



**Department of Energy**  
 Carlsbad Field Office  
 P. O. Box 3090  
 Carlsbad, New Mexico 88221



**ENTERED**



AUG - 3 2012

Mr. John E. Kieling, Chief  
 Hazardous Waste Bureau  
 New Mexico Environment Department  
 2905 Rodeo Park Drive East, Building 1  
 Santa Fe, New Mexico 87505-6303

**Subject:** Review of Savannah River Site-Central Characterization Project Waste Stream Profile Form Number SR-SWMF-HET-A, Revision 1

Dear Mr. Kieling:

The Department of Energy, Carlsbad Field Office has approved the Waste Stream Profile Form (WSPF) Number SR-SWMF-HET-A, Revision 1, *Contaminated Debris from the Solid Waste Management Facility*, for the Central Characterization Project at the Savannah River Site.

The WSPF was originally approved on April 3, 2008. This WSPF was revised in accordance with criteria developed to comply with the Permit Attachment C, Section C-1d1. Waste Stream SR-SWMF-HET-A was prepared to make updates to Revision 0. TRUPACT-II and TRUPACT-III Content Code Numbers SR 425 and SQ 154 were added to Waste Stream SR-SWMF-HET-A, Revision 1. The hazardous waste number assignment was not changed.

Enclosed is a copy of the WSPF as required by Section C-5a of the Waste Isolation Pilot Plant, Hazardous Waste Facility Permit, No. NM4890139088-TSDF.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision according to a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have questions, please contact Mr. J. R. Stroble, Director of the Office of the National TRU Program, at (575) 234-7313.

Sincerely,

  
 Jose R. Franco, Manager  
 Carlsbad Field Office

Enclosure

cc: w/enclosure  
 S. Holmes, NMED \*ED  
 T. Kliphuis, NMED ED  
 RCRA Chronology Record ED  
 WIPP Operating Record ED  
 CBFO M&RC

\*ED denotes electronic distribution

120803



**CCP-TP-002, Rev. 24**  
**CCP Reconciliation of DQOs and**  
**Reporting Characterization Data**

Effective Date: 12/28/2011

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## Attachment 2 – CCP Waste Stream Profile Form

<b>(1) Waste Stream Profile Number:</b> SR-SWMF-HET-A, Rev. 1		
(2) Generator site name: Savannah River Site	(3) Generator site EPA ID: SC1890008989	
(4) Technical contact: Beverly Schrock	(5) Technical contact phone number: 575-234-7444	
(6) Date of audit report approval by New Mexico Environment Department (NMED): May 23, 2012		
(7) Title, version number, and date of documents used for WIPP-WAP Certification: CCP-PO-001, CCP Transuranic Waste Characterization Quality Assurance Project Plan, Revision 20, June 16, 2011; CCP-PO-002, CCP Transuranic Waste Certification Plan, Revision 26, July 14, 2011; CCP-PO-004, CCP/SRS Interface Document, Revision 30, October 17, 2011		
(8) Did your facility generate this waste? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		
(9) If no, provide the name and EPA ID of the original generator: NA		
<b>Waste Stream Information</b>		
(10) WIPP ID: SR-SWMF-HET-A	(11) Summary Category Group: S5000	
(12) Waste Matrix Code Group: Heterogeneous Debris Waste	(13) Waste Stream Name: Contaminated Debris from the Solid Waste Management Facility	
(14) Description from the ATWIR: CH Mixed TRU waste resulting from remediation and re-packaging of Mixed "defense related" TRU waste.		
(15) Defense TRU Waste: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>		
(16) Check One: CH <input checked="" type="checkbox"/> RH <input type="checkbox"/>		
(17) Number of SWBs: 59	(18) Number of Drums: 667 55-gallon drums	(19) Number of Canisters: NA
(17a) Number of SLB2: 1		
(20) Batch Data Report numbers supporting this waste stream characterization: See Characterization Information Summary (CIS) Correlation of Container Identification Numbers to Batch Data Report Numbers		
(21) List applicable EPA Hazardous Waste Numbers: <sup>1</sup> D008, F001, F002, F004, F005, F007, F009, U133 and U151		
(22) Applicable TRUCON Content Numbers: SR 125 / 225, SQ 154, SR 425		
<b>(23) Acceptable Knowledge Information</b>		
<b>(For the following, enter the supporting documentation used [i.e., references and dates])</b>		
<b>Required Program Information</b>		
(23A) Map of site: CCP-AK-SRS-12, Revision 5, March 12, 2012, Figures 1 and 2.		
(23B) Facility mission description: CCP-AK-SRS-12, Revision 5, March 12, 2012, Section 4.1.		
(23C) Description of operations that generate waste: CCP-AK-SRS-12, Revision 5, March 12, 2012, Section 4.3.		
(23D) Waste identification/categorization schemes: CCP-AK-SRS-12, Revision 5, March 12, 2012, Section 4.5.		
(23E) Types and quantities of waste generated: CCP-AK-SRS-12, Revision 5, March 12, 2012, Section 4.7.		
(23F) Correlation of waste streams generated from the same building and process, as applicable: CCP-AK-SRS-12, Revision 5, March 12, 2012, Section 4.6.1.		
(24) Waste certification procedures: CCP-TP-030, Revision 30, May 21, 2012		
(25) Required Waste Stream Information		

**CCP-TP-002, Rev. 24**  
**CCP Reconciliation of DQOs and**  
**Reporting Characterization Data**

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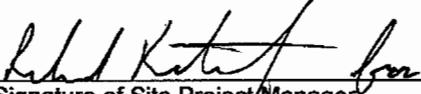
(25A) Area(s) and building(s) from which the waste stream was generated: CCP-AK-SRS-12, Revision 5, March 12, 2012, Section 5.1.	
(25B) Waste stream volume and time period of generation: CCP-AK-SRS-12, Revision 5, March 12, 2012, Section 5.2.	
(25C) Waste generating process description for each building: CCP-AK-SRS-12, Revision 5, March 12, 2012, Section 5.3.	
(25D) Waste Process flow diagrams: NA	
(25E) Material inputs or other information identifying chemical/radionuclide content and physical waste form: CCP-AK-SRS-12, Revision 5, March 12, 2012, Section 5.4.	
(25F) Waste Material Parameter Weight Estimates per unit of waste: See Table entitled "Waste Stream SR-SWMF-HET-A Waste Material Parameters" in Summation of Aspects of AK Summary Report: SR-SWMF-HET-A.	
(26) Which Defense Activity generated the waste:	
<input type="checkbox"/>	Weapons activities including defense inertial confinement fusion
<input type="checkbox"/>	Verification and control technology
<input checked="" type="checkbox"/>	Defense nuclear waste and material by products management
<input type="checkbox"/>	Defense nuclear waste and materials security and safeguards and security investigations
	Naval Reactors development
	Defense research and development
	Defense nuclear material production
(27)Supplemental Documentation:	
(27A) Process design documents: NA	
(27B) Standard operating procedures: See D003, D004, D005, P003, P004, P005, P006, P007, P008, P009, P010, P018, P019, P020, P021, P025, P026, P030, P031, P032, P033 and P034 in Summation of Aspects of AK Summary Report: Waste Stream SR-SWMF-HET-A, Source Documents	
(27C) Safety Analysis Reports: See D001, D002, D003, D004, D005 and D018 in Summation of Aspects of AK Summary Report: Waste Stream SR-SWMF-HET-A, Source Documents	
(27D) Waste packaging logs: NA	
(27E) Test plans/research project reports: NA	
(27F) Site databases: NA	
(27G) Information from site personnel: See C054 in Summation of Aspects of AK Summary Report: Waste Stream SR-SWMF-HET-A, Source Documents	
(27H) Standard industry documents: NA	
(27I) Previous analytical data: See C007 in Summation of Aspects of AK Summary Report: Waste Stream SR-SWMF-HET-A, Source Documents	
(27J) Material safety data sheets: See C006, M002 and P001 in Summation of Aspects of AK Summary Report: Waste Stream SR-SWMF-HET-A, Source Documents	
(27K) Sampling and analysis data from comparable/surrogate Waste: NA	
(27L) Laboratory notebooks: NA	
Confirmation Information	
For the following, when applicable, enter procedure title(s), number(s) and date(s)	
(28)	Radiography: CCP-TP-053, Revision 11, July 20, 2011
	Visual Examination: CCP-TP-113, Revision 16, April 25, 2011

(29) Comments: For a list of the waste characterization procedures used and date of respective procedures see the list of procedures on the attached CIS.

Reviewed by AK Expert: YES  Date: 6/20/2012  
Reviewed by STR (if necessary): YES  N/A  Date: 6/19/2012

**Waste Stream Profile Form Certification:**

I hereby certify that I have reviewed the information in this Waste Stream Profile Form, and it is complete and accurate to the best of my knowledge. I understand that this information will be made available to regulatory agencies and that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

  
Signature of Site Project Manager      Beverly Schrock      7/12/12  
Printed Name      Date

**NOTE:** (1) If, radiography, visual examination were used to confirm EPA Hazardous Waste Numbers, attach signed Characterization Information Summary documenting this determination Use back of sheet or continuation sheets, if required.

# CHARACTERIZATION INFORMATION SUMMARY

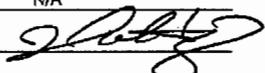
WSPF #: SR-SWMF-HET-A Rev. 1

Lot #: 37

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CCP Characterization Information Summary Cover Page

Waste Stream # SR-SWMF-HET-A Lot #: 37  
 AK Expert Review: N/A Date: N/A  
 SPM Review: Joshua Houghton  Date: 7/23/2012

SPM signature certifies that through Acceptable Knowledge testing and/or analysis that the waste identified in this summary is not corrosive, ignitable, reactive, or incompatible with the TSDF.

A summary of the Acceptable Knowledge regarding this waste stream containing specific information about the corrosivity, reactivity, and ignitability of the waste stream is included as an attachment to the Waste Stream Profile Form. By reference, that information is included in this lot.

