APPENDIX F

SINGLE-SHELL TANK RETRIEVAL

SUPPORTING DOCUMENTATION

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APPENDIX F

SINGLE-SHELL TANK RETRIEVAL SUPPORTING DOCUMENTATION

F1.0 INTRODUCTION

This appendix contains the documentation that supports the single-shell tank (SST) retrieval during the overall mission. Section F1.1 contains data supporting the Case 3S6E (2006 Hot Start) scenario presented in Section 5.2.2 of the main body of this document (Volume I). Section F2.0 includes the figures and data supporting the sensitivity cases introduced in Section 5.3 of Volume I.

F1.1 SINGLE-SHELL TANK RETRIEVAL SEQUENCE TABLE

Case 3S6E (2006 Hot Start) was developed to integrate DOE's Phase 1 guidance with the Risk-Based SST Retrieval Strategy. The 2006 Hot Start scenario supports SST retrieval after the Phase 1 feed delivery commitments have been satisfied. SST waste will be retrieved into DSTs as space becomes available or into WRFs as those facilities come on line. The Phase 1 LAW and HLW processing design capacities increase on 3/1/2018 to 120 MT/day for LAW and 12 MT/day for HLW (both LAW and HLW operating at 60% TOE of design capacity) by the addition of second LAW and HLW processing facilities. Past direction led to the assumption that the second LAW glass plant would become available in 2012. However, Phase 1 delivery commitments tie up staging tanks and prevented effective use of the second LAW plant until 2018.

With these constraints, SST retrieval completes in 2028. LAW processing is completed in 2031 and HLW processing completes in 2032. The projected retrieval sequence and timing for the 2006 Hot Start Case is presented in Figure 5.2-1 of Volume I. The retrieval data associated with Figure 5.2-1 is presented in Table F1-1.

Table F1-1. 2006 Hot Start Single-Shell Tank Retrieval Data (4 sheets).

Tank	Retrieval start date	Retrieval duration (days)	Retrieval end date	Retrieved liquid vol. (gal)	Retrieved Solids vol. (gal)	Total retrieved vol. (gal)
241-S-103	1/1/2004	3811	6/8/2014	749,273	2,993	752,266
241-C-104	1/1/2008	185	7/4/2008	718,807	48,093	766,900
241-U-201	1/1/2009	7	1/8/2009	22,998	780	23,778
241-U-203	1/1/2009	6	1/7/2009	11,629	394	12,023
241-U-202	1/7/2009	923	7/19/2011	22,997	780	23,777
241-U-204	1/8/2009	922	7/19/2011	15,706	576	16,282
241-SX-105	7/9/2011	2437	3/11/2018	1,041,953	10,761	1,052,714
241-U-109	7/19/2011	1758	5/11/2016	1,340,613	24,874	1,365,487
241-SX-103	7/19/2011	1871	9/1/2016	1,141,170	7,314	1,148,484
241-TX-112	10/1/2011	1844	10/18/2016	2,225,306	24,700	2,250,006
241-T-105	10/1/2011	92	1/1/2012	286,747	9,433	296,180

Table F1-1. 2006 Hot Start Single-Shell Tank Retrieval Data (4 sheets).

Tank	Retrieval start date	Retrieval duration (days)	Retrieval end date	Retrieved liquid vol. (gal)	Retrieved Solids vol. (gal)	Total retrieved vol. (gal)
241-T-102	1/1/2012	1535	3/15/2016	294,928	10,973	305,901
241-C-107	5/1/2012	158	10/6/2012	467,094	27,406	494,500
241-S-102	12/12/2013	336	11/13/2014	1,002,605	11,207	1,013,812
241-S-105	6/8/2014	293	3/28/2015	1,417,154	3,535	1,420,688
241-S-106	11/13/2014	299	9/8/2015	1,276,691	5,897	1,282,588
241-S-108	3/28/2015	398	4/29/2016	1,458,206	5,559	1,463,765
241-S-109	9/8/2015	503	1/23/2017	1,602,566	4,793	1,607,358
241-BY-102	3/15/2016	288	12/28/2016	1,068,473	18,570	1,087,043
241-S-112	4/29/2016	881	9/27/2018	1,616,344	7,919	1,624,263
241-BX-106	5/11/2016	68	7/18/2016	154,824	5,452	160,276
241-BX-104	7/18/2016	320	6/3/2017	695,856	25,638	721,494
241-BX-103	9/1/2016	124	1/3/2017	175,941	6,703	182,644
241-TX-101	10/18/2016	396	11/18/2017	408,984	12,865	421,849
241-BY-112	12/28/2016	519	5/31/2018	1,351,224	21,477	1,372,701
241-B-108	1/3/2017	324	11/23/2017	259,268	8,907	268,175
241-TY-102	1/23/2017	368	1/26/2018	247,297	578	247,875
241-SX-102	6/3/2017	708	5/12/2019	1,300,077	11,519	1,311,596
241-TX-106	11/18/2017	298	9/12/2018	1,230,690	6,728	1,237,419
241-U-108	11/23/2017	406	1/3/2019	1,453,026	26,237	1,479,263
241-S-111	1/26/2018	445	4/16/2019	1,438,255	49,413	1,487,668
241-A-101	3/11/2018	562	9/24/2019	1,543,632	21,464	1,565,097
241-AX-103	5/31/2018	150	10/28/2018	331,125	3,088	334,213
241-BY-111	9/12/2018	283	6/22/2019	1,718,880	21,470	1,740,350
241-TX-111	9/27/2018	241	5/26/2019	1,170,454	14,212	1,184,666
241-AX-101	10/28/2018	485	2/25/2020	1,157,294	3,759	1,161,053
241-SX-106	1/3/2019	330	11/29/2019	640,440	10,401	650,840
241-U-105	4/16/2019	244	12/16/2019	1,166,815	10,856	1,177,671
241-U-103	5/12/2019	283	2/19/2020	1,314,486	5,727	1,320,213
241-TX-102	5/26/2019	168	11/10/2019	736,228	7,861	744,088
241-SX-101	6/22/2019	304	4/21/2020	1,024,292	12,054	1,036,346
241-C-109	9/24/2019	91	12/24/2019	301,820	11,509	313,329
241-TX-118	11/10/2019	230	6/27/2020	903,592	17,747	921,339
241-BY-101	11/29/2019	248	8/3/2020	1,068,279	20,654	1,088,933
241-U-102	12/16/2019	272	9/13/2020	1,385,962	14,976	1,400,938
241-C-108	12/24/2019	116	4/18/2020	202,255	7,566	209,821
241-U-107	2/19/2020	274	11/19/2020	625,114	8,330	633,445
241-C-102	2/25/2020	271	11/22/2020	830,631	30,453	861,085
241-BX-105	4/18/2020	70	6/27/2020	154,705	5,135	159,841
241-A-102	4/21/2020	117	8/16/2020	99,955	2,315	102,269
241-TX-108	6/27/2020	129	11/3/2020	445,782	7,076	452,857
241-B-102	6/27/2020	64	8/30/2020	137,291	2,774	140,065
241-BY-109	8/3/2020	265	4/25/2021	950,744	14,211	964,955
241-S-107	8/16/2020	242	4/15/2021	995,461	33,849	1,029,309
241-S-110	8/30/2020	258	5/15/2021	1,251,351	41,040	1,292,391
241-U-106	9/13/2020	209	4/10/2021	647,223	2,725	649,947
241-TX-104	11/3/2020	99	2/10/2021	123,334	3,892	127,226
241-U-111	11/19/2020	270	8/16/2021	946,667	7,564	954,231
241-B-106	11/22/2020	100	3/2/2021	162,875	5,311	168,186
241-A-106	2/10/2021	145	7/5/2021	204,790	7,734	212,525
241-BX-107	3/2/2021	256	11/13/2021	791,157	31,795	822,951
241-C-105	4/10/2021	149	9/6/2021	398,129	13,157	411,286

Table F1-1. 2006 Hot Start Single-Shell Tank Retrieval Data (4 sheets).

Tank	Retrieval start date	Retrieval duration (days)	Retrieval end date	Retrieved liquid vol. (gal)	Retrieved Solids vol. (gal)	Total retrieved vol. (gal)
241-B-109	4/15/2021	106	7/30/2021	547,332	17,758	565,091
241-BY-110	4/25/2021	341	4/1/2022	1,416,878	16,925	1,433,803
241-TX-103	5/15/2021	140	10/2/2021	533,748	5,472	539,220
241-C-112	7/5/2021	151	12/3/2021	496,404	19,446	515,850
241-T-110	7/30/2021	224	3/11/2022	293,362	10,934	304,296
241-T-104	8/16/2021	236	4/9/2022	516,014	17,857	533,871
241-BX-112	9/6/2021	180	3/5/2022	330,512	11,976	342,488
241-BX-109	10/2/2021	205	4/25/2022	278,361	10,642	289,002
241-T-204	11/13/2021	23	12/6/2021	56,968	2,198	59,165
241-T-203	12/3/2021	21	12/24/2021	59,034	2,243	61,277
241-T-201	12/6/2021	18	12/24/2021	111,846	4,107	115,952
241-T-202	12/24/2021	15	1/8/2022	33,473	1,280	34,753
241-B-202	12/24/2021	77	3/11/2022	29,815	1,123	30,938
241-TX-109	1/8/2022	247	9/12/2022	567,328	15,561	582,890
241-C-103	3/5/2022	75	5/19/2022	424,747	16,738	441,484
241-S-101	3/11/2022	267	12/3/2022	1,635,489	48,333	1,683,822
241-B-104	3/11/2022	272	12/8/2022	612,264	12,584	624,847
241-BY-104	4/1/2022	301	1/27/2023	1,257,091	11,397	1,268,488
241-SX-109	4/9/2022	205	10/31/2022	1,137,708	33,475	1,171,183
241-B-101	4/25/2022	115	8/18/2022	442,749	2,433	445,182
241-B-103	5/19/2022	75	8/2/2022	193,625	3,955	197,580
241-SX-104	8/2/2022	475	11/20/2023	1,189,426	9,463	1,198,889
241-AX-102	8/18/2022	110	12/6/2022	76,024	1,132	77,156
241-TX-105	9/12/2022	354	9/1/2023	2,069,790	21,843	2,091,633
241-BX-111	10/31/2022	145	3/25/2023	523,498	6,832	530,330
241-BX-110	12/3/2022	176	5/28/2023	696,754	13,704	710,458
241-B-105	12/6/2022	226	7/20/2023	393,787	2,531	396,318
241-SX-114	12/8/2022	233	7/29/2023	870,767	27,350	898,117
241-BY-106	1/27/2023	412	3/14/2024	2,227,488	26,940	2,254,428
241-B-107	3/25/2023	159	8/31/2023	442,438	17,857	460,295
241-AX-104	5/28/2023	36	7/3/2023	92,322	3,417	95,739
241-U-104	7/3/2023	103	10/14/2023	265,763	6,950	272,712
241-C-110	7/20/2023	249	3/25/2024	278,985	10,999	289,985
241-SX-111	7/29/2023	199	2/13/2024	609,989	18,867	628,856
241-A-105	8/31/2023	84	11/23/2023	333,900	7,646	341,545
241-TX-115	9/1/2023	479	12/23/2024	1,928,583	21,060	1,949,643
241-TY-103	10/14/2023	142	3/4/2024	410,335	17,007	427,343
241-SX-110	11/20/2023	272	8/18/2024	309,041	9,579	318,620
241-B-112	11/23/2023	65	1/27/2024	39,326	1,502	40,827
241-TY-106	1/27/2024	94	4/30/2024	132,395	4,984	137,379
241-SX-112	2/13/2024	380	2/27/2025	536,807	16,619	553,425
241-A-104	3/4/2024	184	9/4/2024	240,047	7,928	247,975
241-TX-114	3/14/2024	558	9/23/2025	1,859,616	18,633	1,878,249
241-BY-103	3/25/2024	254	12/4/2024	1,257,895	17,577	1,275,472
241-BX-101	4/30/2024	86	7/25/2024	286,490	10,706	297,195
241-TY-104	7/25/2024	93	10/26/2024	160,042	5,458	165,500
241-SX-107	8/18/2024	384	9/6/2025	543,056	17,399	560,455
241-T-101	9/4/2024	175	2/26/2025	760,534	30,058	790,592
241-U-110	10/26/2024	340	10/1/2025	1,391,384	48,570	1,439,954
241-BY-107	12/4/2024	203	6/25/2025	1,118,471	18,080	1,136,551
241-TX-113	12/23/2024	552	6/28/2026	1,696,642	23,009	1,719,651

Table F1-1. 2006 Hot Start Single-Shell Tank Retrieval Data (4 sheets).

