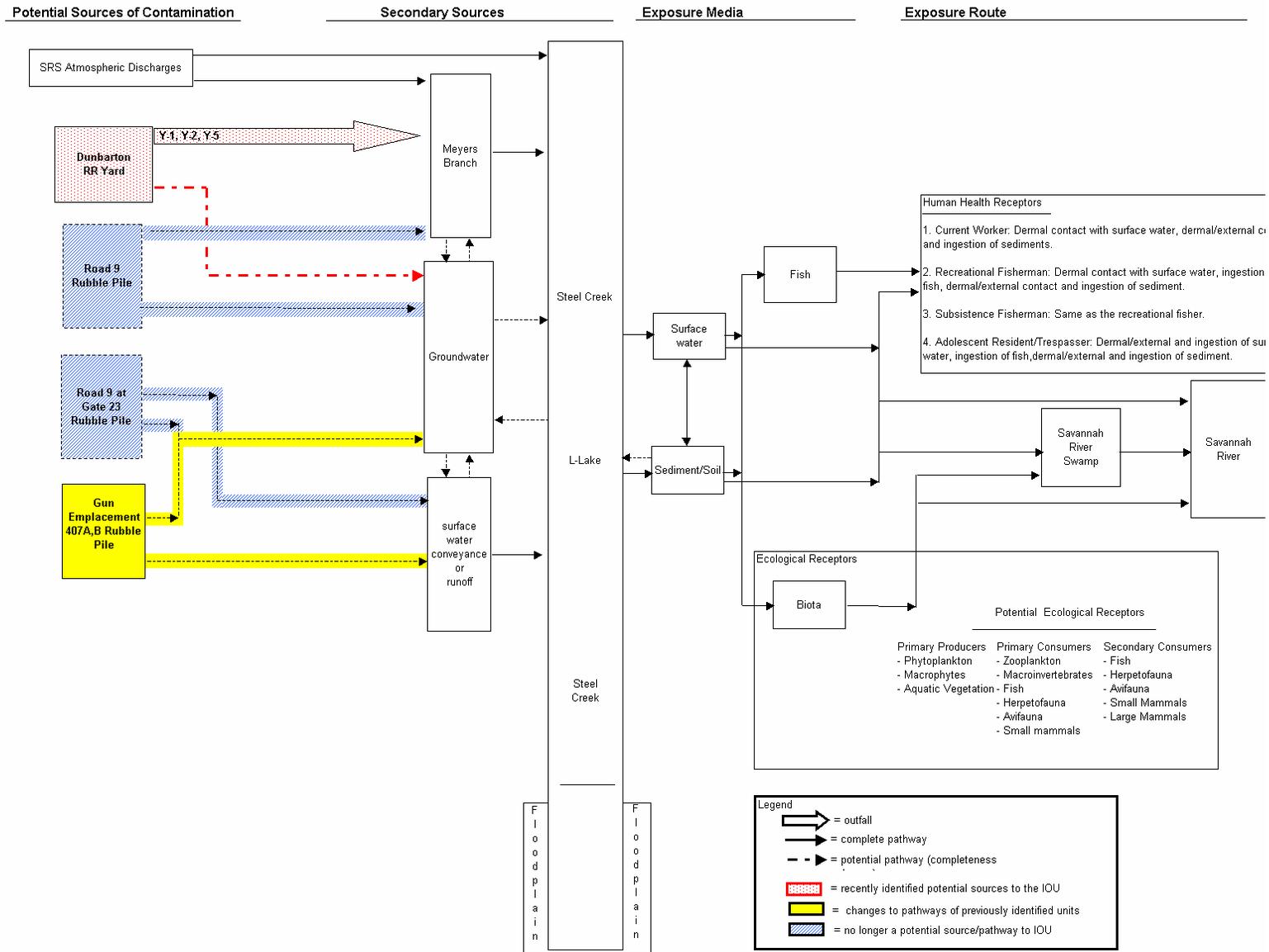


TABLE 1 STEEL CREEK IOU DATASETS

Sediment

P Area Burning/Rubble Pit

SC BEIDMS IOUCONT Sediment Data

SC Duke XRF Sediment Data

SC EMCAP Sediment

SC L-LakeEIS GammaProbe Sediment

SC L-LakeEIS Phase1 Sediment

SC L-LakeEIS Phase2 Sediment

SC L-LakeEIS Phase3 Sediment

SC PRBP2Sediment 1998

SC PRBP3 Sediment 1998

SC ParPondEIS Sediment

SC SEDSOIL Steel Creek Integrator Operable Unit 2000

SC SRTC Upper Lower SC

SC Sediment EPA STORET 1998

SC Sediment PBRP PHASE 4 1998-1999

SC Sediment SCDHEC NonRad 1999

SC Sediment SCDHEC Rad 1999

SC Sediment SRTC NAI

SC Sediment Savannah River And Steel Creek Sediment And Water 1999

SC Sediment Steel Creek Integrator Operable Unit 2000

SCDHEC Rad Sediment

STORET Sediment

Savannah River And Steel Creek Sediment And Water

Steel Creek Integrator Operable Unit

WSRC/EMS EMCAP Sediment

TABLE 1 STEEL CREEK IOU DATASETS, Continued

Sediment/soil

P Area Erosion Control Site
Road 9 At Gate 23 Rubble Pit
SC Duke XRF Sedsoil Data
SC EMCAP Sediment
SC SEDSOIL Road 9 At Gate 23 Rubble Pit 1998-1999
SC SRTC Upper Lower SC
SC STRC Hot Spot Study North of SC2A Sediment/Soils
SR ComprehensiveCoolingWater SedSoil 1984
SR EMCAP Sediment 1991-1998

Fish

SC CRESP/Burger Savannah River Fish Data
SC EMCAP Fish / EMS Fish Hg
SC EMCAP Fish 1993-1998