**List of procedures used:**

**Radiography (RTR/NDE):**

CCP-TP-011	Rev. 15	03/08/04	CCP Radiography Inspection Operating Procedures
CCP-TP-011	Rev. 16	05/02/05	CCP Radiography Inspection Operating Procedures
CCP-TP-011	Rev. 17	11/16/06	CCP Radiography Inspection Operating Procedures
CCP-TP-053	Rev. 7	10/21/09	CCP Standard Real-Time Radiography (RTR) Inspection Procedure
CCP-TP-053	Rev. 8	06/29/10	CCP Standard Real-Time Radiography (RTR) Inspection Procedure
CCP-TP-053	Rev. 9	09/30/10	CCP Standard Real-Time Radiography (RTR) Inspection Procedure
CCP-TP-053	Rev. 10	03/04/11	CCP Standard Real-Time Radiography (RTR) Inspection Procedure
CCP-TP-053	Rev. 11	07/20/11	CCP Standard Real-Time Radiography (RTR) Inspection Procedure
CCP-TP-136	Rev. 0	09/20/04	CCP Standardized Prohibited Item Remediation
CCP-TP-136	Rev. 1	01/13/05	CCP Standardized Prohibited Item Remediation
CCP-TP-136	Rev. 2	05/04/07	CCP Standardized Prohibited Item Remediation

**Headspace Gas Sampling and Analysis (HSG):**

CCP-TP-007	Rev. 19	03/01/04	CCP Single Sample Manifold Headspace Gas Sampling and Analysis Procedure
CCP-TP-007	Rev. 20	10/19/04	CCP Single Sample Manifold Headspace Gas Sampling and Analysis Procedure
CCP-TP-007	Rev. 21	03/11/05	CCP Single Sample Manifold Headspace Gas Sampling and Analysis Procedure
CCP-TP-007	Rev. 22	11/16/06	CCP Single Sample Manifold Headspace Gas Sampling and Analysis Procedure
CCP-TP-009	Rev. 13	10/31/03	CCP Single Sample Manifold Data Handling Procedure
CCP-TP-009	Rev. 14	10/21/04	CCP Single Sample Manifold Data Handling Procedure
CCP-TP-009	Rev. 15	11/16/06	CCP Single Sample Manifold Data Handling Procedure
CCP-TP-029	Rev. 13	06/22/04	CCP Single Sample Manifold Headspace Gas Sampling and Analysis Methods and Equipment Calibration
CCP-TP-029	Rev. 14	10/21/04	CCP Single Sample Manifold Headspace Gas Sampling and Analysis Methods and Equipment Calibration
CCP-TP-029	Rev. 15	04/25/05	CCP Single Sample Manifold Headspace Gas Sampling and Analysis Methods and Equipment Calibration
CCP-TP-029	Rev. 16	11/16/06	CCP Single Sample Manifold Headspace Gas Sampling and Analysis Methods and Equipment Calibration
CCP-TP-032	Rev. 11	12/03/03	CCP Single Sample Manifold Data Validation Procedure
CCP-TP-032	Rev. 12	05/23/06	CCP Single Sample Manifold Data Validation Procedure
CCP-TP-032	Rev. 13	05/25/06	CCP Single Sample Manifold Data Validation Procedure
CCP-TP-032	Rev. 14	11/16/06	CCP Single Sample Manifold Data Validation Procedure
CCP-TP-093	Rev. 0	10/02/03	CCP Sampling of TRU Waste Containers
CCP-TP-093	Rev. 1	12/05/03	CCP Sampling of TRU Waste Containers
CCP-TP-093	Rev. 2	03/19/04	CCP Sampling of TRU Waste Containers
CCP-TP-093	Rev. 3	02/26/05	CCP Sampling of TRU Waste Containers
CCP-TP-093	Rev. 4	03/11/05	CCP Sampling of TRU Waste Containers
CCP-TP-093	Rev. 5	03/22/05	CCP Sampling of TRU Waste Containers
CCP-TP-093	Rev. 6	04/15/05	CCP Sampling of TRU Waste Containers
CCP-TP-093	Rev. 7	06/29/05	CCP Sampling of TRU Waste Containers
CCP-TP-093	Rev. 8	12/22/05	CCP Sampling of TRU Waste Containers
CCP-TP-093	Rev. 9	09/21/06	CCP Sampling of TRU Waste Containers
CCP-TP-093	Rev. 10	09/11/06	CCP Sampling of TRU Waste Containers
CCP-TP-093	Rev. 11	11/16/06	CCP Sampling of TRU Waste Containers
CCP-TP-093	Rev. 12	02/12/07	CCP Sampling of TRU Waste Containers
CCP-TP-093	Rev. 13	03/19/07	CCP Sampling of TRU Waste Containers
CCP-TP-093	Rev. 14	12/29/10	CCP Sampling of TRU Waste Containers
CCP-TP-093	Rev. 15	03/10/11	CCP Sampling of TRU Waste Containers
CCP-TP-093	Rev. 16	09/07/11	CCP Sampling of TRU Waste Containers
CCP-TP-106	Rev. 0	12/08/03	CCP Headspace Gas Sampling Batch Data Report Preparation
CCP-TP-106	Rev. 1	03/31/04	CCP Headspace Gas Sampling Batch Data Report Preparation
CCP-TP-106	Rev. 2	03/03/05	CCP Headspace Gas Sampling Batch Data Report Preparation
CCP-TP-106	Rev. 3	04/15/05	CCP Headspace Gas Sampling Batch Data Report Preparation
CCP-TP-106	Rev. 4	08/21/06	CCP Headspace Gas Sampling Batch Data Report Preparation
CCP-TP-106	Rev. 5	11/16/06	CCP Headspace Gas Sampling Batch Data Report Preparation
CCP-TP-106	Rev. 6	07/12/07	CCP Headspace Gas Sampling Batch Data Report Preparation
CCP-TP-106	Rev. 7	12/29/10	CCP Headspace Gas Sampling Batch Data Report Preparation
CCP-TP-175	Rev. 0	05/12/07	CCP Analysis of Gas Samples for VOCs by GC/MS
CCP-TP-175	Rev. 1	03/29/10	CCP Analysis of Gas Samples for VOCs by GC/MS
CCP-TP-175	Rev. 2	12/29/10	CCP Analysis of Gas Samples for VOCs by GC/MS
CCP-TP-175	Rev. 3	08/02/11	CCP Analysis of Gas Samples for VOCs by GC/MS

**Visual Examination (VE):**

CCP-TP-113	Rev. 10	07/09/08	CCP Standard Waste Visual Examination
CCP-TP-113	Rev. 11	11/12/08	CCP Standard Waste Visual Examination
CCP-TP-113	Rev. 12	12/01/08	CCP Standard Waste Visual Examination
CCP-TP-113	Rev. 13	03/11/09	CCP Standard Waste Visual Examination
CCP-TP-113	Rev. 14	08/29/10	CCP Standard Waste Visual Examination

## CCP Characterization Information Summary Cover Page

CCP-TP-113	Rev. 15	12/29/10	CCP Standard Waste Visual Examination
CCP-TP-113	Rev. 18	04/25/11	CCP Standard Waste Visual Examination
CCP-TP-085	Rev. 0	08/13/03	CCP TRU Visual Examination Facility Operations
CCP-TP-085	Rev. 1	10/17/03	CCP TRU Visual Examination Facility Operations
CCP-TP-087	Rev. 0	07/15/03	CCP Scale Operations
CCP-TP-087	Rev. 1	12/14/05	CCP Scale Operations
CCP-TP-087	Rev. 2	05/02/06	CCP Scale Operations
CCP-TP-087	Rev. 3	06/19/06	CCP Scale Operations
CCP-TP-087	Rev. 4	11/16/06	CCP Scale Operations
CCP-TP-087	Rev. 5	03/13/07	CCP Scale Operations
CCP-TP-088	Rev. 0	07/16/03	CCP Program Data Generation Level Review for VE
CCP-TP-088	Rev. 1	10/20/03	CCP Program Data Generation Level Review for VE

### Project Level Data Validation / DQO Reconciliation:

CCP-TP-001	Rev. 15	11/22/06	CCP Project Level Data Validation and Verification
CCP-TP-001	Rev. 16	04/26/07	CCP Project Level Data Validation and Verification
CCP-TP-001	Rev. 17	09/24/07	CCP Project Level Data Validation and Verification
CCP-TP-001	Rev. 18	08/09/10	CCP Project Level Data Validation and Verification
CCP-TP-001	Rev. 19	12/29/10	CCP Project Level Data Validation and Verification
CCP-TP-002	Rev. 19	12/22/06	CCP Reconciliation of DQOs and Reporting Characterization Data
CCP-TP-002	Rev. 20	08/18/08	CCP Reconciliation of DQOs and Reporting Characterization Data
CCP-TP-002	Rev. 21	08/04/09	CCP Reconciliation of DQOs and Reporting Characterization Data
CCP-TP-002	Rev. 22	06/25/10	CCP Reconciliation of DQOs and Reporting Characterization Data
CCP-TP-002	Rev. 23	12/29/10	CCP Reconciliation of DQOs and Reporting Characterization Data
CCP-TP-002	Rev. 24	12/28/11	CCP Reconciliation of DQOs and Reporting Characterization Data
CCP-TP-003	Rev. 15	11/16/06	CCP Data Analysis for S3000, S4000, and S5000 Characterization
CCP-TP-003	Rev. 16	10/02/07	CCP Data Analysis for S3000, S4000, and S5000 Characterization
CCP-TP-003	Rev. 17	11/09/09	CCP Data Analysis for S3000, S4000, and S5000 Characterization
CCP-TP-003	Rev. 18	12/29/10	CCP Data Analysis for S3000, S4000, and S5000 Characterization
CCP-TP-005	Rev. 19	07/06/10	CCP Acceptable Knowledge Documentation
CCP-TP-005	Rev. 20	11/01/10	CCP Acceptable Knowledge Documentation
CCP-TP-005	Rev. 21	12/29/10	CCP Acceptable Knowledge Documentation
CCP-TP-005	Rev. 22	04/21/11	CCP Acceptable Knowledge Documentation
CCP-TP-005	Rev. 23	06/30/11	CCP Acceptable Knowledge Documentation
CCP-TP-005	Rev. 24	11/29/11	CCP Acceptable Knowledge Documentation
CCP-TP-030	Rev. 23	03/12/08	CCP CH TRU Waste Certification and WWIS Data Entry
CCP-TP-030	Rev. 24	08/20/08	CCP CH TRU Waste Certification and WWIS Data Entry
CCP-TP-030	Rev. 25	01/22/09	CCP CH TRU Waste Certification and WWIS Data Entry
CCP-TP-030	Rev. 26	05/27/09	CCP CH TRU Waste Certification and WWIS Data Entry
CCP-TP-030	Rev. 27	12/14/09	CCP CH TRU Waste Certification and WWIS Data Entry
CCP-TP-030	Rev. 28	05/12/10	CCP CH TRU Waste Certification and WWIS Data Entry
CCP-TP-030	Rev. 29	04/26/11	CCP CH TRU Waste Certification and WWIS Data Entry
CCP-TP-030	Rev. 30	05/21/12	CCP CH TRU Waste Certification and WWIS Data Entry