Tank	Retrieval start date	Retrieval duration (days)	Retrieval end date	Retrieved liquid vol. (gal)	Retrieved Solids vol. (gal)	Total retrieved vol. (gal)
241-BX-108	2/26/2025	63	4/30/2025	43,667	1,884	45,550
241-SX-108	2/27/2025	392	3/26/2026	363,673	10,518	374,190
241-BX-102	4/30/2025	91	7/30/2025	184,683	6,575	191,258
241-BY-105	6/25/2025	304	4/25/2026	1,535,622	28,253	1,563,875
241-TY-101	7/30/2025	221	3/8/2026	766,317	26,658	792,975
241-SX-115	9/6/2025	121	1/5/2026	53,006	1,351	54,357
241-TX-110	9/23/2025	417	11/14/2026	1,496,609	18,114	1,514,723
241-T-112	10/1/2025	203	4/22/2026	111,485	3,604	115,089
241-T-103	1/5/2026	106	4/21/2026	253,681	9,409	263,089
241-T-109	3/8/2026	123	7/9/2026	217,276	1,705	218,981
241-U-112	3/26/2026	82	6/16/2026	294,992	10,318	305,310
241-C-101	4/21/2026	87	7/17/2026	224,174	7,197	231,370
241-T-107	4/22/2026	133	9/2/2026	394,224	13,550	407,774
241-BY-108	4/25/2026	173	10/15/2026	536,711	12,690	549,402
241-T-108	6/16/2026	70	8/25/2026	128,229	5,244	133,472
241-TX-117	6/28/2026	528	12/8/2027	2,107,643	17,314	2,124,958
241-C-111	7/9/2026	75	9/22/2026	366,985	13,317	380,303
241-U-101	7/17/2026	61	9/16/2026	108,907	3,366	112,274
241-SX-113	8/25/2026	98	12/1/2026	174,972	6,353	181,325
241-T-106	9/2/2026	58	10/30/2026	128,367	4,660	133,026
241-C-203	9/16/2026	214	4/18/2027	26,929	1,133	28,062
241-C-204	9/22/2026	232	5/12/2027	45,422	1,781	47,203
241-B-111	10/15/2026	157	3/21/2027	316,533	12,104	328,637
241-TY-105	10/30/2026	206	5/24/2027	471,071	19,761	490,831
241-TX-116	11/14/2026	497	3/25/2028	2,032,725	30,388	2,063,113
241-S-104	12/1/2026	306	10/3/2027	1,689,491	54,864	1,744,355
241-B-110	3/21/2027	162	8/30/2027	356,517	15,104	371,621
241-C-201	4/18/2027	92	7/19/2027	15,841	610	16,450
241-C-202	5/12/2027	73	7/24/2027	6,732	280	7,011
241-T-111	5/24/2027	287	3/6/2028	618,496	23,155	641,651
241-A-103	7/19/2027	336	6/19/2028	1,127,777	4,893	1,132,671
241-B-201	7/24/2027	18	8/11/2027	93,356	3,500	96,857
241-B-203	8/11/2027	28	9/8/2027	81,667	3,167	84,833
241-B-204	8/30/2027	28	9/27/2027	67,412	2,758	70,170
241-TX-107	12/8/2027	89	3/6/2028	106,826	1,781	108,608

F2.0 SINGLE-SHELL TANK RETRIEVAL SENSITIVITY CASES SUPPORTING DOCUMENTATION

F2.1 INCREASED HIGH-LEVEL WASTE PROCESSING RATE TO KEEP THE LOW-ACTIVITY WASTE FACILITY OPERATING

During Phase 2 of the 2006 Hot Start scenario, the Phase 1 IHLW plant production rate is increased to 7.2 MT/day (12 MT/day) at 60% TOE). Similarly, the Phase 1 ILAW production rate is increased to 72 MT/day (120 MT/day) at 60% TOE). Based on the current tank inventories, wash/leach factors and production rates, HTWOS model runs have shown that the HLW plants are undersized relative to the LAW production rate. This discrepancy in size results in LAW production slowdowns or even shutdowns during the mission.

Therefore, a sensitivity case was run that shows the effect of changing HLW capacity. Analysis of the data shows that an increase of the Phase 2 HLW melter throughput from 7.2 to 8.4 MT/day (12 to14 MT/day at 60% TOE) was enough to keep the LAW plant operating at an average of 96 percent of capacity (72 MT/day) during Phase 2. Retrieval of SST waste is completed in 2027 and both HLW and LAW processing complete in 2030. Figure F2-1 shows the projected retrieval sequence and timing for this sensitivity case. Table F2-1 lists the retrieval data associated with Figure F2-1.

F2.2 INCREASED PROCESSING RATES TO COMPLETE PROCESSING BY 2028

The PIO guidance gave direction to complete processing of HLW and LAW by 2028. Both the 2006 Hot Start scenario and the increased HLW plant capacities sensitivity case failed to achieve this goal. The previous Section (F2.1) showed that by increasing the HLW processing rate relative to the LAW processing rate, the LAW plant could be kept operating at close to full capacity during Phase 2. Working from this "balanced" case, the HLW and LAW processing rates were increased proportionately by 25 percent to achieve completion of processing by 2028. The HLW processing rate was increased to 10.5 MT/day (17.5 MT/day at 60% TOE) and the LAW processing rate was increased to 90 MT/day (150 MT/day at 60% TOE). Under these conditions, retrieval of SST waste is completed two years earlier, in 2026, than the 2006 Hot Start scenario. More importantly, both HLW and LAW processing complete in 2028, at least three years earlier than the 2006 Hot Start scenario. Figure F2–2 shows the projected retrieval sequence and timing for this sensitivity case. Table F2–2 lists the retrieval data associated with Figure F2–2.

F2.3 INCREASED SINGLE-SHELL TANK WASTE RETRIEVAL RATES

The purpose of this sensitivity case is to show the effect of increased SST waste retrieval rates on the mission. The increased rates were modeled using an algorithm that reflects more realistic retrieval durations (less than one year). Insoluble solids (sludges) are retrieved as 10 weight percent solids slurry at 350 gallons per minute to maintain sufficient transfer velocities in 3-inch piping to avoid settling solids and to support high-volume/high pressure sluicing. Soluble salts (saltcake) are retrieved as 5 molar caustic concentrations at 50 gallons per minute.

The increased retrieval rates have the effect of reducing the amount of incidental blending that occurs during waste retrievals and staging. This reduction in blending would naturally generate more glass, and since the vitrification process is the rate-limiting step, the overall mission takes longer to complete. The HTWOS model actually creates this effect artificially. The effect could be minimized or even eliminated by modeling additional mixing transfers between DSTs to enhance blending. This additional blending is very likely to be performed during the actual mission, tank space permitting, to achieve the same result. However, with the vitrification process remaining as the rate-limiting step, little improvement can be expected from increasing the retrieval rates at these processing rates.

Under these parameters, retrieval of SST waste is completed almost a year later, in 2029, than the 2006 Hot Start scenario. HLW processing completes in 2033 and LAW processing completes in 2032, a year later than the 2006 Hot Start scenario. Figure F2-3 shows the projected retrieval sequence and timing for this sensitivity case. Table F2-3 lists the retrieval data associated with Figure F2-3.

F2.4 APPLICATION OF TANK-SPECIFIC LEACH FACTORS DURING PHASE 2

The purpose of this sensitivity case is to determine the impact of applying tank-specific caustic leach factors to HLW retrieved from tanks during Phase 2. Case 3S6E applies global caustic leach factors to HLW during Phase 2. The quantity of HLW glass produced is determined by the fraction of leached sludge that will dissolve into the molten glass (waste oxide loading = mass of waste oxides/mass of glass). The quantity of HLW glass produced during Phase 2 is largely determined by the chromium content of the sludge. The global leach factor for chromium was overestimated due to the limited experimental data available at the time it was calculated. Individual leach factors for each tank were calculated using additional experimental data after the global leach factors were developed.

The impact of applying tank-specific caustic leach factors to HLW retrieved from tanks during Phase 2 is an increase of 12,000 IHLW canisters – an approximate 100% increase over 3S6E. This significant increase in IHLW canisters is caused largely by a proportional decrease in the amount of chromium leached from HLW sludge. Since HLW glass has a 0.5 weight percent limit of chromium oxide, the chromium content in leached HLW sludge can have a major impact on the amount of HLW glass produced. Another sludge pretreatment process, referred to as oxidative leaching, has been shown to remove more chromium from Hanford tank sludge than does caustic leaching. However, development of the oxidative leaching process is

not yet mature and therefore results of the process tests cannot be applied to Phase 2 HLW without an assumption regarding pretreatment or melter selection.

Under these parameters of this sensitivity case, retrieval of SST waste is completed 12 years later, in 2040, than the 2006 Hot Start scenario. HLW processing completes about 14 years later, in 2045, and LAW processing completes about 12 years later, in 2043, than the 2006 Hot Start scenario. Figure F2-4 shows the projected retrieval sequence and timing for this sensitivity case. Table F2-4 lists the retrieval data associated with Figure F2-4.

Table F2-1. Single-Shell Tank Retrieval Data with Balanced Low-Activity Waste and High-Level Waste Processing Rates (3 sheets).

