DOCUMENT RELEASE AND CHANGE FORM

Prepared For the U.S. Department of Energy, Assistant Secretary for Environmental Management
By Hanford Tank Waste Operations & Closure LLC, (H2C)
Contractor For U.S. Department of Energy, Hanford Field Office

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Other Approver	Fagundes, Melinda R	*Fagundes, Melinda R*	07/28/2026
Responsible Manager	Judkins, Elizha B	*Judkins, Elizha B*	07/29/2026

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DOE-HFO requires this document to be revised and issued regularly to meet the requirement of DOE O 435.1 to report the tank waste volumes and space utilization by contractors performing work that involves the management of DOE radioactive waste at DOE-owned or leased facilities.

Starting with Revision 460, this report will issued quarterly (four times a year).

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This report is the official inventory for radioactive waste stored in underground tanks in the 200 Areas at the Hanford Site. Data that depict the status of stored radioactive waste and tank vessel integrity are contained within the report. This report provides data on each of the existing 177 large underground waste storage tanks and smaller miscellaneous underground storage tanks (MUST) and special surveillance facilities, and supplemental information regarding tank surveillance anomalies and ongoing investigations. This report is intended to meet the requirement of DOE O 435.1, Radioactive Waste Management, requiring the reporting of tank waste volumes and space utilization by contractors performing work that involves the management of DOE radioactive waste at DOE owned or leased facilities.

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Revision 460

Waste Tank Summary Report for Quarter Ending June 30, 2026

Prepared for the U.S. Department of Energy
Assistant Secretary for Environmental Management

Contractor for the U.S. Department of Energy
Hanford Field Office under Contract No. 89303324DEM000096

Hanford Tank Waste
Operations & Closure

P.O. Box 850
Richland, Washington

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Revision 460

Waste Tank Summary Report for Quarter Ending June 30, 2026

Prepared by

M. J. Rodgers
Hanford Tank Waste Operations & Closure, LLC

Date Published
July 2026

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CONTENTS

1.0 PURPOSE AND SCOPE 1
1.1 Description of Table 1-1 Changes from Last Report 2
2.0 TANK OPERATIONS HIGHLIGHTS 9
2.1 Tank Waste Retrieval Status Highlights 9
2.2 Direct-Feed Low-Activity Waste Status highlights 10
3.0 DOUBLE-SHELL TANKS SUMMARY TABLES 11
4.0 SINGLE-SHELL TANKS SUMMARY TABLES 15
4.1 Leak/Release Volume Estimates 21
4.2 Water Intrusion in Single-Shell Tanks 25
5.0 MISCELLANEOUS UNDERGROUND STORAGE TANKS AND SPECIAL SURVEILLANCE FACILITIES 27
6.0 ENDNOTES AND REFERENCES 35
6.1 Report Endnotes 35
6.2 References 47
7.0 APPENDIX A – GLOSSARY A-1

FIGURES

Figure 1-1. Double-Shell Tank Configuration....3
Figure 1-2. Single-Shell Tank Configuration....3
Figure 1-3. 200 East Area Tank Waste Contents....5
Figure 1-4. 200 West Area Tank Waste Contents....7

TABLES

Table 1-1. Waste Tank Summary – June 30, 2026....2
Table 2-1. Tank Retrieval Status....9
Table 2-2. Tank-Side Cesium Removal Summary Report....10
Table 3-1. Inventory and Status by Tanks – Double-Shell Tanks (2 pages)....11
Table 3-2. Double-Shell Tank Space Allocation, Inventory and Waste Receipts....13
Table 4-1. Inventory and Status by Tanks – Single-Shell Tanks (6 pages)....15
Table 4-2. Single-Shell Tank Leak/Release Volume Estimates (3 pages)....21
Table 4-3. Assumed Leakers Re-evaluated as Sound via the Leak Assessment Process....24
Table 4-4. Double-Shell Tank Leak Volume Estimates....24
Table 4-5. Single-Shell Tanks with Confirmed Water Intrusion (2 pages)....25
Table 4-6. Single-Shell Tanks with Evidence of Recent Water Intrusion....26
Table 5-1. 200 East Area Miscellaneous Underground Storage Tanks and Special Surveillance Facilities (4 pages)....27
Table 5-2. 200 West Area Miscellaneous Underground Storage Tanks and Special Surveillance Facilities (3 pages)....31
Table 6-1. Waste Tank Summary Report Endnotes (11 pages)....35

TERMS

Acronyms and Abbreviations

BBI	best-basis inventory
CAM	continuous air monitor
DCRT	double-contained receiver tank
DE	level decrease evaluation
DIL	drainable interstitial liquid
DOE	U.S. Department of Energy
DNO	did not operate
DST	double-shell tank
Ecology	State of Washington, Department of Ecology
FLA	formal leak assessment
H2C	Hanford Tank Waste Operations & Closure, LLC
HFO	U.S. Department of Energy, Hanford Field Office
HEPA	high-efficiency particulate air
HVAC	heating, ventilation, and air conditioning
IE	level increase evaluation
LOW	liquid observation well
MUST	miscellaneous underground storage tank
ORP	U.S. Department of Energy, Office of River Protection
OSD	operating specifications document
PUREX	plutonium/uranium extraction
R	retrieval (tank in retrieval)
RC	retrieval complete
RCR	retrieval complete – in review
RECUPLEX	recovery of uranium and plutonium by extraction
REDOX	reduction-oxidation
SST	single-shell tank
TMACS	tank monitoring and control system
TSCR	Tank-side cesium removal
TWINS	Tank Waste Information Network System
WAC	Washington Administrative Code
WI	water intrusion
WRPS	Washington River Protection Solutions, LLC
WTP	Waste Treatment and Immobilization Plant
WVR	waste volume reduction

Units

ft	feet
gal	gallon
in.	inch
kgal	thousand gallons
Mgal	million gallons
min	minute
mo.	Month

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1.0 PURPOSE AND SCOPE

This report is the official inventory for radioactive waste stored in underground tanks in the 200 Areas at the Hanford Site. Data that depict the status of stored radioactive waste and tank vessel integrity are contained within the report. This report provides data on each of the existing 177 underground waste storage tanks and smaller miscellaneous underground storage tanks (MUST) and special surveillance facilities, and supplemental information regarding tank surveillance anomalies and ongoing investigations. This report is intended to meet the requirement of DOE O 435.1, *Radioactive Waste Management*, requiring the reporting of tank waste volumes and space utilization by contractors performing work that involves the management of DOE radioactive waste at DOE-owned or leased facilities.

Throughout this report, individual tanks and tank farms are referred to without the “241” preceding the tank/tank farm designator (e.g., Tank 241-C-102 is simply referred to as C-102, and 241-A Tank Farm is referred to as A Farm).

1.1 DESCRIPTION OF TABLE 1-1 CHANGES FROM LAST REPORT

Table 1-1 summarizes the double-shell tank (DST) and single-shell tank (SST) information available in subsequent detailed tables and identifies changes in tank and waste status that have occurred during the report period. All table endnotes are included in Section 6.1.

Table 1-1. Waste Tank Summary – June 30, 2026

	Total Waste Stored in DSTs and SSTs (millions of gallons)								
All DSTs & SSTs	**1 year ago**			**3 months ago**			**Current**		
	54.9			55.4			55.4		
Double-shell tanks	**Sound DSTs**			**DSTs with Primary Tank Leak[1]**			**DSTs with Secondary Tank Leak**		
	1 year ago	3 mo. ago	Current	1 year ago	3 mo. ago	Current	1 year ago	3 mo. ago	Current
	27	27	27	1	1	1	0	0	0
	DST Storage Capacity (Mgal)			**Waste Stored in DSTs (Mgal)**			**Available DST Storage Space (Mgal)**		
	1 year ago	3 mo. ago	Current	1 year ago	3 mo. ago	Current	1 year ago	3 mo. ago	Current
	31.6	31.6	31.6	26.9	27.5	27.6	1.9	0.7	0.6
Single-shell tanks	**Sound SSTs**			**Non-Retrieved Assumed Leaker SSTs**			**Retrieved Assumed Leaker SSTs**		
	1 year ago	3 mo. ago	Current	1 year ago	3 mo. ago	Current	1 year ago	3 mo. ago	Current
	92	92	92	51	51	51	6	6	6
	Total Waste Stored in SSTs (Mgal)			**SSTs in Formal Leak Assessment**			**SSTs with Intrusions**		
	1 year ago	3 mo. ago	Current	1 year ago	3 mo. ago	Current	1 year ago	3 mo. ago	Current
	28.0	27.9	27.9	0	0	0	38	38	40
	SSTs in Retrieval[4]			**SST Retrieval Operations Complete[5]**					
	1 year ago	3 mo. ago	Current	1 year ago	3 mo. ago	Current			
	2	3	3	20	21	21			

DST = double-shell tank. SST = single-shell tank.

Changes in the tank waste summaries listed in Table 1-1 from the previous revision of this report are summarized below.

- Retrieval of SSTs A-102 and A-106 into AP-101 and water added into AW-102 for level rise testing increased total waste stored in the DSTs from 27,509 kgal (27.5 Mgal) to 27,579 kgal (27.6 Mgal). These actions reduced available space in non-restricted DSTs from 745 kgal (0.7 Mgal) to 646 kgal (0.6 Mgal).
- Total waste stored in the tanks is now 55,447 kgal (55.4 Mgal).
- Technical evaluations RPP-TE-65850 and RPP-TE-65851 concluded that there was evidence of water intrusion in SSTs BX-102 and BX-106, raising the total number of intrusion tanks to 40.

Illustrations of the DST and SST configurations are shown in Figure 1-1 and Figure 1-2, respectively. Figure 1-3 and Figure 1-4 summarize the 200 East Area and 200 West Area tank contents by tank farm.

Figure 1-1. Double-Shell Tank Configuration

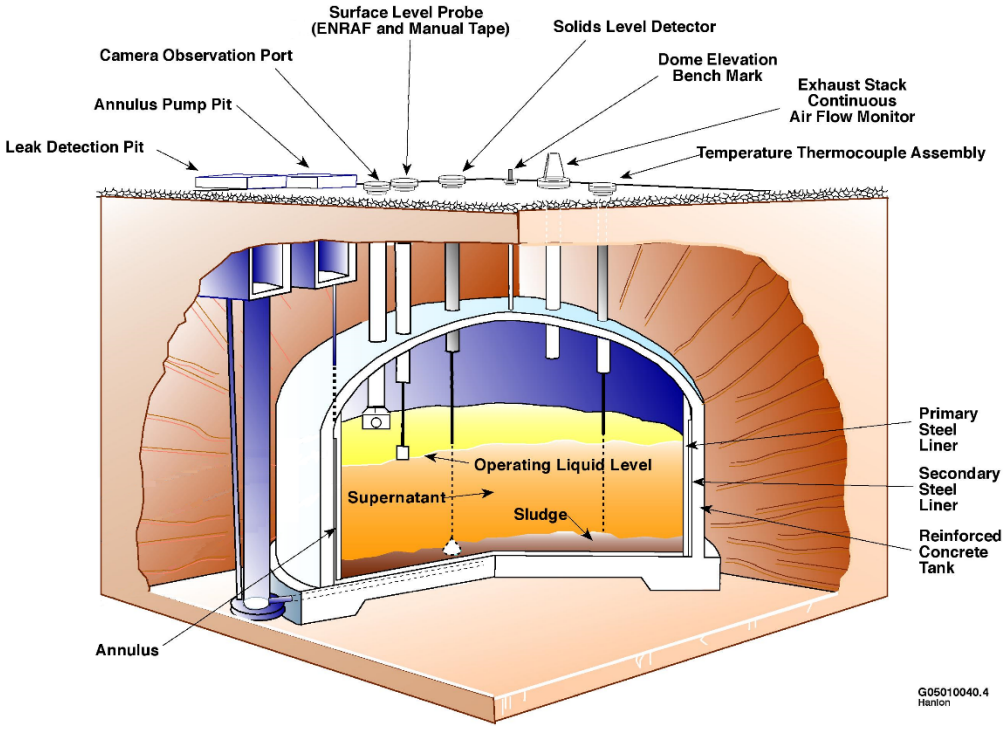

Figure 1-2. Single-Shell Tank Configuration

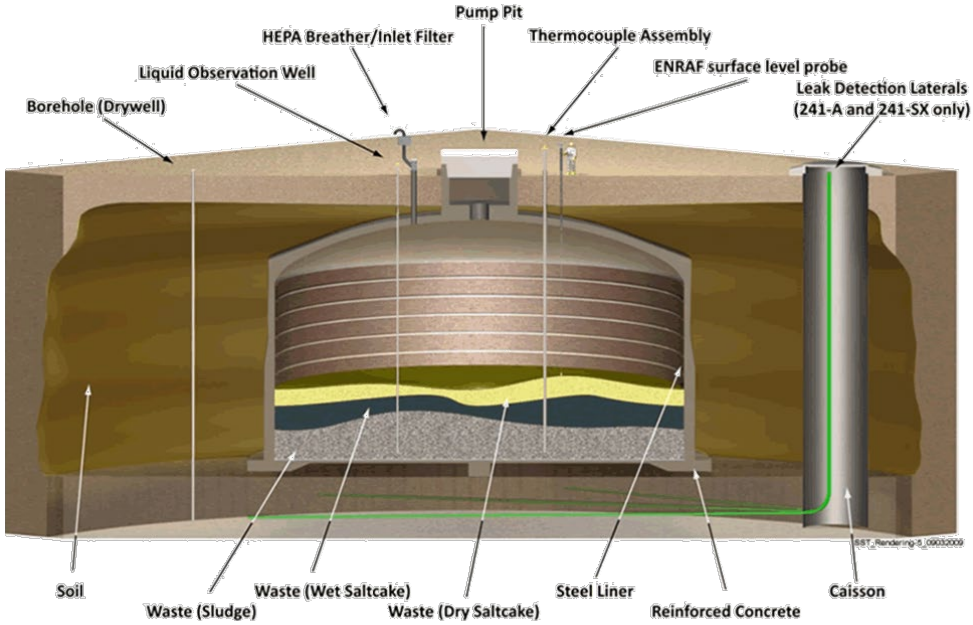

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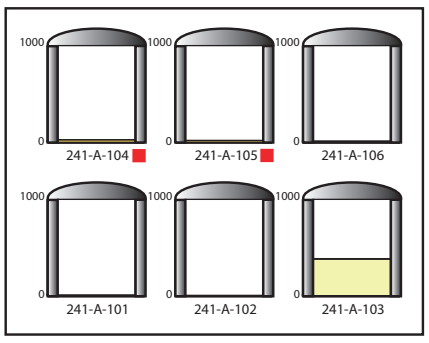
Figure 1-3. 200-East Tank Waste Contents

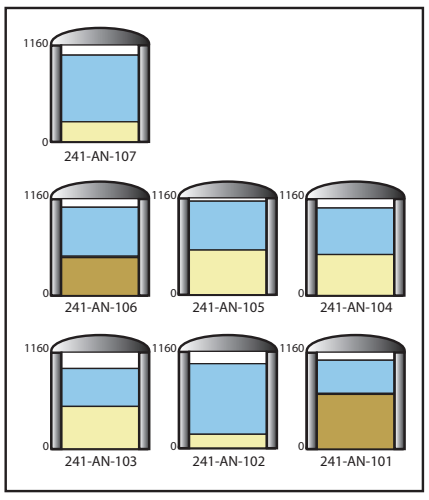
A-Tank Farm- Constructed 1953-1955
6 @ 1,000 Kgal Tank Capacity, Single-Shell

Tank	Kgal Sludge	Saltcake	Supernatant
241-A-101	3	7	0
241-A-102	1.4	5.4	0.3
241-A-103	2	380	2
241-A-104 ■	28	0	0
241-A-105 ■	20	0	0
241-A-106	4.2	2.1	7.2



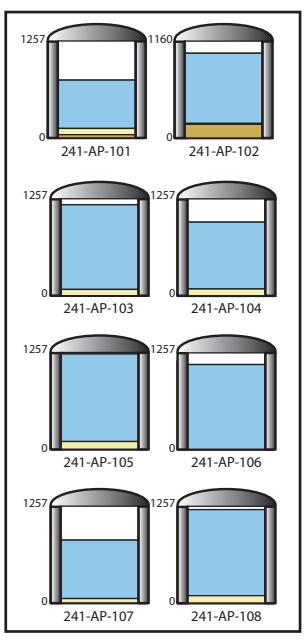
AN-Tank Farm- Constructed 1977-1980
7 @ 1,160 Kgal Tank Capacity, Double-Shell

Tank	Kgal Sludge	Saltcake	Supernatant
241-AN-101	654	12	397
241-AN-102	0	167	845
241-AN-103	0	510	454
241-AN-104	0	491	557
241-AN-105	0	535	585
241-AN-106	454	17	586
241-AN-107	0	240	798



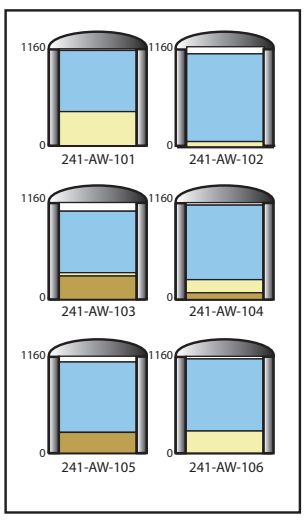
AP-Tank Farm- Constructed 1982-1986
1 @ 1,160 Kgal Tank Capacity, Double-Shell
7 @ 1,257 Kgal Tank Capacity, Double-Shell

Tank	Kgal Sludge	Saltcake	Supernatant
241-AP-101	42	81	627
241-AP-102	165	10	840
241-AP-103	0	81	1098
241-AP-104	0	88	867
241-AP-105	0	102	1136
241-AP-106	0	0	1105
241-AP-107	0	59	758
241-AP-108	0	98	1116



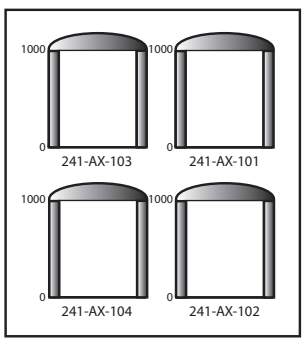
AW-Tank Farm- Constructed 1976-1980
6 @ 1,160 Kgal Tank Capacity, Double-Shell

Tank	Kgal Sludge	Saltcake	Supernatant
241-AW-101	0	408	732
241-AW-102	0	66	1050
241-AW-103	280	40	736
241-AW-104	81	157	892
241-AW-105	248	0	843
241-AW-106	0	266	863