SC Fish SRF Paller-Dyer 1999
SC Fish WSRC/EMS EMCAP 1999
SC Fish WSRC/EMS Mercury 1999
SC Paller-Dyer Fish
SC SREL L Lake/MosquitoFish Mercury Fish
WSRC/EMS EMCAP Fish
WSRC/EMS EMCAP Fish Mercury

TABLE 1 STEEL CREEK IOU DATASETS, Continued

Surface Water

Mercury SRTC-TMDL Study
P Area Burning/Rubble Pit
SC BEIDMS IOUCONT Surface Water Data
SC EMCAP / EMSWQ Surface Water
SC ERDMS Surface Water Data Pull 2003
SC L-LakeEIS-Paller Surface Water
SC PBRP2 Surface Water 1998
SC PBRP3 Surface Water 1998
SC Pre-Charact. of P-Area Reactor Groundwater OU Surface Water Data
SC River Mouth Surface Water
SC SCDHEC Surface Water 1991-1997
SC STORET Surface Water
SC Surface Water EMCAP 1998-1998
SC Surface Water EMS Water Quality 1999
SC Surface Water EPA STORET 1998
SC Surface Water Integrator Operable Units 1998
SC Surface Water P-Area Burning Rubble Pit Phase 4 1998
SC Surface Water SCDHEC NonRad 1999
SC Surface Water SCDHEC Rad 1999
SC Surface Water Savannah River / Steel Creek Sediment & Water 1999
SC Surface Water Steel Creek Integrator Operable Unit 2000
SC TMDL Low-Level Mercury Study
SCDHEC NonRad Water
SCDHEC Rad Surface Water
Savannah River And Steel Creek Sediment And Water
Steel Creek Integrator Operable Unit
WSRC/EMCAP Water
WSRC/EMS Water Quality

TABLE 2a -- WASTE UNITS IN STEEL CREEK IOU (Sort by Unit_ID)