Tank	Retrieval start date	Retrieval duration (days)	Retrieval end date	Retrieved liquid vol. (gal)	Retrieved Solids vol. (gal)	Total retrieved vol. (gal)
241-S-103	1/1/2004	3811	6/8/2014	749,273	2,993	752,266
241-C-104	1/1/2008	185	7/4/2008	718,807	48,093	766,900
241-U-201	1/1/2009	7	1/8/2009	22,998	780	23,778
241-U-203	1/1/2009	6	1/7/2009	11,629	394	12,023
241-U-202	1/7/2009	923	7/19/2011	22,997	780	23,777
241-U-204	1/8/2009	922	7/19/2011	15,706	576	16,282
241-SX-105	7/9/2011	2437	3/11/2018	1,041,953	10,761	1,052,714
241-U-109	7/19/2011	1758	5/11/2016	1,340,613	24,874	1,365,487
241-SX-103	7/19/2011	1871	9/1/2016	1,141,170	7,314	1,148,484
241-TX-112	10/1/2011	1844	10/18/2016	2,225,306	24,700	2,250,006
241-T-105	10/1/2011	92	1/1/2012	286,747	9,433	296,180
241-T-102	1/1/2012	1535	3/15/2016	294,928	10,973	305,901
241-C-107	5/1/2012	158	10/6/2012	467,094	27,406	494,500
241-S-102	12/12/2013	336	11/13/2014	1,002,605	11,207	1,013,812
241-S-105	6/8/2014	293	3/28/2015	1,417,154	3,535	1,420,688
241-S-106	11/13/2014	299	9/8/2015	1,276,691	5,897	1,282,588
241-S-108	3/28/2015	398	4/29/2016	1,458,206	5,559	1,463,765
241-S-109	9/8/2015	503	1/23/2017	1,602,566	4,793	1,607,358
241-BY-102	3/15/2016	288	12/28/2016	1,068,473	18,570	1,087,043
241-S-112	4/29/2016	870	9/16/2018	1,616,344	7,919	1,624,263
241-BX-106	5/11/2016	68	7/18/2016	154,824	5,452	160,276
241-BX-104	7/18/2016	320	6/3/2017	695,856	25,638	721,494
241-BX-103	9/1/2016	124	1/3/2017	175,941	6,703	182,644
241-TX-101	10/18/2016	396	11/18/2017	408,984	12,865	421,849
241-BY-112	12/28/2016	519	5/31/2018	1,351,224	21,477	1,372,701
241-B-108	1/3/2017	324	11/23/2017	259,268	8,907	268,175
241-TY-102	1/23/2017	368	1/26/2018	247,297	578	247,875
241-SX-102	6/3/2017	708	5/12/2019	1,300,077	11,519	1,311,596
241-TX-106	11/18/2017	298	9/12/2018	1,230,690	6,728	1,237,419
241-U-108	11/23/2017	406	1/3/2019	1,453,026	26,237	1,479,263
241-S-111	1/26/2018	445	4/16/2019	1,438,255	49,413	1,487,668
241-A-101	3/11/2018	563	9/25/2019	1,543,632	21,464	1,565,097
241-AX-103	5/31/2018	150	10/28/2018	331,125	3,088	334,213
241-BY-111	9/12/2018	283	6/22/2019	1,718,880	21,470	1,740,350
241-TX-111	9/16/2018	241	5/15/2019	1,170,454	14,212	1,184,666
241-AX-101	10/28/2018	485	2/25/2020	1,157,294	3,759	1,161,053
241-SX-106	1/3/2019	330	11/29/2019	640,440	10,401	650,840
241-U-105	4/16/2019	251	12/23/2019	1,166,815	10,856	1,177,671
241-U-103	5/12/2019	280	2/16/2020	1,314,486	5,727	1,320,213
241-TX-102	5/15/2019	168	10/30/2019	736,228	7,861	744,088
241-SX-101	6/22/2019	304	4/21/2020	1,024,292	12,054	1,036,346
241-C-109	9/25/2019	90	12/24/2019	301,820	11,509	313,329
241-TX-118	10/30/2019	230	6/16/2020	903,592	17,747	921,339
241-BY-101	11/29/2019	248	8/3/2020	1,068,279	20,654	1,088,933
241-U-102	12/23/2019	248	8/27/2020	1,385,962	14,976	1,400,938
241-C-108	12/24/2019	116	4/18/2020	202,255	7,566	209,821
241-U-107	2/16/2020	246	10/19/2020	625,114	8,330	633,445
241-C-102	2/25/2020	239	10/21/2020	830,631	30,453	861,085

Table F2-1. Single-Shell Tank Retrieval Data with Balanced Low-Activity Waste and High-Level Waste Processing Rates (3 sheets).

Tank	Retrieval start date	Retrieval duration (days)	Retrieval end date	Retrieved liquid vol. (gal)	Retrieved Solids vol. (gal)	Total retrieved vol. (gal)
241-BX-105	4/18/2020	70	6/27/2020	154,705	5,135	159,841
241-A-102	4/21/2020	111	8/10/2020	99,955	2,315	102,269
241-TX-108	6/16/2020	129	10/23/2020	445,782	7,076	452,857
241-B-102	6/27/2020	64	8/30/2020	137,291	2,774	140,065
241-BY-109	8/3/2020	265	4/25/2021	950,744	14,211	964,955
241-S-107	8/10/2020	242	4/9/2021	995,461	33,849	1,029,309
241-U-106	8/27/2020	150	1/24/2021	647,223	2,725	649,947
241-S-110	8/30/2020	261	5/18/2021	1,251,351	41,040	1,292,391
241-U-111	10/19/2020	208	5/15/2021	946,667	7,564	954,231
241-B-106	10/21/2020	100	1/29/2021	162,875	5,311	168,186
241-TX-104	10/23/2020	99	1/30/2021	123,334	3,892	127,226
241-A-106	1/24/2021	199	8/11/2021	204,790	7,734	212,525
241-BX-107	1/29/2021	227	9/13/2021	791,157	31,795	822,951
241-C-105	1/30/2021	108	5/18/2021	398,129	13,157	411,286
241-B-109	4/9/2021	115	8/2/2021	547,332	17,758	565,091
241-BY-110	4/25/2021	279	1/29/2022	1,416,878	16,925	1,433,803
241-TX-103	5/15/2021	140	10/2/2021	533,748	5,472	539,220
241-T-110	5/18/2021	224	12/28/2021	293,362	10,934	304,296
241-C-112	5/18/2021	150	10/15/2021	496,404	19,446	515,850
241-T-104	8/2/2021	236	3/26/2022	516,014	17,857	533,871
241-BX-112	8/11/2021	123	12/12/2021	330,512	11,976	342,488
241-BX-109	9/13/2021	137	1/28/2022	278,361	10,642	289,002
241-T-204	10/2/2021	23	10/25/2021	56,968	2,198	59,165
241-T-203	10/15/2021	21	11/5/2021	59,034	2,243	61,277
241-T-201	10/25/2021	18	11/12/2021	111,846	4,107	115,952
241-B-202	11/5/2021	18	11/23/2021	29,815	1,123	30,938
241-T-202	11/12/2021	15	11/27/2021	33,473	1,280	34,753
241-TX-109	11/23/2021	247	7/28/2022	567,328	15,561	582,890
241-C-103	11/27/2021	75	2/10/2022	424,747	16,738	441,484
241-S-101	12/12/2021	266	9/4/2022	1,635,489	48,333	1,683,822
241-B-104	12/28/2021	222	8/7/2022	612,264	12,584	624,847
241-SX-109	1/28/2022	206	8/22/2022	1,137,708	33,475	1,171,183
241-BY-104	1/29/2022	258	10/14/2022	1,257,091	11,397	1,268,488
241-B-101	2/10/2022	99	5/20/2022	442,749	2,433	445,182
241-B-103	3/26/2022	74	6/8/2022	193,625	3,955	197,580
241-SX-104	5/20/2022	389	6/13/2023	1,189,426	9,463	1,198,889
241-AX-102	6/8/2022	110	9/26/2022	76,024	1,132	77,156
241-TX-105	7/28/2022	353	7/16/2023	2,069,790	21,843	2,091,633
241-BX-111	8/7/2022	168	1/22/2023	523,498	6,832	530,330
241-BX-110	8/22/2022	186	2/24/2023	696,754	13,704	710,458
241-B-105	9/4/2022	191	3/14/2023	393,787	2,531	396,318
241-SX-114	9/26/2022	177	3/22/2023	870,767	27,350	898,117
241-BY-106	10/14/2022	400	11/18/2023	2,227,488	26,940	2,254,428
241-B-107	1/22/2023	123	5/25/2023	442,438	17,857	460,295
241-AX-104	2/24/2023	36	4/1/2023	92,322	3,417	95,739
241-U-104	3/14/2023	103	6/25/2023	265,763	6,950	272,712
241-C-110	3/22/2023	130	7/30/2023	278,985	10,999	289,985
241-SX-111	4/1/2023	147	8/26/2023	609,989	18,867	628,856
241-A-105	5/25/2023	120	9/22/2023	333,900	7,646	341,545
241-SX-110	6/13/2023	134	10/25/2023	309,041	9,579	318,620

Table F2-1. Single-Shell Tank Retrieval Data with Balanced Low-Activity Waste and High-Level Waste Processing Rates (3 sheets).

Tank	Retrieval start date	Retrieval duration (days)	Retrieval end date	Retrieved liquid vol. (gal)	Retrieved Solids vol. (gal)	Total retrieved vol. (gal)
241-TY-103	6/25/2023	142	11/14/2023	410,335	17,007	427,343
241-TX-115	7/16/2023	388	8/7/2024	1,928,583	21,060	1,949,643
241-B-112	7/30/2023	65	10/3/2023	39,326	1,502	40,827
241-SX-112	8/26/2023	140	1/13/2024	536,807	16,619	553,425
241-TY-106	9/22/2023	70	12/1/2023	132,395	4,984	137,379
241-A-104	10/3/2023	101	1/12/2024	240,048	7,928	247,975
241-SX-107	10/25/2023	139	3/12/2024	543,056	17,399	560,455
241-BX-101	11/14/2023	69	1/22/2024	286,490	10,706	297,195
241-TX-114	11/18/2023	371	11/23/2024	1,859,616	18,633	1,878,249
241-BY-103	12/1/2023	255	8/12/2024	1,257,895	17,577	1,275,472
241-TY-104	1/12/2024	95	4/16/2024	160,042	5,458	165,500
241-SX-108	1/13/2024	156	6/17/2024	363,673	10,518	374,190
241-T-101	1/22/2024	93	4/24/2024	760,534	30,058	790,592
241-U-110	3/12/2024	171	8/30/2024	1,391,384	48,570	1,439,954
241-BX-108	4/16/2024	63	6/18/2024	43,667	1,884	45,550
241-BX-102	4/24/2024	91	7/24/2024	184,683	6,575	191,258
241-TY-101	6/17/2024	135	10/30/2024	766,317	26,658	792,975
241-SX-115	6/18/2024	100	9/26/2024	53,006	1,351	54,357
241-T-112	7/24/2024	74	10/6/2024	111,485	3,604	115,089
241-TX-113	8/7/2024	385	8/27/2025	1,696,642	23,009	1,719,651
241-BY-107	8/12/2024	191	2/19/2025	1,118,471	18,080	1,136,551
241-T-103	8/30/2024	63	11/1/2024	253,681	9,409	263,089
241-T-109	9/26/2024	79	12/14/2024	217,276	1,705	218,981
241-U-112	10/6/2024	69	12/14/2024	294,992	10,318	305,310
241-C-101	10/30/2024	87	1/25/2025	224,174	7,197	231,370
241-T-107	11/1/2024	137	3/18/2025	394,224	13,550	407,774
241-TX-110	11/23/2024	292	9/11/2025	1,496,609	18,114	1,514,723
241-T-108	12/14/2024	69	2/21/2025	128,229	5,244	133,472
241-C-111	12/14/2024	148	5/11/2025	366,985	13,317	380,303
241-U-101	1/25/2025	61	3/27/2025	108,907	3,366	112,274
241-BY-105	2/19/2025	304	12/20/2025	1,535,622	28,253	1,563,875
241-SX-113	2/21/2025	98	5/30/2025	174,972	6,353	181,325
241-T-106	3/18/2025	58	5/15/2025	128,367	4,660	133,026
241-C-203	3/27/2025	7	4/3/2025	26,929	1,133	28,062
241-C-204	4/3/2025	79	6/21/2025	45,422	1,781	47,203
241-C-201	5/11/2025	44	6/24/2025	15,841	610	16,450
241-B-111	5/15/2025	157	10/19/2025	316,533	12,104	328,637
241-TY-105	5/30/2025	175	11/21/2025	471,071	19,761	490,831
241-C-202	6/21/2025	68	8/28/2025	6,732	280	7,011
241-A-103	6/24/2025	491	10/28/2026	1,127,777	4,893	1,132,671
241-TX-117	8/27/2025	541	2/19/2027	2,107,643	17,314	2,124,958
241-S-104	8/28/2025	208	3/24/2026	1,689,491	54,864	1,744,355
241-TX-116	9/11/2025	547	3/12/2027	2,032,725	30,388	2,063,113
241-B-110	10/19/2025	162	3/30/2026	356,517	15,104	371,621
241-T-111	11/21/2025	426	1/21/2027	618,496	23,155	641,651
241-BY-108	12/20/2025	200	7/8/2026	536,711	12,690	549,402
241-B-201	3/24/2026	18	4/11/2026	93,356	3,500	96,857
241-B-203	3/30/2026	98	7/6/2026	81,667	3,167	84,833
241-B-204	4/11/2026	86	7/6/2026	67,412	2,758	70,170
241-TX-107	2/19/2027	89	5/19/2027	106,826	1,781	108,608

Table F2-2. Single-Shell Tank Retrieval Data with Processing Complete by 2028 (3 sheets).