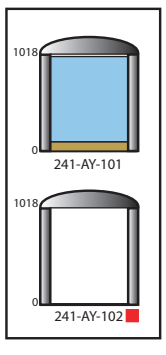
AX-Tank Farm- Constructed 1963-1965
4 @ 1,000 Kgal Tank Capacity, Single-Shell

Tank	Kgal Sludge	Saltcake	Supernatant
241-AX-101	7.2	0	0
241-AX-102	2.9	0	0
241-AX-103	5.9	0	0
241-AX-104	5.1	0	0



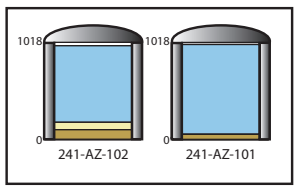
AY-Tank Farm- Constructed 1968-1970
2 @ 1,018 Kgal Tank Capacity, Double-Shell

Tank	Kgal Sludge	Saltcake	Supernatant
241-AY-101	95	0	897
241-AY-102 ■	8	0	2



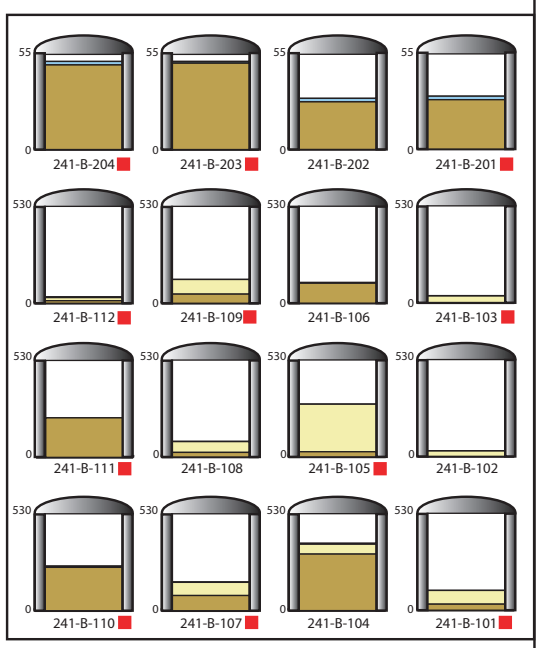
AZ-Tank Farm- Constructed 1970-1974
2 @ 1,018 Kgal Tank Capacity, Double-Shell

Tank	Kgal Sludge	Saltcake	Supernatant
241-AZ-101	53	0	943
241-AZ-102	100	78	804



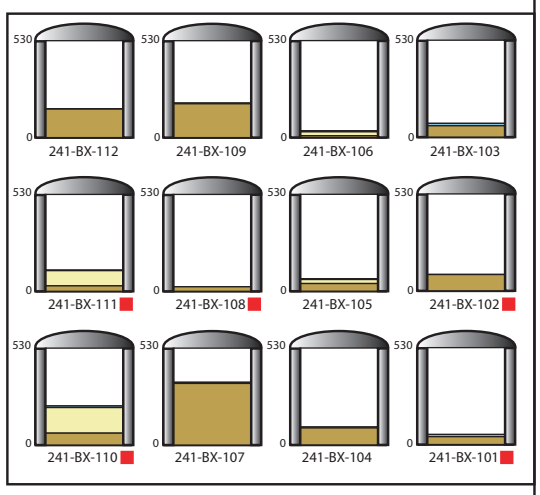
B-Tank Farm- Constructed 1943-1944
12 @ 530 Kgal Tank Capacity, Single-Shell
4 @ 55 Kgal Tank Capacity, Single-Shell

Tank	Kgal Sludge	Saltcake	Supernatant
241-B-101 ■	33	75	0
241-B-102	0	30	1
241-B-103 ■	1	36	2
241-B-104	309	54	5
241-B-105 ■	28	260	0
241-B-106	109	0	4
241-B-107 ■	83	72	1
241-B-108	25	59	1
241-B-109 ■	50	80	0
241-B-110 ■	237	0	7
241-B-111 ■	216	0	1
241-B-112 ■	14	17	4
241-B-201 ■	28	0	2
241-B-202	27	0	2
241-B-203 ■	49	0	1
241-B-204 ■	48	0	2



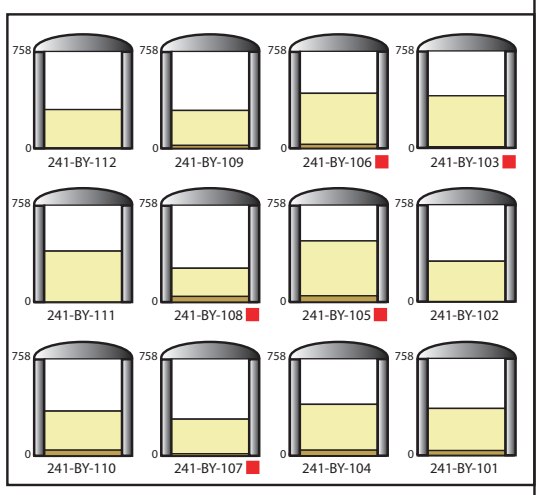
BX- Tank Farm- Constructed 1946-1947
12 @ 530 Kgal Tank Capacity, Single-Shell

Tank	Kgal Sludge	Saltcake	Supernatant
241-BX-101 ■	43	0	12
241-BX-102 ■	89	0	0
241-BX-103	62	0	13
241-BX-104	93	0	5
241-BX-105	42	22	4
241-BX-106	10	21	6
241-BX-107	337	0	6
241-BX-108 ■	25	0	0
241-BX-109	185	0	4
241-BX-110 ■	65	140	9
241-BX-111 ■	30	83	3
241-BX-112	156	0	1



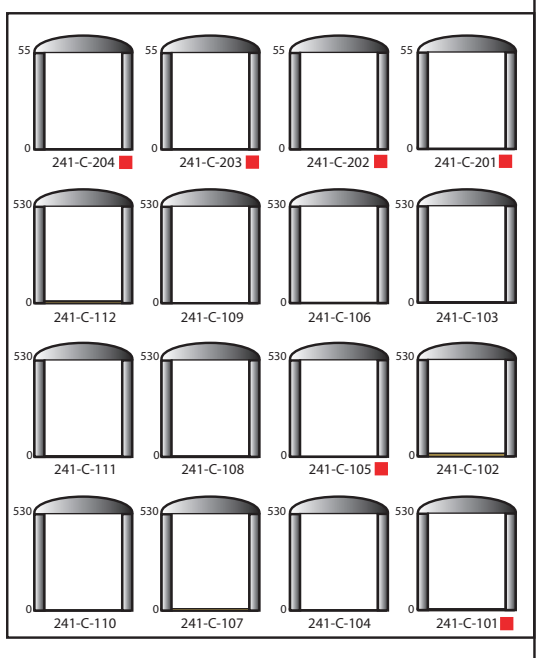
BY-Tank Farm- Constructed 1948-1949
12 @ 758 Kgal Tank Capacity, Single-Shell

Tank	Kgal Sludge	Saltcake	Supernatant
241-BY-101	37	329	0
241-BY-102	0	315	0
241-BY-103 ■	9	398	1
241-BY-104	43	358	0
241-BY-105 ■	48	429	0
241-BY-106 ■	30	399	0
241-BY-107 ■	16	270	0
241-BY-108 ■	44	220	0
241-BY-109	23	273	0
241-BY-110	44	305	0
241-BY-111	0	398	0
241-BY-112	2	301	0



C-Tank Farm- Constructed 1943-1944
12 @ 530 Kgal Tank Capacity, Single-Shell
4 @ 55 Kgal Tank Capacity, Single-Shell

Tank	Kgal Sludge	Saltcake	Supernatant
241-C-101 ■	5.5	0	0
241-C-102	15.5	0	0
241-C-103	2.3	0	0.2
241-C-104	1.9	0	0
241-C-105 ■	1.5	0	0
241-C-106	2.4	0	0
241-C-107	10	0	0
241-C-108	3.4	0	0
241-C-109	2	0	0
241-C-110	2.1	0	0
241-C-111	4.9	0	0
241-C-112	10	0	0
241-C-201 ■	0.1	0	0.2
241-C-202 ■	0.1	0	0.2
241-C-203 ■	0.1	0	0.2
241-C-204 ■	0.1	0	0.1



LEGEND

Sludge Saltcake Supernatant Assumed Leaker ■

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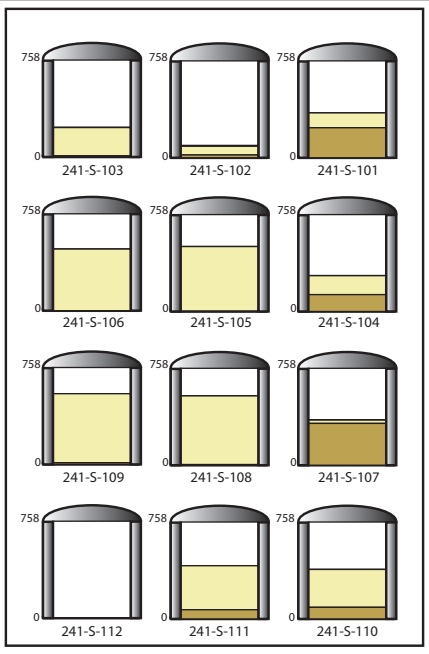
H2C Hanford Tank Waste Operations & Closure

Figure 1-4. 200-West Tank Waste Contents

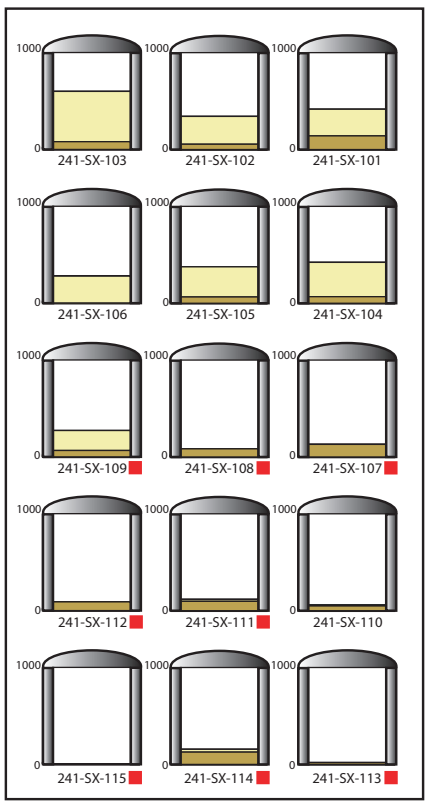
S-Tank Farm- Constructed 1950-1951
12 @ 758 Kgal Tank Capacity, Single-Shell

Tank	Kgal Sludge	Saltcake	Supernatant
241-S-101	235	116	0
241-S-102	22	68	6
241-S-103	9	221	1
241-S-104	132	148	1
241-S-105	2	506	0
241-S-106	0	482	0
241-S-107	327	26	2
241-S-108	5	537	0
241-S-109	13	540	0
241-S-110	91	296	0
241-S-111	72	344	0
241-S-112	2.5	0	0



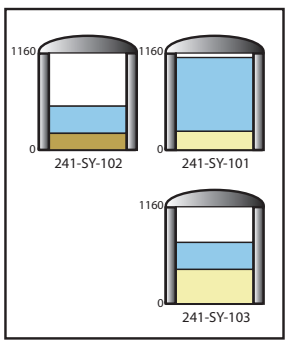
SX-Tank Farm- Constructed 1953-1955
15 @ 1,000 Kgal Tank Capacity, Single-Shell

Tank	Kgal Sludge	Saltcake	Supernatant
241-SX-101	141	275	0
241-SX-102	55	287	0
241-SX-103	80	519	0
241-SX-104	68	354	0
241-SX-105	65	311	0
241-SX-106	0	279	2
241-SX-107 ■	130	0	0
241-SX-108 ■	84	0	0
241-SX-109 ■	66	206	0
241-SX-110	49	10	0
241-SX-111 ■	97	20	0
241-SX-112 ■	90	0	0
241-SX-113 ■	19	0	0
241-SX-114 ■	127	29	0
241-SX-115 ■	4	0	0



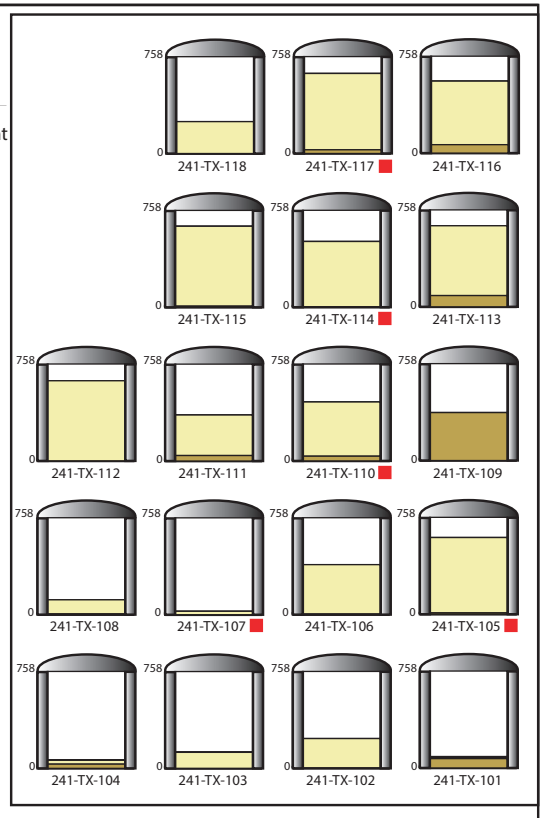
SY-Tank Farm- Constructed 1974-1976
3 @ 1,160 Kgal Tank Capacity, Double-Shell

Tank	Kgal Sludge	Saltcake	Supernatant
241-SY-101	0	223	883
241-SY-102	197	0	326
241-SY-103	0	410	323



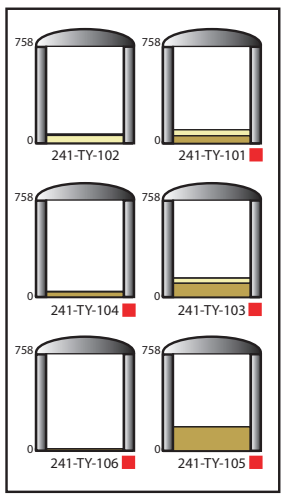
TX-Tank Farm- Constructed 1947-1948
18 @ 758 Kgal Tank Capacity, Single-Shell

Tank	Kgal Sludge	Saltcake	Supernatant
241-TX-101	73	9	7
241-TX-102	2	231	0
241-TX-103	0	126	2
241-TX-104	33	30	3
241-TX-105 ■	11	589	0
241-TX-106	5	386	0
241-TX-107 ■	0	27	0
241-TX-108	6	110	1
241-TX-109	375	0	0
241-TX-110 ■	37	424	0
241-TX-111	43	317	0
241-TX-112	0	627	0
241-TX-113	88	546	0
241-TX-114 ■	4	510	0
241-TX-115	9	625	0
241-TX-116	66	497	0
241-TX-117 ■	29	597	0
241-TX-118	0	250	0



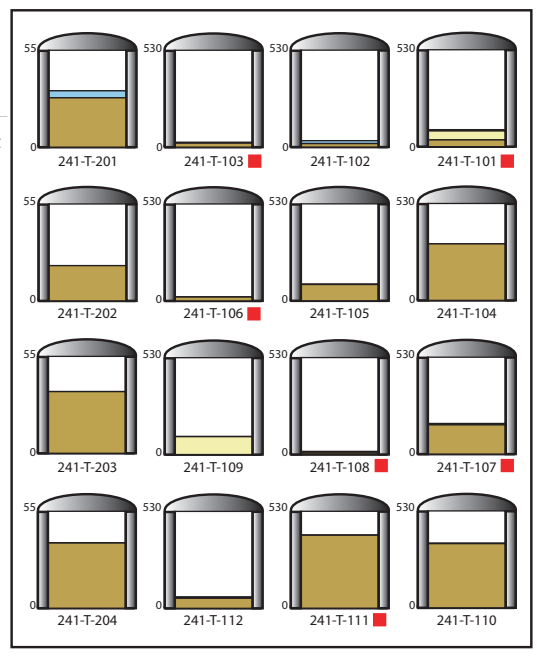
TY-Tank Farm- Constructed 1951-1952
6 @ 758 Kgal Tank Capacity, Single-Shell

Tank	Kgal Sludge	Saltcake	Supernatant
241-TY-101 ■	59	47	0
241-TY-102	0	61	10
241-TY-103 ■	108	40	0
241-TY-104 ■	39	0	4
241-TY-105 ■	187	0	0
241-TY-106 ■	13	0	0



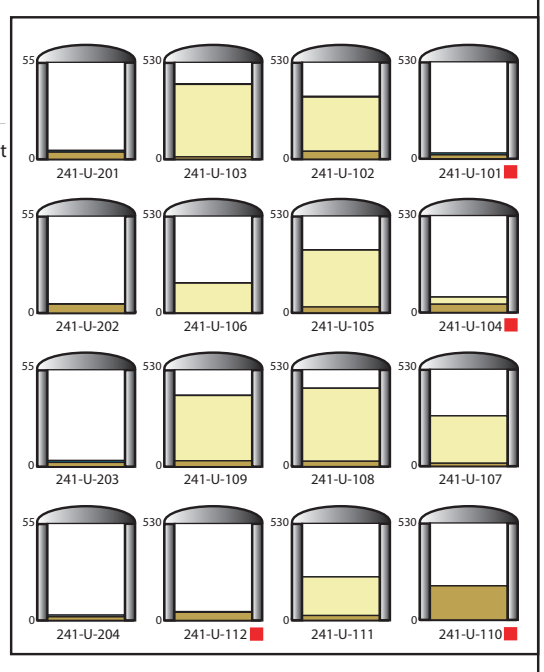
T-Tank Farm- Constructed 1943-1944
12 @ 530 Kgal Tank Capacity, Single-Shell
4 @ 55 Kgal Tank Capacity, Single-Shell

Tank	Kgal Sludge	Saltcake	Supernatant
241-T-101 ■	37	49	7
241-T-102	19	0	16
241-T-103 ■	22	0	4
241-T-104	309	0	0
241-T-105	89	0	1
241-T-106 ■	21	0	0
241-T-107 ■	160	0	7
241-T-108 ■	8	8	0
241-T-109	0	98	1
241-T-110	351	0	2
241-T-111 ■	399	0	0
241-T-112	55	0	7
241-T-201	28	0	4
241-T-202	20	0	0
241-T-203	35	0	0
241-T-204	37	0	0



U-Tank Farm- Constructed 1943-1944
12 @ 530 Kgal Tank Capacity, Single-Shell
4 @ 55 Kgal Tank Capacity, Single-Shell

Tank	Kgal Sludge	Saltcake	Supernatant
241-U-101 ■	21	0	10
241-U-102	43	296	4
241-U-103	13	396	3
241-U-104 ■	45	39	0
241-U-105	32	311	2
241-U-106	0	163	2
241-U-107	16	259	0
241-U-108	29	399	0
241-U-109	32	357	1
241-U-110 ■	186	0	0
241-U-111	26	211	0
241-U-112 ■	44	0	4
241-U-201	4	0	1
241-U-202	5	0	0.3
241-U-203	2.4	0	1.1
241-U-204	2	0	1



LEGEND

Sludge Saltcake Supernatant Assumed Leaker ■

M. J. Rodgers
Data Derived From Waste Tank Summary Report Dated 6/30/2026

H2C Hanford Tank Waste Operations & Closure

2.0 TANK OPERATIONS HIGHLIGHTS

2.1 TANK WASTE RETRIEVAL STATUS HIGHLIGHTS

The waste retrieval status of Hanford DSTs and SSTs is summarized in Table 2-1.