### WAP Certification:

CCP-PO-001	Rev. 15	08/10/07	CCP Transuranic Waste Characterization Quality Assurance Project Plan
CCP-PO-001	Rev. 16	10/31/07	CCP Transuranic Waste Characterization Quality Assurance Project Plan
CCP-PO-001	Rev. 17	06/22/09	CCP Transuranic Waste Characterization Quality Assurance Project Plan
CCP-PO-001	Rev. 18	06/29/10	CCP Transuranic Waste Characterization Quality Assurance Project Plan
CCP-PO-001	Rev. 19	12/29/10	CCP Transuranic Waste Characterization Quality Assurance Project Plan
CCP-PO-001	Rev. 20	06/16/11	CCP Transuranic Waste Characterization Quality Assurance Project Plan
CCP-PO-002	Rev. 20	11/02/07	CCP Transuranic Waste Certification Plan
CCP-PO-002	Rev. 21	01/26/09	CCP Transuranic Waste Certification Plan
CCP-PO-002	Rev. 22	01/12/10	CCP Transuranic Waste Certification Plan
CCP-PO-002	Rev. 23	04/07/10	CCP Transuranic Waste Certification Plan
CCP-PO-002	Rev. 24	05/29/10	CCP Transuranic Waste Certification Plan
CCP-PO-002	Rev. 25	01/29/10	CCP Transuranic Waste Certification Plan
CCP-PO-002	Rev. 26	07/14/11	CCP Transuranic Waste Certification Plan
CCP-PO-004	Rev. 24	06/28/07	CCP/SRS Interface Document
CCP-PO-004	Rev. 25	05/20/08	CCP/SRS Interface Document
CCP-PO-004	Rev. 26	08/26/08	CCP/SRS Interface Document
CCP-PO-004	Rev. 27	05/22/09	CCP/SRS Interface Document
CCP-PO-004	Rev. 28	12/29/10	CCP/SRS Interface Document
CCP-PO-004	Rev. 29	07/05/11	CCP/SRS Interface Document
CCP-PO-004	Rev. 30	10/17/11	CCP/SRS Interface Document

**CCP Correlation of Container Identification  
Numbers to Batch Data Report Numbers**

CCP-TP-002 Rev. 24  
Effective Date: 12/28/2011  
CCP Reporting of DQO's and  
Reporting Characterization Data

Waste Stream #

SR-SWMF-HET-A

Lot #

37

Container ID Number	NDA BDR	RTR BDR	VE BDR	Solids Sampling BDR	Solids Analytical BDR	Load Management/ Overpack Yes	Headspace Gas BDR		
							Sample	Analysis	
SWD031246*	SRNDA1410	SRSRTR0162	N/A	N/A	N/A		N/A <sup>1</sup>	121707B1	N/A
SWD031320*	SRNDA1610	N/A	SRVEMR0342	N/A	N/A		SRHSGS080005	ECL08019M	ECL08019G
SWD031331*	SRNDA1411	SRSRTR0166	N/A	N/A	N/A		N/A <sup>1</sup>	121707B1	
SWD031362*	SRNDA1409	SRSRTR0162	N/A	N/A	N/A		N/A <sup>1</sup>	121807A1	
SWD031407*	SRNDA1419	SRSRTR0174	N/A	N/A	N/A		N/A <sup>1</sup>	121707A1	
SWD031424*	SRNDA1414	SRSRTR0168	N/A	N/A	N/A		N/A <sup>1</sup>	121807B1	
SWD031461*	SRNDA1410	SRSRTR0161	N/A	N/A	N/A		N/A <sup>1</sup>	121707B1	
SWD031767*	SRNDA1570	SRSRTR0264	N/A	006	N/A		SRHSGS080003	ECL08020M	ECL08020G
SWD031819A*	SRNDA1644	N/A	SRVEFT0141	N/A	N/A		SRHSGS080003	ECL08020M	ECL08020G
SWD031908A*	SRNDA1633	N/A	SRVEFT0142	008	N/A		SRHSGS090001	ECL09019M	ECL09019G
SWD031909	SRLBC0706	SRSRTR0576	N/A	N/A	N/A		N/A	N/A	N/A
SWD041040*	SRNDA1722	N/A	SRVEFT0144	009	N/A		SRHSGS080003	ECL08020M	ECL08020G
SWD041079A*	SRNDA1652	N/A	SRVEFW0289	N/A	N/A		SRHSGS090003	ECL09021M	ECL09021G
SWD041266*	SRNDA1540	SRSRTR0232	N/A	010	N/A		SRHSGS080003	ECL08020M	ECL08020G
SWD041279*	SRNDA1630	N/A	SRVEFT0162	N/A	N/A		SRHSGS080005	ECL08019M	ECL08019G
SWD041344*	SRNDA1410	SRSRTR0162	N/A	N/A	N/A		N/A <sup>1</sup>	121707B1	
SWD041380A*	SRNDA1570	SRSRTR0264	N/A	N/A	N/A		SRHSGS080005	ECL08019M	ECL08019G
SWD051078*	SRNDA1630	N/A	SRVEMR0324	N/A	N/A		SRHSGS080005	ECL08019M	ECL08019G
SWD051127*	SRNDA1499	SRSRTR0210	N/A	N/A	N/A		SRHSGS080005	ECL08019M	ECL08019G
SWD051360*	SRNDA1562	SRSRTR0255	N/A	N/A	N/A		SRHSGS080005	ECL08019M	ECL08019G
SWD061028*	SRNDA1414	SRSRTR0168	N/A	N/A	N/A		N/A <sup>1</sup>	121707B1	N/A
SWD061031*	SRNDA1414	SRSRTR0168	N/A	N/A	N/A		N/A <sup>1</sup>	121707B1	N/A
SWD061383*	SRNDA1415	SRSRTR0168	N/A	N/A	N/A		N/A <sup>1</sup>	121707A1	N/A
SWD061838*	SRNDA1536	SRSRTR0232	N/A	N/A	N/A		SRHSGS080003	ECL08020M	ECL08020G
SWD061855*	SRNDA1694	SRSRTR0328	N/A	N/A	N/A		SRHSGS090002	ECL09020M	ECL09020G
SWD061858*	SRNDA1712	SRSRTR0317	N/A	N/A	N/A		SRHSGS090001	ECL09019M	ECL09019G
SWD061957*	SRNDA1699	SRSRTR0328	N/A	N/A	N/A		SRHSGS090002	ECL09020M	ECL09020G
SWD061971*	SRNDA1536	SRSRTR0232	N/A	N/A	N/A		SRHSGS080003	ECL08020M	ECL08020G
SWD071131*	SRNDA1672	SRSRTR0317	N/A	N/A	N/A		SRHSGS090001	ECL09019M	ECL09019G
SWD071132*	SRSGS271	SRSRTR0317	N/A	N/A	N/A		SRHSGS090001	ECL09019M	ECL09019G
SWD071568*	SRNDA1700	SRSRTR0323	N/A	N/A	N/A		SRHSGS090002	ECL09020M	ECL09020G
SWD081241*	SRLBC0501	SR4RTR0201	N/A	N/A	N/A		SRHSG1107	ECL12001M	N/A

**CCP Correlation of Container Identification  
Numbers to Batch Data Report Numbers**

CCP-TP-002 Rev. 24  
Effective Date: 12/28/2011  
CCP Reporting of DQO's and  
Reporting Characterization Data

Waste Stream # SR-SWMF-HET-A

Lot # 37

					Solids Analytical	Load Management/ Overpack	Headspace Gas BDR		
SWD081262*	SRLBC0502	SR4RTR0201	N/A	N/A	N/A		SRHSG1107	ECL12001M	N/A
SWD091053*	SRLBC0473	SRSRTR0488	N/A	N/A	N/A		SRHSG1202	ECL12004M	N/A
SWD091054*	SRLBC0474	SRSRTR0489	N/A	N/A	N/A		SRHSG1202	ECL12004M	N/A
SWD091059*	SRLBC0473	SRSRTR0488	N/A	N/A	N/A		SRHSG1201	ECL12003M	N/A
SWD101020*	SRLBC0462	SR4RTR0193	N/A	N/A	N/A		SRHSG1107	ECL12001M	N/A
SWD101021*	SRLBC0466	SR4RTR0194	N/A	N/A	N/A		SRHSG1206	ECL12010M	N/A
SWD10413*	SRLBC0465	SRSRTR0484	N/A	N/A	N/A		SRHSG1204	ECL12006M	N/A
SWD11310	SRLBC0702	SRSRTR0586	N/A	N/A	N/A		N/A	N/A	N/A
SWD11439	SRLBC0702	SRSRTR0586	N/A	N/A	N/A		N/A	N/A	N/A
WMAPSWB294*	SRLBC0249	SR4RTR0117	N/A	N/A	N/A		SRHSG1108	ECL12002M	N/A
WMAPSWB296*	SRLBC0249	SR4RTR0116	N/A	N/A	N/A		SRHSG1108	ECL12002M	N/A

\* Containers are not being certified in this lot, but are included for completeness.

<sup>1</sup> No sampling BDR is listed because the Agilent ON-Line GC/MS system was utilized and a sampling BDR is not generated.