Tank	Retrieval start date	Retrieval duration (days)	Retrieval end date	Retrieved liquid vol. (gal)	Retrieved Solids vol. (gal)	Total retrieved vol. (gal)
241-S-103	1/1/2004	3811	6/8/2014	749,273	2,993	752,266
241-C-104	1/1/2008	185	7/4/2008	718,807	48,093	766,900
241-U-201	1/1/2009	7	1/8/2009	22,998	780	23,778
241-U-203	1/1/2009	6	1/7/2009	11,629	394	12,023
241-U-202	1/7/2009	923	7/19/2011	22,997	780	23,777
241-U-204	1/8/2009	922	7/19/2011	15,706	576	16,282
241-SX-105	7/9/2011	2437	3/11/2018	1,041,953	10,761	1,052,714
241-U-109	7/19/2011	1758	5/11/2016	1,340,613	24,874	1,365,487
241-SX-103	7/19/2011	1871	9/1/2016	1,141,170	7,314	1,148,484
241-TX-112	10/1/2011	1844	10/18/2016	2,225,306	24,700	2,250,006
241-T-105	10/1/2011	92	1/1/2012	286,747	9,433	296,180
241-T-102	1/1/2012	1535	3/15/2016	294,928	10,973	305,901
241-C-107	5/1/2012	158	10/6/2012	467,094	27,406	494,500
241-S-102	12/12/2013	336	11/13/2014	1,002,605	11,207	1,013,812
241-S-105	6/8/2014	293	3/28/2015	1,417,154	3,535	1,420,688
241-S-106	11/13/2014	299	9/8/2015	1,276,691	5,897	1,282,588
241-S-108	3/28/2015	398	4/29/2016	1,458,206	5,559	1,463,765
241-S-109	9/8/2015	503	1/23/2017	1,602,566	4,793	1,607,358
241-BY-102	3/15/2016	288	12/28/2016	1,068,473	18,570	1,087,043
241-S-112	4/29/2016	857	9/3/2018	1,616,344	7,919	1,624,263
241-BX-106	5/11/2016	68	7/18/2016	154,824	5,452	160,276
241-BX-104	7/18/2016	320	6/3/2017	695,856	25,638	721,494
241-BX-103	9/1/2016	124	1/3/2017	175,941	6,703	182,644
241-TX-101	10/18/2016	396	11/18/2017	408,984	12,865	421,849
241-BY-112	12/28/2016	519	5/31/2018	1,351,224	21,477	1,372,701
241-B-108	1/3/2017	324	11/23/2017	259,268	8,907	268,175
241-TY-102	1/23/2017	368	1/26/2018	247,297	578	247,875
241-SX-102	6/3/2017	691	4/25/2019	1,300,077	11,519	1,311,596
241-TX-106	11/18/2017	282	8/27/2018	1,230,690	6,728	1,237,419
241-U-108	11/23/2017	371	11/29/2018	1,453,026	26,237	1,479,263
241-S-111	1/26/2018	399	3/1/2019	1,438,255	49,413	1,487,668
241-A-101	3/11/2018	548	9/10/2019	1,543,632	21,464	1,565,097
241-AX-103	5/31/2018	145	10/23/2018	331,125	3,088	334,213
241-BY-111	8/27/2018	283	6/6/2019	1,718,880	21,470	1,740,350
241-TX-111	9/3/2018	240	5/1/2019	1,170,454	14,212	1,184,666
241-AX-101	10/23/2018	452	1/18/2020	1,157,294	3,759	1,161,053
241-SX-106	11/29/2018	318	10/13/2019	640,440	10,401	650,840
241-U-105	3/1/2019	239	10/26/2019	1,166,815	10,856	1,177,671
241-U-103	4/25/2019	273	1/23/2020	1,314,486	5,727	1,320,213
241-TX-102	5/1/2019	168	10/16/2019	736,228	7,861	744,088
241-SX-101	6/6/2019	304	4/5/2020	1,024,292	12,054	1,036,346
241-C-109	9/10/2019	79	11/28/2019	301,820	11,509	313,329
241-BY-101	10/13/2019	248	6/17/2020	1,068,279	20,654	1,088,933
241-TX-118	10/16/2019	230	6/2/2020	903,592	17,747	921,339
241-U-102	10/26/2019	230	6/12/2020	1,385,962	14,976	1,400,938
241-C-108	11/28/2019	81	2/17/2020	202,255	7,566	209,821
241-C-102	1/18/2020	202	8/7/2020	830,631	30,453	861,085
241-U-107	1/23/2020	230	9/9/2020	625,114	8,330	633,445

Table F2-2. Single-Shell Tank Retrieval Data with Processing Complete by 2028 (3 sheets).

Tank	Retrieval start date	Retrieval duration (days)	Retrieval end date	Retrieved liquid vol. (gal)	Retrieved Solids vol. (gal)	Total retrieved vol. (gal)
241-BX-105	2/17/2020	70	4/27/2020	154,705	5,135	159,841
241-A-102	4/5/2020	111	7/25/2020	99,955	2,315	102,269
241-B-102	4/27/2020	64	6/30/2020	137,291	2,774	140,065
241-TX-108	6/2/2020	129	10/9/2020	445,782	7,076	452,857
241-U-106	6/12/2020	155	11/14/2020	647,223	2,725	649,947
241-BY-109	6/17/2020	265	3/9/2021	950,744	14,211	964,955
241-S-107	6/30/2020	242	2/27/2021	995,461	33,849	1,029,309
241-S-110	7/25/2020	259	4/10/2021	1,251,351	41,040	1,292,391
241-B-106	8/7/2020	100	11/15/2020	162,875	5,311	168,186
241-U-111	9/9/2020	205	4/2/2021	946,667	7,564	954,231
241-TX-104	10/9/2020	99	1/16/2021	123,334	3,892	127,226
241-A-106	11/14/2020	145	4/8/2021	204,790	7,734	212,525
241-BX-107	11/15/2020	208	6/11/2021	791,157	31,795	822,951
241-C-105	1/16/2021	111	5/7/2021	398,129	13,157	411,286
241-B-109	2/27/2021	106	6/13/2021	547,332	17,758	565,091
241-BY-110	3/9/2021	255	11/19/2021	1,416,878	16,925	1,433,803
241-TX-103	4/2/2021	140	8/20/2021	533,748	5,472	539,220
241-C-112	4/8/2021	99	7/16/2021	496,404	19,446	515,850
241-T-110	4/10/2021	224	11/20/2021	293,362	10,934	304,296
241-T-104	5/7/2021	236	12/29/2021	516,014	17,857	533,871
241-BX-112	6/11/2021	123	10/12/2021	330,512	11,976	342,488
241-BX-109	6/13/2021	137	10/28/2021	278,361	10,642	289,002
241-T-204	7/16/2021	23	8/8/2021	56,968	2,198	59,165
241-T-203	8/8/2021	21	8/29/2021	59,034	2,243	61,277
241-T-201	8/20/2021	18	9/7/2021	111,846	4,107	115,952
241-B-202	8/29/2021	18	9/16/2021	29,815	1,123	30,938
241-T-202	9/7/2021	15	9/22/2021	33,473	1,280	34,753
241-TX-109	9/16/2021	247	5/21/2022	567,328	15,561	582,890
241-C-103	9/22/2021	75	12/6/2021	424,747	16,738	441,484
241-S-101	10/12/2021	267	7/6/2022	1,635,489	48,333	1,683,822
241-B-104	10/28/2021	221	6/6/2022	612,264	12,584	624,847
241-BY-104	11/19/2021	257	8/3/2022	1,257,091	11,397	1,268,488
241-SX-109	11/20/2021	205	6/13/2022	1,137,708	33,475	1,171,183
241-B-101	12/6/2021	99	3/15/2022	442,749	2,433	445,182
241-B-103	12/29/2021	74	3/13/2022	193,625	3,955	197,580
241-SX-104	3/13/2022	389	4/6/2023	1,189,426	9,463	1,198,889
241-AX-102	3/15/2022	110	7/3/2022	76,024	1,132	77,156
241-TX-105	5/21/2022	353	5/9/2023	2,069,790	21,843	2,091,633
241-BX-111	6/6/2022	123	10/7/2022	523,498	6,832	530,330
241-BX-110	6/13/2022	142	11/2/2022	696,754	13,704	710,458
241-B-105	7/3/2022	190	1/9/2023	393,787	2,531	396,318
241-SX-114	7/6/2022	176	12/29/2022	870,767	27,350	898,117
241-BY-106	8/3/2022	370	8/8/2023	2,227,488	26,940	2,254,428
241-B-107	10/7/2022	123	2/7/2023	442,438	17,857	460,295
241-AX-104	11/2/2022	36	12/8/2022	92,322	3,417	95,739
241-U-104	12/8/2022	104	3/22/2023	265,763	6,950	272,712
241-C-110	12/29/2022	132	5/10/2023	278,985	10,999	289,985
241-SX-111	1/9/2023	148	6/6/2023	609,989	18,867	628,856
241-A-105	2/7/2023	84	5/2/2023	333,900	7,646	341,545
241-TY-103	3/22/2023	142	8/11/2023	410,335	17,007	427,343

Table F2-2. Single-Shell Tank Retrieval Data with Processing Complete by 2028 (3 sheets).