Table 2-1. Tank Retrieval Status

Tank (241-)	Status[5]	Comments	Nominal Volume of Remaining Waste[8] (kgal)	Notes (see Section 6.1)
A-101	Ongoing	Retrieval in progress – retrieval initiated 7/19/2024	10.4	(124)
A-102	Ongoing	Retrieval operations halted while evaluation to certify completion is underway – retrieval initiated 1/30/2025	7.1	(127)
A-106	Ongoing	Retrieval in progress – retrieval initiated 1/23/2026	13.5	(129)
AX-101	Complete	Declared “Retrieval Completed,” 10/14/2025	7.2	(5)(121)
AX-102	Complete	Declared “Retrieval Completed,” 9/13/2021	2.9	(5)(110)
AX-103	Complete	Declared “Retrieval Completed,” 1/17/2023	5.9	(5)(116)
AX-104	Complete	Declared “Retrieval Completed,” 9/29/2022	5.1	(5)(113)
AY-102	Complete	Declared “Retrieved to Limit of First and Second Retrieval Technologies,” 2/15/2017	10.0	(5)(90)
C-101	Complete	Declared “Retrieval Completed,” 9/24/2014	5.5	(5)(9)
C-102	Complete	Declared “Retrieval Completed,” 11/30/2015	15.5	(5)(10)
C-103	Complete	Declared “Retrieval Completed,” 8/23/2006	2.5	(5)(11)
C-104	Complete	Declared “Retrieval Completed,” 8/17/2012	1.9	(5)(12)
C-105	Complete	Declared “Retrieval Completed,” 6/28/2018	1.5	(5)(13)
C-106	Complete	Declared “Retrieval Completed,” 12/31/2003	2.4	(5)(14)
C-107	Complete	Declared “Retrieval Completed,” 9/30/2014	10.0	(5)(15)
C-108	Complete	Declared “Retrieval Completed,” 5/1/2013	3.4	(5)(16)
C-109	Complete	Declared “Retrieval Completed,” 6/4/2013	2.0	(5)(17)
C-110	Complete	Declared “Retrieval Completed,” 10/30/2013	2.1	(5)(18)
C-111	Complete	Declared “Retrieval Completed,” 8/29/2016	4.9	(5)(19)
C-112	Complete	Declared “Retrieval Completed,” 5/29/2014	10.0	(5)(20)
C-201	Complete	Declared “Retrieval Completed,” 3/23/2006	0.37	(5)(21)
C-202	Complete	Declared “Retrieval Completed,” 8/11/2005	0.35	(5)(22)
C-203	Complete	Declared “Retrieval Completed,” 3/24/2005	0.35	(5)(23)
C-204	Complete	Declared “Retrieval Completed,” 12/11/2006	0.14	(5)(24)
S-112	Complete	Declared “Retrieval Completed,” 3/2/2007	2.5	(5)(25)

2.2 DIRECT-FEED LOW-ACTIVITY WASTE STATUS HIGHLIGHTS

The Tank-Side Cesium Removal (TSCR) system did not operate in the second quarter of calendar year 2026.

The TSCR Low-Activity Waste processing status for the last campaign is summarized below in Table 2-2.

Table 2-2. Tank-Side Cesium Removal Summary Report

Campaign Summary	Campaign 02
Campaign Start Date/Time	11/5/25 4:57 PM
Report Date/Time	2/25/26 4:00 PM
Total Campaign Feed Volume from AP-107 (gallons)	426,081
Total Campaign Effluent to AP-106 (gallons)	423,728
Feed in AP-107 at Start of Campaign (gallons)	1,112,363
Available Feed Remaining in AP-107 (gallons)	684,950
Waste Stored in AP-106 (gallons)	1,185,967
Available Volume Remaining in AP-106 (gallons)¥	60,533
Percent Completed for this Campaign[a]	38%
Batch Summary (Total Prior to Column Changeout)	**Batch 2**
Batch Start Date/Time	1/26/26 12:19 AM
Total Predicted Batch Feed Volume from AP-107 (gallons)[b]	212,000
Total Actual Feed from AP-107 (gallons)	217,929
Total Actual Effluent to AP-106 (gallons)	217,064
Estimated TSCR Batch Completed (percent)	102%

[a] The TSCR campaign will likely be declared complete prior to processing all the available AP-107 feed so that the ion exchange column changeout can commence when operationally required (i.e., when the gamma monitors indicate the end of a batch).

[b] This volume estimates total batch volume predicted from modeling data but will be limited by breakthrough. A batch is the volume fed from AP-107 and through the lead/lag/polish columns between column changeout cycles.

3.0 DOUBLE-SHELL TANKS SUMMARY TABLES

The DST waste inventory and tank status are summarized in Table 3-1. DST space allocation, inventory, and waste receipts are summarized in Table 3-2.

Table 3-1. Inventory and Status by Tanks – Double-Shell Tanks (2 pages)

All volume data obtained from Tank Waste Information Network System (TWINS) (Hanford Information System Inventory [HISI] #481 and #4621)

Tank (241-)	Tank Integrity	Tank Level (in.)	Total Waste (kgal)	Waste volumes			Solids Volume Update
				Supernatant Liquid (kgal)	Sludge (kgal)	Saltcake (kgal)	
AN Farm Status							
AN-101	Sound	387	1063	397	654	12	4/1/2025
AN-102	Sound	368	1012	845	0	167	7/1/2023
AN-103	Sound	351	964	454	0	510	4/1/2025
AN-104	Sound	381	1048	557	0	491	10/1/2016
AN-105	Sound	407	1120	585	0	535	4/1/2025
AN-106	Sound	384	1057	586	454	17	1/1/2026
AN-107	Sound	378	1038	798	0	240	5/1/2023
7 tanks – Total			**7,302**	**4,222**	**1,108**	**1,972**	
AP Farm Status							
AP-101	Sound	273	750	627	42	81	6/30/2026
AP-102	Sound	369	1015	840	165	10	1/1/2026
AP-103	Sound	429	1179	1098	0	81	10/1/2025
AP-104	Sound	347	955	867	0	88	4/1/2026
AP-105	Sound	450	1238	1136	0	102	8/1/2024
AP-106	Sound	402	1105	1105	0	0	4/1/2026
AP-107	Sound	297	817	758	0	59	4/1/2026
AP-108	Sound	442	1214	1116	0	98	4/1/2026
8 tanks – Total			**8,273**	**7,547**	**207**	**519**	
AW Farm Status							
AW-101	Sound	415	1140	732	0	408	10/1/2025
AW-102	Sound	406	1116	1050	0	66	4/1/2026
AW-103	Sound	384	1056	736	280	40	1/1/2026
AW-104	Sound	411	1130	892	81	157	7/1/2024
AW-105	Sound	397	1091	843	248	0	11/1/2024
AW-106	Sound	411	1129	863	0	266	10/1/2025
6 tanks – Total			**6,662**	**5,116**	**609**	**937**	

Table 3-1. Inventory and Status by Tanks – Double-Shell Tanks (2 pages)

All volume data obtained from Tank Waste Information Network System (TWINS) (Hanford Information System Inventory [HISI] #481 and #4621)

Tank (241-)	Tank Integrity	Tank Level (in.)	Total Waste (kgal)	Waste volumes			Solids Volume Update
				Supernatant Liquid (kgal)	Sludge (kgal)	Saltcake (kgal)	
AY Farm Status							
AY-101	Sound	361	992	897	95	0	1/14/2026
AY-102	Assumed leaker; primary tank	N/A [a]	10 [a]	2	8	0	1/1/2023
2 tanks – Total			**1002**	**899**	**103**	**0**	
AZ Farm Status							
AZ-101	Sound	362	996	943	53	0	8/5/2025
AZ-102	Sound	357	982	804	100	78	2/1/2026
2 tanks – Total			**1,978**	**1,747**	**153**	**78**	
SY Farm Status							
SY-101	Sound	402	1106	883	0	223	1/1/2026
SY-102	Sound	190	523	326	197	0	1/1/2026
SY-103	Sound	267	733	323	0	410	1/1/2024
3 tanks – Total			**2,362**	**1,532**	**197**	**633**	

Notes:
1 kgal differences are the result of computer rounding.
Supernatant + sludge (includes liquid) + saltcake (includes liquid) = total waste.
Tanks AN-103, AN-104, AN-105, AW-101, SY-101, and SY-103 contain retained gas in the saltcake.
The Solids Volume Update is the date of the most recent BBI estimate or for tanks undergoing retrieval, it is the date of the most recent engineering volume estimate.
[a] AY-102 tank level and total waste volumes updated to reflect AY-102 status as an assumed leaker. The tank level is Not Applicable (N/A), the Enraf® is out of service, the surface of the waste is not uniform and therefore the Enraf® is not providing accurate measurements. The Total Waste for AY-102 in this table does not include the waste in the annulus.

Table 3-2. Double-Shell Tank Space Allocation, Inventory and Waste Receipts

Total DST Capacity (kgal)	Total DST Waste Inventory (kgal)		Allocation of Remaining DST Space (kgal)	
31,624	Inventory on 6/30/2026 =	27,579	Total DST capacity[a] =	31,624
	Inventory on 3/31/2026 =	27,509	Waste inventory =	-27,579
	Change =	70	Restricted usage space[b] =	-2,134
			Emergency space allocation[c] =	-1,265
			Available space[d] =	646

[a] Assumes maximum authorized limits per OSD-T-151-00007, *Operating Specifications for the Double-Shell Storage Tanks*: AN, AW, SY Farm = 422 in., AP Farm = 458 in., except Tank AP-102 = 422 in.; AY-101 and AZ Farms = 370 in. Volumes at maximum authorized limit from RPP-CALC-33163, *Tank Waste Volume and Level Calculations in Dome Space for 241-AP Tank Farm Up to 460 Inches*, and RPP-13019, *Determination of Hanford Waste Tank Volumes*.

[b] Restricted space associated with flammable gas Waste Group A (RPP-10006, *Methodology and Calculations for the Assignment of Waste Groups for the Large Underground Waste Storage Tanks at the Hanford Site*) and tanks controlled per feed control list (HNF-SD-WM-OCD-015, *Tank Farms Waste Transfer Compatibility Program*). These tanks are Tanks AN-102, AN-103, AN-104, AN-105, AN-107, AP-102, AP-104, AP-105, AP-106, AP-107, AP-108, AW-101, AY-102, AZ-102, and SY-103.

[c] Includes 1,265 kgal emergency space allocation (HNF-SD-WM-OCD-015).

[d] The definition of "Available Space" does not include space restricted by current operational limitations

Facility Generations (kgal)		Gains Associated With (kgal)		Reductions Associated With (kgal)	
Tank farms	67	AZ-301 condensate	4	Transfers to WTP	69
242-A Evaporator[i]	25	Instrumentation[e]	4	Instrumentation[e]	0
Caustic Additions	0	Miscellaneous[f]	0	Miscellaneous[f]	0
SST Retrieval[g]	69	Thermal expansion[h]	4	Waste evaporation	34
TSCR Operations[j]	0				
Total =	161	Total =	12	Total =	103

DST Net Waste Inventory Change					
Date	Facility Generation (kgal)	Gains (kgal)	Reductions (kgal)	Net waste Volume Change (kgal)	Total DST Waste Inventory (kgal)
6/2026	161	12	103	70	27,579

[e] Adjustments due to instrumentation including recalibrations and/or instrument flushing.

[f] Adjustments for gas retention and release from Waste Group A tanks.

[g] A negative value for a retrieval number indicates the net total of retrieval and pumping of supernatant liquid back into the SST for soak of hard-heel solids.

[h] Adjustments for thermal expansion of liquids inside tanks.

[i] Evaporator gains include additions of pump seal water, slurry, and condensate.

[j] TSCR Operations include the net total of waste feed streams out of and treated waste back into the DSTs.

DST = double-shell tank.
SST = single-shell tank.
WTP = Waste Treatment and Immobilization Plant.
WVR = waste volume reduction.

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4.0 SINGLE-SHELL TANKS SUMMARY TABLES

The SST waste inventory and tank status are summarized in Table 4-1.

Table 4-1. Inventory and Status by Tanks – Single-Shell Tanks (6 pages)

All volume data obtained from Tank Waste Information Network System (TWINS)

Tank (241-)	Tank Integrity	Table 1-1 Tank Status	Total Waste (kgal)[a]	Drainable Interstitial Liquid (kgal)[108]	Waste Volumes[26]			Solids Volume Update[89]
					Supernatant Liquid (kgal)	Sludge (kgal)	Saltcake (kgal)	
A Farm Status								
A-101[27]	Sound	R	10[124]		Retrieval in Progress			10/1/2025
A-102	Sound	R, WI	7.1[127]		Retrieval in Progress			5/1/2026
A-103[28]	Sound		384	87	1	2	380	1/1/2026
A-104	Assumed leaker		28	0	0	28	0	7/1/2022
A-105	Assumed leaker		20	0	0	20	0	4/1/2020
A-106	Sound	R	13.5[129]		Retrieval in Progress			6/30/2026
6 tanks – Total			**462.6**		**9.6**	**58.5**	**394.5**	
AX Farm Status								
AX-101	Sound	RC	7.2		Retrieval completed 10/14/2025[5]			10/1/2025
AX-102	Sound	RC	2.9		Retrieval completed 9/13/2021[5]			7/1/2025
AX-103	Sound	RC	5.9		Retrieval completed 1/17/2023[5]			4/1/2023
AX-104	Sound	RC	5.1		Retrieval completed 9/29/2022[5]			4/1/2022
4 tanks – Total			**21.1**		**0**	**21.1**	**0**	
B Farm Status								
B-101	Assumed leaker		108	18	0	33	75	10/1/2024
B-102	Sound		31	5.7	1	0	30	4/1/2022
B-103	Assumed leaker	WI	39	8.3	2	1	36	1/1/2023
B-104	Sound		369[a]	58	5	309	54	1/1/2025
B-105	Assumed leaker		288	18	0	28	260	7/1/2023
B-106	Sound		113	12	4	109	0	10/1/2021
B-107	Assumed leaker		156	20	1	83	72	1/1/2025
B-108	Sound		86[a]	15	1	25	59	1/1/2022
B-109	Assumed leaker		130	13	0	50	80	4/1/2025
B-110	Assumed leaker		244	33	7	237	0	2/1/2020
B-111	Assumed leaker		217	29	1	216	0	7/1/2024
B-112	Assumed leaker	WI	35	4.2	4	14	17	2/1/2022
B-201	Assumed leaker	WI	30	4.2	2	28	0	1/1/2025
B-202	Sound	WI	29	4.1	2	27	0	10/1/2024
B-203	Assumed leaker		50	7.7	1	49	0	10/1/2024
B-204	Assumed leaker		50	7.6	2	48	0	10/1/2024
16 tanks – Total			**1,975**		**33**	**1,257**	**683**	

Table 4-1. Inventory and Status by Tanks – Single-Shell Tanks (6 pages)

All volume data obtained from Tank Waste Information Network System (TWINS)

Tank (241-)	Tank Integrity	Table 1-1 Tank Status	Total Waste (kgal)[a]	Drainable Interstitial Liquid (kgal)[108]	Waste Volumes[26]			Solids Volume Update[89]
					Supernatant Liquid (kgal)	Sludge (kgal)	Saltcake (kgal)	
BX Farm Status								
BX-101	Assumed leaker	WI	55	0.3	12	43	0	4/1/2024
BX-102	Assumed leaker	WI	89	0	0	89	0	8/1/2019
BX-103	Sound	WI	75	3.4	13	62	0	1/1/2023
BX-104	Sound	WI	98	8.6	5	93	0	7/1/2024
BX-105	Sound		68	6.0	4	42	22	7/1/2021
BX-106	Sound	WI	37	6.4	6	10	21	4/1/2025
BX-107	Sound	WI	343	39	6	337	0	7/1/2020
BX-108	Assumed leaker		25	0	0	25	0	11/1/2022
BX-109	Sound		189	29	4	185	0	10/1/2020
BX-110	Assumed leaker	WI	214	36	9	65	140	3/1/2023
BX-111	Assumed leaker		116	16	3	30	83	4/1/2024
BX-112	Sound		157	10	1	156	0	11/1/2020
12 tanks – Total			**1,466**		**63**	**1,137**	**266**	
BY Farm Status								
BY-101	Sound		366	37	0	37	329	4/1/2024
BY-102	Sound	WI	315	44	0	0	315	4/1/2024
BY-103	Assumed leaker	WI	408	66	1	9	398	1/1/2022
BY-104	Sound		401	42	0	43	358	4/1/2022
BY-105	Assumed leaker	WI	477	51	0	48	429	7/1/2020
BY-106	Assumed leaker		429	54	0	30	399	8/1/2016
BY-107	Assumed leaker		286	37	0	16	270	4/1/2022
BY-108	Assumed leaker		264	27	0	44	220	4/1/2025
BY-109	Sound	WI	296	83	0	23	273	2/1/2022
BY-110	Sound		349	27	0	44	305	7/1/2024
BY-111	Sound		398	41	0	0	398	1/1/2024
BY-112	Sound		303	21	0	2	301	7/1/2022
12 Tanks – Total			**4,292**		**1**	**296**	**3,995**	

Table 4-1. Inventory and Status by Tanks – Single-Shell Tanks (6 pages)

All volume data obtained from Tank Waste Information Network System (TWINS)

