

Enclosure 2

Summary of Historical Waste Streams Contained in SRS's Site Treatment Plan (STP)

September 2019

The following is intended to provide a brief disposition summary of waste stream that are no longer updated in the STP. It is not intended to provide a comprehensive history of these waste streams. The September 2019 version is the initial issue. Updated versions will be provided with future Annual STP Updates.

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Waste Stream No.	Waste Stream Name	Path to Treatment/Elimination
SR-W002	Rad-Contaminated Chlorofluorocarbons	Consolidated with SR-W001
SR-W003	Solvent Contaminated Debris (LLW)	Consolidated with SR-W062
SR-W004	M-Area Plating Line Sludge from Supernate Treatment	Consolidated with SR-W037
SR-W005	Mark 15 Filtercake	Waste Stream Treated and Eliminated – Stabilization by Vitrification – M-Area Vendor Treatment Facility completed 2/22/1999. M-Area Vendor Treatment Facility underwent closure per Clean Water Act.
SR-W006	CH Mixed TRU/Liquids	Waste Stream Recharacterized – The waste (approximately 10 pounds) was contained within a Satellite Accumulation Area (SAA). During lab renovations at SRNL, the SAA had to be relocated. At this time, the waste was recharacterized and determined to no longer be TRU waste. The decision was made to remove the waste from the STP because 1) the waste has a path for disposal, 2) the waste is being managed in an SAA until sufficient quantity is generated to “facilitate proper recovery, treatment, or disposal in accordance with SCHWMR R.61-79.268.50.” This revision was noted during the 2016 update cycle.

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Waste Stream No.	Waste Stream Name	Path to Treatment/Elimination
SR-W007	SRNL Sample Material	Waste Stream Eliminated – This waste stream consisted of Low Activity waste generated in Building 773-A of SRNL (formerly the Savannah River Technology Center SRTC) that was discharged to the Mixed Waste Storage Tanks. The waste was slightly acidic and may have contained RCRA constituents. The waste was rendered non-hazardous and managed in a CWA facility. In the 2004 STP Update the waste stream was eliminated based upon a discussion with DHEC to eliminate the SRNL tanks from RCRA storage. Refer to SRNL Tanks Consent Agreement (07-11-HW).
SR-W008	Separations Area Sample Receipts from SRNL	Consolidated with SR-W017
SR-W010	Scintillation Solution	Consolidated with SR-W001
SR-W011	Cadmium-Coated HEPA Filters	Recycled under Scrap Metal Exclusion – Vendor removed any remaining filter media from the frames. Filter frames were cleaned and melted for recycle. The vendor retained scrap metal for future reuse. Compacted filter media was returned to SRS as non-hazardous, low-level radioactive waste for disposition at SRS. (Completed prior to 2000 Scrap Metal Moratorium)
SR-W012	Toxic Characteristic Solids	Consolidated with SR-W062 & SR-W088
SR-W013	LLW Lead – To Be Decontaminated Onsite	Reclassified as Material In Use and Waste Stream Eliminated – Waste stream treatment was completed on 01/31/2002, at which time the waste stream was eliminated because no deconnable waste lead remained in RCRA storage.
SR-W019	244-H RBOF High Activity Liquid Waste	Consolidated with SR-W017

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Waste Stream No.	Waste Stream Name	Path to Treatment/Elimination
SR-W021	Poisoned Catalyst Material	Waste Stream Eliminated – Waste Stream eliminated between PSTP and 1996 STP because the waste was not generated or was recharacterized and managed in compliance with RCRA regulations so that it no longer needed to be covered in the STP.
SR-W022	DWPF Benzene	Waste Stream Eliminated – Although forecasted for future years, no STP Update between 1996 and 2002 reported waste inventoried for this waste stream. In the 2004, the waste stream was eliminated from the STP.
SR-W024	Tritium Gold Traps	Waste Stream Treated and Eliminated – This waste stream was shipped offsite in April 2018 and March 2019.
SR-W025	Solvent/TRU Job Control Waste <100 nCi/g	Consolidated with SR-W091
SR-W026	CH Mixed TRU/Thirds	Consolidated with SR-W027
SR-W028	Mark 15 Filter Paper	Waste Stream Treated and Eliminated – This waste stream was treated between the issuance of the 1998 and 1999 STP Annual Updates. Because it was a one-time waste generated in M-Area, the waste stream status was updated to ‘Waste Stream Treated <i>and Eliminated</i> ’ in the 2016 STP Update.
SR-W029	M-Area Sludge Treatability Samples	Waste Stream Treated and Eliminated – Stabilization by Vitrification – M-Area Vendor Treatment Facility completed 2/22/1999. M-Area Vendor Treatment Facility underwent closure per Clean Water Act.
SR-W030	Spent Methanol Solution	Consolidated with SR-W001