UNIT_ID	UNIT_NAME	IOU_NAME
94	L Area Hot Shop (including Sandblast Area CML-003, NBN), 717-G	Steel Creek
95	L Area Acid/Caustic Basin, 904-79G	Steel Creek
96	L Area Oil/Chemical Basin, 904-83G	Steel Creek
98	L Area Rubble Pit, 131-1L	Steel Creek
99	L Area Rubble Pit, 131-4L	Steel Creek
108	P Area Burning/Rubble Pit, 131-P	Steel Creek
109	P Area Coal Pile Runoff Basin, 189-P	Steel Creek
126	Spill on 03/15/79 of 500 Gallons of Contaminated Water, NBN	Steel Creek
143	P Area Reactor Groundwater	Steel Creek
170	L Area Scrap Metal and Wood, NBN	Steel Creek
171	Meyers Mill Siding Rubble Pile, NBN	Steel Creek
172	Miscellaneous Rubble at Dunbarton, NBN	Steel Creek
176	Pile of Telephone/Light Poles, NBN	Steel Creek
192	Scrap Metal Pile, 631-18G	Steel Creek
303	L Area Disassembly Basin, 105-L	Steel Creek
305	L Area Reactor Cooling Water System, 186/190-L	Steel Creek
306	L Area Reactor Seepage Basin, 904-064G	Steel Creek
313-1	P Area Ash Basin, 188-0P	Steel Creek
313-2	P Area Ash Basin, 188-0P	Steel Creek
315	P Area Erosion Control Site, 131-1P	Steel Creek
317	P Area Reactor Seepage Basin, 904-061G	Steel Creek
318	P Area Reactor Seepage Basin, 904-062G	Steel Creek
319	P Area Reactor Seepage Basin, 904-063G	Steel Creek
323	Potential Release of NaOH/H2 SO4 from 183-2L, NBN	Steel Creek
334	Road 9 at Gate 23 Rubble Pile, NBN	Steel Creek
335	Road 9 Rubble Pile, NBN	Steel Creek
353	Sandblast Area CML-003, NBN	Steel Creek
356	Sandblast Area CMP-004, NBN	Steel Creek
358	Sandblast Area CMP-001, NBN	Steel Creek
362-2	Spill on 01/01/57 of <1 Ci of Beta - Gamma, NBN	Steel Creek
362-3	Spill on 01/01/57 of <1 Ci of Beta - Gamma, NBN	Steel Creek
434	Spill on 05/09/85 of 375 Gal of Process Water from 106-P, NBN	Steel Creek
452	Spill on 09/21/84 of 200 Gal of Water -Rad, NBN	Steel Creek
453	Spill on 09/28/87 of <30 Gal of Bromocide Soln from 607-22P, NBN	Steel Creek
469-2	General Area, Other: Process and Sewer Lines as Abandoned, NBN	Steel Creek

TABLE 2a – WASTE UNITS IN STEEL CREEK IOU (Sort by Unit_ID) (Continued)

UNIT_ID	UNIT_NAME	IOU_NAME
471-2	General Area, Other: Process and Sewer Lines as Abandoned, NBN	Steel Creek
473-1	General Area, Other: Process and Sewer Lines as Abandoned, NBN	Steel Creek
473-2	General Area, Other: Process and Sewer Lines as Abandoned, NBN	Steel Creek
479	L Reactor Area: L Area Reactor Area Cask Car Railroad Tracks as Abandoned, NBN	Steel Creek
487	L Area Southern Groundwater, NBN	Steel Creek
495	Sandblast Area CML-001, NBN	Steel Creek
496	Sandblast Area CML-002, NBN	Steel Creek
509	Steel Creek Integrator Operable Unit	Steel Creek
515-1	Combined Spills from 105-P, 106-P, and 109-P, NBN	Steel Creek
515-2	Combined Spills from 105-P, 106-P, and 109-P, NBN	Steel Creek
518	Gun Emplacement 407A & 407B Rubble Pile, NBN	Steel Creek
535	ECODS L-1 (East of L Area)	Steel Creek
536-1	ECODS L-2 (East of L Area)	Steel Creek
536-2	ECODS L-2 (East of L Area)	Steel Creek
536-3	ECODS L-2 (East of L Area)	Steel Creek
537	ECODS L-3 (East of L Area)	Steel Creek
538-1	ECODS P-1 (South of P Area)	Steel Creek
538-2	ECODS P-1 (South of P Area)	Steel Creek
539-1	ECODS P-2 (South of P Area)	Steel Creek
539-2	ECODS P-2 (South of P Area)	Steel Creek
539-3	ECODS P-2 (South of P Area)	Steel Creek
539-4	ECODS P-2 (South of P Area)	Steel Creek
547	P Area Coal Pile	Steel Creek

TABLE 2b -- WASTE UNITS IN STEEL CREEK IOU (Sort by Unit_Name)