Tank (241-)	Tank Integrity	Table 1-1 Tank Status	Total Waste (kgal)[a]	Drainable Interstitial Liquid (kgal)[108]	Waste Volumes[26]			Solids Volume Update[89]
					Supernatant Liquid (kgal)	Sludge (kgal)	Saltcake (kgal)	
C Farm Status								
C-101	Assumed leaker	RC	5.5	Retrieved to limit of first and second retrieval technologies 9/25/2013[9]				10/1/2023
C-102	Sound	RC	15.5	Retrieval completed 11/30/2015[10]				1/1/2023
C-103	Sound	RC	2.5	Retrieval completed 8/23/2006[11]				1/1/2023
C-104	Sound	RC	1.9	Retrieval completed 8/17/2012[12]				7/1/2023
C-105[29]	Assumed leaker	RC	1.5	Retrieval completed 6/28/2018[13]				7/1/2023
C-106	Sound	RC	2.4	Retrieval completed 12/31/2003[14]				10/1/2023
C-107	Sound	RC	10.0	Retrieved to limit of third retrieval technology 9/30/14[15]				7/1/2023
C-108	Sound	RC	3.4	Retrieved to limit of modified sluicing technology 3/22/2012[16]				7/1/2023
C-109	Sound	RC	2.0	Retrieved to limit of modified sluicing technology 9/12/2012[17]				7/1/2023
C-110[30]	Sound	RC	2.1	Retrieval completed 10/30/13[18]				10/1/2024
C-111[31]	Sound	RC	4.9	Retrieval completed 8/29/2016[19]				10/1/2023
C-112	Sound	RC	10.0	Retrieval completed 5/29/2014[20]				10/1/2023
C-201	Assumed leaker	WI/RC	0.37	Retrieval completed 3/23/2006[21]				4/1/2025
C-202	Assumed leaker	WI/RC	0.35	Retrieval completed 8/11/2005[22]				4/1/2025
C-203	Assumed leaker	WI/RC	0.35	Retrieval completed 3/24/2005[23]				7/1/2025
C-204	Assumed leaker	WI/RC	0.22	Retrieval completed 12/11/2006[24]				9/1/2022
16 tanks – Total			**62.99**		**0.9**	**61.9**	**0**	
S Farm Status								
S-101	Sound		351	53	0	235	116	7/1/2022
S-102[27][32]	Sound	WI	96	9.1	6	22	68	5/1/2022
S-103[33]	Sound		231	52	1	9	221	4/1/2025
S-104	Sound		281	51	1	132	148	1/1/2024
S-105[33]	Sound		508	44	0	2	506	7/1/2023
S-106[33]	Sound	WI	482	47	0	0	482	7/1/2025
S-107	Sound	WI	354[a]	46	2	327	26	4/1/2023
S-108	Sound		542	30	0	5	537	4/1/2021
S-109	Sound		553	27	0	13	540	10/1/2024
S-110	Sound		387	38	0	91	296	7/1/2023
S-111[27]	Sound		416	54	0	72	344	10/1/2025
S-112	Sound	RC	2.5	Retrieval completed 3/2/2007[25]				10/1/2021
12 tanks – Total			**4203.5**		**10**	**910.5**	**3,284**	

Table 4-1. Inventory and Status by Tanks – Single-Shell Tanks (6 pages)

All volume data obtained from Tank Waste Information Network System (TWINS)

Tank (241-)	Tank Integrity	Table 1-1 Tank Status	Total Waste (kgal)[a]	Drainable Interstitial Liquid (kgal)[108]	Waste Volumes[26]			Solids Volume Update[89]
					Supernatant Liquid (kgal)	Sludge (kgal)	Saltcake (kgal)	
SX Farm Status								
SX-101	Sound	WI	416	35	0	141	275	4/1/2021
SX-102	Sound	WI	342	30	0	55	287	1/1/2021
SX-103	Sound		599	42	0	80	519	1/1/2024
SX-104[34]	Sound		422 [a]	31	0	68	354	1/1/2024
SX-105	Sound		376	41	0	65	311	7/1/2023
SX-106	Sound	WI	280	69	2	0	279	7/1/2025
SX-107	Assumed leaker		130	8.8	0	130	0	7/1/2022
SX-108	Assumed leaker		85 [a]	0	0	84	0	1/1/2025
SX-109	Assumed leaker		273 [a]	0	0	66	206	1/1/2024
SX-110[35]	Sound		58 [a]	2.8	0	49	10	10/1/2023
SX-111	Assumed leaker		117	0	0	97	20	10/1/2023
SX-112	Assumed leaker	WI	90	0	0	90	0	4/1/2024
SX-113	Assumed leaker		19	0	0	19	0	10/1/2023
SX-114	Assumed leaker		155[a]	21	0	127	29	10/1/2023
SX-115	Assumed leaker		4	0	0	4	0	1/1/2024
15 tanks – Total			**3,366**		**2**	**1,075**	**2,290**	
T Farm Status								
T-101[125]	Assumed leaker	WI	93	11	7	37	49	1/1/2025
T-102	Sound		35	0	16	19	0	4/1/2025
T-103	Assumed leaker		27	0	4	22	0	10/1/2024
T-104	Sound		309	39	0	309	0	10/1/2024
T-105	Sound		89 [a]	7.9	1	89	0	1/1/2025
T-106	Assumed leaker		21	0	0	21	0	10/1/2024
T-107	Assumed leaker	WI	167	25	7	160	0	1/1/2019
T-108	Assumed leaker		16	2.0	0	8	8	4/1/2024
T-109	Sound		99	8.9	1	0	98	7/1/2025
T-110	Sound		353	56	2	351	0	10/1/2019
T-111	Assumed leaker	WI	400[a]	37	0	399	0	4/1/2024
T-112	Sound		63 [a]	2.0	7	55	0	1/1/2025
T-201	Sound	WI	32	4.4	4	28	0	1/1/2025
T-202	Sound		20	2.6	0	20	0	1/1/2025
T-203	Sound		35	5.4	0	35	0	1/1/2025
T-204	Sound		37	5.6	0	37	0	4/1/2025
16 tanks – Total			**1,796**		**49**	**1,590**	**155**	

Table 4-1. Inventory and Status by Tanks – Single-Shell Tanks (6 pages)

All volume data obtained from Tank Waste Information Network System (TWINS)

Tank (241-)	Tank Integrity	Table 1-1 Tank Status	Total Waste (kgal)[a]	Drainable Interstitial Liquid (kgal)[108]	Waste Volumes[26]			Solids Volume Update[89]
					Supernatant Liquid (kgal)	Sludge (kgal)	Saltcake (kgal)	
TX Farm Status								
TX-101	Sound	WI	90 [a]	8.6	7	73	9	1/1/2025
TX-102	Sound		233	49	0	2	231	1/1/2024
TX-103	Sound	WI	128	25	2	0	126	4/1/2026
TX-104	Sound		66	8.2	3	33	30	10/1/2021
TX-105	Assumed leaker		600	46	0	11	589	2/1/2023
TX-106	Sound		391	57	0	5	386	4/1/2023
TX-107	Assumed leaker		27	5.8	0	0	27	1/1/2023
TX-108	Sound		117	26	1	6	110	11/1/2020
TX-109	Sound		375	48	0	375	0	8/1/2019
TX-110	Assumed leaker		461	32	0	37	424	4/1/2023
TX-111	Sound		360	25	0	43	317	7/1/2020
TX-112	Sound		627	61	0	0	627	8/8/2017
TX-113	Sound		634	25	0	88	546	8/1/2022
TX-114	Assumed leaker		514	42	0	4	510	10/1/2020
TX-115	Sound		634	84	0	9	625	1/1/2023
TX-116	Sound		562 [a]	27	0	66	497	4/1/2023
TX-117	Assumed leaker		626	16	0	29	597	1/1/2018
TX-118	Sound		250	70	0	0	250	7/1/2019
18 tanks – Total			**6,695**		**13**	**781**	**5,901**	
TY Farm Status								
TY-101	Assumed leaker		106	3.3	0	59	47	1/1/2023
TY-102	Sound	WI	70 [a]	14	10	0	61	4/1/2024
TY-103	Assumed leaker		148	21	0	108	40	2/1/2021
TY-104	Assumed leaker	WI	43	0	4	39	0	1/1/2022
TY-105	Assumed leaker		187	7.3	0	187	0	11/1/2018
TY-106	Assumed leaker		13	0	0	13	0	1/1/2017
6 tanks – Totals			**567**		**14**	**406**	**148**	

Table 4-1. Inventory and Status by Tanks – Single-Shell Tanks (6 pages)

All volume data obtained from Tank Waste Information Network System (TWINS)

Tank (241-)	Tank Integrity	Table 1-1 Tank Status	Total Waste (kgal)[a]	Drainable Interstitial Liquid (kgal)[108]	Waste Volumes[26]			Solids Volume Update[89]
					Supernatant Liquid (kgal)	Sludge (kgal)	Saltcake (kgal)	
241-U Tank Farm Status								
U-101	Assumed leaker	WI	31	0	10	21	0	7/1/2025
U-102	Sound	WI	343	40	4	43	296	1/1/2023
U-103[27]	Sound		412	31	3	13	396	10/1/2022
U-104	Assumed leaker		84	8.8	0	45	39	10/1/2022
U-105	Sound	WI	345	49	2	32	311	8/1/2022
U-106	Sound		165	40	2	0	163	1/1/2023
U-107	Sound		275	56	0	16	259	10/1/2022
U-108	Sound		428	68	0	29	399	10/1/2022
U-109[27]	Sound	WI	390	76	1	32	357	11/1/2022
U-110	Assumed leaker		186	2.7	0	186	0	8/1/2022
U-111	Sound	WI	237	39	0	26	211	7/1/2025
U-112	Assumed leaker		48	0.2	4	44	0	4/1/2025
U-201	Sound		5	0.2	1	4	0	10/1/2022
U-202	Sound		5.3	0.1	0.3	5	0	10/1/2022
U-203	Sound		3.5	0	1.1	2.4	0	10/1/2022
U-204	Sound		3	0	1	2	0	10/1/2022
16 tanks – Totals			**2,961**		**29**	**500**	**2,431**	

[a] 1 kgal differences are the result of computer rounding (e.g., volumes reported as 0 may represent as much as 499 gal of waste).

FLA = formal leak assessment
DE = level decrease evaluation.
IE = level increase evaluation.

R = retrieval (tank in retrieval)
RC = retrieval complete
RCR = retrieval complete – in review
WI = water intrusion
WI/RC = water intrusion/ retrieval complete

4.1 LEAK/RELEASE VOLUME ESTIMATES

RPP-32681, *Process to Assess Tank Farm Leaks in Support of Retrieval and Closure Planning*, established a revised process to estimate tank leak inventories. The process included assessing the source of tank farms leaks to support tank waste retrieval technology selections, and reassessing and updating volume estimates and inventories for previously identified tank leaks and releases. If the results suggest a change to the tank's integrity classification, an integrity assessment was recommended per TFC-ENG-CHEM-P-57, "Tank Leak and Intrusion Assessment and Response."

Table 4-2 shows release estimates from RPP-32681 assessments for SSTs currently classified as assumed leakers. Assessment results are summarized in RPP-RPT-61279, *Single-Shell Tank Farm Leak Inventory Assessments Summary*. As shown in endnotes to Table 4-2 provided in Section 6.1, a review of the current integrity classification was recommended for many of these tanks because release estimates for these tanks may be attributed to sources other than a tank liner leak (e.g., a spare inlet overflow, cascade line, transfer line, operations spill, etc.). Tanks previously classified as "assumed leakers" but re-evaluated as sound are listed in Table 4-3. Full reference citations are included in Section 6.2. Table 4-4 provides the DST primary tank leak volume estimate.

Table 4-2. Single-Shell Tank Leak/Release Volume Estimates (3 pages)

Tank (241-)	Assumed Leaker[45]	Estimated Leak Volume (gal)	Interim Stabilized[51]	Leak Estimate Updated	Notes (see Section 6.1)
A-104	1975	~2,000	9/1978	2017	(57)(85)
A-105	1963	2,000 to 40,000 plus 0-232,000 cooling water	7/1979	2017	(57)
B-101	1974 r[a]	~2,000	3/1981	2011	(48)(85)(99)
B-103	1978 r[a]	Not determined. Assumed 0	2/1985	2011	(48)(85)(99)
B-105	1978 r[a]	111,000	12/1984	2011	(48)(85)(99)
B-107	1980 r[a]	22,000	3/1985	2011	(85)(99)
B-109	2021	3,900	4/1985	2022	(115)(119)
B-110	1981 r[a]	13,000	3/1985	2011	(85)(99)
B-111	1978 r[a]	Not determined. Assumed 0	6/1985	2011	(48)(85)(99)
B-112	1978 r[a]	Not determined. Assumed 0	5/1985	2011	(48)(85)(99)
B-201	1980 r[a]	Not determined. Assumed 0	8/1981	2011	(85)(99)

Table 4-2. Single-Shell Tank Leak/Release Volume Estimates (3 pages)

Tank (241-)	Assumed Leaker[45]	Estimated Leak Volume (gal)	Interim Stabilized[51]	Leak Estimate Updated	Notes (see Section 6.1)
B-203	1983 r[a]	Not determined. Assumed 0	6/1984	2011	(85)(99)
B-204	1984 r[a]	Not determined. Assumed 0	6/1984	2011	(85)(99)
BX-101	1972 r[a]	<900	9/1978	2011	(48)(85)(100)
BX-102	1971 r[a]	<140,000	11/1978	2011	(85)(100)
BX-108	1974 r[a]	Not determined. Assumed 2,000	7/1979	2011	(85)(100)
BX-110	1976 r[a]	Not determined. Assumed 8,000	8/1985	2011	(48)(85)(100)
BX-111	1984 r[a]	Not determined. Assumed 2,000	3/1995	2011	(48)(85)(100)
BY-103	1973 r[a]	<5,000	11/1997	2011	(85)(101)
BY-105	1984 r[a]	Not determined. Assumed 2,000	3/2003	2011	(48)(85)(101)
BY-106	1984 r[a]	Not determined. Assumed 2,000	N/A	2011	(48)(85)(101)
BY-107	1984 r[a]	Assumed 23,000	7/1979	2011	(85)(101)
BY-108	1972 r[a]	Not determined. Assumed 5,000	2/1985	2011	(85)(101)
C-101	1980	<37,000	11/1983	2016	(85)(102)
C-105	2010	2,000 to 20,500	10/1995	2016	(29)(102)
C-201	1988 r[a]	0	3/1982	2016	(85)(102)
C-202	1988 r[a]	0	8/1981	2016	(85)(102)
C-203	1984 r[a]	0	3/1982	2016	(102)
C-204	1988 r[a]	0	9/1982	2016	(85)(102)
SX-107	1964	6,000	10/1979	2010	(58)(85)
SX-108	1962	11,000 plus 39,000 to 90,000 water losses	8/1979	2010	(58)(85)
SX-109	1965	1,000	5/1981	2010	(58)(85)
SX-111	1974	2,800	7/1979	2010	(58)(85)
SX-112	1969	27,000	7/1979	2010	(58)(85)
SX-113	1962	15,000	11/1978	2010	(58)(85)
SX-114	1972	<2,000	7/1979	2010	(48)(58)(85)

Table 4-2. Single-Shell Tank Leak/Release Volume Estimates (3 pages)

Tank (241-)	Assumed Leaker[45]	Estimated Leak Volume (gal)	Interim Stabilized[51]	Leak Estimate Updated	Notes (see Section 6.1)
SX-115	1965	51,000	9/1978	2010	(58)(85)
T-101	2024	2,410	4/1993	2024	(85)(125)
T-103	1974 r[a]	1,300	11/1983	2013	(85)(104)
T-106	1973	115,000	8/1981	2013	(85)(104)
T-107	1984 r[a]	Not determined. Assumed 2,000	5/1996	2013	(48)(85)(104)
T-108	1974 r[a]	0	11/1978	2013	(104)
T-111	1979, 1994	3,500	2/1995	2014	(56)(85)(104)
TX-105	1977 r[a]	50,000 to 125,000	4/1983	2013	(48)(85)(105)
TX-107	1984	1,300	10/1979	2013	(85)(105)
TX-110	1977 r[a]	0	04/1983	2013	(48)(85)(105)
TX-114	1974	~7,000	4/1983	2013	(48)(85)(105)
TX-117	1977 r[a]	0	3/1983	2013	(48)(85)(105)
TY-101	1973 r[a]	0	4/1983	2010	(59)
TY-103	1973	3,600	2/1983	2010	(59)(85)
TY-104	1981	1,400	11/1983	2010	(59)(85)
TY-105	1960	30,000 to 43,000	2/1983	2010	(59)(85)
TY-106	1959	18,000	11/1978	2010	(59)(85)
U-101	1959 r[a]	0 to 30,000	9/1979	2011	(85)(106)
U-104	1961	<109,000	10/1978	2011	(85)(106)
U-110	1975	5,000 to 25,000	12/1984	2011	(85)(106)
U-112	1980	8,500 to 57,000	9/1979	2011	(85)(106)
57 tanks					

Table 4-3. Assumed Leakers Re-evaluated as Sound via the Leak Assessment Process

Tank (241-)	Assumed Leaker[45]	Interim Stabilized[51]	Leak Estimate Updated	Notes (see Section 6.1)
A-103	1987	6/1988	2017	(28)(57)
AX-102	1988	9/1988	2017	(79)(57)
AX-104	1977	8/1981	2017	(81)(57)
C-110	1984	5/1995	2016	(30)(102)
C-111	1968	3/1984	2016	(31)(102)
S-104	1968	12/1984	2018	(85)(98)(103)
SX-104	1988	4/2000	2016	(34)(58)
SX-110	1976	8/1979	2010	(35)(58)
T-109	1974	12/1984	2020	(85)(104)
TX-113	1974	4/1983	2021	(48)(85)(105)(114)
TX-115	1977	9/1983	2022	(48)(85) (123)
TX-116	1977	4/1983	2023	(48)(85)(123)
13 tanks				

Table 4-4. Double-Shell Tank Leak Volume Estimates

Tank (241-)	Assumed Leaker	Current Annulus Waste Volume (gal)	Interim Stabilized	Leak Estimate Updated	Notes (see Section 6.1)
AY-102	2012	2,000	N/A	2023	(1)(60)(85)
1 tank					

4.2 WATER INTRUSION IN SINGLE-SHELL TANKS

Since November 2012, all SST videos (excluding those for retrieval activities) have included evaluation of the tank for water intrusion. Table 4-5 lists those tanks currently identified as having an intrusion. To be included on this list, an SST must meet one of three criteria:

1. An intrusion is observed entering the tank during inspection or subsequent video reviews.
2. An intrusion is not observed during a visual inspection. Liquid is covering at least part of the waste surface, comparison to past in-tank images shows an increase in visible liquid, and the surface or interstitial liquid level have an increasing trend.
3. An intrusion is not observed during the visual inspection. Trending of in-tank level data shows an increasing trend, and an evaluation concludes that the trend is due to water intrusion.