Signature of Site Project Manager

Joshua Houghton

Printed Name

7/23/2012

Date

CCP Headspace Gas UCL<sub>90</sub> Evaluation Form

CCP Data Analysis for S3000, S4000, and S5000 Characterization

WSPF #: SR-SWMF-HET-A Rev. 1

Waste Stream Headspace Gas Lot 1 through 4  
 Number

ANALYTE	Transform Data Used (No, Data-Log, SQRT, other)	# Samples above MDL (1)	# Samples	Maximum (ppmv)	Mean (ppmv)	SD (ppmv)	UCL <sub>90</sub> (ppmv)	PRQL (ppmv)	Transformed PRQL (N/A or Value)	UCL <sub>90</sub> > PRQL Yes	EPA Code
Acetone	Log	26	40	5.60	1.31	2.19	1.76	100	4.61		
Benzene	Log	19	40	2.56	-0.64	2.05	-0.21	10	2.30		
Bromoform	Log	0	40	-0.03	-3.18	2.01	-2.77	10	2.30		
Butanol	Log	17	40	6.00	-0.60	2.41	-0.10	100	4.61		
Carbon Disulfide	Log	10	30	1.95	-2.12	1.54	-1.75	10	2.30		
Carbon Tetrachloride	Log	1	40	10.00	-2.39	2.40	-1.90	10	2.30		
Chlorobenzene	Log	3	40	0.68	-2.17	2.15	-1.73	10	2.30		
Chloroform	SQRT	2	40	1.01	0.44	0.32	0.51	10	3.16		
Chloromethane	Log	12	30	2.89	-1.22	1.76	-0.80	10	2.30		
Cyclohexane	Log	2	30	-0.60	-2.92	1.61	-2.54	10	2.30		
1,1-Dichloroethane	Log	0	40	0.92	-1.93	2.15	-1.48	10	2.30		
1,2-Dichloroethane	Log	1	40	0.94	-1.90	2.07	-1.47	10	2.30		
1,1-Dichloroethylene	Log	0	40	0.02	-2.20	1.79	-1.83	10	2.30		
cis-1,2-Dichloroethene	Log	0	40	0.10	-2.47	2.02	-2.05	10	2.30		
trans-1,2-Dichloroethene	Log	0	40	0.10	-2.37	1.93	-1.97	10	2.30		
1,2-Dichloropropane	Log	0	30	-0.73	-3.69	2.00	-3.21	10	2.30		
Ethyl benzene	Log	15	40	2.48	-1.53	2.57	-1.00	10	2.30		
Ethyl Ether	Log	0	40	0.38	-1.88	1.81	-1.51	10	2.30		
Methanol	SQRT	6	40	6.93	2.19	1.16	2.43	100	10		
Methyl Ethyl Ketone	Log	19	40	2.17	-0.37	2.15	0.07	100	4.61		
Methyl Isobutyl Ketone	Log	9	40	2.35	-1.24	2.54	-0.71	100	4.61		
Methylene Chloride	Log	1	40	0.29	-1.94	1.82	-1.57	10	2.30		
1,1,2,2-Tetrachloroethane	Log	1	40	1.03	-2.44	2.46	-1.94	10	2.30		
Tetrachloroethylene	Log	4	40	0.65	-2.39	2.41	-1.89	10	2.30		
Toluene	Log	33	40	5.01	1.69	2.52	2.21	10	2.30		
1,1,1-Trichloroethane	Log	6	40	4.70	-2.31	2.47	-1.81	10	2.30		
Trichloroethylene	Log	4	40	0.56	-2.38	2.31	-1.90	10	2.30		
Trichlorofluoromethane	Log	0	30	-0.51	-3.05	1.69	-2.65	10	2.30		

CCP Headspace Gas UCL<sub>90</sub> Evaluation Form

CCP Data Analysis for S3000, S4000, and S5000 Characterization

WSPF #: SR-SWMF-HET-A Rev. 1

Waste Stream Headspace Gas Lot 1 through 4  
 Number

ANALYTE	Transform Data Used (No, Data-Log, SQRT, other)	# Samples above MDL (1)	# Samples	Maximum (ppmv)	Mean (ppmv)	SD (ppmv)	UCL <sub>90</sub> (ppmv)	PRQL (ppmv)	Transformed PRQL (N/A or Value)	UCL <sub>90</sub> > PRQL Yes	EPA Code
1,1,2-Trichloro-1,2,2-trifluoroethane	Log	0	40	0.25	-2.58	2.24	-2.12	10	2.30		
1,3,5-Trimethylbenzene	Log	0	30	-0.51	-3.17	1.79	-2.74	10	2.30		
1,2,4-Trimethylbenzene	Log	6	30	-0.39	-2.83	1.71	-2.42	10	2.30		
m/p-Xylene	Log	20	40	3.56	-1.06	2.71	-0.50	10	2.30		
o-Xylene	Log	11	40	2.15	-1.65	2.57	-1.12	2	2.30		
Formaldehyde <sup>c</sup>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hydrazine <sup>d</sup>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

<sup>a</sup> These compounds are from CCP-PO-003, CCP Transuranic Authorized Methods for Payload Control (CCP CH-TRAMPAC) and are flammable VOCs that do not appear in CCP-PO-001. These are not part of the target analyte list, but samples may be analyzed for these compounds.

<sup>b</sup> These xylene isomers cannot be resolved by the analytical methods employed in the program. m-Xylene and p-Xylene will be reported as "Total m-p-Xylene."

<sup>c</sup> Required only for homogenous solids and soil/gravel waste from Savannah River Site.

<sup>d</sup> Required only for homogenous solids and soil/gravel waste from Oak Ridge National Laboratory and Savannah River Site.

<sup>e</sup> These compounds are not required per the permit, but samples may be analyzed and reported for these compounds.

**Comments:**

(1) For analytes where there were no samples measured above the MDL value, 1/2 of the MDL value was used. (Per section C4 of the WAP, 1/2 of the MDL value is used in calculating the mean concentration.)

  
 Signature of Site Project Manager

Joshua Houghton  
 Printed Name

7/23/2012  
 Date

### CCP Headspace Gas Summary Data

Waste Stream # SR-SWMF-HET-A Lot Number (s) 37

Tentatively Identified Compound	Maximum Observed Estimated Concentrations (ppmv)	# Samples Containing TIC	% Detected
Isocyanatomethane	3.60	2	5.00%
Data Supports EPA Hazardous Waste Numbers Assigned by AK? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
If no, describe the basis for assigning the EPA Hazardous Waste Codes:			

SPM Signature



Date 7/23/2012

**CCP RTR/VE Summary of Prohibited Items and AK Confirmation**

Waste Stream #: SR-SWMF-HET-A

Lot #: 37

Container Number	RTR Prohibited Items <sup>a,b</sup>	Visual Examination Prohibited Items <sup>a,b</sup>
See correlation of container ID numbers for list of remaining drum numbers in this Lot.	None of the containers in this lot had prohibited items identified during RTR.	None of the containers in this Lot had prohibited items identified during Visual Examination technique.
<p>a. See Batch Data Reports                      b. If AK has assigned U134 to this waste stream, then any liquids in these containers are prohibited items (not acceptable by the TSDF).</p>		
<p>Justification for the selection of RTR and/or VE: RTR was selected as the characterization method because RTR meets all the Data Quality Objectives for NDE for the waste, VE was selected as the characterization method because VE meets the Data Quality Objectives for NDE for newly generated waste.</p>		

  
 Site Project Manager Signature

Joshua Houghton  
 Printed Name

7/23/2012  
 Date

## CCP Reconciliation with Data Quality Objectives

Waste Stream #: SR-SWMF-HET-A

Lot #: 37

### Sampling Completeness:

#### NDE

Number of Valid Samples: 43      Number of Total Samples Analyzed: 43  
Percent Complete: 100 (QAO is 100%)

#### NDA

Number of Valid Samples: 43      Number of Total Samples Analyzed: 43  
Percent Complete: 100 (QAO is 100%)

6

#### HSG (Random Sampling Lot 1)

Number of Valid Samples: 40      8 40  
Percent Complete: 100 (QAO is  $\geq 90\%$ )  
Number of Valid Samples: 40      9 40  
Percent Complete: 100 (QAO is  $\geq 90\%$ )

10

#### Total VOC

Number of Valid Samples: NA      Number of Total Samples Collected: NA  
Percent Complete: NA (QAO is  $\geq 90\%$ )  
Number of Valid Samples: NA      Number of Total Samples Analyzed: NA  
Percent Complete: NA (QAO is  $\geq 90\%$ )

#### Total SVOC

Number of Valid Samples: NA      Number of Total Samples Collected: NA  
Percent Complete: NA (QAO is  $\geq 90\%$ )  
Number of Valid Samples: NA      Number of Total Samples Analyzed: NA  
Percent Complete: NA (QAO is  $\geq 90\%$ )

#### Total Metals

Number of Valid Samples: NA      Number of Total Samples Collected: NA  
Percent Complete: NA (QAO is  $\geq 90\%$ )  
Number of Valid Samples: NA      Number of Total Samples Analyzed: NA  
Percent Complete: NA (QAO is  $\geq 90\%$ )

## CCP Reconciliation with Data Quality Objectives

Waste Stream #: SR-SWMF-HET-A

Lot #: 37

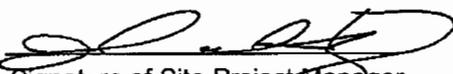
	Y/N/NA	Reconciliation Parameter
1	Y	Waste Matrix Code.
2	Y	Waste Material Parameter Weights.
3	Y	The waste matrix code identified is consistent with the type of sampling and analysis used to characterize the waste.
4	Y	The TRU activity reported in the BDRs for each container demonstrates with a 95% probability that the container of waste contains TRU radioactive waste.
5	N	AK Sufficiency. Is there an approved AK sufficiency Determination for this waste stream?
6	Y	Mean concentrations, UCL <sub>90</sub> values for the mean concentration, standard deviations, and the number of samples collected for each VOC in the HSG of each container were calculated and compared with the program required quantitation limits, as reported in CCP-TP-003 Attachment 3, and additional U.S. Environmental Protection Agency (EPA) Hazardous Waste Numbers were assigned as required. Samples were randomly collected (when appropriate).
7a	NA	Mean concentrations, UCL <sub>90</sub> values for the mean concentration, standard deviations, and the number of samples collected for solids VOCs were calculated and compared with the program required quantitation limits and regulatory thresholds, as reported in the Characterization Information Summary, CCP-TP-003 Attachment 4, and additional EPA HWNs were assigned as required. Samples were randomly collected.
7b	NA	Mean concentrations, (UCL <sub>90</sub> ) values for the mean concentration, standard deviations, and the number of samples collected for solids SVOCs were calculated and compared with the program required quantitation limits and regulatory thresholds, as reported in the Characterization Information Summary, CCP-TP-003 Attachment 5, and additional EPA HW Numbers were assigned as required. Samples were randomly collected.
7c	NA	Mean concentrations, (UCL <sub>90</sub> ) values for the mean concentration, standard deviations, and the number of samples collected for total metals were calculated and compared with the program required quantitation limits and regulatory thresholds, as reported in the Characterization Information Summary, CCP-TP-003 Attachment 6, and additional EPA HWNs were assigned as required. Samples were randomly collected.