UNIT_ID	UNIT_NAME	IOU_NAME
515-1	Combined Spills from 105-P, 106-P, and 109-P, NBN	Steel Creek
515-2	Combined Spills from 105-P, 106-P, and 109-P, NBN	Steel Creek
535	ECODS L-1 (East of L Area)	Steel Creek
536-1	ECODS L-2 (East of L Area)	Steel Creek
536-2	ECODS L-2 (East of L Area)	Steel Creek
536-3	ECODS L-2 (East of L Area)	Steel Creek
537	ECODS L-3 (East of L Area)	Steel Creek
538-1	ECODS P-1 (South of P Area)	Steel Creek
538-2	ECODS P-1 (South of P Area)	Steel Creek
539-1	ECODS P-2 (South of P Area)	Steel Creek
539-2	ECODS P-2 (South of P Area)	Steel Creek
539-3	ECODS P-2 (South of P Area)	Steel Creek
539-4	ECODS P-2 (South of P Area)	Steel Creek
469-2	General Area, Other: Process and Sewer Lines as Abandoned, NBN	Steel Creek
471-2	General Area, Other: Process and Sewer Lines as Abandoned, NBN	Steel Creek
473-1	General Area, Other: Process and Sewer Lines as Abandoned, NBN	Steel Creek
473-2	General Area, Other: Process and Sewer Lines as Abandoned, NBN	Steel Creek
518	Gun Emplacement 407A & 407B Rubble Pile, NBN	Steel Creek
479	L Reactor Area: L Area Reactor Area Cask Car Railroad Tracks as Abandoned, NBN	Steel Creek
95	L Area Acid/Caustic Basin, 904-79G	Steel Creek
303	L Area Disassembly Basin, 105-L	Steel Creek
94	L Area Hot Shop (including Sandblast Area CML-003, NBN), 717-G	Steel Creek
96	L Area Oil/Chemical Basin, 904-83G	Steel Creek
305	L Area Reactor Cooling Water System, 186/190-L	Steel Creek
306	L Area Reactor Seepage Basin, 904-064G	Steel Creek
98	L Area Rubble Pit, 131-1L	Steel Creek
99	L Area Rubble Pit, 131-4L	Steel Creek
170	L Area Scrap Metal and Wood, NBN	Steel Creek
487	L Area Southern Groundwater, NBN	Steel Creek
171	Meyers Mill Siding Rubble Pile, NBN	Steel Creek
172	Miscellaneous Rubble at Dunbarton, NBN	Steel Creek
313-1	P Area Ash Basin, 188-0P	Steel Creek
313-2	P Area Ash Basin, 188-0P	Steel Creek
108	P Area Burning/Rubble Pit, 131-P	Steel Creek
547	P Area Coal Pile	Steel Creek
109	P Area Coal Pile Runoff Basin, 189-P	Steel Creek

TABLE 2b -- WASTE UNITS IN STEEL CREEK IOU (Sort by Unit_Name) (Continued)

UNIT_ID	UNIT_NAME	IOU_NAME
315	P Area Erosion Control Site, 131-1P	Steel Creek
143	P Area Reactor Groundwater	Steel Creek
317	P Area Reactor Seepage Basin, 904-061G	Steel Creek
318	P Area Reactor Seepage Basin, 904-062G	Steel Creek
319	P Area Reactor Seepage Basin, 904-063G	Steel Creek
176	Pile of Telephone/Light Poles, NBN	Steel Creek
323	Potential Release of NaOH/H2 SO4 from 183-2L, NBN	Steel Creek
334	Road 9 at Gate 23 Rubble Pile, NBN	Steel Creek
335	Road 9 Rubble Pile, NBN	Steel Creek
495	Sandblast Area CML-001, NBN	Steel Creek
496	Sandblast Area CML-002, NBN	Steel Creek
353	Sandblast Area CML-003, NBN	Steel Creek
358	Sandblast Area CMP-001, NBN	Steel Creek
356	Sandblast Area CMP-004, NBN	Steel Creek
192	Scrap Metal Pile, 631-18G	Steel Creek
362-2	Spill on 01/01/57 of <1 Ci of Beta - Gamma, NBN	Steel Creek
362-3	Spill on 01/01/57 of <1 Ci of Beta - Gamma, NBN	Steel Creek
126	Spill on 03/15/79 of 500 Gallons of Contaminated Water, NBN	Steel Creek
434	Spill on 05/09/85 of 375 Gal of Process Water from 106-P, NBN	Steel Creek
452	Spill on 09/21/84 of 200 Gal of Water -Rad, NBN	Steel Creek
453	Spill on 09/28/87 of <30 Gal of Bromocide Soln from 607-22P, NBN	Steel Creek
509	Steel Creek Integrator Operable Unit	Steel Creek

Steel Creek Integrator Operable Unit
Scoping Summary
Savannah River Site