Table 4-5. Single-Shell Tanks with Confirmed Water Intrusion (2 pages)

Tank (241-)	Date of Video Inspection[a] or Evaluation	Notes (see Section 6.1)
A-102	1/21/2014	(86)
B-103	11/28/2018	(111)
B-112	1/4/2019	(111)
B-201	2/1/2016	(94)
B-202	1/28/2014	(86)
BX-101	3/11/2013	(86)
BX-102	1/13/2026	(130)
BX-103	3/25/2013	(86)
BX-104	11/1/2018	(111)
BX-106	1/14/2026	(130)
BX-107	5/22/2017	(95)
BX-110	2/27/2013	(86)
BY-102	12/28/2012	(86)
BY-103	2/25/2014	(86)
BY-105	6/12/2025	(126)
BY-109	5/4/2017	(95)
C-201	3/10/2022	(118)
C-202	3/16/2022	(118)
C-203	3/22/2022	(118)
C-204	3/28/2022	(118)
S-102	3/1/2022	(117)
S-106	3/4/2014	(86)
S-107	2/20/2018	(122)
SX-101	12/14/2017	(97)
SX-102	11/21/2013	(86)
SX-106	04/15/2013	(86)
SX-112	2/21/2020	(112)

Table 4-5. Single-Shell Tanks with Confirmed Water Intrusion (2 pages)

Tank (241-)	Date of Video Inspection[a] or Evaluation	Notes (see Section 6.1)
T-101	3/10/2014	(86)
T-107	1/4/2016	(94)
T-111	12/30/2013	(86)
T-201	3/26/2014	(86)
TX-101	4/22/2024	(126)
TX-103	6/12/2025	(126)
TY-102	3/7/2014	(86)
TY-104	2/12/2020	(112)
U-101	7/30/2019	(111)
U-102	11/1/2016	(94)
U-105	11/3/2016	(94)
U-109	5/16/2019	(111)
U-111	2/19/2014	(86)
40 tanks		

[a] November 2012 and later inspections only, retrieval-related inspections not included.

Table 4-6 lists SSTs identified as having an intrusion in recent years, but the intrusion is not confirmed as currently continuing. To be included in Table 4-6 an SST must meet the following criterion:

1. An intrusion is not observed during inspection. Liquid is covering at least part of the waste surface, comparison to past in-tank images shows an increase in visible liquid, but the surface level or interstitial liquid level are either unavailable or inconclusive as to whether an intrusion is occurring.

Table 4-6. Single-Shell Tanks with Evidence of Recent Water Intrusion

Tank (241-)	Date of Video Inspection[a]	Notes (see Section 6.1)
A-103	1/21/2014	(86)
B-106	11/25/2020	(120)
B-109	1/28/2014	(86)
BY-101	3/11/2013	(86)
S-105	10/24/2016	(94)
S-111	3/25/2013	(86)
TX-108	3/18/2015	(88)
7 tanks		

[a] November 2012 and later inspections only, retrieval-related inspections not included.

5.0 MISCELLANEOUS UNDERGROUND STORAGE TANKS AND SPECIAL SURVEILLANCE FACILITIES

Table 5-1 and Table 5-2 reflect miscellaneous underground storage tanks and special surveillance facilities in the 200 East and 200 West Areas, respectively, which have traditionally been managed by the tank farms operating contractor. Assignment of stewardship responsibility has been determined in most cases and currently 84 of the 94 tanks and facilities listed in Table 5-1 and Table 5-2 are owned by the tank farms operating contractor. In HNF-EP-0182, *Waste Tank Summary Report for Month Ending August 31, 2014* (Rev. 320), the volume estimates and other information in Tables 5-1 and 5-2 were revised per RPP-RPT-58156, *Basis for Miscellaneous Underground Storage Tanks and Special Surveillance Facilities Waste Volumes Published in HNF-EP-0182 Revision 320 "Waste Tank Summary Report for Month Ending August 31, 2014*". Starting with revision 346, the volumes for 31 of the tanks/facilities in Tables 5-1 and 5-2 are updated quarterly with current volume and date information.

Table 5-1. 200 East Area Miscellaneous Underground Storage Tanks and Special Surveillance Facilities (4 pages)

Facility	Location	Received Waste From	Nominal Volume of Remaining Waste (kgal[a])	Volume Date	Status	Notes (see Section 6.1)
204-AR/ 204-AR-TK-1	West of A Farm complex	Liquid waste from 100 Area, 300 Area rail and highway tankers	0.71	3/22/2009	--	(69)
204-AR/ 204-AR-Sump	West of A Farm complex	Liquid waste from 100 Area, 300 Area rail and highway tankers	No data	--	--	(69)
209-E-TK-111	209-E Building	Decon catch tank	No data	--	--	--
241-A-302-A[b]	South of PUREX bldg. 202A	A-151 diversion box	0.8	2/1/2026	WI	(91)(109)
241-A-302-B[b]	A Farm	A-152 diversion box	4.9	3/25/2026	WI	(91)(109)
241-A-350[b]	A Farm	Collects drainage	< 0.10	3/3/2026	WI	(91)(109)
241-A-417[b]	A Farm	Condensate/drainage from A and AX Farm Tanks and other related facilities	1.5	3/3/2026	WI	(91)(109)
241-AX-IX	AX Farm	702-A tank vapor condensate collected in tank 241-A-417	No data	--	--	--
241-AX-151 catch tank	North of PUREX	PUREX Plant	2.8	8/2/2006	--	(68)
241-AX-151 (4 diverter tanks)	North of PUREX	PUREX Plant	No data	--	--	(68)

Table 5-1. 200 East Area Miscellaneous Underground Storage Tanks and Special Surveillance Facilities (4 pages)

Facility	Location	Received Waste From	Nominal Volume of Remaining Waste (kgal[a])	Volume Date	Status	Notes (see Section 6.1)
241-AX-152 catch tank[b]	AX Farm	AX-152 diversion box, AX-151 diverter	< 0.10	3/26/2026	--	(77)(91)
241-AX-152 (2 diverter tanks)	AX Farm	AX-152 diversion box	No data	--	--	(77)
241-AZ-151[b]	AZ Farm	AZ-702 condensate	4.4	6/12/2025	WI	(91)(109)
241-AZ-154	AZ Farm	AZ-101 and AZ-102 steam condensate	< 0.10	7/31/2008	--	--
241-AZ-301	AZ Farm	AZ-702 condensate	N/A	--	--	(71)(91)
241-B-301-B	B Farm	B-151, B-152, B-153, B-252 diversion box	0.54	4/24/1985	--	--
241-B-302-B	B Farm	B-154 diversion box	5.0	5/10/1985	--	--
241-BX-302-A	BX Farm	BX-152, BX-153, BXR-152, BYR-152 diversion box	0.83	3/14/1984	--	--
241-BX-302-B	BX Farm	BX-154 diversion box	1.0	5/8/1985	--	--
241-BX-302-C	BX Farm	BX-155 diversion box	0.84	4/11/1985	--	--
241-BY-ITS1-TK 1 (SSCT)	BY Farm	Scrub Solutions Circulation Tank	0.35	12/10/2006	--	--
241-BY-ITS1-TK 2	BY Farm	Ion Exchange feed tank	0.0	12/4/2006	--	--
241-BY-ITS2-TK 1	BY Farm	Vapor condenser	No data	--	--	--
241-BY-ITS2-TK 2	BY Farm	Heater flush tank	0.78	8/24/2006	--	--
241-C-301-C	C Farm	C-151, C-152, C-153, C-252 diversion box	13.0	5/11/2018	--	(96)
241-ER-311[b]	Southwest of B Plant	ER-151, ER-152 diversion box	< 0.10	3/23/2026	--	(63)(91)
241-ER-311A	Southwest of B Plant	ER-151 diversion box	Empty	--	--	--
244-A-TK[b]	A Farm complex	DCRT (receives from several locations)	4.6	3/3/2026	WI	(91)(109)
244-A-Sump[b]	A Farm complex	DCRT (receives from several locations)	< 0.10	3/3/2026	--	(91)
244-AR Vault/ TK-244-AR-001[b]	A Farm complex	A and AX Farms	< 0.10	3/3/2026	--	(72)(91)

Table 5-1. 200 East Area Miscellaneous Underground Storage Tanks and Special Surveillance Facilities (4 pages)

Facility	Location	Received Waste From	Nominal Volume of Remaining Waste (kgal[a])	Volume Date	Status	Notes (see Section 6.1)
244-AR Vault/ Sump-AR-001[b]	A Farm complex	Process jumper connection leaks or cell decon washdowns	< 0.10	3/3/2026	--	(72)(91)
244-AR Vault/ TK-244-AR-002[b]	A Farm complex	A and AX Farms	< 0.10	3/3/2026	--	(72)(91)
244-AR Vault/ Sump-AR-002 [b]	A Farm complex	Process jumper connection leaks or cell decon washdowns	< 0.10	3/3/2026	--	(72)(91)
244-AR Vault/ TK-244-AR-003[b]	A Farm complex	A and AX Farms	0.24	3/3/2026	WI	(72)(91)(109)
244-AR Vault/ Sump-AR-003[b]	A Farm complex	Process jumper connection leaks or cell decon washdowns	1.2	11/25/2025	WI	(72)(91)(109)
244-AR Vault/ TK-244-AR-004[b]	A Farm complex	A and AX Farms	< 0.10	3/3/2026	--	(72)(91)
244-BX-TK[b]	BX Farm complex	B, BX, and BY Farm saltwells	11	3/24/2026	--	(91)
244-BX-Sump[b]	BX Farm complex	B, BX, and BY Farm saltwells	< 0.10	3/24/2026	--	(91)
244-BXR Vault/ TK-BXR-001	BX Farm	BX Farm and diversion boxes	4.1	11/1984	--	--
244-BXR Vault/ Sump-BXR-001	BX Farm	Process jumper connection leaks or cell decon washdowns	< 0.10	4/1984	--	--
244-BXR Vault/ TK-BXR-002	BX Farm	BX Farm and diversion boxes	1.1	2/20/1985	--	--
244-BXR Vault/ Sump-BXR-002	BX Farm	Process jumper connection leaks or cell decon washdowns	< 0.10	2/1985	--	--
244-BXR Vault/ TK-BXR-003	BX Farm	BX Farm and diversion boxes	0.79	2/18/1985	--	--
244-BXR Vault/ Sump-BXR-003	BX Farm	Process jumper connection leaks or cell decon washdowns	7.2	2/18/1985	--	--
244-BXR Vault/ TK-BXR-011	BX Farm	BX Farm and diversion boxes	4.0	4/1984	--	--
244-BXR Vault/ Sump-BXR-011	BX Farm	Process jumper connection leaks or cell decon washdowns	7.6	1/24/1985	--	--

Table 5-1. 200 East Area Miscellaneous Underground Storage Tanks and Special Surveillance Facilities (4 pages)

Facility	Location	Received Waste From	Nominal Volume of Remaining Waste (kgal[a])	Volume Date	Status	Notes (see Section 6.1)
244-CR Vault/ TK-CR-001[b]	C Farm	B, BX, BY, C Farm sludge slurry	6.9	3/2/2026	WI	(70)(91)(93)(109)
244-CR Vault/ Sump-CR-001	C Farm	Process jumper connection leaks or cell decon washdowns	< 0.10	3/3/2010	--	(70)
244-CR Vault/ TK-CR-002	C Farm	244-CR Vault Tank CR-001	0.75	11/29/2004	--	(70)
244-CR Vault/ Sump-CR-002	C Farm	Process jumper connection leaks or cell decon washdowns	< 0.10	3/09/2010	--	(70)
244-CR Vault/ TK-CR-003[b]	C Farm	Former C Farm saltwell receiver tank	2.8	3/2/2026	WI	(70)(91)(109)
244-CR Vault/ Sump-CR-003	C Farm	Process jumper connection leaks or cell decon washdowns	< 0.10	3/10/2010	--	(70)
244-CR Vault/ TK-CR-011	C Farm	244-CR Vault Tanks CR-002 and CR-003	4.0	11/30/2004	--	(70)
244-CR Vault/ Sump-CR-011	C Farm	Process jumper connection leaks or cell decon washdowns	< 0.10	2/25/2010	--	(70)

[a] Nominal volume of remaining waste is in kgal, unless noted otherwise.
[b] These MUSTs are monitored and updated on a quarterly basis.

DCRT = double-contained receiver tank.
HVAC = heating, ventilation, and air conditioning.
MUST = miscellaneous underground storage tank
PUREX = plutonium/uranium extraction.
WI = water intrusion

Volumes 0 < x < 100 gallons = < 0.10 kgal
Volumes 100 ≤ x < 1,000 gallons = Two decimal place kgal
Volumes x ≥ 1,000 gallons = One decimal place kgal"
"empty" = "No data"

Table 5-2. 200 West Area Miscellaneous Underground Storage Tanks and Special Surveillance Facilities (3 pages)

Facility	Location	Received Waste From	Nominal Volume of Remaining Waste (kgal[a])	Volume Date	Status	Notes (see Section 6.1)
213W-TK-1	East of 213-W Compactor Facility	Water retention tank	1.6	3/19/1999	--	--
231-W-151-001	North of Z Plant	231-Z floor drains	1.4	8/15/1974	--	--
231-W-151-002	North of Z Plant	231-Z floor drains	0.96	8/15/1974	--	--
240-S-302 [b]	North of REDOX Plant	240-S-151 diversion box	1.7	3/4/2026	--	(64)(91)
241-E/W-151 Vent Station Catch Tank [b]	South of 609-A	Cross-site transfer lines/encasement	0.4	3/4/2026	WI	(66)(91)(109)
241-S-302A	S Farm	S-151 diversion box	0.30	3/19/2001	--	(82)
241-S-302B	SX Farm	S encasements	< 0.10	4/1984	--	--
241-S-304 [b]	S Farm	S-151 diversion box	0.13	3/5/2026	--	(91)
241-SX-302	SX Farm	SX-151 diversion box, SX-152 transfer box	1.4	11/1984	--	--
241-T-301	T Farm	T-151, T-152, T-153, T-252 diversion box	22.0	7/3/1985	--	--
241-TX-302A	TX Farm	TX-153 diversion box	2.5	8/1984	--	--
241-TX-302B [b]	East of TX Farm	TX-155 diversion box	2.1	3/31/2026	WI	(83)(91)(109)
241-TX-302-B(R)	East of TX Farm	TX-155 diversion box	No data	--	--	(83)
241-TX-302C [b]	T Plant	TX-154 diversion box	4.1	3/5/2026	WI	(91)(92)(109)
241-TX-302-X-B	TX Farm	TX encasements	0.34	8/1984	--	--
241-TY-302A	TY Farm	TY-153 diversion box	0.46	6/25/1985	--	--
241-TY-302B	TY Farm	TY encasements	< 0.10	8/1984	--	--
241-U-301B [b c]	U Farm	U-151, U-152, U-153, U-252 diversion box	1.5	3/5/2026	WI	(91)(109)
241-UX-302A [b]	U Plant	UX-154 diversion box	0.4	3/25/2026	WI	(65)(91)(109)
241-Z-8 (216-Z-8)	East of Z Plant	RECUPLEX	0.50	10/19/1974	--	--
242-S TK C-100	242-S Evaporator	242-S Evaporator process condensate	8.0	--	--	--
242-T-135	T Evaporator	T Evaporator	No data	--	--	(76)
242-TA-R1	T Evaporator	Z Plant	No data	--	--	(75)
242-TA-Sump	T Evaporator	Z Plant	< 0.10	9/24/2010	--	(75)

Table 5-2. 200 West Area Miscellaneous Underground Storage Tanks and Special Surveillance Facilities (3 pages)

Facility	Location	Received Waste From	Nominal Volume of Remaining Waste (kgal[a])	Volume Date	Status	Notes (see Section 6.1)
243-S-TK-1	Northwest of S Farm	Personnel decontamination facility	No data	--	--	--
244-S-TK [b]	S Farm	From SSTs for transfer to Tank SY-102	5.1	3/31/2026	--	(91)
244-S-Sump [b]	S Farm	From SSTs for transfer to Tank SY-102	< 0.10	12/28/2016	--	(91)
244-TX-TK [b]	TX Farm	Z Plant	8.3	3/5/2026	WI	(91)(109)
244-TX-Sump [b]	TX Farm	Z Plant	< 0.10	5/23/2023	--	(91)
244-TXR Vault/ TK-TXR-001	TX Farm	Transfer lines, TXR-151 diversion box	0.47	10/1984	--	--
244-TXR Vault/ Sump-TXR-001	TX Farm	Process jumper connection leaks or cell decon washdowns	< 0.10	10/1984	--	--
244-TXR Vault/ TK-TXR-002	TX Farm	Transfer lines	1.9	10/1984	--	--
244-TXR Vault/ Sump-TXR-002	TX Farm	Process jumper connection leaks or cell decon washdowns	0.10	10/1984	--	--
244-TXR Vault/ TK-TXR-003	TX Farm	Transfer lines	5.3	10/1984	--	--
244-TXR Vault/ Sump-TXR-003	TX Farm	Process jumper connection leaks or cell decon washdowns	< 0.10	10/1984	--	--
244-U-TK	U Farm	U Farm saltwell liquids	1.9	11/3/2010	--	--
244-U-Sump	U Farm	Process jumper connection leaks or cell decon washdowns	No data	--	--	(84)
244-UR Vault/ TK-UR-001	U Farm	U Farm	0.42	7/1984	--	--
244-UR Vault/ Sump-UR-001	U Farm	Process jumper connection leaks or cell decontamination washdowns	1.2	6/26/1984	--	--
244-UR Vault/ TK-UR-002	U Farm	U Farm	1.5	7/11/1984	--	--
244-UR Vault/ Sump-UR-002	U Farm	Process jumper connection leaks or cell decontamination washdowns	< 0.10	7/8/1984	--	--

Table 5-2. 200 West Area Miscellaneous Underground Storage Tanks and Special Surveillance Facilities (3 pages)

Facility	Location	Received Waste From	Nominal Volume of Remaining Waste (kgal[a])	Volume Date	Status	Notes (see Section 6.1)
244-UR Vault/ TK-UR-003	U Farm	U Farm	0.60	7/1984	--	--
244-UR Vault/ Sump-UR-003	U Farm	Process jumper connection leaks or cell decontamination washdowns	3.4	6/21/1984	--	--
244-UR Vault/ 244-UR-004	U Farm	U Farm	No data	--	--	(74)

[a] Nominal volume of remaining waste is in kgal, unless noted otherwise.
[b] These MUSTs are monitored and updated on a quarterly basis.
[c] Equipment failure

RECUPLEX = recovery of uranium and plutonium by extraction.
WI = water intrusion

REDOX = reduction-oxidation.
SST = single-shell tank.