Tank	Retrieval start date	Retrieval duration (days)	Retrieval end date	Retrieved liquid vol. (gal)	Retrieved Solids vol. (gal)	Total retrieved vol. (gal)
241-SX-110	4/6/2023	129	8/13/2023	309,041	9,579	318,620
241-B-112	5/2/2023	65	7/6/2023	39,326	1,502	40,827
241-TX-115	5/9/2023	369	5/12/2024	1,928,583	21,060	1,949,643
241-TY-106	5/10/2023	70	7/19/2023	132,395	4,984	137,379
241-SX-112	6/6/2023	135	10/19/2023	536,807	16,619	553,425
241-A-104	7/6/2023	101	10/15/2023	240,048	7,928	247,975
241-BX-101	7/19/2023	69	9/26/2023	286,490	10,706	297,195
241-BY-103	8/8/2023	254	4/18/2024	1,257,895	17,577	1,275,472
241-TY-104	8/11/2023	93	11/12/2023	160,042	5,458	165,500
241-TX-114	8/13/2023	322	6/30/2024	1,859,616	18,633	1,878,249
241-SX-107	9/26/2023	137	2/10/2024	543,056	17,399	560,455
241-T-101	10/15/2023	93	1/16/2024	760,534	30,058	790,592
241-SX-108	10/19/2023	142	3/9/2024	363,673	10,518	374,190
241-U-110	11/12/2023	134	3/25/2024	1,391,384	48,570	1,439,954
241-BX-108	1/16/2024	63	3/19/2024	43,667	1,884	45,550
241-BX-102	2/10/2024	91	5/11/2024	184,683	6,575	191,258
241-TY-101	3/9/2024	125	7/12/2024	766,317	26,658	792,975
241-SX-115	3/19/2024	62	5/20/2024	53,006	1,351	54,357
241-T-112	3/25/2024	74	6/7/2024	111,485	3,604	115,089
241-BY-107	4/18/2024	192	10/27/2024	1,118,471	18,080	1,136,551
241-T-103	5/11/2024	62	7/12/2024	253,681	9,409	263,089
241-TX-113	5/12/2024	354	5/1/2025	1,696,642	23,009	1,719,651
241-T-109	5/20/2024	76	8/4/2024	217,276	1,705	218,981
241-U-112	6/7/2024	69	8/15/2024	294,992	10,318	305,310
241-TX-110	6/30/2024	285	4/11/2025	1,496,609	18,114	1,514,723
241-T-107	7/12/2024	127	11/16/2024	394,224	13,550	407,774
241-C-101	7/12/2024	87	10/7/2024	224,174	7,197	231,370
241-T-108	8/4/2024	69	10/12/2024	128,229	5,244	133,472
241-C-111	8/15/2024	76	10/30/2024	366,985	13,317	380,303
241-U-101	10/7/2024	61	12/7/2024	108,907	3,366	112,274
241-SX-113	10/12/2024	98	1/18/2025	174,972	6,353	181,325
241-BY-105	10/27/2024	303	8/26/2025	1,535,622	28,253	1,563,875
241-T-106	10/30/2024	58	12/27/2024	128,367	4,660	133,026
241-C-203	11/16/2024	7	11/23/2024	26,929	1,133	28,062
241-C-204	11/23/2024	7	11/30/2024	45,422	1,781	47,203
241-C-201	11/30/2024	7	12/7/2024	15,841	610	16,450
241-C-202	12/7/2024	5	12/12/2024	6,732	280	7,011
241-A-103	12/7/2024	265	8/29/2025	1,127,777	4,893	1,132,671
241-B-111	12/12/2024	157	5/18/2025	316,533	12,104	328,637
241-TY-105	12/27/2024	175	6/20/2025	471,071	19,761	490,831
241-S-104	1/18/2025	209	8/15/2025	1,689,491	54,864	1,744,355
241-TX-117	4/11/2025	361	4/7/2026	2,107,643	17,314	2,124,958
241-TX-116	5/1/2025	364	4/30/2026	2,032,725	30,388	2,063,113
241-B-110	5/18/2025	162	10/27/2025	356,517	15,104	371,621
241-T-111	6/20/2025	257	3/4/2026	618,496	23,155	641,651
241-B-201	8/15/2025	18	9/2/2025	93,356	3,500	96,857
241-BY-108	8/26/2025	173	2/15/2026	536,711	12,690	549,402
241-B-203	8/29/2025	28	9/26/2025	81,667	3,167	84,833
241-B-204	9/2/2025	28	9/30/2025	67,412	2,758	70,170
241-TX-107	4/7/2026	89	7/5/2026	106,826	1,781	108,608

Table F2-3. Single-Shell Tank Retrieval Data with Increased Waste Retrieval Rates (4 sheets)

Tank	Retrieval start date	Retrieval duration (days)	Retrieval end date	Retrieved liquid vol. (gal)	Retrieved Solids vol. (gal)	Total retrieved vol. (gal)
241-S-103	1/1/2004	3639	12/18/2013	749,273	2,993	752,266
241-C-104	1/1/2008	185	7/4/2008	718,807	48,093	766,900
241-U-201	1/1/2009	7	1/8/2009	22,998	780	23,778
241-U-203	1/1/2009	6	1/7/2009	11,629	394	12,023
241-U-204	1/2/2009	6	1/8/2009	15,706	576	16,282
241-U-202	1/2/2009	7	1/9/2009	22,997	780	23,777
241-U-109	1/3/2009	3857	7/27/2019	1,340,613	24,874	1,365,487
241-U-108	1/3/2009	2624	3/11/2016	1,453,026	26,237	1,479,263
241-SX-105	7/9/2011	2671	10/31/2018	1,041,953	10,761	1,052,714
241-TX-112	10/1/2011	1910	12/23/2016	2,225,306	24,700	2,250,006
241-T-105	10/1/2011	92	1/1/2012	286,747	9,433	296,180
241-T-102	10/4/2011	1911	12/27/2016	294,928	10,973	305,901
241-C-107	5/1/2012	158	10/6/2012	467,094	27,406	494,500
241-S-102	12/11/2013	325	11/1/2014	1,002,605	11,207	1,013,812
241-S-105	12/18/2013	448	3/11/2015	1,417,154	3,535	1,420,688
241-S-106	12/25/2013	682	11/7/2015	1,276,691	5,897	1,282,588
241-S-108	3/11/2015	351	2/25/2016	1,458,206	5,559	1,463,765
241-S-109	11/7/2015	334	10/6/2016	1,602,566	4,793	1,607,358
241-S-112	2/13/2016	580	9/15/2017	1,616,344	7,919	1,624,263
241-BY-102	3/2/2016	196	9/14/2016	1,068,473	18,570	1,087,043
241-BX-106	3/11/2016	68	5/18/2016	154,824	5,452	160,276
241-BY-112	3/13/2016	283	12/21/2016	1,351,224	21,477	1,372,701
241-BX-104	3/13/2016	165	8/25/2016	695,856	25,638	721,494
241-BX-103	8/25/2016	233	4/15/2017	175,941	6,703	182,644
241-BY-111	12/21/2016	443	3/9/2018	1,718,880	21,470	1,740,350
241-TX-101	12/23/2016	445	3/13/2018	408,984	12,865	421,849
241-B-108	12/27/2016	111	4/17/2017	259,268	8,907	268,175
241-TY-102	4/15/2017	533	9/30/2018	247,297	578	247,875
241-SX-103	4/17/2017	419	6/10/2018	1,141,170	7,314	1,148,484
241-S-111	9/15/2017	414	11/3/2018	1,438,255	49,413	1,487,668
241-U-105	3/9/2018	2288	6/13/2024	1,166,816	10,856	1,177,671
241-A-101	3/13/2018	537	9/1/2019	1,543,632	21,464	1,565,097
241-AX-103	6/10/2018	139	10/27/2018	331,125	3,088	334,213
241-AX-101	8/1/2018	440	10/15/2019	1,157,294	3,759	1,161,053
241-C-109	9/27/2018	75	12/11/2018	301,820	11,509	313,329
241-TX-106	9/30/2018	280	7/7/2019	1,230,690	6,728	1,237,419
241-C-108	10/1/2018	77	12/17/2018	202,255	7,566	209,821
241-C-102	10/4/2018	195	4/17/2019	830,631	30,453	861,085

Table F2-3. Single-Shell Tank Retrieval Data with Increased Waste Retrieval Rates (4 sheets)

Tank	Retrieval start date	Retrieval duration (days)	Retrieval end date	Retrieved liquid vol. (gal)	Retrieved Solids vol. (gal)	Total retrieved vol. (gal)
241-SX-102	10/29/2018	786	12/23/2020	1,300,077	11,519	1,311,596
241-SX-106	10/31/2018	332	9/28/2019	640,440	10,401	650,840
241-BY-101	11/3/2018	248	7/9/2019	1,068,279	20,654	1,088,933
241-BX-105	12/13/2018	70	2/21/2019	154,705	5,135	159,841
241-BY-109	1/20/2019	265	10/12/2019	950,744	14,211	964,955
241-A-102	1/22/2019	111	5/13/2019	99,955	2,315	102,269
241-TX-111	1/26/2019	561	8/9/2020	1,170,454	14,212	1,184,666
241-B-102	3/21/2019	64	5/24/2019	137,291	2,774	140,065
241-S-107	3/23/2019	237	11/15/2019	995,461	33,849	1,029,309
241-BY-110	4/24/2019	254	1/3/2020	1,416,878	16,925	1,433,803
241-S-110	7/26/2019	519	12/26/2020	1,251,351	41,040	1,292,391
241-U-103	7/27/2019	1281	1/28/2023	1,314,486	5,727	1,320,213
241-BY-104	8/12/2019	257	4/25/2020	1,257,091	11,397	1,268,488
241-SX-101	9/28/2019	611	5/31/2021	1,024,292	12,054	1,036,346
241-B-106	11/10/2019	100	2/18/2020	162,875	5,311	168,186
241-A-106	2/5/2020	145	6/29/2020	204,790	7,734	212,525
241-BX-107	2/8/2020	208	9/3/2020	791,157	31,795	822,951
241-C-105	6/27/2020	108	10/13/2020	398,129	13,157	411,287
241-C-112	7/2/2020	134	11/13/2020	496,404	19,446	515,850
241-TX-102	8/9/2020	221	3/18/2021	736,228	7,861	744,088
241-B-109	11/13/2020	106	2/27/2021	547,332	17,758	565,091
241-T-110	11/19/2020	224	7/1/2021	293,362	10,934	304,296
241-T-104	12/23/2020	236	8/16/2021	516,014	17,857	533,871
241-BX-112	12/26/2020	123	4/28/2021	330,512	11,976	342,488
241-BX-109	1/20/2021	137	6/6/2021	278,361	10,642	289,002
241-T-204	1/23/2021	330	12/19/2021	56,968	2,198	59,165
241-TX-118	3/18/2021	316	1/28/2022	903,592	17,747	921,339
241-T-203	3/22/2021	313	1/29/2022	59,034	2,243	61,277
241-T-201	5/31/2021	244	1/30/2022	111,846	4,107	115,952
241-B-202	6/9/2021	18	6/27/2021	29,815	1,123	30,938
241-T-202	6/10/2021	234	1/30/2022	33,473	1,280	34,753
241-C-103	12/19/2021	75	3/4/2022	424,747	16,738	441,484
241-S-101	12/24/2021	262	9/12/2022	1,635,489	48,333	1,683,822
241-TX-108	1/28/2022	367	1/30/2023	445,782	7,076	452,857
241-B-104	1/29/2022	221	9/7/2022	612,264	12,584	624,847
241-B-101	1/30/2022	109	5/19/2022	442,749	2,433	445,182
241-SX-109	1/30/2022	473	5/18/2023	1,137,708	33,475	1,171,183
241-B-103	2/5/2022	211	9/4/2022	193,625	3,955	197,580

Table F2-3. Single-Shell Tank Retrieval Data with Increased Waste Retrieval Rates (4 sheets)