**CCP Reconciliation with Data Quality Objectives**

Waste Stream #: SR-SWMF-HET-A

Lot #: 37

8	Y	The data demonstrates whether the waste stream exhibits a toxicity characteristic under Title 40 Code of Federal Regulations (CFR), Part 261, Identification and Listing of Hazardous Waste, Subpart C, Characteristics of Hazardous Waste.		
9	Y	Does the waste stream contain listed waste found in 20.4.1.200 NMAC incorporating 40 CFR Part 261, Subpart D, Lists of Hazardous Wastes.		
10	Y	Waste stream can be classified as hazardous or nonhazardous at the 90-percent confidence level.		
11	Y	Appropriate packaging configuration and Drum Age Criteria (DAC) is applied and documented in the headspace gas sampling documentation, and the drum age met prior to sampling.		
12	Y	TICs were appropriately identified and reported in accordance with the requirements of Section C3-1 of the QAPJP.		
13	Y	The PRQLs for headspace gas VOCs were met for all analyses as evidenced by the analytical batch data reports.		
14		The overall completeness, comparability, and representativeness QAOs were met for each of the analytical and testing procedures as specified in the WAP Sections C3-2 through C3-9 prior to submittal of a waste stream profile form for a waste steam or waste stream lot.		
		<b>Completeness</b>	<b>Comparability</b>	<b>Representativeness</b>
	Radiography	Y	Y	Y
	VE	Y	Y	Y
	Headspace Gas Analysis	Y	Y	Y
	Solids Sampling	NA	NA	NA
	Solids VOCs	NA	NA	NA
	Solids SVOCs	NA	NA	NA
Solids Metals	NA	NA	NA	

  
 Signature of Site Project Manager

Joshua Houghton  
 Printed Name

7/23/2012  
 Date

## Summation of Aspects of AK Summary Report: Waste Stream SR-SWMF-HET-A

### Overview

Waste Stream SR-SWMF-HET-A consists of contact-handled (CH) transuranic (TRU) heterogeneous debris generated during waste handling and associated maintenance operations at the Solid Waste Management Facility (SWMF) at Savannah River Site (SRS). The mission of the SWMF is to provide treatment, storage, and disposal of radioactive wastes generated as a result of the production of nuclear materials for United States Defense Programs and as a result of environmental remediation and regulatory compliance operations conducted at SRS, Mound in Miamisburg, Ohio, and Allied-General Nuclear Services in Barnwell, South Carolina. The specific mission of the TRU Waste Visual Examination Facility/Mixed Waste Processing Facility (TVEF/MWPF), the Modular Repackaging System (MRS)/Modular Repackaging Unit (MORK), and the F-Area Repackaging Enclosures is to visually examine the contents of selected TRU waste drums and the removal of prohibited items for the purpose of supporting the shipment of TRU waste to WIPP.

The TRU waste being generated contacted or originated in other SRS facilities, as well as off-site facilities, that produced defense TRU waste. Therefore, the Department of Energy (DOE) atomic energy defense activity that applies to this waste stream is defense nuclear waste and materials by-products management.

This summation of the Acceptable Knowledge (AK) Summary Report includes information to support Waste Stream Profile Form (WSPF) number SR-SWMF-HET-A, Revision 1 for contaminated debris from the SWMF. The WSPF was originally approved on April 3, 2008. This WSPF is revised to address the addition of the standard large box 2 payload container and associated TRUPACT-III Content Code Number SR 425 to waste stream SR-SWMF-HET-A. The primary source of information for this Summation is CCP-AK-SRS-12, *Central Characterization Project Acceptable Knowledge Summary Report for Savannah River Site Solid Waste Management Facility, Waste Streams: SR-SWMF-HET-A, SR-SWMF-HET-B, SR-SWMF-SOIL*, Revision 5, March 12, 2012.

### Waste Stream Identification Summary

<b>Wastes Stream Name:</b>	Contaminated Debris from the Solid Waste Management Facility
<b>Waste Stream Number:</b>	SR-SWMF-HET-A
<b>Dates of Waste Generation:</b>	November 1997 to Present
<b>Waste Stream Volume – Current:</b>	401 55-gallon drums, 59 SWBs, and 1 SLB2
<b>Waste Stream Volume – Projected:</b>	157 55-gallon drums per year through 2012 48 55-gallon drums per year through 2013 24 55-gallon drums per year in 2014 through 2016
<b>Summary Category Group:</b>	S5000
<b>Waste Matrix Code Group:</b>	Heterogeneous Debris Waste

**Waste Matrix Code:** S5400, Heterogeneous Debris

**TRUPACT-II Content Code:** SR 125 / 225, SQ 154

**TRUPACT-III Content Code:** SR 425

**Annual Transuranic Waste Inventory  
Report (ATWIR) Identification Number:** SR-SWMF-HET-A

**Waste Stream Description and Physical Form:**

Waste stream SR-SWMF-HET-A is generally comprised of cellulosic, plastic, rubber, metal, and glass wastes. Cellulosic materials include cloth (e.g., bags), clothing (e.g., coveralls, scrubs), glove liners, mop heads, paper products (e.g., pads, smears, swipes), rags, rope, tape, towels, wipes, and wood (brushes, tool handles). Plastic items include bags, bag-out sleeves, breathing air hoods, containers (e.g., bottles, buckets), drum liner lids, glovebag material, hose, pigtailed, polypropylene absorbent pads (i.e., Haz-Mat PIG), polyvinyl chloride (PVC) from glovebag glove ports, sheeting, Styrofoam trays, tape, and wire insulation. Rubber materials include bungee cords, drum lid gaskets, gloves, lead-lined gloves, mats, O-rings, shoe covers, and vacuum hoses. Other organic materials include Kevlar, leather gloves, and soil. Filters include cardboard roughing filters, glovebag filters, High-Efficiency Particulate Air (HEPA) filters, metal drum filter vents, and prefilters. Metal wastes include aluminum bag-out ports and buckets, cable/wire, caulking guns, containers (e.g., 30-gallon drums), drill bits, drum lids, drum rings, dust pans, empty aerosol cans, equipment (e.g., alpha probes, cameras, scales, vacuum cleaners), filter housings, hand tools (e.g., hammers, metal cutters, pliers, razor knives/blades, shears), hardware (e.g., bolts, nuts), identification tags, piping, deactivated squibs, and stainless-steel pans. Other inorganic waste items include concrete, nonhazardous fluorescent light bulbs, glass bottles, mirror, and sand. Small quantities of homogeneous solids such as floor sweepings and dust; Acid Bond A660, Petrobond A610, or No-Char absorbents; paint chips; and water/nonhazardous decontamination solutions (e.g., Isoclean and Radiacwash) mixed with a loose absorbent (e.g., soda ash, SP-400 Water Works) are also present.

The waste stream meets the definition of waste materials that have common physical form, that contain similar hazardous constituents, and that are generated from a single process or activity. One waste stream has been delineated for the TRU debris waste generated at the E-Area/F-Area SWMF during waste handling and associated maintenance operations.

**Point of Generation**

**Location**

Waste stream SR-SWMF-HET-A was generated at SRS in Aiken, South Carolina. The waste is currently stored at the SRS E-Area TRU waste storage pads.

**Area and/or Buildings of Generation**

Waste stream SR-SWMF-HET-A was generated in the TVEF/MWPF on TRU Pad 6, the MRS on TRU Pad 19, TRU Pad 2, TRU Pad 3, and the F Area Repackaging Enclosures. The TVEF/MWPF, MRS, and TRU Pads 2 and 3 are located at the SWMF in E-Area, and the F-Area Repackaging Enclosures are located in Building 221F.

## Generating Processes

### Description of Waste Generation Processes

Waste stream SR-SWMF-HET-A consists of hazardous organic and inorganic debris generated in the TVEF/MWPF, MRS (which contains the MORK), and F-Area Repackaging Enclosures. This waste stream primarily includes containers with empty aerosol cans (will be punctured prior to WIPP disposal) and secondary job control waste from waste handling and associated maintenance operations (References D001, D003, and D018). Descriptions of these operations are provided below.

The TVEF portion of the TVEF/MWPF provides a capability for visual examination (VE) of the contents of TRU waste drums to ensure they have been accurately characterized before final disposition and the removal of WIPP-prohibited items. The top of a parent 55-gallon drum of TRU waste is introduced into the TVEF glovebox through a 26-inch diameter bag-in port on the side of the glovebox. A smaller bag-in port is provided for items such as small tools and decontamination materials. The MWPF portion of the TVEF/MWPF provided an area for use of a negative pressure glovebag. The drum lid is removed under a hood and the liner lid left in place. The drum is attached to the glovebag using a sleeve and placed horizontally into the glovebag by a drum lift. The liner is opened and the drum unpacked. Prohibited items are removed and the waste is repacked back into the parent drum, or into a new daughter drum, at the other end of the glovebag. Similar to the TVEF operations, the MORK is used to examine, remediate, and repackage TRU waste drums. The parent drum is introduced into the glovebox where the retaining ring, metal lid, and liner lid are removed, and the waste is emptied into the glovebox. Once the prohibited items have been remediated or removed, the contents of the drum are sorted and weighed, and then bagged and placed back into the parent drum, if feasible, or into one or more daughter drums attached to the bottom of the glovebox. Parent drums with uncontainerized liquids (up to a certain amount) are introduced into the glovebox or glovebag and the liquid is absorbed and placed back into the parent drum or into a daughter drum. Aerosol cans are removed from the parent drum and placed into drums separate from other types of waste.

Operations in the F-Area Repackaging Enclosures include opening sealed liquid containers one at a time. This includes breaking open glass ampules. All possible hazardous constituents are listed in the Toxicity Characteristic and Listed Constituents in Waste Stream SR-SWMF-HET-A table. After opening the liquids, the pH is determined and, if the pH is less than 5, a 50 percent sodium hydroxide solution is slowly added until the pH is greater than 5. The liquid is then absorbed. Other prohibited items such as aerosol cans are removed from the waste. The waste is then repackaged into a parent drum and, if needed, into daughter drums. During waste management and drum storage activities, following initial waste generation, 55-gallon drums may be overpacked into 85-gallon drums to correct drum integrity problems (e.g., corrosion, dents) or external contamination (References D001, D002, D003, D004, D018, P004, P005, P006, P007, P008, P009, P010, P018, P019, P020, P022, P025, P026, P030, P031, P032, P033, and P034).