Volumes 0 < x < 100 gallons = < 0.10 kgal
Volumes 100 ≤ x < 1,000 gallons = Two decimal place kgal

Volumes x ≥ 1,000 gallons = One decimal place kgal"
"empty" = "No data"

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6.0 ENDNOTES AND REFERENCES

6.1 REPORT ENDNOTES

Table 6-1 includes endnotes for the tables found in Sections 1.0 through 5.0 of this report. When an endnote is referenced multiple times, the location column shows each table referencing the endnote.

The following endnotes have been deleted from this report: 2, 3, 7, 36-42, 43-44, 46-47, 49-50, 53-55, 61-62, 67, 73, 78, 80, 87, 107, and 128. Some of the deleted end notes for Table 4-2 were consolidated into new footnotes. The original endnote numbering has been retained; deleted endnote numbers have been retired to maintain consistency with the numbering of the remaining endnotes and traceability with earlier revisions of this report.

Table 6-1. Waste Tank Summary Report Endnotes (11 pages)

No.	Comment/Reference	Location
(1)	RPP-ASMT-53793, *Tank 241-AY-102 Leak Assessment Report*, states that Tank AY-102 was declared an "Assumed Leaker – Primary Tank" on October 19, 2012, due to the results of a leak assessment performed on discovery of waste material in the tank's annulus space. The ORP (Office of River Protection) was notified of the intention to change the tank's leak integrity classification (Clark 2012).	Table 1-1, Table 4-3
(4)	SSTs in retrieval – Tanks with active bulk or heel retrieval operations in progress or awaiting heel retrieval.	Table 1-1

(5)	Retrieval operations complete – Tanks have active retrieval operations completed (e.g., Tanks C-101, C-102, C-103, C-104, C-105, C-106, C-107, C-108, C-109, C-110, C-111, C-112, C-201, C-202, C-203, C-204, S-112, AX-101, AX-102, AX-103, and AX-104); retrieval data report and/or retrieval completion certification have been provided to ORP/HFO for review and submittal to Ecology. Letter of Completion for Retrieval Data Report (from ORP/HFO to Ecology) for the following tanks: • Tank AX-102 (letter 22-TF-002556, dated September 6, 2022 [Vance, 2022]) • Tank C-101 (letter 15-TF-0099, dated September 24, 2015 [Smith 2015b]) • Tank C-102 (letter 16-TF-0115, dated October 11, 2016 [Smith 2016b]) • Tank C-103 (letter 07-TPD-026, dated May 21, 2007 [Olinger 2007a]) • Tank C-104 (letter 14-TF-0013, dated February 18, 2014 [Smith 2014e]) • Tank C-105 (letter 19-TPD-0011, dated June 21, 2019 [Vance 2019]) • Tank C-106 (letter 20-ECD-0016, dated April 1, 2020 [Vance 2020]) • Tank C-107 (letter 15-TF-0086, dated September 14, 2015 [Smith 2015d]) • Tank C-108 (letter 13-TF-0120, dated November 27, 2013 [Smith 2013b]) • Tank C-109 (letter 14-TF-0020, dated March 13, 2014 [Smith 2014f]) • Tank C-110 (letter 14-TF-0086, dated August 6, 2014 [Smith 2014g]) • Tank C-111 (letter 17-TPD-0018, dated August 11, 2017 [Smith, 2017c]) • Tank C-112 (letter 15-TF-0098, dated September 30, 2015 [Smith 2015c]) • Tank C-201 (letter 06-TPD-071, dated November 2, 2006 [Schepens 2006b]) • Tank C-202 (letter 06-TPD-051, dated July 31, 2006 [Schepens 2006c]) • Tank C-203 (letter 06-TPD-005, dated January 18, 2006 [Schepens 2006d]) • Tank C-204 (letter 07-TPD-043, dated August 9, 2007 [Olinger 2007b]) • Tank S-112 (letter 07-TPD-066, dated December 21, 2007 [Olinger 2007c]) Retrieval completion certifications provided by ORP/HFO to Ecology for the following tanks: • Tank AX-101 (letter 25-TWO-0122, dated October 14, 2025) [Bang, 2025] • Tank AX-102 (letter 21-TF-002570, dated September 13, 2021 [Vance, 2021]) • Tank AX-103 (letter 23-TF-000067, dated January 17, 2023 [Vance, 2023]) • Tank AX-104 (letter 22-TF-002824, dated September 29, 2022 [Vance, 2022]) • Tank C-101 (letter 14-TF-0113, dated September 24, 2014 [Smith 2014b]) • Tank C-102 (letter 15-TF-0116, dated November 30, 2015 [Smith 2015a]) • Tank C-104 (letter 13-TF-0018, dated March 21, 2013 [Fletcher 2013a]) • Tank C-105 (letter 18-TF-0044, dated June 28, 2018 [Vance 2018]) • Tank C-107 (letter 14-TF-0114, dated September 30, 2014 [Smith 2014c]) • Tank C-108 (letter 13-TF-0025, dated May 1, 2013 [Fletcher 2013b]) • Tank C-109 (letter 13-TF-0037, dated June 4, 2013 [Smith 2013a]) • Tank C-110 (letter 14-TF-0007, dated January 29, 2014 [Smith 2014a]). • Tank C-112 (letter 14-TF-0115, dated September 30, 2014 [Smith 2014d]) • Tank C-111 (letter 16-TF-0090, dated August 29, 2016 [Smith 2016a]) Completion of retrieval activities per the 241-AY-102 Settlement Agreement provided by ORP and WRPS to Ecology: • Tank AY-102 (Letter 17-TF-0021, dated February 23, 2017 [Smith 2017a]) • Tank AY-102 (Letter 17-TF-0030, dated March 13, 2017 [Smith 2017b])	Table 1-1, Table 2-1

Table 6-1. Waste Tank Summary Report Endnotes (11 pages)

No.	Comment/Reference	Location
(6)	Retrieval operations complete and in review – Tank(s) have active retrieval operations completed report or practicability evaluation is pending approval; or evaluation has been accepted, but final completion letter or certification submittal is pending.	Table 1-1
(8)	Nominal volume of waste inventory is the best estimate of residual volume. Retrieval data reports also provide 95 percent upper confidence level volume as the bounding estimate of remaining waste. For retrieval in progress tanks nominal value may include water used for sluicing.	Table 2-1
(9)	Tank C-101 nominal waste volume – Total waste 4,995 gal (RPP-CALC-56434, *Post-Retrieval Camera/CAD Modeling System Waste Volume Estimate for Tank 241-C-101*) revised to 5.5 kgal (RPP-RPT-54440, *Derivation of Best-Basis Inventory for Tank 241-C-101 as of October 1,2023*)	Table 2-1, Table 4-1
(10)	Tank C-102 nominal waste volume estimate – Total waste 15.5 kgal (RPP-RPT-57458, *Derivation of Best-Basis Inventory for tank 241-C-102 as of January 1, 2023*)	Table 2-1, Table 4-1
(11)	Tank C-103 nominal waste volume – Total waste 2,529 gal, sludge 2,282 gal, supernatant 247 gal (RPP-RPT-33060, *Retrieval Data Report for Single-Shell Tank 241-C-103* and, *RPP-RPT-59973, Derivation of Best-Basis Inventory for Tank 241-C-103 as of January 1, 2023*).	Table 2-1, Table 4-1
(12)	Tank C-104 nominal waste volume – Total waste 1.9 kgal of sludge (RPP-RPT-46616, *Derivation of Best-Basis Inventory for Tank 241-C-104 as of July 1, 2023*).	Table 2-1, Table 4-1
(13)	Tank C-105 nominal waste volume estimate – Total Waste is 1.5 kgal of sludge (RPP-RPT-58071, *Derivation of Best-Basis Inventory for Tank 241-C-105 as of July 1, 2023,* and RPP-RPT-60731, *Post-Retrieval Camera/CAD Modeling System Waste Volume Estimate for Tank 241-C-105).*	Table 2-1, Table 4-1
(14)	Tank C-106 nominal waste volume – Total waste 2,369 gal sludge. (RPP-RPT-60124, *Derivation of Best-Basis Inventory for Tank 241-C-106 as of October 1, 2023*). DOE declared C-106 retrieval complete in letter 20-ECD-0016 dated 4/1/20 (20-ECD-0016, Letter, B.T. Vance, ORP, to A.K. Smith, Ecology, and D. Einan, EP“, "U.S. Department of Energy Rescinds “Request for Waiver to Hanford Federal Facility Agreement and Consent Order Waste Retrieval Criteria for Single Shell Tank 241-C-106,” dated April 1, 2020). As stated in the letter, recent calculations confirm that the retrieval goal of 360 cubic feet has been met for C-106.	Table 2-1, Table 4-1
(15)	Tank C-107 waste volume estimate – Total waste 10 kgal of sludge (RPP-RPT-48745, Rev. 10, *Derivation of Best-Basis Inventory for Tank 241-C-107 as of July 1, 2023*).	Table 2-1, Table 4-1
(16)	Tank C-108 nominal waste volume – Total waste 3.4 kgal sludge (RPP-RPT-45147, *Derivation of Best-Basis Inventory for Tank 241-C-108 as of July 1, 2023*).	Table 2-1, Table 4-1
(17)	Tank C-109 nominal waste volume – Total waste 2.0 kgal (RPP-RPT-51343*, Derivation of Best-Basis Inventory for Tank 241-C-109 as of July 1, 2023*).	Table 2-1, Table 4-1
(18)	Tank C-110 nominal waste volume – Total waste 2.1 kgal (RPP-RPT-49876, *Derivation of Best-Basis Inventory for Tank 241-C-110 as of October 1, 2024*).	Table 2-1, Table 4-1
(19)	Tank C-111 volume estimate – Total waste 4.9 kgal (RPP-RPT-59377, *Post-Retrieval Camera/CAD Modeling System Waste Volume Estimate for Tank 241-C-111* and RPP-RPT-48459*, Derivation of Best-Basis Inventory for Tank 241-C-111 as of October 1, 2023)*.	Table 2-1, Table 4-1

Table 6-1. Waste Tank Summary Report Endnotes (11 pages)

No.	Comment/Reference	Location
(20)	Tank C-112 waste volume estimate – Total waste 12,700 gal (RPP-CALC-56856, *Estimated Waste Volume Remaining in Single-Shell Tank 241-C-112 after Hard Heel Retrieval*); revised to 10,000 gal (RPP-RPT-52516*, Derivation of Best-Basis Inventory for Tank 241-C-112 as of October 1, 2023*).	Table 2-1, Table 4-1
(21)	Tank C-201 nominal waste volume – Total waste 368 gal, sludge 142 gal, supernatant 226 gal (RPP-29441, *Post-Retrieval Waste Volume Determination for Single-Shell Tank 241-C-201* and RPP-RPT-58929, *Derivation of Best-Basis Inventory for Tank 241-C-201 as of May 1, 2022.*).	Table 2-1, Table 4-1
(22)	Tank C-202 nominal waste volume – Total waste 353 gal, sludge 145 gal, supernatant 208 gal (RPP-RPT-29095, *Retrieval Data Report for Single-Shell Tank 241-C-202* and RPP-RPT-59855*, Derivation of Best-Basis Inventory For Tank 241-C-202 as of May 1, 2022.)*.	Table 2-1, Table 4-1
(23)	Tank C-203 nominal waste volume – Total waste 348 gal, sludge 126 gal, supernatant 222 gal (RPP-RPT-26475, *Retrieval Data Report for Single-Shell Tank 241-C-203* and RPP-RPT-59860, *Derivation of Best-Basis Inventory for Tank 241-C-203 as of May 1, 2022.*).	Table 2-1, Table 4-1
(24)	Tank C-204 nominal waste volume – Total waste 137 gal, sludge 134 gal, supernatant 3 gal (RPP-RPT-34062, *Retrieval Data Report for Single-Shell Tank 241-C-204*).	Table 2-1, Table 4-1
(25)	Tank S-112 nominal waste volume – Total waste 2,543 gal, composed of an estimated 2,110 sludge solids and 432 gallons sludge interstitial liquids(RRP-RPT-60377, *Derivation of Best-Basis Inventory for Tank 241-S-112 as of October 1, 2021*).	Table 2-1, Table 4-1
(26)	For some tanks, a volume difference exists between estimates published in HNF-SD-RE-TI-178, *Single-Shell Tank Interim Stabilization Record*, and later TWINS estimates. TWINS estimates are reported in Table 4-1.	Table 4-1
(27)	Tank A-101 contains retained gas in saltcake; Tanks S-102, S-111, U-103, and U-109 contain retained gas in saltcake and sludge.	Table 4-1
(28)	Status of Tank A-103 changed from “assumed leaker” to “sound” per RPP-ASMT-42278, *Tank 241-A-103 Leak Assessment Report*.	Table 4-1, Table 4-3
(29)	Status of Tank C-105 changed from “sound” to “assumed leaker” per RPP-ASMT-46452, *Tank 241-C-105 Leak Assessment Completion Report*. However, there was no indication of a leak from this tank during retrieval.	Table 4-1, Table 4-2
(30)	Status of Tank C-110 changed from “assumed leaker” to “sound” per RPP-ASMT-38219, *Tank 241-C-110 Leak Assessment Report*. There was no indication of a leak from this tank during retrieval.	Table 4-1, Table 4-3
(31)	Status of Tank C-111 changed from “assumed leaker” to “sound” per RPP-ASMT-39155, *Tank 241-C-111 Leak Assessment Report*. There was no indication of a leak from this tank during retrieval.	Table 4-1, Table 4-3
(32)	Retrieval operations began in Tank S-102 on December 16, 2004, and were suspended in July 2007. Actions were subsequently taken to reduce the remaining liquid volume to below interim stabilization criteria. A letter was submitted to DOE on June 1, 2010, that stated Tank S-102 again met interim stabilization criteria (Sax 2010).	Table 4-1
(33)	The *Hanford Federal Facility Agreement and Consent Order* (signed August 2004) modified Milestone M-45-00C (Change Order M-45-04-01) changing the regulatory requirements for retrieval of waste in Tanks S-103, S-105, and S-106 (Ecology et al 1989). “Retrieval” status in these tanks is thereby rescinded.	Table 4-1

Table 6-1. Waste Tank Summary Report Endnotes (11 pages)

No.	Comment/Reference	Location
(34)	Status of Tank SX-104 changed from "assumed leaker" to "sound" per RPP-ASMT-48143, *Tank 241-SX-104 Leak Assessment Completion Report*. Due to a drop in the interstitial liquid level another leak assessment was performed. RPP-ASMT-63062, *Leak Assessment Report for Tank 241-SX-104 Interstitial Liquid Level Anomaly 2017,* determined the leak status should remain as "sound".	Table 4-1, Table 4-3
(35)	Status of Tank SX-110 changed from "assumed leaker" to "sound" per RPP-ASMT-47140, *Tank 241-SX-110 Leak Assessment Report*.	Table 4-1, Table 4-3
(45)	An "r" follows the year shown for tanks for which re-assessment of the current tank integrity classification is recommended because releases may be attributed to sources other than a tank leak. In many cases, a leak was suspected long before it was identified or confirmed. For example, SD-WM-SAR-006, *Single-Shell Tank Isolation Safety Analysis Report*, shows that Tank U-104 was suspected of leaking in 1956. The leak was confirmed in 1961. In 1984, the criteria designations of "suspected leaker," "questionable integrity," "confirmed leaker," "declared leaker," and "borderline and dormant" were merged into one category now reported as "assumed leaker." Catlin (1980) describes tanks designated as "assumed leakers" in 1980.	Table 4-2, Table 4-3
(48)	Leak volumes for these 19 tanks were previously assumed to be the same as the average leak volume for 18 of the 24 tanks identified in Baumhardt (1989) and Jensen/Merrill (1989). The total leak volume estimate for these tanks was 150 kgal (rounded to the nearest kgal), for an average of approximately 8 kgal for each of 19 tanks. This estimate is highly suspect and the leak/release volume for these tanks is assumed to be "0" except as noted.	Table 4-2, Table 4-3
(51)	These dates indicate when the tanks were declared to be interim stabilized in HNF-SD-RE-TI-178, Single-Shell Tank Interim Stabilization Record. In some cases, the official interim stabilization documents were issued later. Also, in some cases, the field work associated with interim stabilization was completed at an earlier date.	Table 4-2, Table 4-3
(56)	Tank T-111 was declared an "assumed re-leaker" on February 28, 1994, due to a decreasing trend in surface level measurement. This tank was pumped, and interim stabilization was completed on February 22, 1995. RPP-RPT-54964, *Evaluation of Tank 241-T-111 Level Data and In-Tank Video Inspection*, estimated that from 1995 to January 1, 2014, Tank T-111 leaked approximately 2,500 gal. The value reported in Table 4-2 sums the <1,000 gal reported in 1994, with the approximately 2,500 gal reported in 2013.	Table 4-2
(57)	The bases for tank leak/release volumes in A and AX farms are summarized in RPP-RPT-61279. Leak volumes were estimated for SSTs A-104 and A-105. The leak volume estimate for A-105 includes cooling water. • WHC-MR-0264, *Tank 241-A-105 Leak Assessment*, estimates nearly all the 610 kgal of cooling water added to tank A-105 may have evaporated. WHC-EP-0410, *Tank 241-A-105 Evaporation Estimate 1970 Through 1978*, estimates as little as 378 kgal may have evaporated. The estimated volume of cooling water leaked ranges from 0 to 232 kgal. Integrity assessments were conducted for Tanks A-103, AX-102 and AX-104 which were reclassified as "sound."	Table 4-2, Table 4-3

Table 6-1. Waste Tank Summary Report Endnotes (11 pages)