Tank	Retrieval start date	Retrieval duration (days)	Retrieval end date	Retrieved liquid vol. (gal)	Retrieved Solids vol. (gal)	Total retrieved vol. (gal)
241-SX-104	5/19/2022	1004	2/16/2025	1,189,426	9,463	1,198,889
241-BY-106	5/23/2022	385	6/12/2023	2,227,488	26,940	2,254,428
241-AX-102	9/4/2022	110	12/23/2022	76,024	1,132	77,156
241-BX-111	9/5/2022	142	1/25/2023	523,498	6,832	530,330
241-BX-110	1/25/2023	189	8/2/2023	696,754	13,704	710,458
241-U-102	1/28/2023	1152	3/25/2026	1,385,962	14,976	1,400,938
241-TX-104	1/30/2023	99	5/9/2023	123,334	3,892	127,226
241-TX-103	2/8/2023	232	9/28/2023	533,748	5,472	539,220
241-B-105	5/18/2023	190	11/24/2023	393,787	2,531	396,318
241-BY-103	6/12/2023	254	2/21/2024	1,257,895	17,577	1,275,472
241-SX-114	8/2/2023	213	3/2/2024	870,767	27,350	898,117
241-B-107	8/3/2023	134	12/15/2023	442,438	17,857	460,295
241-TX-109	9/28/2023	247	6/1/2024	567,328	15,561	582,890
241-BY-107	10/26/2023	191	5/4/2024	1,118,471	18,080	1,136,551
241-AX-104	12/15/2023	36	1/20/2024	92,322	3,417	95,739
241-C-110	12/16/2023	129	4/23/2024	278,985	10,999	289,985
241-TX-105	12/17/2023	535	6/4/2025	2,069,790	21,843	2,091,633
241-A-105	1/22/2024	85	4/16/2024	333,899	7,646	341,545
241-BY-105	2/28/2024	303	12/27/2024	1,535,622	28,253	1,563,875
241-SX-111	3/2/2024	532	8/16/2025	609,989	18,867	628,856
241-TY-103	4/16/2024	441	7/1/2025	410,335	17,007	427,343
241-U-107	6/13/2024	776	7/29/2026	625,114	8,330	633,445
241-BY-108	9/22/2024	210	4/20/2025	536,711	12,690	549,402
241-SX-110	2/16/2025	130	6/26/2025	309,041	9,579	318,620
241-B-112	4/20/2025	65	6/24/2025	39,326	1,502	40,827
241-TY-106	4/21/2025	72	7/2/2025	132,395	4,984	137,379
241-TX-115	6/4/2025	368	6/7/2026	1,928,583	21,060	1,949,643
241-SX-112	6/26/2025	132	11/5/2025	536,807	16,619	553,425
241-A-104	7/1/2025	101	10/10/2025	240,047	7,928	247,975
241-TX-114	7/2/2025	394	7/31/2026	1,859,616	18,633	1,878,249
241-BX-101	7/4/2025	69	9/11/2025	286,490	10,706	297,195
241-TY-104	7/7/2025	260	3/24/2026	160,042	5,458	165,500
241-SX-107	8/16/2025	135	12/29/2025	543,056	17,399	560,455
241-SX-108	10/27/2025	142	3/18/2026	363,673	10,518	374,190
241-T-101	12/27/2025	192	7/7/2026	760,534	30,058	790,592
241-TX-113	1/20/2026	358	1/13/2027	1,696,642	23,009	1,719,651
241-BX-108	3/18/2026	63	5/20/2026	43,667	1,884	45,550
241-BX-102	3/19/2026	91	6/18/2026	184,683	6,575	191,258

Table F2-3. Single-Shell Tank Retrieval Data with Increased Waste Retrieval Rates (4 sheets)

Tank	Retrieval start date	Retrieval duration (days)	Retrieval end date	Retrieved liquid vol. (gal)	Retrieved Solids vol. (gal)	Total retrieved vol. (gal)
241-TY-101	3/21/2026	325	2/9/2027	766,317	26,658	792,975
241-SX-115	3/24/2026	62	5/25/2026	53,006	1,351	54,357
241-U-106	3/25/2026	319	2/7/2027	647,222	2,725	649,947
241-T-112	5/4/2026	387	5/26/2027	111,485	3,604	115,089
241-T-103	7/7/2026	324	5/27/2027	253,681	9,409	263,089
241-U-111	7/29/2026	381	8/14/2027	946,667	7,564	954,231
241-TX-110	7/31/2026	376	8/11/2027	1,496,609	18,114	1,514,723
241-TX-117	1/13/2027	385	2/2/2028	2,107,643	17,314	2,124,958
241-U-104	2/7/2027	236	10/1/2027	265,763	6,950	272,712
241-T-109	2/9/2027	232	9/29/2027	217,276	1,705	218,981
241-C-101	5/26/2027	87	8/21/2027	224,174	7,197	231,370
241-T-107	5/27/2027	253	2/4/2028	394,224	13,550	407,774
241-T-108	5/29/2027	297	3/21/2028	128,229	5,244	133,472
241-TX-116	8/11/2027	534	1/26/2029	2,032,725	30,388	2,063,113
241-U-110	8/14/2027	534	1/29/2029	1,391,384	48,570	1,439,954
241-C-111	9/29/2027	73	12/11/2027	366,985	13,317	380,303
241-U-112	10/1/2027	553	4/6/2029	294,992	10,318	305,310
241-SX-113	10/3/2027	98	1/9/2028	174,972	6,353	181,325
241-T-106	10/5/2027	169	3/22/2028	128,367	4,660	133,026
241-TX-107	2/2/2028	360	1/27/2029	106,826	1,781	108,608
241-C-203	2/4/2028	7	2/11/2028	26,929	1,133	28,062
241-C-204	2/5/2028	39	3/15/2028	45,422	1,781	47,203
241-C-201	3/15/2028	6	3/21/2028	15,841	610	16,450
241-C-202	3/16/2028	5	3/21/2028	6,732	280	7,011
241-A-103	3/17/2028	259	12/1/2028	1,127,777	4,893	1,132,671
241-B-111	3/21/2028	157	8/25/2028	316,533	12,104	328,637
241-TY-105	3/22/2028	319	2/4/2029	471,071	19,761	490,831
241-S-104	3/25/2028	204	10/15/2028	1,689,491	54,864	1,744,355
241-B-110	5/18/2028	162	10/27/2028	356,517	15,104	371,621
241-T-111	5/22/2028	316	4/3/2029	618,496	23,155	641,651
241-B-201	7/30/2028	18	8/17/2028	93,356	3,500	96,857
241-B-203	7/31/2028	28	8/28/2028	81,667	3,167	84,833
241-B-204	8/1/2028	28	8/29/2028	67,412	2,758	70,170
241-U-101	1/29/2029	68	4/7/2029	108,907	3,366	112,274

Table F2-4. Single-Shell Tank Retrieval Data with Tank-Specific Leach Factors Applied during Phase 2 (4 sheets).

Tank	Retrieval start date	Retrieval duration (days)	Retrieval end date	Retrieved liquid vol. (gal)	Retrieved Solids vol. (gal)	Total retrieved vol. (gal)
241-S-103	1/1/2004	3811	6/8/2014	749,273	2,993	752,266
241-C-104	1/1/2008	185	7/4/2008	718,807	48,093	766,900
241-U-201	1/1/2009	7	1/8/2009	22,998	780	23,778
241-U-203	1/1/2009	6	1/7/2009	11,629	394	12,023
241-U-202	1/7/2009	923	7/19/2011	22,997	780	23,777
241-U-204	1/8/2009	922	7/19/2011	15,706	576	16,282
241-SX-105	7/9/2011	2439	3/13/2018	1,041,953	10,761	1,052,714
241-U-109	7/19/2011	1766	5/19/2016	1,340,613	24,874	1,365,487
241-SX-103	7/19/2011	1907	10/7/2016	1,141,170	7,314	1,148,484
241-TX-112	10/1/2011	1852	10/26/2016	2,225,306	24,700	2,250,006
241-T-105	10/1/2011	92	1/1/2012	286,747	9,433	296,180
241-T-102	1/1/2012	1543	3/23/2016	294,928	10,973	305,901
241-C-107	5/1/2012	158	10/6/2012	467,094	27,406	494,500
241-S-102	12/12/2013	336	11/13/2014	1,002,605	11,207	1,013,812
241-S-105	6/8/2014	293	3/28/2015	1,417,154	3,535	1,420,688
241-S-106	11/13/2014	299	9/8/2015	1,276,691	5,897	1,282,588
241-S-108	3/28/2015	406	5/7/2016	1,458,206	5,559	1,463,765
241-S-109	9/8/2015	802	11/18/2017	1,602,566	4,793	1,607,358
241-BY-102	3/23/2016	428	5/25/2017	1,068,473	18,570	1,087,043
241-S-112	5/7/2016	948	12/11/2018	1,616,344	7,919	1,624,263
241-BX-106	5/19/2016	68	7/26/2016	154,824	5,452	160,276
241-BX-104	7/26/2016	165	1/7/2017	695,856	25,638	721,494
241-BX-103	10/7/2016	89	1/4/2017	175,941	6,703	182,644
241-TX-101	10/26/2016	105	2/8/2017	408,984	12,865	421,849
241-B-108	1/4/2017	324	11/24/2017	259,268	8,907	268,175
241-TY-102	1/7/2017	99	4/16/2017	247,297	578	247,875
241-TX-106	2/8/2017	507	6/30/2018	1,230,690	6,728	1,237,419
241-SX-102	4/16/2017	749	5/5/2019	1,300,077	11,519	1,311,596
241-BY-112	5/25/2017	349	5/9/2018	1,351,224	21,477	1,372,701
241-U-108	11/18/2017	427	1/19/2019	1,453,026	26,237	1,479,263
241-S-111	11/24/2017	555	6/2/2019	1,438,255	49,413	1,487,668
241-SX-106	3/13/2018	390	4/7/2019	640,440	10,401	650,840
241-A-101	5/9/2018	555	11/15/2019	1,543,632	21,464	1,565,097
241-AX-103	6/30/2018	139	11/16/2018	331,125	3,088	334,213
241-AX-101	11/16/2018	982	7/25/2021	1,157,294	3,759	1,161,053
241-BY-111	12/11/2018	283	9/20/2019	1,718,880	21,470	1,740,350
241-TX-111	1/19/2019	240	9/16/2019	1,170,454	14,212	1,184,666
241-U-105	4/7/2019	234	11/27/2019	1,166,815	10,856	1,177,671

Table F2-4. Single-Shell Tank Retrieval Data with Tank-Specific Leach Factors Applied during Phase 2 (4 sheets).

Tank	Retrieval start date	Retrieval duration (days)	Retrieval end date	Retrieved liquid vol. (gal)	Retrieved Solids vol. (gal)	Total retrieved vol. (gal)
241-U-103	5/5/2019	279	2/8/2020	1,314,486	5,727	1,320,213
241-SX-101	6/2/2019	301	3/29/2020	1,024,292	12,054	1,036,346
241-TX-102	9/16/2019	168	3/2/2020	736,228	7,861	744,088
241-BY-101	9/20/2019	248	5/25/2020	1,068,279	20,654	1,088,933
241-C-109	11/15/2019	105	2/28/2020	301,820	11,509	313,329
241-U-102	11/27/2019	1533	2/7/2024	1,385,962	14,976	1,400,938
241-U-107	2/8/2020	1444	1/22/2024	625,114	8,330	633,445
241-C-108	2/28/2020	1157	4/30/2023	202,255	7,566	209,821
241-TX-118	3/2/2020	499	7/14/2021	903,592	17,747	921,339
241-BX-105	3/29/2020	466	7/8/2021	154,705	5,135	159,841
241-BY-109	5/25/2020	1162	7/31/2023	950,744	14,211	964,955
241-B-102	7/8/2021	553	1/12/2023	137,291	2,774	140,065
241-TX-108	7/14/2021	129	11/20/2021	445,782	7,076	452,857
241-C-102	7/25/2021	1035	5/25/2024	830,631	30,453	861,085
241-TX-104	11/20/2021	609	7/22/2023	123,334	3,892	127,226
241-S-107	1/12/2023	466	4/22/2024	995,461	33,849	1,029,309
241-A-102	4/30/2023	337	4/1/2024	99,955	2,315	102,269
241-S-110	7/22/2023	732	7/23/2025	1,251,351	41,040	1,292,391
241-BY-110	7/31/2023	337	7/2/2024	1,416,878	16,925	1,433,803
241-U-106	1/22/2024	248	9/26/2024	647,222	2,725	649,947
241-U-111	2/7/2024	438	4/20/2025	946,667	7,564	954,231
241-B-106	4/1/2024	252	12/9/2024	162,875	5,311	168,186
241-A-106	4/22/2024	892	10/1/2026	204,790	7,734	212,525
241-BX-107	5/25/2024	920	12/1/2026	791,157	31,795	822,951
241-BY-104	7/2/2024	1242	11/26/2027	1,257,091	11,397	1,268,488
241-C-105	9/26/2024	172	3/17/2025	398,129	13,157	411,286
241-B-109	12/9/2024	470	3/24/2026	547,332	17,758	565,091
241-C-112	3/17/2025	1029	1/10/2028	496,404	19,446	515,850
241-TX-103	4/20/2025	140	9/7/2025	533,748	5,472	539,220
241-T-110	7/23/2025	446	10/12/2026	293,362	10,934	304,296
241-T-104	9/7/2025	501	1/21/2027	516,014	17,857	533,871
241-BX-112	3/24/2026	638	12/22/2027	330,512	11,976	342,487
241-BX-109	10/1/2026	442	12/17/2027	278,361	10,642	289,002
241-T-204	10/12/2026	23	11/4/2026	56,968	2,198	59,165
241-T-203	11/4/2026	21	11/25/2026	59,034	2,243	61,277
241-T-201	11/25/2026	18	12/13/2026	111,846	4,107	115,952
241-B-202	12/1/2026	335	11/1/2027	29,815	1,123	30,938
241-T-202	12/13/2026	15	12/28/2026	33,473	1,280	34,753

Table F2-4. Single-Shell Tank Retrieval Data with Tank-Specific Leach Factors Applied during Phase 2 (4 sheets).