The liquids processed in the F-Area Repackaging Enclosures include acids (e.g., nitric acid), bases (e.g., sodium hydroxide), and other liquids (e.g., contaminated water) that were generated in processes that produced TRU waste (Reference D018). These liquids were removed from other waste streams for remediation in the F-Area Repackaging Enclosures. These liquids could have been originally generated in plutonium purification processes in FB-Line, operations in HB-Line, operations in Central Laboratories (CLAB), the Actinide Billet

processes, the research and development at SRNL, plutonium heat source operations at Mound, the operations at AGNS, nuclear weapons research and development operations at LANL, or site deactivation and decommissioning in Building 211-F.

Waste handling and maintenance operations include bag-port operations, cutting off a drum liner lip in order to remove large items from drum liner, removing old drum filter vents from the parent drums, replacement of HEPA and pre-filters, operation of the breathing air system, using absorbent pads for wiping liquid off waste items, and cleaning/remediating the glovebox and glovebag interior using decontamination solution and/or physical methods (e.g., scraping, wiping). Fixatives, such as DeconGel, may be used during these operations to reduce the spread of contamination. Nonhazardous decontamination solutions typically used are Isoclean and Radiacwash (References C003, C006, M001, M002, P004, P005, P006, P007, P008, P009, P010, P021, P026, P030, P031, P032, P033, and P034).

### Waste Stream Material and Chemical Inputs

The following table identified the Resource Conservation and Recovery Act (RCRA) toxicity characteristic and listed constituents identified in this waste stream.

#### Toxicity Characteristic and Listed Constituents in Waste Stream SR-SWMF-HET-A

Chemical	EPA HWNs	Use/Source	References
Lead	D008	leaded gloves and paint chips	M001, M013, M014, M016, P005, P008, P009
Carbon tetrachloride	F001	Repackaging of hazardous waste from parent waste stream	C001, C002, DR001
Methylene chloride	F001, F002	Repackaging of hazardous waste from parent waste stream	C001, C002, DR001
Tetrachloroethylene	F001, F002	Repackaging of hazardous waste from parent waste stream	C001, C002, DR001
1,1,1-Trichloroethane	F001, F002	Repackaging of hazardous waste from parent waste stream	C001, C002, DR001
Trichloroethylene	F001, F002	Repackaging of hazardous waste from parent waste stream	C001, C002, DR001
1,1,2-Trichloro-1,2,2-trifluorethane	F001, F002	Repackaging of hazardous waste from parent waste stream	C001, C002, DR001
Chlorobenzene	F002	Repackaging of hazardous waste from parent waste stream	C001, C002, DR001
ortho-Dichlorobenzene	F002	Repackaging of hazardous waste from parent waste stream	C001, C002, DR001

Chemical	EPA HWNs	Use/Source	References
1,1,2-Trichloroethane	F002	Repackaging of hazardous waste from parent waste stream	C001, C002, DR001
Trichlorofluoromethane	F002	Repackaging of hazardous waste from parent waste stream	C001, C002, DR001
Nitrobenzene	F004	Repackaging of hazardous waste from parent waste stream	C001, C002, DR001
Benzene	F005	Repackaging of hazardous waste from parent waste stream	C001, C002, DR001
Carbon disulfide	F005	Repackaging of hazardous waste from parent waste stream	C001, C002, DR001
2-Ethoxyethanol	F005	Repackaging of hazardous waste from parent waste stream	C001, C002, DR001
Isobutanol	F005	Repackaging of hazardous waste from parent waste stream	C001, C002, DR001
Methyl ethyl ketone	F005	Repackaging of hazardous waste from parent waste stream	C001, C002, DR001
2-Nitropropane	F005	Repackaging of hazardous waste from parent waste stream	C001, C002, DR001
Pyridine	F005	Repackaging of hazardous waste from parent waste stream	C001, C002, DR001
Toluene	F005	Repackaging of hazardous waste from parent waste stream	C001, C002, DR001
Spent cyanide	F007	Plating bath solutions and repackaging of hazardous waste from parent waste stream	C001, C002, DR001
Spent cyanide	F009	Stripping and cleaning bath solutions and repackaging of hazardous waste from parent waste stream	C001, C002, DR001
Hydrazine	U133	Repacking of hazardous waste from parent waste stream	C001, C002, DR001
Mercury	U151	Repacking of hazardous waste from parent waste stream	C001, C002, DR001

## RCRA Determinations

### Historical Waste Management

Waste from the TVEF operations, the MORK and the F-Area Repackaging Enclosures has historically been managed in accordance with the generator site requirements and in compliance with the requirements of the South Carolina Department of Health and Environmental Control. Based on historical waste management, the containers in this waste stream were managed as hazardous and assigned toxicity characteristic and listed codes. A review of available AK documentation has determined that this waste is hazardous. SRS historically assigned Environmental Protection Agency (EPA) Hazardous Waste Numbers (HWNs) D004, D005, D006, D007, D008, D009, D010, D011, D018, D019, D021, D022, D027, D028, D029, D030, D032, D034, D035, D037, D039, D040, D043, F001, F002, F003, F004, F005, F007, F009, U002, U133, and U151 to this waste stream; however, based upon the discussion below, only D008, F001, F002, F004, F005, F007, F009, U133, and U151 have been assigned to waste stream SR-SWMF-HET-A. EPA HWNs D004, D005, D006, D007, D009, D010, D011, D018, D019, D021, D022, D027, D028, D029, D030, D032, D034, D035, D037, D039, D040, D043, F003, and U002 were not assigned. EPA hazardous waste numbers were assigned to waste stream SR-SWMF-HET-A based on a review of available AK documentation that identified chemical usage and potentially hazardous materials that may have been introduced into the waste stream (References DR001 and M002).

### Hazardous Waste Determinations

#### Ignitability, Corrosivity, Reactivity

##### Ignitability

The debris materials in waste stream SR-SWMF-HET-A do not meet the definition of ignitability as defined in 40 Code of Federal Regulations (CFR) 261.21. Ignitable liquids were not used in the TVEF/MWPF or MORK (References C003 and C006). The waste is not an oxidizer, and it is not capable of causing fire through friction, absorption of moisture, or spontaneous chemical change. Several containers are full of un-punctured aerosol cans which will be punctured prior to WIPP disposal. Waste stream SR-SWMF-HET-A is therefore not ignitable and is not assigned EPA hazardous waste number D001.

TRU waste generated in the TVEF/MWPF, MRS, and F-Area Repackaging Enclosures was packaged according to waste characterization and certification procedures to meet SRS waste acceptance criteria (WAC) (References P001, P002, and P003). The SRS E-Area TRU Pads Transuranic Waste Acceptance Criteria procedure describes general information and requirements for TRU waste generators for preparing and shipping TRU and mixed TRU waste to the SWMF for storage. Prohibited items listed in the SRS WAC include ignitable wastes, compressed gases, non-radioactive pyrophorics, and chemicals that will adversely react with other components in the container to result in flammable gas generation (References M009 and P002).

Calcium metal was used in FB-Line and is potentially present in parent drums. In 2002, SRS evaluated the granular form of calcium metal used in FB-Line and determined that it does not meet the definition of ignitability. Drums known to potentially contain pyrophoric materials are not allowed in the TVEF, MRS, or F-Area Repackaging Enclosures. Sealed containers with liquids (excluding aerosol cans) are not processed in the TVEF/MWPF or MORK (References

D003, D004, P005, P006, P007, P008, P009, and P010). During the repackaging process, empty aerosol cans, aerosol cans with liquids, and containerized liquids are placed into separate drums for further processing (Reference P004). Containerized liquids are processed in the F-Area Repackaging Enclosures (References D018, P021, P022, and P025).

### Corrosivity

The debris materials in waste stream SR-SWMF-HET-A are not liquid and do not contain unreacted corrosive chemicals; therefore, they do not meet the definition of corrosivity as defined in 40 CFR 261.22. Corrosive liquids were not used in the TVEF/MWPF, MORK, or F-Area Repackaging Enclosures (Reference C006). Waste stream SR-SWMF-HET-A is therefore not corrosive and is not assigned EPA hazardous waste number D002.

TRU waste generated in the TVEF/MWPF, MRS, and F-Area Repackaging Enclosures was packaged according to waste characterization and certification procedures to meet SRS WAC (References P001, P002, and P003). The SRS E-Area TRU Pads Transuranic Waste Acceptance Criteria procedure describes general information and requirements for TRU waste generators for preparing and shipping TRU and mixed TRU waste to the SWMF for storage. Prohibited items listed in the SRS WAC include corrosive wastes and chemicals that will adversely react with other components in the container to result in corrosion (Reference P002).

Sealed containers with liquids (excluding aerosol cans) are not processed in the TVEF/MWPF or MORK (References D003, D004, P005, P006, P007, P008, P009, and P010). During the repackaging process, aerosol cans with liquids and containerized liquids are placed into separate drums for further processing (Reference P004).

Sealed containers with liquids (excluding aerosol cans) are opened, pH adjusted, if needed, and absorbed in the F-Area Repackaging Enclosures (References D018, P021, P022, and P025).

### Reactivity

The debris materials in waste stream SR-SWMF-HET-A do not meet the definition of reactivity as defined in 40 CFR 261.23. The waste is stable and will not undergo violent chemical change without detonating. The waste will not react violently with water, form potentially explosive mixtures with water, or generate toxic gases, vapors, or fumes when mixed with water. The waste does not contain reactive cyanide or sulfide compounds. There is no indication that the waste contains explosive materials, and it is not capable of detonation or explosive reaction. Waste stream SR-SWMF-HET-A is therefore not reactive and is not assigned EPA hazardous waste number D003.

TRU waste generated in the TVEF/MWPF, MRS, and F-Area Repackaging Enclosures was packaged according to waste characterization and certification procedures to meet SRS WAC (References P001, P002, and P003). The SRS E-Area TRU Pads Transuranic Waste Acceptance Criteria procedure describes general information and requirements for TRU waste generators for preparing and shipping TRU and mixed TRU waste to the SWMF for storage. Prohibited items listed in the SRS WAC include reactive wastes, explosives, and chemicals that will adversely react with other components in the container to result in explosion, heat generation, non-flammable gas generation, or toxic by-product generation (Reference P002).

Squibs (electrical discharge plugs) are deactivated prior to disposal (References C005, M001, P005, and P006). Drums known to potentially contain explosive materials are not allowed in the

TVEF, MRS, or F-Area Repackaging Enclosures. Sealed containers with liquids (excluding aerosol cans) are not processed in the TVEF/MWPF or MORC (References D003 and D004). During the repackaging process, unpunctured aerosol cans are placed into separate drums (Reference P004). Sealed liquid containers are processed in the F-Area Repackaging Enclosures (References D018, P021, P022, and P025). Reactive metals were not disposed in TRU waste drums. Calcium metal was used in FB-Line and is potentially present in parent drums. In 2002, SRS evaluated the granular form of calcium metal used in FB-Line and determined that it does not meet the definition of reactivity.