No.	Comment/Reference	Location
(58)	The bases for tank leak/release volumes in SX farm are summarized in RPP-RPT-61279. Tanks SX-107, SX-108, SX-109, SX-111, SX-112, SX-113, SX-114 and SX-115 appear to have leaked. The leak volume estimate for tank SX-108 includes water losses. • Between 1964 and 1970 liquid level decreases equating up to 101,000 gal were observed. The estimated undiluted tank waste leak volume based on Cs-137 vadose zone data was 11,000 gal. The remainder is attributed to water losses to the ground or atmosphere. Integrity assessments were conducted for tanks SX-104 and SX-110, which were reclassified as "sound."	Table 4-2, Table 4-3
(59)	The bases for tank leak/release volumes in TY farm are summarized in RPP-RPT-61279. Tanks TY-103, 104, 105 and 106 appear to have leaked. An integrity assessment was recommended for tank TY-101.	Table 4-2
(60)	As of 1/1/23 the estimated annulus waste volume is 2,000 gals (RPP-RPT-44630, *Derivation of Best-Basis Inventory for Tank 241-AY-102 as of January 1, 2023*).	Table 4-4
(61)	A reevaluation of the Tank C-105 leak integrity using TFC-ENG-CHEM-D-42 was completed in May 2010, concluding that a leak from the tank could not be ruled out by the evidence from recently completed Direct Push C7469 and other available data, and recommending that the leak integrity status be revised to "assumed leaker." The estimated leak volume was <2,000 gal (RPP-ASMT-46452).	Table 4-2
(63)	A leak assessment was performed because of the 0.5-in. liquid level decrease between early October 2005 and January 31, 2006. The leak assessment, issued on March 17, 2006, concluded that a tank leak was the most likely explanation for the level trend (RPP-RPT-29163, *Tank 241-ER-311 Leak Assessment Report*). The solids volume in the tank is not known. Sample activities conducted during November 1999 concluded that there were approximately 7 to 9 in. of solids beneath the east riser and no solids beneath the west riser (HNF-5985, *ER-311 Flammable Gas Response and Findings*). The remaining liquid in the tank was evaporated to dryness between October 13, 2006, and February 15, 2007. A subsequent video inspection on March 17, 2007, indicated no remaining free liquid was present (Olinger 2007d). There are ground level 4-inch risers to the tank; one located at the west end (location of the Enraf®) and one at the east end (Location of breather filter) (RPP-RPT-29163).	Table 5-1
(64)	A leak assessment was performed because of a steady, predictable liquid level decrease of approximately 0.33 in./year since the early 1980s. The tank was designated as an "assumed leaker" in 1985 but had no record of a formal leak assessment. The leak assessment report was issued on October 10, 2007 (RPP-ASMT-35057, *Tank 240-S-302 Leak Assessment Report*). A total of 6,265 gal of supernatant was pumped from the tank between September 21, 2008, and September 28, 2008. A solids level of 14.12 in. (1,361 gal) was measured with an Enraf®[1] densitometer on September 9, 2008. A post-pumping visual inspection showed a small 1-ft wide by 10-ft long pool of liquid centered beneath the pump, corresponding to less than 6 gal of free liquid. The remaining volume is estimated to be 1,360 to 1,660 gal, based on Enraf® and densitometer readings in different risers, and assuming that the solids are level across the tank.	Table 5-2

Table 6-1. Waste Tank Summary Report Endnotes (11 pages)

No.	Comment/Reference	Location
(65)	A leak assessment was performed because of the 0.7-in. level decrease between January 2004 and February 2006. The leak assessment concluded that a tank leak was the most likely explanation for the level trend. The leak assessment report was issued on May 12, 2006 (RPP-RPT-29711, *Tank 241-UX-302A Leak Assessment Report*). Pumping of the remaining free liquid from the tank was completed October 25, 2006 (Schepens 2006e). An estimated 75 to 110 gal of sludge and 10 gal of free liquid remained in the tank (RPP-RPT-31779, *241-UX-302A Catch Tank Liquid Mitigation Completion Report*). Following additional liquid intrusion, the tank was pumped August 27, 2009 (RPP-RPT-42789, *Completion of Removal of Pumpable Liquid From 241-UX-302A*), June 21, 2012, to August 7, 2012 (Work Package TFC-WO-11-5930 WCN-2), May 3, 2015 (Work Order #WO-163708), and November 2, 2016 (Work Order# 218270). Enraf® liquid level readings estimate that approximately 90 gallons of sludge and liquid remain in the tank as of 11/2/2016.	Table 5-2
(66)	A leak assessment was performed because of a 1.25-in. liquid level decrease between July 2006 and November 2006. The leak assessment concluded that the level decrease was the result of evaporation from an operating exhauster connected to catch tank 241-ER-311. This was confirmed when the exhauster was shut down and the liquid level stabilized. The tank remains classified as a "sound" tank. The leak assessment report was issued on June 25, 2007 (RPP-ASMT-33741, *Tank 241-EW-151 Leak Assessment Report*).	Table 5-2
(68)	241-AX-151 consists of four 50-gal diverter tanks (Tanks D – G) located in individual cells and the approximate 12,200-gal capacity 241-AX-151-CT catch tank (stainless steel lined concrete vault and sump) receiving drainage from the pump pit and the four cells.	Table 5-1
(69)	204-AR Customer Waste Unloading Facility includes a 1,500-gal catch tank enclosed in a stainless-steel lined pit and pit sump; combined capacity of the catch tank and pit are 4,550 gal (WHC-SD-WM-SAR-040, *Safety Analysis Report for the 204-AR Waste Unloading Facility*).	Table 5-1
(70)	244-CR Vault contains two 40-kgal tanks, CR-011 and CR-001, and two 15-kgal tanks, CR-002 and CR-003, in individual cells. The contents of the 244-CR Vault cells were pumped to Tank C-104 during retrieval of Tank C-104. Pumping was completed on March 10, 2010 (RPP-RPT-45845, *Completion of Pumpable Liquids Removal from 244-CR Vault*). The completion letter was sent to ORP on April 28, 2010 (Dunning 2010). Tank volumes except tank CR-001 and CR-003 are from RPP-RPT-24257, *244-CR Vault Liquid Level Assessment and Video Inspection Completion Report*. Following WRPS-PER-2012-0724, quarterly monitoring of Tank CR-001 was implemented in April 2013 by installation of an Enraf® monitoring device; the volume is derived from RPP-CALC-24219, *244-CR Vault Tank and Cell Volume Calculations*.	Table 5-1
(71)	Tank AZ-301 is an active part of the DST system.	Table 5-1
(72)	244-AR vault was interim-stabilized in 2003 (RPP-12051, *244-AR Vault Interim Stabilization Completion Report*). The tanks and cell sumps in the 244-AR Vault are monitored quarterly for signs of intrusion.	Table 5-1
(74)	Records in the waste information data system indicate that Tank 244-UR-004 did not contain radioactive material. The tank was used to stage nitric acid to the other 244-UR vault tanks during the uranium recovery process in the 1950s.	Table 5-2

Table 6-1. Waste Tank Summary Report Endnotes (11 pages)

No.	Comment/Reference	Location
(75)	On August 1, 2002, a video surveillance at the 242-TA receiver vault revealed that catch tank TA-R1 was floating off its foundation due to liquid at a depth of approximately 10 ft in the vault. It was observed that associated piping was damaged. Approximately 7,000 gal of liquid had accumulated in the vault. Pumping the liquid from the vault and resealing the cover plate to prevent further intrusion were completed November 26, 2003. The remaining liquid volume in the vault was not reported (Occurrence Report RP-CHG-TANKFARM-2002-0083, "Video Surveillance Reveals Catch Tank TA-R1 Floating Off of Its Foundation at 242-TA Vault").	Table 5-2
(76)	Reserved – See Hanford Administrative Record "Land Disposal Restrictions Storage Assessment and Data Gap Plan Inactive Miscellaneous Underground Storage Tanks (IMUSTs) 242-T-135 and 242-TA-R1, December 17, 2024, attachment to TPA Milestone M-026-01 PMM Meeting Minutes (reference AR-33618).	Table 5-2
(77)	Removed from service on March 23, 2001 (Occurrence Report RP-CHG-TANKFARM-2001-0014, "Catch Tank 152-AX Was Identified as a Potential Leaking Tank").	Table 5-1
(79)	Tank AX-102 integrity status was changed from "assumed leaker" to "sound" per RPP-ASMT-42628, *Tank 241-AX-102 Integrity Assessment Report*.	Table 4-3
(81)	Tank AX-104 integrity status was changed from "assumed leaker" to "sound" per RPP-ASMT-57574, *Tank 241-AX-104 Integrity Assessment Report*.	Table 4-3
(82)	Partially filled with grout February 1991, determined to be an assumed leaker after leak tests. No surface level or intrusion readings obtainable. Tank S-304 replaced 241-S-302A.	Table 5-2
(83)	241-TX-302-B(R) replaced 241-TX-302B and a new 241-TX-302B later replaced 241-TX-3(R).	Table 5-2
(84)	244-U-TK and 244-U-Sump were never placed in service. Per RPP-RPT-58156, "Tank 244-U was originally intended as the saltwell receiver for 241-U tank farm tanks. However, the tank was bypassed and never received saltwell waste."	Table 5-2
(85)	The following references provide additional information for the listed tanks: • Baumhardt, 1989: Tank B-101, B-103, B-105, B-107, B-110, B-111, B-112, B-203, B-204, BX-101, BX-102, BX-108, BX-110, BX-111, BY-105, BY-106, BY-107, C-101, C-203, S-104, SX-111, SX-112, SX-113, SX-114, T-103, T-106, T-107, T-109, TX-105, TX-107, TX-110, TX-113, TX-114, TX-115, TX-116, TX-117, TY-103, TY-104, TY-105, TY-106, U-101, U-104, U-110, and U-112 • Clark, 2012, Tank AY-102 • Tank AY-102 Monthly Monitoring Reports: RPP-RPT-59566, RPP-RPT-59601, RPP-RPT-59683, RPP-RPT-59728, RPP-RPT-59792, RPP-RPT-59885, RPP-RPT-59836, RPP-RPT-60196, RPP-RPT-60344, RPP-RPT-60241, RPP-RPT-60435, RPP-RPT-60584, RPP-RPT-60713 • Groth, 1987: Tanks C-201, C-202, and C-204 • PNL-4688, 1983: Tanks A-104, BY-103, BY-108, and SX-107 • RHO-RE-SR-14, 1984: Tank B-201 • RPP-ASMT-46452, 2010: Tank C-105 • HNF-3233, 1998: Tanks SX-108, SX-109, SX-111 and SX-112 • RPP-RPT-54964, 2014: Tank T-111 • WHC-MR-0300, 1992: Tank SX-108 • WHC-MR-0301, 1992: Tank SX-109 • WHC-MR-0302, 1992: Tank SX-115 • RPP-CALC-66615, 2024: Tank T-101 • WHC-TANKFARM-1994-0009, 1994: Tank T-111	Table 4-2, Table 4-3, Table 4-4

Table 6-1. Waste Tank Summary Report Endnotes (11 pages)

No.	Comment/Reference	Location
(86)	See RPP-RPT-50799, 2015, *Suspect Water Intrusion in Single-Shell Tanks*, Revision 2, for basis for intrusion decision and intrusion rates. Tanks SX-102 and T-111 are only discussed in Appendix B of RPP-RPT-50799 since the videos in these two tanks were obtained for reasons other than intrusion investigation.	Table 4-5, Table 4-6
(88)	See RPP-RPT-58849, 2015, *Fiscal Year 2015 Visual Inspection Report for Single-Shell Tanks*, Revision 0, for basis for intrusion decision.	Table 4-6
(89)	The Solids Volume Update is the date of the most recent BBI estimate or for tanks undergoing retrieval it is the date of the most recent engineering volume estimate.	Table 4-1
(90)	Tank AY-102 nominal waste volume estimate – Total waste in primary tank is approximately 10,000 gallons as of May 1, 2021. This volume does not include the waste in the annulus (RPP-RPT-44630, *Derivation of Best-Basis Inventory for Tank 241-AY-102 as of January 1, 2023*).	Table 2-1, Table 4-1
(91)	These 32 tanks are monitored on a quarterly basis per OSD-T-151-00031, *Operating Specifications for Tank Farm Leak Detection and Single-Shell Tank Intrusion Detection*, Table 4.1, Monitoring Device, Frequency, and Tank Specification Limits for MUSTs.	Table 5-1, Table 5-2
(92)	Tank Monitoring identified an intrusion in tank TX-302-C when level trend analysis showed a sharp increase in the level readings following a severe rainstorm on May 13, 2015. Subsequent level increases were also shown to correlate with precipitation events.	Table 5-2
(93)	Based on tank level readings in SACS, it has been concluded by the Tank Monitoring Group, Tank and Pipeline Integrity Group and the Design Authority that CR-244-001 has an intrusion. The tank is 19.7’ in diameter, has a height of 19’ (228”) with a calculated volume limit of 220.7” (RPP-CALC-24219, Table1). The current level in the tank is 40.39” which is roughly 4,800 gallons. The current level/volume of waste in the tank is 18.3% of the total calculated volume limit. The surface level in the tank is increasing, on average, 2.5” a year. Based on these calculations it will take an additional 72 years to reach the total calculated volume limit.	Table 5-2
(94)	See RPP-RPT-59272, *Fiscal Year 2016 Visual Inspection Report for Single-Shell Tanks*, for the bases for intrusion decision.	Table 4-5, Table 4-6
(95)	See RPP-RPT-60093, *Fiscal Year 2017 Visual Inspection Report for Single-Shell Tanks*, for the bases for intrusion decision.	Table 4-5
(96)	Visual inspections of the interior of catch tank 241-C-301 were performed on May 4 and May 11, 2018. The inspection included measurements of the current levels of solid and liquid in the tank. The results are summarized in a letter report, Interoffice Memorandum WRPS-1803745 “FY18 Visual Inspection of Tank 241-C-301” (Schofield 2018).	Table 5-1
(97)	See RPP-RPT-60565, *Fiscal Year 2018 Visual Inspection Report for Single-Shell Tanks*, for the bases for intrusion decision.	Table 4-5
(98)	Tank S-104 integrity status was changed from “assumed leaker” to “sound.” per RPP-ASMT-62316, *Leak Assessment Report for Tank 241-S-104.*	Table 4-3
(99)	The bases for tank leak/release volumes in B farm are summarized in RPP-RPT-61279. Tank B-107 appears to have had a liner leak. Integrity assessments were recommended for other B farm tanks classified as assumed leakers.	Table 4-2
(100)	The bases for tank leak/release volumes in BX farm are summarized in RPP-RPT-61279. Integrity assessments were recommended for all the BX-Farm tanks classified as assumed leakers and BX-107, currently classified as sound.	Table 4-2

Table 6-1. Waste Tank Summary Report Endnotes (11 pages)

No.	Comment/Reference	Location
(101)	The bases for tank leak/release volumes in BY farm are summarized in RPP-RPT-61279. B-103 appears to have leaked. Integrity assessments were recommended for all other BY Farm tanks, both assumed leakers and sound.	Table 4-2
(102)	The bases for tank leak/release volumes in C farm are summarized in RPP-RPT-61279. Integrity assessments were conducted for tanks C-105, C-110 and C-111, and were recommended for C-101 and the C-200 tanks. C-105 was reclassified as an assumed leaker and C-110 and C-111 were reclassified as sound. An informal assessment conducted for C-101 concluded the tank may have leaked near the spare inlet, but the liner was sound within 55 inches from the tank bottom and the tank could be retrieved by sluicing. There was no indication of a tank leak during retrieval for any of the C Farm tanks.	Table 4-2, Table 4-3
(103)	The bases for tank leak/release volumes in S farm are summarized in RPP-RPT-61279. An integrity assessment was conducted for tank S-104 and concluded the tank should be reclassified as “sound”.	Table 4-3
(104)	The bases for tank leak/release volumes in T farm are summarized in RPP-RPT-61279. T-106 and T-111 were determined to have leaked. Integrity assessments were recommended for other T Farm tanks currently classified as assumed leakers. A leak assessment report was issued for tank T-109 (RPP-ASMT-63776, *Leak Assessment Report for Tank 241-T-109*) and the recommendation of the leak assessment was that the integrity designation of tank T-109 should be changed from “assumed leaker” to “sound”.	Table 4-2, Table 4-3
(105)	The bases for tank leak/release volumes in TX farm are summarized in RPP-RPT-61279. TX-107 and TX-114 appear to have leaked. Integrity assessments were recommended for other TX Farm tanks currently classified as assumed leakers and for Tanks TX-104 and TX-118 currently classified as sound.	Table 4-2, Table 4-3
(106)	The bases for tank leak/release volumes in U farm are summarized in RPP-RPT-61279. Tanks U-104, U-110 and U-112 appear to have leaked. An integrity assessment was recommended for tank U-101.	Table 4-2
(108)	The DIL volumes were updated (RPP-RPT-60305, *Single-Shell Tank Updated Drainable Interstitial Liquid Volumes – 2017*) beginning with HNF-EP-0182, Rev. 375 to provide a consistent method for calculating the volume of DIL for each tank. RPP-RPT-60305 will be periodically updated to reflect new information as the Best-basis Inventory reports are updated. The DIL volumes are based on recent tank interstitial liquid and surface level measurements, recent Best Basis Inventory waste volumes, consistent and referenceable waste drainable porosities and capillary heights, and a consistent method for estimating tank waste volumes from waste liquid or waste surface level values. HNF-EP-0182, Rev. 409 was updated to reflect changes to the DIL identified in RPP-RPT-60305, Rev. 3, *Single-Shell Tank Updated Drainable Interstitial Liquid Volumes – 2020.*	Table 4-1
(109)	Tanks 241-EW-151, 241-TX-302C and 241-UX-302A have known intrusions (Environmental Operational Activities Notification #TOC-ENV-NOT:2018-4520, Rev. 1, dated 11/5/2018). Intrusion into tanks A-302-A and A-350 was identified on 5/20/2019 (Environmental Notification Form # TOC-ENV-NOT-2019-4546). Notification of intrusion for tanks 241-A-417, 241-AZ-151, 241-U-301-B, 244-A Tank, 244-AR TK-003, 244-CR-001, 244-CR-003 and 244-TX Tank can be found in TOC-ENV-NOT:2019-4560. Notification for Intrusion Detected in 244-AR Cell 3 Sump can be found in TOC-ENV-NOT-2014-4032. Intrusion into tank 241-A-302B was identified on 10/27/2021 (Environmental Notification Form # TOC-ENV-NOT-2021-4627). Notification for Intrusion Detected in 241-TX-302B can be found in TOC-ENV-NOT-2025-4754.	Table 5-2

Table 6-1. Waste Tank Summary Report Endnotes (11 pages)