Tank	Retrieval start date	Retrieval duration (days)	Retrieval end date	Retrieved liquid vol. (gal)	Retrieved Solids vol. (gal)	Total retrieved vol. (gal)
241-TX-109	12/28/2026	369	1/1/2028	567,328	15,561	582,890
241-C-103	1/21/2027	291	11/8/2027	424,747	16,738	441,484
241-S-101	11/1/2027	545	4/29/2029	1,635,489	48,333	1,683,822
241-B-104	11/8/2027	602	7/2/2029	612,264	12,584	624,847
241-SX-109	11/26/2027	447	2/15/2029	1,137,708	33,475	1,171,183
241-B-101	12/17/2027	394	1/14/2029	442,749	2,433	445,182
241-B-103	12/22/2027	338	11/24/2028	193,625	3,955	197,580
241-TX-105	1/1/2028	599	8/22/2029	2,069,790	21,843	2,091,633
241-SX-104	1/10/2028	2098	10/8/2033	1,189,426	9,463	1,198,889
241-BY-106	11/24/2028	924	6/6/2031	2,227,488	26,940	2,254,428
241-AX-102	1/14/2029	110	5/4/2029	76,024	1,132	77,155
241-BX-111	2/15/2029	538	8/7/2030	523,498	6,832	530,330
241-BX-110	4/29/2029	587	12/7/2030	696,754	13,704	710,458
241-B-105	5/3/2029	366	5/4/2030	393,787	2,531	396,318
241-SX-114	7/2/2029	696	5/29/2031	870,767	27,350	898,117
241-TX-115	8/22/2029	1462	8/23/2033	1,928,583	21,060	1,949,643
241-B-107	5/4/2030	350	4/19/2031	442,438	17,857	460,295
241-AX-104	8/7/2030	36	9/12/2030	92,321	3,417	95,738
241-U-104	9/12/2030	103	12/24/2030	265,763	6,950	272,712
241-C-110	12/7/2030	349	11/21/2031	278,985	10,999	289,985
241-A-105	12/24/2030	84	3/18/2031	333,899	7,645	341,544
241-TY-103	3/18/2031	475	7/5/2032	410,335	17,007	427,343
241-B-112	4/19/2031	65	6/23/2031	39,326	1,502	40,827
241-SX-111	5/29/2031	1220	9/30/2034	609,989	18,867	628,856
241-BY-103	6/6/2031	881	11/3/2033	1,257,895	17,577	1,275,472
241-TY-106	6/23/2031	358	6/15/2032	132,395	4,984	137,379
241-A-104	11/21/2031	261	8/8/2032	240,047	7,928	247,974
241-BX-101	6/15/2032	69	8/23/2032	286,490	10,706	297,195
241-TY-104	7/5/2032	587	2/12/2034	160,042	5,458	165,500
241-TX-114	8/8/2032	1724	4/28/2037	1,859,616	18,633	1,878,249
241-T-101	8/23/2032	790	10/22/2034	760,534	30,058	790,592
241-TX-113	8/23/2033	1355	5/9/2037	1,696,642	23,009	1,719,651
241-SX-110	10/8/2033	642	7/12/2035	309,041	9,579	318,620
241-BY-107	11/3/2033	205	5/27/2034	1,118,471	18,080	1,136,551
241-U-110	2/12/2034	909	8/9/2036	1,391,384	48,570	1,439,954
241-BY-105	5/27/2034	422	7/23/2035	1,535,622	28,253	1,563,875
241-SX-112	9/30/2034	769	11/7/2036	536,807	16,619	553,425
241-BX-108	10/22/2034	63	12/24/2034	43,667	1,884	45,550

Table F2-4. Single-Shell Tank Retrieval Data with Tank-Specific Leach Factors Applied during Phase 2 (4 sheets).

Tank	Retrieval start date	Retrieval duration (days)	Retrieval end date	Retrieved liquid vol. (gal)	Retrieved Solids vol. (gal)	Total retrieved vol. (gal)
241-BX-102	12/24/2034	261	9/11/2035	184,683	6,575	191,258
241-SX-107	7/12/2035	613	3/16/2037	543,056	17,399	560,455
241-BY-108	7/23/2035	270	4/18/2036	536,711	12,690	549,402
241-TY-101	9/11/2035	535	2/27/2037	766,317	26,658	792,975
241-T-112	4/18/2036	181	10/16/2036	111,485	3,604	115,089
241-T-103	8/9/2036	223	3/20/2037	253,681	9,409	263,089
241-T-109	10/16/2036	150	3/15/2037	217,276	1,705	218,981
241-SX-108	11/7/2036	259	7/24/2037	363,673	10,518	374,190
241-U-112	2/27/2037	69	5/7/2037	294,992	10,318	305,310
241-C-101	3/15/2037	87	6/10/2037	224,174	7,197	231,370
241-SX-115	3/16/2037	63	5/18/2037	53,006	1,351	54,357
241-T-107	3/20/2037	127	7/25/2037	394,224	13,550	407,774
241-TX-110	4/28/2037	285	2/7/2038	1,496,609	18,114	1,514,723
241-T-108	5/7/2037	69	7/15/2037	128,229	5,244	133,472
241-TX-117	5/9/2037	577	12/7/2038	2,107,643	17,314	2,124,958
241-C-111	5/18/2037	235	1/8/2038	366,985	13,317	380,302
241-U-101	6/10/2037	61	8/10/2037	108,907	3,366	112,274
241-SX-113	7/15/2037	123	11/15/2037	174,972	6,353	181,325
241-T-106	7/24/2037	58	9/20/2037	128,367	4,660	133,026
241-C-203	7/25/2037	7	8/1/2037	26,929	1,133	28,062
241-C-204	8/1/2037	24	8/25/2037	45,422	1,781	47,203
241-B-111	8/10/2037	157	1/14/2038	316,533	12,104	328,637
241-C-201	8/25/2037	107	12/10/2037	15,841	610	16,450
241-TY-105	9/20/2037	175	3/14/2038	471,071	19,761	490,831
241-S-104	11/15/2037	560	5/29/2039	1,689,491	54,864	1,744,355
241-C-202	12/10/2037	15	12/25/2037	6,732	280	7,011
241-A-103	12/25/2037	471	4/10/2039	1,127,777	4,893	1,132,670
241-B-110	1/8/2038	329	12/3/2038	356,517	15,104	371,621
241-T-111	1/14/2038	637	10/13/2039	618,496	23,155	641,651
241-TX-116	2/7/2038	769	3/17/2040	2,032,725	30,388	2,063,113
241-B-201	3/14/2038	18	4/1/2038	93,356	3,500	96,857
241-B-203	4/1/2038	28	4/29/2038	81,667	3,167	84,833
241-B-204	4/29/2038	28	5/27/2038	67,412	2,758	70,170
241-TX-107	12/7/2038	89	3/6/2039	106,826	1,781	108,608

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Figure F2-1. Single-Shell Tank Retrieval with Balanced Low-Activity Waste and High-Level Waste Processing Rates.

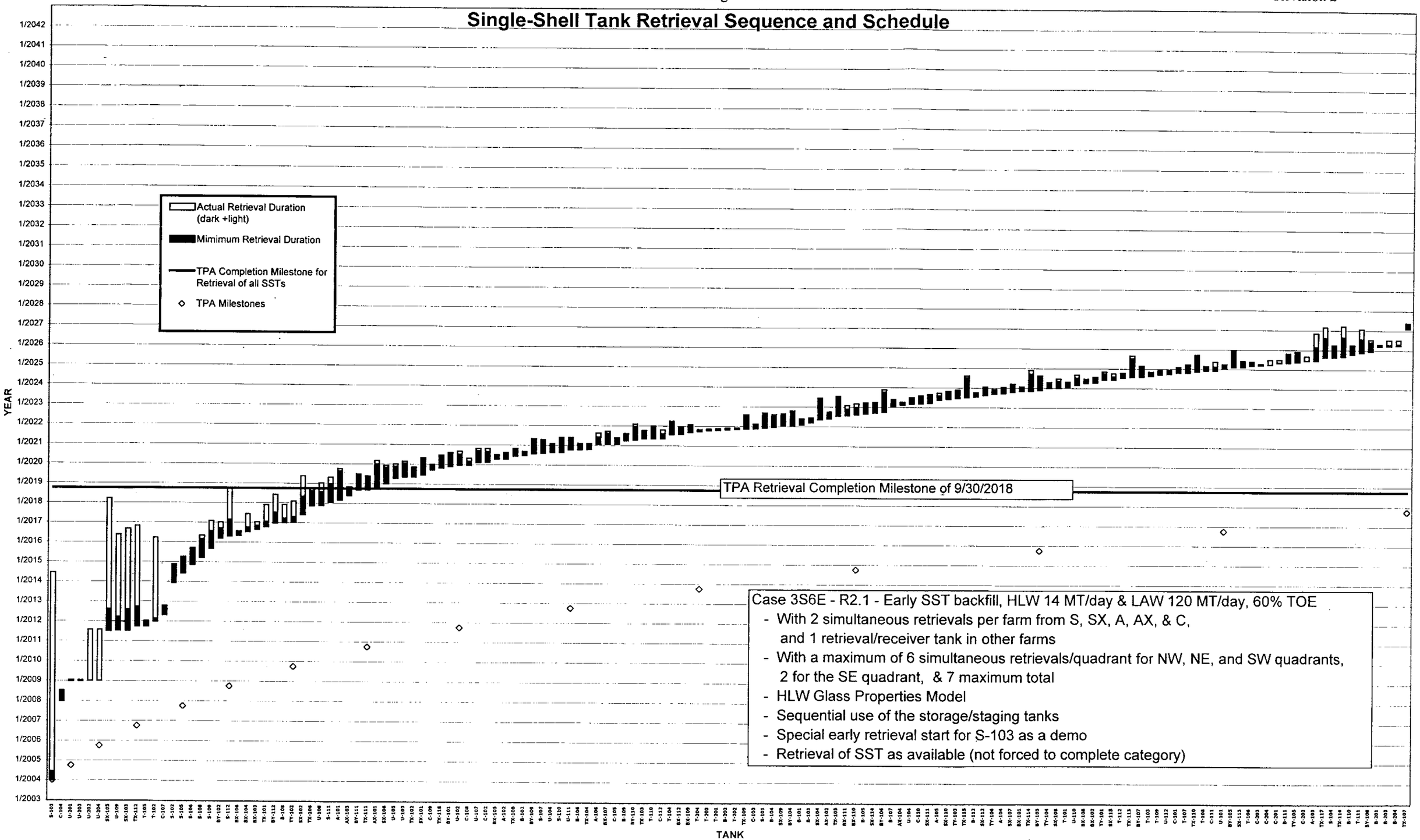

Figure F2-2. Single-Shell Tank Retrieval with Processing Complete by 2028.