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Waste Stream No.	Waste Stream Name	Path to Treatment/Elimination
SR-W031	Uranium/Chromium Solution	Waste Stream Treated and Eliminated – Stabilization by Vitrification – M-Area Vendor Treatment Facility completed 2/22/1999. M-Area Vendor Treatment Facility underwent closure per Clean Water Act.
SR-W032A	Mercury-Contaminated Heavy Water	Waste Stream Treated and Eliminated – Waste stream was generated in the D Area Heavy Water Operations laboratory during analytical testing using mercuric chloride. The Flush waster from this analysis was collected and managed as hazardous waste. A change in the analysis procedures resulted in the waste stream no longer being generated. Treatment via recycling in the D-Area Heavy Water Facility was completed 9/25/1997. The facility closed 9/30/1999.
SR-W032B	Mercury-Contaminated Heavy Water Residues	Waste Stream Treated and Eliminated –Waste stream consisted of residues from the treatment of SR-W032A. Treated (solidification) to meet LDR treatment standards as a 90-day generator.
SR-W033	Thirds/TRU Job Control Waste <100 nCi/g	Consolidated with SR-W091
SR-W034	Calcium Metal	Consolidated with SR-W081
SR-W035	Mixed Waste Oil – Sitewide	Consolidated with SR-W001
SR-W037	M-Area Plating Line Sludge	Waste Stream Treated and Eliminated – Stabilization by Vitrification – M-Area Vendor Treatment Facility completed 2/22/1999. M-Area Vendor Treatment Facility underwent closure per Clean Water Act.

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Waste Stream No.	Waste Stream Name	Path to Treatment/Elimination
SR-W038	Plating Line Sump Material	Waste Stream Treated and Eliminated – Stabilization by Vitrification – M-Area Vendor Treatment Facility completed 2/22/1999. M-Area Vendor Treatment Facility underwent closure per Clean Water Act.
SR-W039	Nickel Plating Line Solution	Waste Stream Treated and Eliminated – Stabilization by Vitrification – M-Area Vendor Treatment Facility completed 2/22/1999. M-Area Vendor Treatment Facility underwent closure per Clean Water Act.
SR-W041	Aqueous Mercury and Lead	Waste Stream Treated and Eliminated – Waste stream is treated at SRS’s Effluent Treatment Facility (ETF). If additional waste is generated, it will be managed in compliance with RCRA regulations so that it no longer needs to be covered in the STP.
SR-W042	Paints and Thinners	Consolidated with SR-W001
SR-W043	Lab Waste w/Tetraphenyl Borate	Consolidated with SR-W012
SR-W044	Tri-Butyl-Phosphate & n-Paraffin – TRU	Consolidated with SR-W045
SR-W045	PUREX Organic Waste	Waste Stream Treated and Eliminated – This waste stream was stored in the RCRA-permitted Solvent Storage Tanks (SST) S33 - S36 Facility. Shipments of the treated organic PUREX to NNSS were completed on September 10, 2009. A small heel was anticipated to be present in the SSTs, which accounted for the 0.7m ³ volume reported in the 2016 Update. During the RCRA closure process for the SST Facility, it was revealed that no PUREX waste remained in the tanks.

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Waste Stream No.	Waste Stream Name	Path to Treatment/Elimination
SR-W045A	PUREX Aqueous Waste	Waste Stream Eliminated – In 2003, the waste stream (stored in tanks S33 and S35) was recharacterized as non-hazardous and eliminated from future STP Updates.
SR-W045B	PUREX Organic Waste	Renamed SR-W045 PUREX Waste.
SR-W046	Consolidated Incineration Facility Ash	Waste Stream Treated and Eliminated – Waste stream stabilized in the CIF Ashcrete/Blowcrete unit between the 1998 and 1999 STP Updates. The waste stream was no longer generated after CIF operations were suspended.
SR-W047	Consolidated Incineration Facility Blowdown	Waste Stream Treated and Eliminated – Waste stream treated at SRS's Effluent Treatment Facility (ETF) in 2000. The waste stream was no longer generated after CIF operations were suspended.
SR-W049	Tank E-3-1 Clean Out Material	Waste Stream Treated and Eliminated – Waste stream stabilized in the CIF Vendor Stabilization Facility 11/04/1998.
SR-W051	Spent Filter Cartridges and Carbon Filter Media	Consolidated with SR-W062
SR-W052	Cadmium Contaminated Glovebox Section	Waste Stream Eliminated – Waste stream eliminated between PSTP and 1996 STP because the waste was not generated or was recharacterized and managed in compliance with RCRA regulations eliminating the need for its inclusion in the STP.
SR-W053	Rocky Flats Ash	Waste Stream Treated and Eliminated – Waste characterized at SRS and shipped to WIPP.
SR-W054	Enriched Uranium Contaminated with Lead	Consolidated with SR-W037
SR-W055	Job Control Waste Containing Solvent Contaminated Wipes	Waste Stream Treated and Eliminated – Treatment completed by offsite vendor in 2009. Procedures modified to prevent mixture of solvent wipes with job control waste in future activities.