No.	Comment/Reference	Location
(110)	Tank AX-102 nominal waste volume – Total waste 2.9 kgal (RPP-RPT-44740, *Derivation of Best-Basis Inventory Report for Tank 241-AX-102 as of January 1, 2021*). Tank AX-102 retrieval operations using first and second retrieval technologies are considered complete (RPP-RPT-62066, *Single-Shell Tank 241-AX-102 Retrieval Completion Report*).	Table 2-1
(111)	See RPP-RPT-61200, *Fiscal Year 2019 Visual Inspection Report for Single-Shell Tanks*, for the bases for intrusion decision.	Table 4-5
(112)	See RPP-RPT-62005, *Fiscal Year 2020 Visual Inspection Report for Single-Shell Tanks*, for the bases for intrusion decision.	Table 4-5
(113)	Tank AX-104 nominal waste volume – It is estimated that the residual volume after retrieval is 5,145 gal (RPP-RPT-63243, *Laser Scanning Waste Volume Estimate for Tank 241-AX-104*). Tank AX-104 retrieval operations using first and second retrieval technologies are considered complete (RPP-RPT-63643, *Single-Shell Tank 241-AX-104 Retrieval Completion Report*).	Table 2-1
(114)	Tank TX-113 integrity status was changed from "assumed leaker" to "sound" per RPP-ASMT-64217, *Leak Assessment Report for Tank 241-TX-113.*	Table 4-3
(115)	On April 29, 2021, the WRPS Executive Safety Review Board (ESRB) recommended that the current integrity status for tank B-109 should be changed from "sound" to "assumed leaker" and added to the list of "assumed leaker" SSTs in this report. Tank B-109 integrity status was changed from "sound" to "assumed leaker" per RPP-ASMT-64349, *Leak Assessment Report for Tank 241-B-109.*	Table 4-2
(116)	See RPP-RPT-59854, Rev.4, *Derivation of Best-Basis Inventory for Tank 241-AX-103 as of April 1, 2023*, for tank inventory calculations. Table 2-2 of the BBI lists a Total estimate of 5,875 gallons.	Table 2-1
(117)	See RPP-TE-58839, *Water Intrusion into Single-Shell Tank S-102*, for basis of intrusion decision or Environmental Notification Form # TOC-ENV-NOT-2022-4649.	Table 4-5
(118)	Intrusion into tanks 241-C-201, see RPP-TE-58847, *Water Intrusion into Tank 241-C-201,* for basis of decision or Environmental Notification Form # TOC-ENV-NOT-2022-4650. Intrusion into tanks 241-C-202, see RPP-TE-58845, *Water Intrusion into Tank 241-C-202,* for basis of decision or Environmental Notification Form # TOC-ENV-NOT-2022-4650. Intrusion into tanks 241-C-203, see RPP-TE-58843, *Water Intrusion into Tank 241-C-203,* for basis of decision or Environmental Notification Form # TOC-ENV-NOT-2022-4650. Intrusion into tanks 241-C-204, see RPP-TE-58842, *Water Intrusion into Tank 241-C-204,* for basis of decision or Environmental Notification Form # TOC-ENV-NOT-2022-4650.	Table 4-5
(119)	See RPP-RPT-63731, *Estimated Leak Volume for Single-Shell Tank 241-B-109,* for leak volume.	Table 4-2
(120)	See, RPP-RPT-62815, Revision 0, *Fiscal Year 2021 Visual Inspection Report for Single-Shell Tanks*, for basis for intrusion decision.	Table 4-6
(121)	Estimated volume in tank 241-AX-101 following Retrieval and laser scanning of the remaining solids was approximately 7,232 gallons (RPP-RPT-58620, Rev 12, *Derivation of Best-Basis Inventory for Tank 241-AX-101 as of October 1, 2025).* The retrieval completion certification letter was sent to Ecology on October 14, 2025 (25-TWO-0122).	Table 2-1
(122)	See, RPP-RPT-60565, Revision 0, *Fiscal Year 2018 Visual Inspection Report for Single-Shell Tanks*, and RPP-TE-58907, Revision 0, *Technical Evaluation of Tank 241-S-107 Waste Surface Level Trend*, for basis of intrusion decision.	Table 4-5

Table 6-1. Waste Tank Summary Report Endnotes (11 pages)

No.	Comment/Reference	Location
(123)	Tanks 241-TX-115 and 241-TX-116 were originally classified as Assumed Leakers, but assessments later returned their status to "Sound." The full report for the TX-115 Leak Assessment can be found in RPP-ASMT-65246, *Leak Assessment Report for Tank 241-TX-115,* and the notification to Ecology for the TX-116 Leak Assessment can be found in TOC-ENV-NOT-2023-4703. As of 10/31/2023, the official leak report for 241-TX-116 was still under review.	Table 4-3
(124)	Estimated volume in tank 241-A-101 at the end of October 2025 was approximately 10,428 gallons, based on Retrieval Engineering estimate of 10,201 gallons at the end of retrieval operations (Waymire, S. A. 2025-09-17), and an additional 227 gallons in October 2025 for post-retrieval flushing.	Table 2-1, Table 4-1
(125)	The status of tank 241-T-101 was changed from "Sound" to "Assumed Leaker" at the Executive Safety Review Board on August 15, 2024 (RPP-RPT-65071, Rev. 0, *2024 Leak Assessment Report for Tank 241-T-101*). RPP-CALC-66615, Rev. 0, *Estimated Leak Volume for Single-Shell Tank 241-T-101* estimates a leak of 2,410 gallons.	Table 4-1
(126)	See RPP-TE-59120, *Technical Evaluation of Potential Intrusion into Tank 241-BY-105* for the basis of intrusion decision on Tank 241-BY-105. See RPP-TE-59025, *Technical Evaluation of Potential Intrusion into Tank 241-TX-101* for the basis of intrusion decision on Tank 241-TX-101. See RPP-TE-65650, *Technical Evaluation, Interstitial Liquid Level (ILL) Evaluation for Tank 241-TX-103*, for the basis of intrusion decision on Tank 241-TX-103.	Table 4-5
(127)	Estimated volume in tank 241-A-102 at the end of June 2026 was approximately 7,093 gallons, based on an estimate of 6,982 gallons by Retrieval Engineering following the final flush and liquid displacement (RPP-CALC-68091) and a flush of 111 gallons added in May 2026.	Table 2-1, Table 4-1
(129)	Estimated volume in tank 241-A-106 at the end of June 2026 was approximately 13,479 gallons, based on a Retrieval Engineering estimate of 6,261 gallons following Batch 23 of retrieval operations (Nunez, V. M., 2026-06-01), 2,195 gallons of flush water added to A-106 during June 2026, and a net total of 5023 gallons sluiced back into A-106 from AP-101 during Retrieval Batches 24, 25 and 26 during June 2026.	Table 2-1, Table 4-1
(130)	See RPP-TE-65850, *Technical Evaluation of Potential Intrusion in Tank 241-BX-102* for the basis of intrusion decision on 241-BX-102. See RPP-TE-65851, *Technical Evaluation of Potential Intrusion in Tank 241-BX-106* for the basis of intrusion decision on 241-BX-106.	

DOE = U.S. Department of Energy
DST = double-shell tank
Ecology = Washington State Department of Ecology
ORP = U.S. Department of Energy, Office of River Protection
SST = single-shell tank
TWINS = Tank Waste Information Network System
WAC = Washington Administrative Code

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7.0 APPENDIX A – GLOSSARY

Term (abbreviation)	Definition or expansion
Administratively Interim Stabilized	A tank that meets interim stabilization criteria without the use of a jet pump, typically tanks that contained small waste inventories or experienced high rates of evaporation.
Annulus	The space between the inner and outer shells in DSTs only. Drain channels in the insulating and/or supporting concrete carry any leakage to the annulus space where Enraf® gauges are installed. The Enraf® gauges are the primary means of leak detection for all DSTs. The leak detection system may not be replaced by, but may be supplemented by, the operation of an annulus ventilation system CAM.
Annulus Pump Pit	The DST concrete pit used for the pump and piping required to empty waste from the annular space between the primary tank and secondary tank in the event of a leak from the primary tank. The annulus pump pit is connected to the DST center pump pit via installed underground piping; from the center pump pit, the waste will be returned to the primary tank or transferred to another DST. Primary tank emergency pumping using the annulus pump pit is described in HNF-3484.[a]
Assumed Leaker[b]	The integrity classification of a waste storage tank for which surveillance data indicates a loss of liquid to the environment attributed to a breach of integrity.
Assumed Leaker – Primary Tank[b]	The integrity classification of a DST for which surveillance data indicate a loss of liquid attributed to a breach of primary tank integrity.
Characterization	An understanding of the Hanford tank waste chemical, physical, and radiological properties to the extent necessary to ensure safe storage and interim operation, and ultimate disposition of the waste.
Closure	Final closure of the operable units (tank farms) is defined as regulatory approval of completion of closure actions and commencement of post-closure actions. Per the *Hanford Federal Facility Agreement and Consent Order*[c] Change Control Form, Change Number M-45-02-03, all units located within the boundary of each tank farm will be closed in accordance with WAC 173-303-610.[d]
Continuous Air Monitor (CAM)	The CAM passes a small portion of the DST annulus space exhaust airstream through filter paper that is continuously monitored for radiation. If airborne radioactive contamination is present in the annulus, it will collect on the filter paper. When the radiation count rate exceeds the preset alarm threshold, local and remote alarms are triggered.
Drainable Interstitial Liquid (DIL)	DIL is defined as the volume of interstitial liquid (i.e., liquid in the pores around the waste particles) estimated to drain from a tank if a hole was present in the bottom centerline of an SST through both the steel liner and the concrete shell. The calculated DIL volume in a tank is dependent on waste volume, liquid level, waste porosity, and capillary height (RPP-RPT-60305).
Drywells	Drywells are open bottom 6-in. or 8-in. steel casings placed vertically around an SST perimeter and extending between 75 ft and 200 ft below-grade. Historically, the drywells were monitored with gross gamma radiation logging tools as part of a secondary leak monitoring system. In some cases, neutron probes were used to monitor moisture in the soil as a function of well depth, which could be indicative of tank leakage. The routine gross gamma logging data were stored electronically from 1974 through 1994; a program was initiated in 1995 to log each of the available drywells in each tank farm with a spectral gamma logging system. The spectral gamma logging system provides quantitative values for gamma-emitting radionuclides. The baseline spectral gamma logging database is available electronically. The terms “drywells” and “boreholes” are used interchangeably.

Term (abbreviation)	Definition or expansion
Enraf® 854 ATG Level Detector	The Enraf® gauge, fabricated by Honeywell, determines waste level by detecting variations in the weight of a displacer lowered to the tank waste surface. Enraf® gauges transmit digital level data to TMACS via an Enraf® computer interface unit or to TFMCS via an interface unit manufactured by Gauging Systems Incorporated (GSI). Both TMACS and TFMCS transmit data to the OSISoft PI Historian so data may be displayed to HLAN users. The Enraf®/GSI computer interfaces allow fully remote communication with the gauge, minimizing tank farm entry.
Interim Stabilization	A tank that contains less than 50 kgal of DIL and less than 5 kgal of supernatant is interim-stabilized. If a jet pump was used to achieve interim stabilization, the jet pump flow or saltwell screen inflow must also have been at or below 0.05 gal/min before interim stabilization criteria are met. The basis for the 50 kgal DIL value and 0.05 gal/min value are in RHO-CD-1273.
Interstitial Liquid Level	The height of the residual liquid occupying the interstitial spaces in the solid waste heel of an interim stabilized SST.
Intrusion Prevention	The administrative designation reflecting the completion of the physical effort required to minimize the addition of liquids into an inactive storage tank, process vault, sump, catch tank, or diversion box. Under no circumstances are electrical or instrumentation devices disconnected or disabled during the intrusion prevention process (except for the electrical pump), in accordance with SD-WM-SAR-006.[e]
Jet Pump	The centrifugal pump and jet assembly used to pump the interstitial liquid from the saltwell screen into the pump pit, nominally a 40-ft elevation rise. Pumping rates vary from 0.05 to about 4 gal/min.
Laterals	Laterals are horizontal drywells positioned 8 to 10 ft under SSTs, three per tank, to detect radionuclides in the soil that could be indicative of tank leakage. These drywells can be monitored by radiation detection probes. Laterals are located only in A and SX Farms. There are currently no functioning laterals and no plan to prepare them for use.
Leak Detection Pits	Enclosed sumps collect drainage from the concrete foundations of the four AX Farm SSTs and the 28 DSTs. In the event of a breach of containment of the SST or the DST secondary tank, the leak detection pit drain system collects leakage from the drain channels cast in the foundation and directs it to the leak detection pit where it can be pumped to a nearby sound DST. A leak is detected by an increase in the leak detection pit liquid level. Only DST leak detection pits are monitored for increases.
Liquid Observation Well (LOW)	In-tank LOWs are used for monitoring the interstitial liquid level in SSTs. The wells are usually constructed of fiberglass or TEFZEL[f] F-reinforced epoxy-polyester resin. A few LOWs are constructed of steel. Gamma and neutron probes are used to monitor changes in the interstitial liquid level and can indicate intrusions or leakage by increases or decreases in the interstitial liquid level. OSD-T-151-00031,[g] identifies which LOWs are designated as the primary monitoring device in the SSTs. All the SST LOWs are monitored quarterly. Two LOWs installed in DSTs SY-102 and AW-103 are used for special, rather than routine, surveillance purposes only.
Modified Sluicing	Modified sluicing sprays supernatant or water onto the surface of SST waste to mobilize it to a slurry and direct it to the inlet of the slurry pump. The pump transfers the slurry to a DST where the slurry is allowed to settle out. The clarified liquid is pumped back to the SST sluicers for reuse. The method is referred to as *modified sluicing* to differentiate it from historical *past-practice sluicing* that used significantly higher sluice pressures and flow rates, and greater volumes.
Nominal Volume of Remaining Waste	Nominal volume of remaining waste is the best estimate of residual volume following retrieval. Retrieval data reports also provide the 95 percent upper confidence level volume as the bounding estimate of remaining waste.

Term (abbreviation)	Definition or expansion
Primary Tank	The metal inner tank of the DST structure that holds the radioactive liquid waste. The primary tank is constructed of high strength, stress-relieved steel to minimize the potential for cracking and is monitored for corrosion and leakage once placed in service.
Retrieval	Retrieval is the process of removing, to the maximum extent practical, all the waste from a given underground storage tank. The retrieval process is selected specific to each tank and accounts for the waste type stored and the access and support systems available. Per OSD-T-151-00031,[g] a tank is officially in "retrieval status" if one of following conditions is met: waste removal from the tank has been initiated by retrieval operations, preparations for retrieval operations are directly responsible for rendering a monitoring device out of service, or monitoring requirements have been transferred to a Tank Waste Retrieval Work Plan (TWRWP).
Saltcake	Saltcake is soluble salts in waste storage tanks formed by the evaporation of liquid waste from nuclear reactor fuels reprocessing, and is characterized by high porosity, interstitial liquid's ability to drain, and crystalline texture.
Saltwell Screen	The saltwell screen is a 10-in. diameter casing consisting of a stainless steel saltwell screen welded to a Schedule 40 carbon steel pipe. The casing and screen are to be inserted into a 12-in. tank riser located in the pump pit. The stainless-steel screen portion of the system extends through the tank waste to near the bottom of the tank.
Secondary Tank	The metal outer tank of the DST structure that holds radioactive liquid waste in the event of a breach in the primary tank. The annular space between the primary and secondary tanks is equipped with continuous leak detection to provide early warning of a primary tank leak and an access pit for insertion of emergency pumping equipment.
Sludge	Sludge is the insoluble hydrated metal oxides and fission products in waste storage tanks from nuclear reactor fuels reprocessing, and is characterized by low porosity, reduced ability for interstitial liquid to drain, and mud-like texture.
Sound[a]	The integrity classification of a waste storage tank for which surveillance data indicates no loss of liquid attributed to a breach of integrity.
Supernatant	Supernatant is the liquid above the solids or in large liquid pools in waste storage tanks.
Surface Levels	The surface level in all waste storage tanks is monitored by manual tape probes or Enraf® gauges and recorded and transmitted via the surveillance analysis computer system.
Thermocouple Tree	A thermocouple tree is installed in tanks to collect temperature data for process control and for determining compliance with temperature-based operating specifications. The thermocouple tree is typically a closed, 2-in. diameter steel pipe extending to within 6-in. of the tank bottom. Eighteen or more thermocouples are placed inside the pipe, spaced at vertical intervals of 6-in. to about 24-in., depending on the thermocouple design and intended purpose. Thermocouple leads terminate above-grade in a terminal box monitored locally or by TMACS. SST thermocouple trees that fail are not replaced.
Total Waste	For purposes of this document, total waste is solids volume (sludge and saltcake, including liquids) plus supernatant.
Weight Factor	The weight factor is an indirect method of determining the tank liquid level by measuring the air pressure necessary to overcome the hydrostatic head in an open-end vertical steel pipe terminated about 2-in. above the tank floor. The "uncorrected weight factor" is the difference between the hydrostatic head pressure in the pipe and the air pressure in the tank headspace, expressed in inches of water. To eliminate the liquid density bias that affects the uncorrected weight factor measurement, a second vertical pipe is located in the liquid, terminated 10-in. above the first pipe. The difference in hydrostatic head between the two pipes is converted to specific gravity (i.e., ratio of the liquid density to water density); the uncorrected weight factor divided by the specific gravity yields the "corrected weight factor," which is the true liquid height in the tank.

Term (abbreviation)	Definition or expansion
Zip Cord	The zip cord is a primitive liquid level detection device consisting of a calibrated insulated wire pair to which electrodes have been attached. To make the measurement, the zip cord is slowly lowered to a point where the liquid surface is contacted by the electrodes. The liquid level reading is recorded when the portable direct current meter connected between the wire leads registers zero ohm resistance.

[a] RHO-RE-SR-14, 1984, *Waste Status Summary October 1984*, Rockwell Hanford Operations, Richland, Washington.

[b] Clark, W. C., 2012, "Contract Number DE AC27 08RV1480 – Washington River Protection Solutions, LLC Tank 241-AY-102 Primary Tank Leak Integrity Change from Sound to Assumed Leaker, and Double-Shell Waste Tank Leak Integrity Definitions," (Letter WRPS-1204634 to T. W. Fletcher, U.S. Department of Energy, Office of River Protection, November 13), Washington River Protection Solutions, LLC, Richland, Washington.

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[d] WAC 173-303-610, "Dangerous Waste Regulations," Section 610, "Closure and Post-Closure," *Washington Administrative Code*, as amended, Washington State Department of Ecology, Olympia, Washington.

[e] SD-WM-SAR-006, 1986, *Single-Shell Tank Isolation Safety Analysis Report*, Rev. 2, Rockwell Hanford Operations, Richland, Washington.

[f] TEFZEL is a trademark of E. I. du Pont de Nemours & Company, Wilmington, Delaware.

[g] OSD-T-151-00031, 2025, *Operating Specifications for Tank Farm Leak Detection and Single-Shell Tank Intrusion Detection*, Rev. 27, Hanford Tank Waste Operations & Closure, LLC, Richland, Washington.

CAM = continuous air monitor.
DIL = drainable interstitial liquid.
DST = double-shell tank.
LOW = liquid observation well.
SST = single-shell tank.
TMACS = tank monitor and control system.
WAC = Washington Administrative Code.

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