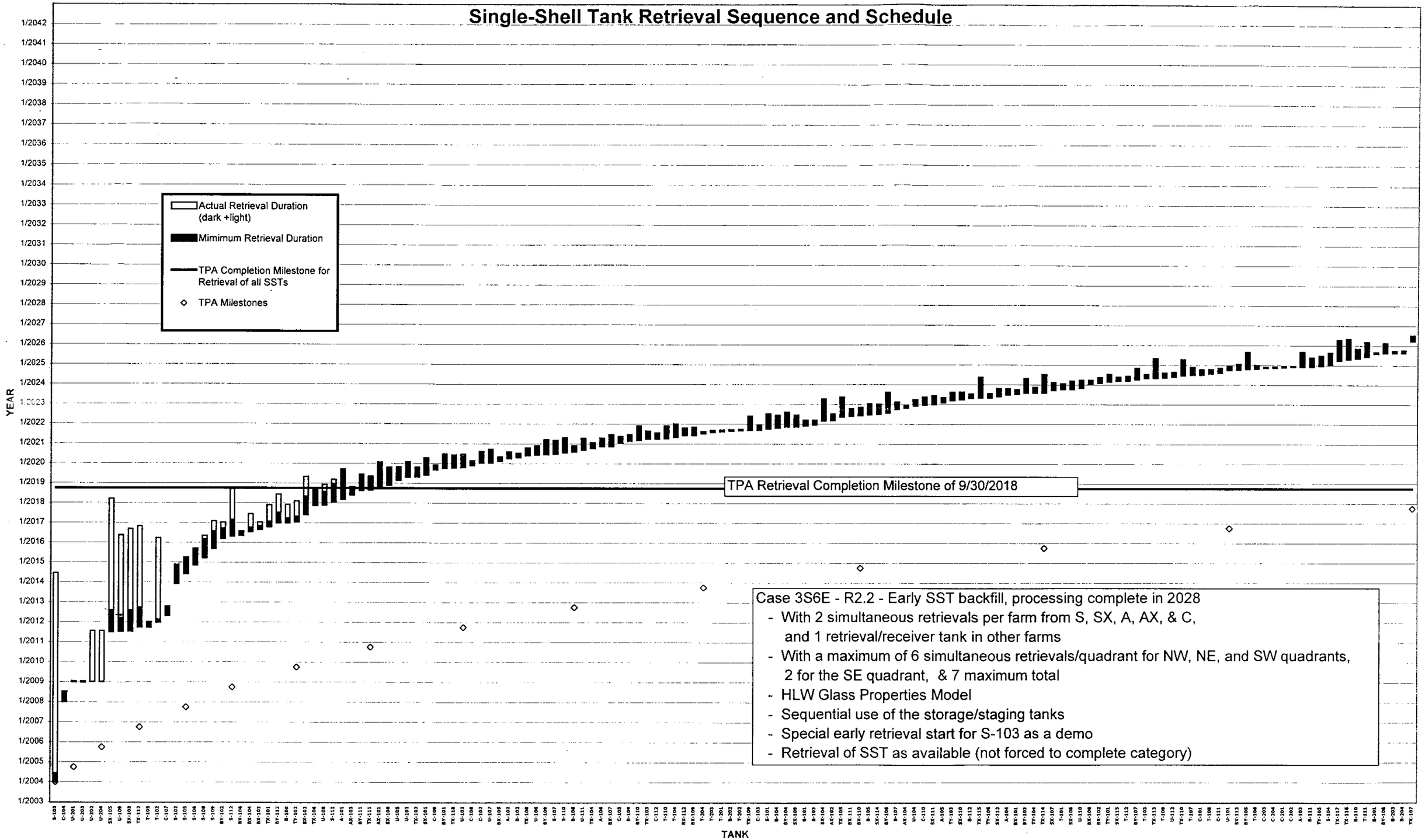

Figure F2-3. Single-Shell Tank Retrieval with Increased Waste Retrieval Rates

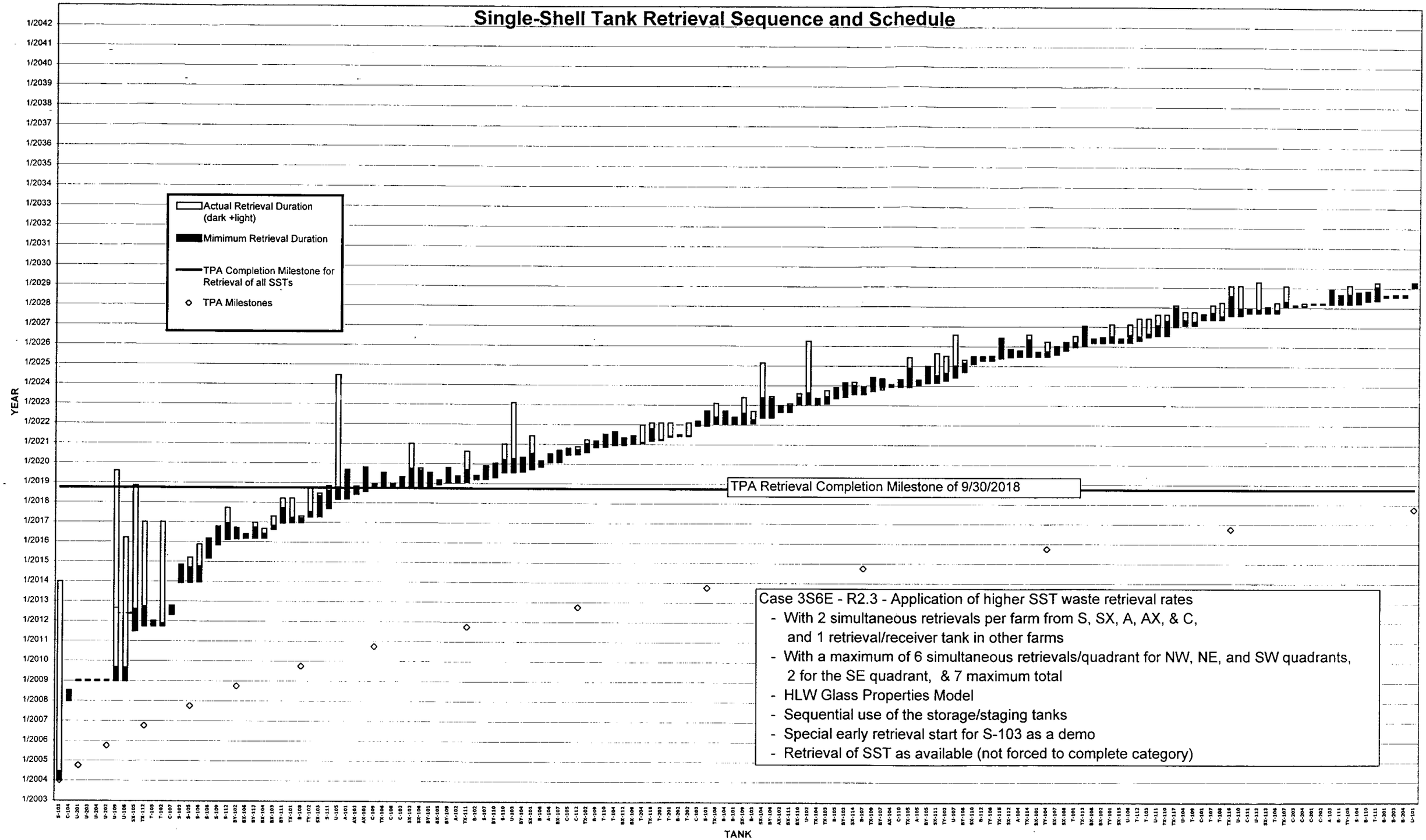
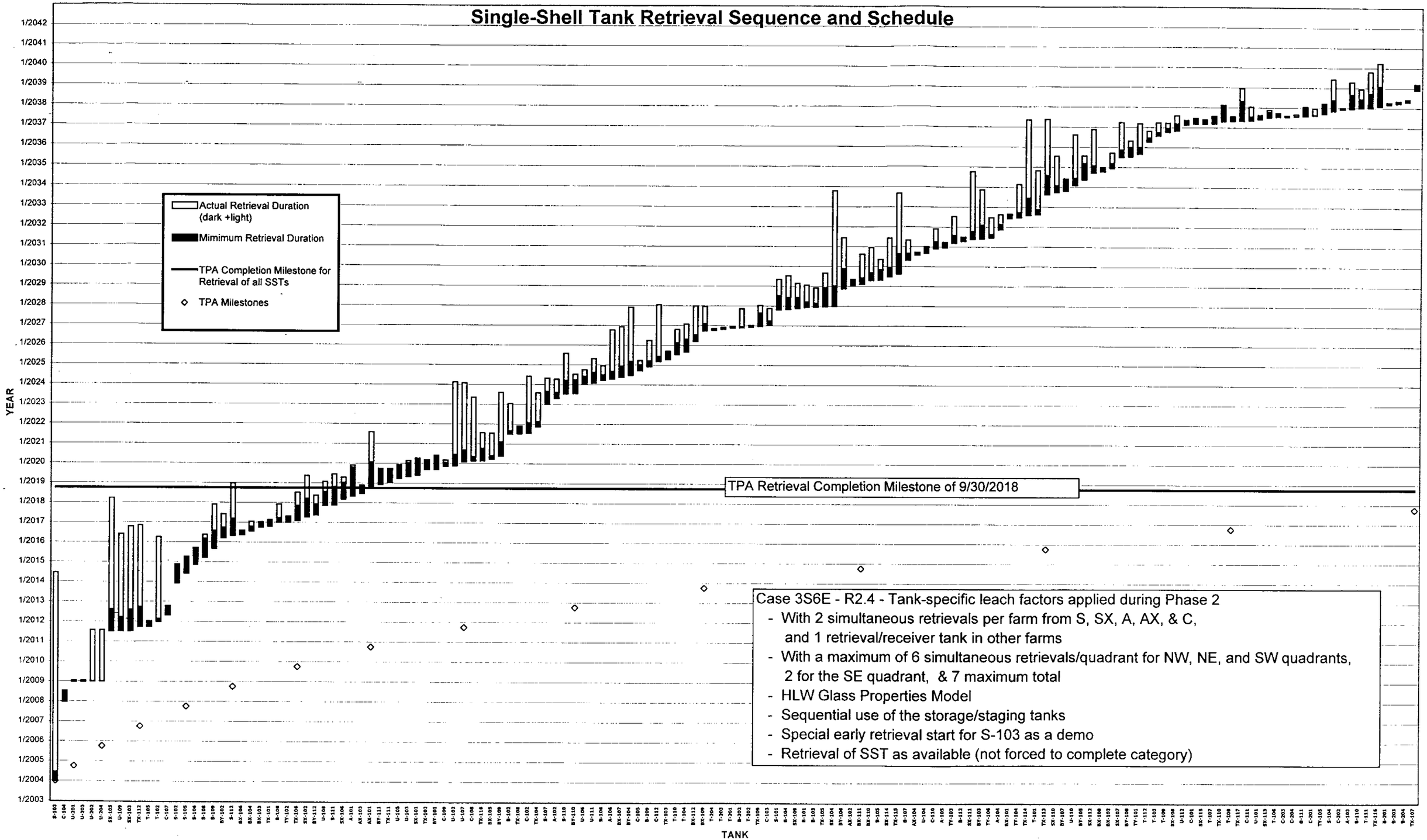
Figure F2-4. Single-Shell Tank Retrieval with Tank-Specific Leach Factors Applied during Phase 2