The containers in the waste stream will be evaluated in accordance with the WIPP-WAP using radiography or visual examination prior to shipment to ensure the waste is not ignitable, reactive, or corrosive.

### **Toxicity Characteristic**

Waste stream SR-SWMF-HET-A meets the definition of toxicity for metal compounds as defined in 40 CFR Part 261.24. The debris wastes exhibit the characteristic of toxicity for lead due to the presence of leaded gloves used on the TVEF glovebox and lead contaminated paint chips from F-Area remediation operations. Waste stream SR-SWMF-HET-A is assigned EPA hazardous waste number D008 (References M001, M013, M014, M016, P005, P008, and P009).

The parent drums being repackaged are assigned additional toxicity characteristic metal EPA hazardous waste numbers. However, this waste stream is job control waste generated during the repackaging process. Any contact these wastes may have had with the waste being repackaged would be incidental or would meet the definition of an empty container as defined in 40 CFR 261.7 (e.g., punctured aerosol cans), and therefore, these compounds, if present at all, will be well below the regulatory threshold limit (Reference DR001).

Waste stream SR-SWMF-HET-A does not meet the definition of toxicity for organic compounds as defined in 40 CFR 261.24. Toxicity characteristic organic compounds were not used in the VE and repackaging process conducted in the TVEF/MWPF, MORC, and F-Area Repackaging Enclosures. Parent drums being repackaged are assigned toxicity characteristic organic EPA hazardous waste numbers. However, this waste stream is job control waste generated during the repackaging process. Any contact these wastes may have had with the waste being repackaged would be incidental or would meet the definition of an empty container as defined in 40 CFR 261.7 (e.g., punctured aerosol cans), and therefore, toxicity characteristic organic compounds, if present at all, will be well below the regulatory threshold limit (Reference DR001).

### **Listed Waste**

#### **F-Listed Waste**

Waste stream SR-SWMF-HET-A is an F-listed hazardous waste because the debris wastes were contaminated during repackaging of hazardous wastes from non-specific sources as listed in 40 CFR 261.31. Although any contact with the repackaged waste would be incidental, it would still meet the definition of F-listed waste via the mixture rule. In addition, SRS assigned F-listed hazardous waste numbers to this waste. Therefore, waste stream SR-SWMF-HET-A is assigned EPA hazardous waste numbers F001, F002, F004, F005, F007, and F009 (References C001, C002, and DR001). The specific constituents are listed in the Toxicity Characteristic and Listed Constituents in Waste Stream SR-SWMF-HET-A table. EPA

hazardous waste number F003 was assigned to debris waste being repackaged in the TVEF/MWPF and MORK. However, F003-listed solvents are listed solely for ignitability, and this waste stream does not exhibit the characteristic of ignitability because the solvents are not in liquid form. Therefore, waste stream SR-SWMF-HET-A is not an F003-listed hazardous waste.

### **K-Listed Waste**

This waste is not a hazardous waste originating from any of the specific sources listed in 40 CFR 261.32. Therefore, waste stream SR-SWMF-HET-A is not a K-listed hazardous waste.

### **P and U-Listed Waste**

Waste stream SR-SWMF-HET-A does not contain discarded unused commercial chemical products, an off-specification commercial chemical product, or a container residue or spill residue thereof as defined in 40 CFR 261.33. However, a portion of the waste repackaged in the TVEF/MWPF and MORK was assigned EPA hazardous waste numbers U002 (acetone), U133 (hydrazine), and U151 (mercury) (References M001, M013, and M014). Although any contact with the repackaged waste would be incidental, EPA hazardous waste numbers U133 and U151 are assigned to waste stream SR-SWMF-HET-A because the debris wastes were contaminated during the repackaging of these U-listed hazardous wastes (References C001, C002, and DR001). Although hydrazine itself is a reactive chemical, this debris waste stream does not exhibit the characteristic of reactivity because it would only be present in minute quantities. EPA hazardous waste number U002 is not assigned to this waste stream because it is listed solely for ignitability, and this debris waste stream does not exhibit the characteristic of ignitability as the acetone is not in liquid form (References C008, C009, and DR001).

Hydrofluoric acid (U134-listed waste) may be present as a contaminant in some parent drums; however, there is no indication that unused acid or materials from spills of the acid were disposed of in this waste stream. Trace amounts of beryllium may be present in some parent drums due to past beryllium operations on the site (Reference D003). The presence and quantity of beryllium has been reported on the OSR 29-90 form since 2005. The containers in this waste stream with a beryllium checkbox on the 29-90 indicate no beryllium is present (References M001, M013, M014, and M016). Beryllium in quantities of less than one gram has been exempt from this reporting requirement since early-2006. However, this exemption does not extend to specific Industrial Hygiene labeling requirements for beryllium containers and, therefore, a beryllium waste label may be affixed to a parent drum even if the beryllium quantity in the waste is not reported (Reference P002). Drums with generator data indicating that beryllium may be present are not accepted for processing in the TVEF (Reference D003). Any beryllium present in this waste stream does not meet the definition of a P015-listed waste.

### **Polychlorinated Biphenyls**

The EPA banned the manufacturing, processing, and distribution of polychlorinated biphenyls (PCBs) in commerce in 1979; consequently, the potential for PCB contamination of TRU waste in this waste stream was expected to be limited. However, repackaging operations have identified the presence of PCBs in debris waste in a few of the containers (e.g. PCB light ballasts). Therefore, containers with PCB waste, identified during real-time radiography (RTR) or VE, will be managed as Toxic Substances Control Act (TSCA) Waste under 40 CFR 761.

**Prohibited Items**

Absorbed waste is included in this waste stream, the presence of prohibited quantities of liquid due to dewatering or incomplete absorption is possible. Any container identified with liquids in excess of amounts allowed by the WIPP-WAP, or having sealed containers greater than 4 liters, unpunctured aerosol cans, compressed gas cylinders, or explosives will be segregated from the waste stream and will not be eligible for disposal at WIPP until the prohibited materials are removed and/or remediated (References P002, P004, P005, P006, P007, P008, P009, P010, P019, P021, P022, P025, and P030).

**Method for Determining Waste Material Parameter Weights per Unit of Waste**

The OSR 29-90 forms include estimated waste material parameter weight percents (Reference M001, M013, and M014). An evaluation of the data from the original population of 276 drums in waste stream SR-SWMF-HET-A indicates that the waste is predominantly organic at about 67 weight percent. The 276 containers included in the evaluation represent approximately 60 percent of the current waste stream. The results from this evaluation are presented in the Waste Stream SR-SWMF-HET-A Waste Material Parameters table.

**Waste Stream SR-SWMF-HET-A Waste Material Parameters**

Waste Material Parameter	Avg. Weight Percent	Weight Percent Range
Iron-based Metals/Alloys	11.7%	0 – 100%
Aluminum-based Metals/Alloys	0.4%	0 – 81.8%
Other Metals	19.2%	0 – 100%
Other Inorganic Materials	1.6%	0 – 46.1%
Cellulosics	14.4%	0 – 100%
Rubber	9.3%	0 – 100%
Plastics (waste materials)	42.7%	0 – 100%
Organic Matrix	<0.1%	0 – 39.5%
Inorganic Matrix	0.5%	0 – 66.7%
Soils/gravel	<0.1%	0 – 23.8%

**List of Any AK Sufficiency Determinations Requested for the Waste Stream**

There are no AK sufficiency determination requests for this waste stream.

**Transportation**

This waste stream and its chemical constituents have been reviewed for consistency with listed TRUCON codes and they are consistent.

**Beryllium**

Beryllium will not be present in amounts greater than 1% by weight of the waste in each payload container.

## Radionuclide Information

The radiological content of waste stream SR-SWMF-HET-A is based primarily on SRS radioassay in combination with scaling methods. The radioassay systems consist of the SRS Passive Active Neutron Assay and Control System, the Canberra Inspector System (portable gamma system), and the ORTEC Mobile ISO-CART System (portable gamma system). Isotopic distributions were developed from the parent drum waste stream for scaling undetected radionuclides or a composite distribution was used. In several cases where no radionuclides were detected, the radioassay system's Pu-239 minimum detectable activity was reported and used for scaling other radionuclides. In a few instances, the Pu-239 equivalent curie quantity was derived from the parent drum or from the TVEF glovebox holdup inventory and converted to Pu-239 mass which was used for scaling other radionuclides (References C007, C052, M001, M003, M004, M005, M006, M007, M008, M013, M014, M015, M016, M018, M019, and M020).

The two most prevalent radionuclides by mass in this waste stream are U-238 and Pu-239; however, U-238 was present in significant quantities in only 24 of the containers in the waste stream. Without those 24 containers, Pu-239 and Pu-240 are the two most predominant radionuclides by mass (References C052, C055, and M020).