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Waste Stream No.	Waste Stream Name	Path to Treatment/Elimination
SR-W056	Job Control Waste with Enriched Uranium and Solvent Contaminated Wipes	Waste Stream Eliminated – Further characterization determined waste to be non-hazardous. DHEC approved removal of hazardous waste labels via correspondence 8/23/95 and 11/28/95.
SR-W057	D-Tested Neutron Generators	Waste Stream Eliminated – Waste Stream eliminated between PSTP and 1996 STP because the waste was not generated or was recharacterized and managed in compliance with RCRA regulations eliminating the need for its inclusion in the STP.
SR-W058	Mixed Sludge Waste with Mercury from DWPF Treatability Studies	Consolidated with SR-W050
SR-W059	Tetrabutyl Titanate (TBT)	Consolidated with SR-W001
SR-W060	Tritiated Water with Mercury	Waste Stream Treated and Eliminated – Treatability Variance submitted 9/18/97. Macroencapsulated onsite for storage, removed from welded steel container, and sent to vendor for treatment by stabilization on September 2, 2009.
SR-W061	DWPF Mercury	Consolidated with SR-W068
SR-W063	Macroencapsulated Low-Level Waste (TC)	Consolidated with SR-W040
SR-W064	IDW and Remediation Soils/Sludges/Slurries	Consolidated with SR-W088
SR-W065	IDW Monitoring Well Purge/Development Water	Consolidated with SR-W071 & SR-W077
SR-W066	IDW and Remediation Debris (Parts)	Consolidated with SR-W062
SR-W067	IDW and Remediation PPE Waste	Consolidated with SR-W062
SR-W068	Elemental (Liquid) Mercury – Sitewide	Consolidated with SR-W014
SR-W070	Mixed Waste from Laboratory Samples	Consolidated aqueous portion of waste stream with SR-W071 or SR-W077 and organic portion with SR-W001
SR-W073	Cadmium-Containing Raschig Rings	Waste Stream Treated and Eliminated – Macroencapsulation onsite and sent to offsite vendor in 2007.
SR-W074	In 1995, DOE expanded the use of the complex-wide database used to maintain mixed waste inventory data and included non-mixed TRU waste streams. This	
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Waste Stream No.	Waste Stream Name	Path to Treatment/Elimination
SR-W076	practice was discontinued after 1996. These waste streams were not included in the STP; however, they are addressed here to prevent a gap in the numerical sequence of waste streams.	
SR-W078	LDR Hazardous Waste Awaiting Radiological Screening	Waste Stream Eliminated – Waste stream re-characterization completed 07/08/2002. Waste was radiologically characterized and added to existing waste streams.
SR-W080	Charleston Naval Shipyard (CN-W001, CN-W004)	Waste Stream Treated and Eliminated – Waste stream shipped offsite to commercial vendor for treatment (thermal treatment, macroencapsulation, or stabilization) in 2004.
SR-W082	Radioactive CMP Soil	Waste Stream Treated and Eliminated – Stabilization by Vitrification – M-Area Vendor Treatment Facility completed 2/24/1999. M-Area Vendor Treatment Facility underwent closure per Clean Water Act.
SR-W083	Mercury- and Chromium-Contaminated Residues	Waste Stream Eliminated – Waste stream was recharacterized in 2000 and determined to be non-hazardous.
SR-W084	Remediation Waste Soils that Meet LDR	Consolidated with SR-W040
SR-W085	Rocky Flats Plutonium Fluoride Residues	Waste Stream Eliminated – Waste not received at SRS. Waste was sent directly to WIPP from Rocky Flats.
SR-W087	Bettis Atomic Power Laboratory Contaminated Oil (BT-W035, part of BT-W003)	Waste Stream Treated and Eliminated – Thermal Treatment or Stabilization at Commercial Facility completed in approximately 2006-2007.

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