## Waste Stream SR-SWMF-HET-A Radiological Characterization

Isotope	Total Radionuclide Wt% <sup>1</sup>	Radionuclide Wt% Range for Individual Containers <sup>2</sup>	Total Radionuclide Ci% <sup>3</sup>	Radionuclide Ci% Range for Individual Containers <sup>4</sup>	Suspected Present (Yes/No)
<b>WIPP-Required Radionuclides</b>					
Am-241	Trace <sup>5</sup>	0.00% - 22.55%	1.84%	0.00% - 74.00%	Yes
Pu-238	Trace	0.00% - 99.16%	46.00%	0.00% - 99.6%	Yes
Pu-239	<b>0.14%</b>	0.00% - 99.28%	6.45%	0.00% - 99.99%	Yes
Pu-240	0.01%	0.00% - 44.56%	1.30%	0.00% - 7.24%	Yes
Pu-242	0.01%	0.00% - 16.69%	0.02%	0.00% - 0.07%	Yes <sup>6</sup>
U-233	Trace	0.00% - 0.93%	Trace	0.00% - 0.01%	Yes
U-234	Trace	0.00% - 52.85%	0.02%	0.00% - 0.95%	Yes
U-238	<b>99.83%</b>	0.00% - 99.92%	0.03%	0.00% - 0.08%	Yes
Cs-137	Trace	0.00% - Trace	0.39%	0.00% - 1.21%	Yes
Sr-90	Trace	0.00% - 0.01%	2.38%	0.00% - 7.37%	Yes
<b>Additional Radionuclides</b>					
Am-242m	Trace	0.00% - 0.36%	Trace	0.00% - 0.57%	Yes
Am-243	Trace	0.00% - 0.08%	Trace	0.00% - 0.04%	Yes
Ba-137m	Trace	0.00% - Trace	0.37%	0.00% - 1.16%	Yes
C-14	Trace	0.00% - Trace	Trace	0.00% - Trace	Yes
Cm-243	Trace	0.00% - Trace	Trace	0.00% - Trace	Yes
Cm-244	Trace	0.00% - 0.87%	0.29%	0.00% - 4.25%	Yes
Co-60	Trace	0.00% - Trace	Trace	0.00% - Trace	Yes
H-3	Trace	0.00% - Trace	0.01%	0.00% - 0.04%	Yes
I-129	Trace	0.00% - Trace	Trace	0.00% - Trace	Yes
Np-237	Trace	0.00% - 100.00%	Trace	0.00% - 100.00%	Yes
Pu-241	Trace	0.00% - 69.69%	40.89%	0.00% - 95.57%	Yes
Tc-99	Trace	0.00% - Trace	Trace	0.00% - Trace	Yes
U-235	Trace	0.00% - 98.20%	Trace	0.00% - Trace	Yes
U-236	Trace	0.00% - 1.72%	Trace	0.00% - Trace	Yes

1. This listing indicates the total weight percent of each radionuclide over the entire waste stream.
2. This listing is the weight percent range of each radionuclide on a container-by-container basis. Some containers with "0" listed as the lower range, will not contain the specified radionuclide.
3. This listing indicates the total activity (curie) percent of each radionuclide over the entire waste stream.
4. This listing is the curie percent range of each radionuclide on a container-by-container basis.
5. "Trace" indicates <0.01 weight or curie percent for that radionuclide.
6. Pu-242 cannot be quantified by gamma spectroscopy. Its value is calculated based on other measured plutonium isotopes.

Payload management will not be utilized for this waste stream.

## Source Documents

Source Document Number	Title
C001	Memo to D. M. Cole Characterization of TRU Job Control Waste Generated on Pad #6 During FB-Line Drum Remediation
C002	Memo to D. M. Cole Characterization of TRU Job Control Waste Generated on Pad #6 During HB-Line Drum Remediation
C003	Memo to K. A. Stone SW's TRU Waste Shipments
C005	E-mail Correspondence from Jeff Lunsford to Jeff Harrison Subject: SWD031533.
C006	E-mail Correspondence from Jeff Lunsford to Jeff Harrison Subject: Radiacwash
C007	Memo to D. M. Cole re: Assay Results for JCW Drums 10/07/04
C008	Memo to M. A. Kokovich re: Applicability of Two RCRA Waste Codes to TRU Waste Generated in FB-Line
C009	Memo to M. A. Kokovich re: Applicability of RCRA Waste Codes to TRU Waste Generated in HB-Line
C052	Updated Evaluation of Calculation of Individual and Total Radionuclide Masses and Activities for Waste Stream SR-SWMF-HET-A
C054	E-mail Correspondence from Jeff Lunsford to Jeff Harrison. Subject: re: Future Generation of SRS-12 Waste
C055	Updated Evaluation of Calculation of Individual and Total Radionuclide Masses and Activities for Waste Stream SR-SWMF-HET-A
C056	SAVANNAH RIVER PLANT (SRP) BURIAL GROUND BUILDING 643-G APPRAISAL AUDIT
C057	LEAKING FIBERGLASS BURIAL CASK (DPSPU 76-272-448) – Separations Incident, SI-76-10-150
C058	Contaminated Liquid Spill (DPSPU 76-272-367) – Separations Incident, SI-76-108
C059	Contamination of TRU Pad No. 3 -Cracked Lid on Fiberglass Burial Box (DPSPU 76-272-454) - Separations Incident, SI-76-153
C061	Evaluation of Volume, Period of Generation and Calculation of Individual and Total Radionuclide Masses and Activities for Waste Stream SR-SWMF-HET-B
C062	Evaluation of Volume, Period of Generation and Calculation of Individual and Total Radionuclide Masses and Activities for Waste Stream SR-SWMF-SOIL
C063	Email from Jeff Lunsford to Jim Schoen, Subject: Fw MORE Info Regarding Use of 643-G TRU Waste
C064	Works Technical Report for August 1979, DPSP-79-1-8
C065	Works Technical Report for October 1976, DPSP-76-1-10
C066	Works Technical Report for November 1976, DPSP-76-1-11
C067	Email From Dan Remington to Joe Harvill and Christian Almanza, Subject: EA Reviews completed on SRS High Pu-240 AK-12 Soils Drums
C068	Email From Jeff Harrison to Jim Schoen and Mike Papp, Subject: RE: EA Reviews completed on SRS High Pu-240 AK-12 Soils Drums
C069	Email from Joseph Price to Jim Schoen re: Fw: SR-SWMF-HET-B and SR-SWMF-SOIL RCRA Characterization

C070	Interoffice Memorandum from J. K. Price to D. M. Cole and B. R. Hoeffner, Re: Environmental Guidance for Laboratory Analysis of Legacy Waste
C072	Email from Jeff Lunsford to Lisa Watson and Jeff Harrison, Subject: Fw MORE Info Regarding Use of 643-G TRU Waste, Ref: AK Investigation for 643-G Cntr ID's SR89796 & SR89797
D001	Savannah River Site Solid Waste Management Facility Documented Safety Analysis
D002	Solid Waste Management Facility. The Modular Repackaging System on TRU Pad 19 Justification for Continued Operation
D003	Consolidated Hazards Analysis For The TRU Visual Examination Facility
D004	Consolidated Hazards Analysis For The Modular Repackaging System On TRU Storage Pad 19.
D005	Consolidated Hazards Analysis For Removal Of Prohibited Items From TRU Drums In The Mixed Waste Processing Facility (U).
D018	Safety Analysis Report FB-Line, F-Canyon, FA-Line and Outside Facilities.
D019	Burial Ground Facility Building 643-G Operations
DR001	Discrepancy Resolution for EPA Hazardous Waste Numbers
DR004	Discrepancy Resolution for EPA Hazardous Waste Code Assignments for Waste Streams SR-SWMF-HET-B and SR-SWMF-SOIL
DR005	Discrepancy Resolution to assign a container designated by SRS as Waste Stream SR-SWMF-HET-B to SR-SWMF-SOIL and a container designated as Waste Stream SR-SWMF-SOIL to SR-SWMF-HET-B
M001	OSR 29-90 Transuranic Waste Container Characterization Forms for Drums in Waste Stream SR-SWMF-HET-A
M002	Collection of MSDSs for SR-SWMF-HET-A
M003	Calculation Cover Sheet. Calculation of Curie Fractions Used in Entering Waste Stream in WITS
M004	Calculation Cover Sheet, Plutonium Equivalent Curie Levels for Aerosol Cans and Job Control Waste Drums from TRU Remediation of HB-Line and 235-F Waste
M005	Calculation Cover Sheet, Evaluation of PEC and FGE Values for Remediated TRU Waste from 773-A
M006	Calculation Cover Sheet, Evaluation of PEC and FGE Values for Remediated TRU Waste from 772-F
M007	Calculation Cover Sheet, Evaluation of PEC and FGE Values for Remediated TRU Waste from FB-Line
M008	Calculation Cover Sheet, Development of Composite Distributions for Repackaging TRU Waste
M009	Request for Deviation to SRS Waste Acceptance Criteria Manual. E-Area TRU Remediation Processes
M013	Evaluation of Additional Containers for SRS-12 Waste Stream SR-SWMF-HET-A
M014	29-90s for Drums Added on 2/11/2008
M015	Evaluation of Additional Drums for Waste Stream SR-SWMF-HET-A
M016	Additional Transuranic Waste Container Characterization Form (29-90)
M018	Waste Package Data Report for SWD081406
M019	Addition of 61 Containers to Waste Stream SR-SWMF-HET-A

M020	Waste Stream SR-SWMF-HET-A Radiological Evaluation
M021	SR-SWMF-HET-B Container Cross Reference Documents
M022	Transuranic Waste Container Characterization Forms (SR-29-90) and Burial Ground Records for Containers in Waste Stream SR-SWMF-HET-B
M023	Burial Ground Records for Containers Added to Waste Stream SR-SWMF-SOIL
M024	Burial Ground Records for Containers Added to Waste Stream SR-SWMF-HET-A
M025	Go West Data for CCP-AK-SRS-12
M027	RTR Quick Screen Data Sheets for Waste Stream SR-SWMF-HET-B
M028	RTR Quick Screen Data Sheets for Waste Stream SR-SWMF-SOIL
P001	SRS Waste Acceptance Criteria Manual
P002	E-Area TRU Pads Transuranic Waste Acceptance Criteria
P003	Waste Characterization and Quantification.
P004	Pad 6 and Pad 19 Generated SWMF TRU/MTRU Waste.
P005	TVEF Operations (U)
P006	MRS Operations (U)
P007	Removal of Prohibited Items (U)
P008	TVEF Removal of Prohibited Items (U)
P009	Introduction and Removal of TRU Waste for Characterization in TVEF (U)
P010	TVEF Operations (U)
P018	Transferring TRU Drums to SWMF
P019	TRU Drum Inventory Control
P020	Inventory Control of TRU Repackaging Enclosures
P021	GCO TRU Drum Remediation
P022	TRU Drum Repackaging
P025	Absorbing Containerized Liquids
P026	Replacing TRU Repackaging Enclosure Gloves
P030	Absorbing Containerized Liquids
P031	Shipment Preparation for TRU Containers to SWMF
P032	Transuranic (TRU) Waste Repackaging in H-Canyon
P033	F-Canyon Container Transfer
P034	Standard Waste Box Operations (U)
P037	DPSOP40 Savannah River Plant Radiation and Contamination Control/Management of Solid Radioactive Waste
P038	Decontamination of TRU Pad #3
P039	Decontamination of TRU Pad #3 Procedure 2
P040	Solid Waste Operating Procedures Manual Cell 11 TRU Repackaging Operation
P041	Transuranic (TRU) Waste Repackaging of Large Steel Boxes, Standard Large Boxes, and other Miscellaneous Containers in H-Canyon (Phase 11a.1)
P045	Radioactive Solid Waste Burial Record, Enclosure 1