

Appendix E: Underground Storage Tank Data

Table E.1. Underground storage tanks (USTs) at the Y-12 Plant

Location	Tank identification number	Installation date	Out-of-service date	Capacity (gallons)	Contents	Status	Preliminary investigation	Environmental assessment () date to regulatory agency	Corrective action
<i>Petroleum USTs</i>									
9722-6	2312-U	1987	1994	550	Diesel	Inert filled 2/95	CR (4/95)	NA	Closure approval (6/96)
9722-5	2313-U	1987	1994	550	Diesel	Inert filled 2/95	CR (4/95)	NA	Closure approval (6/96)
9999-7	2316-U	1986	1994	550	Diesel	Inert filled 2/95	CR (4/95)	NA	Closure approval (6/96)
9999-5	2320-U	1986	1994	550	Diesel	Removed 2/95	CR (4/95)	NA	Closure approval (6/96)
9722-4	2333-U	1988	1994	550	Diesel	Inert filled 3/95	CR (4/95)	NA	Closure approval (6/96)
9714	2334-U	1987	In use	6,000	Gasoline	Full compliance	Site check	NA	Case closed (6/97)
9714	2335-U	1987	In use	10,000	Diesel	Full compliance	Site check	NA	Case closed (6/97)
9754-3	2396-U	1993	In use	10,000	Diesel	Full compliance	NA	NA	NA
9754-3	2397-U	1993	In use	20,000	Gasoline	Full compliance	NA	NA	NA
9712	0084-U	1958	1988	500	Used oil	Removed 6/88	CERCLA	TBD	TBD
9204-2	0134-U	1966	1982	117	Gasoline	Removed 8/88	ISCR,FPRR	SIR (3/92)	EAR/CAP (8/92), CAP approval (5/93), CR (4/94), SRF (1/95), CR (3/97), CR (3/97). Closure approval (6/97)
9754-2	0439-U	1978	1989	20,000	Gasoline	Removed 9/89	IAR, ISCR, FPRR	SIR/CAP (3/91)	CAP (7/92), CAP approval (5/93), BMR (3/94), SSSR (4/94)
9754-2	0440-U	1978	1989	10,000	Diesel	Removed 9/89	IAR, ISCR, FPRR	SIR/CAP (3/91)	CAP (7/92), CAP approval (5/93), BMR (3/94), SSSR (4/94)
9754	2073-U	1944	1979	1,000	Gasoline	Removed 10/93	SI	SIR/CAP (3/91)	CAP (7/92), CAP approval (5/93), BMR (3/94), SSSR (4/94)

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Table E.1 (continued)

Location	Tank identification number	Installation date	Out-of-service date	Capacity (gallons)	Contents	Status	Preliminary investigation	Environmental assessment () date to regulatory agency	Corrective action
9754	2074-U	1944	1979	1,000	Gasoline	Removed 10/93	SI	SIRCAP (3/91)	CAP (7/92), CAP approval (5/93), BMR (3/94), SSSR (4/94)
9754	2075-U	1944	1979	1,000	Diesel	Removed 10/93	SI	SIRCAP (3/91)	CAP (7/92), CAP approval 5/93), (BMR (3/94), SSSR (4/94)
9754-1	1219-U	1964	1988	12,000	Diesel	Removed 12/89	EA	SIR (3/91)	CAP (5/92), SRF (2/94), SRF approval (3/94), SSSR (9/94), SSSR revised (1/95), CERCLA
9754-1	1222-U	1968	1988	12,000	Gasoline	Removed 12/89	EA	SIR (3/91)	CAP (5/92), SRF (2/94), SRF approval (3/94), SSSR (9/94), SSSR revised (1/95), CERCLA
9720-15	2068-U	1968	1980	1,000	Gasoline	Removed 2/90	EA/FPRR	SIR (3/91)	CAP (5/92), SRF (2/94), SRF approval (3/94), SSSR (9/94), SSSR revised (1/95), CERCLA
9754-1	2082-U	1981	1988	8,000	Gasoline	Removed 12/89	EA	SIR (3/91)	CAP (5/92), SRF (2/94), SRF approval (3/94), SSSR (9/94), SSSR revised (1/95), CERCLA
PRW	2310-U	1975	1989	200	Gasoline	Removed 11/89	ISCR	SIR/CAP (7/91)	EAR/CAP (3/93), CAP approval (12/93), OE (4/94,5/94), CR (7/94), Closure approval (9/95)

Table E.1 (continued)

Location	Tank identification number	Installation date	Out-of-service date	Capacity (gallons)	Contents	Status	Preliminary investigation	Environmental assessment () date to regulatory agency	Corrective action
9201-1	2331-U	1973	1988	560	Gasoline	Removed 12/88	ISCR, FPRR	SIR (3/92)	EAR/CAP (7/92), CAP approval (12/93), BMR (3/94), SRF (4/94), SRF approval (5/94), CR (3/97), Closure approval (6/97)
9401-3	0713-U	1955	1988	10,500	No. 2 fuel oil	Removed 11/88	NI	NA	NA
9754	0836-U	1944	1989	10,000	Used oil	Removed 10/89	RCRA closure approved 9/95	RCRA	RCRA
9204-3	0928-U	1966	1989	200	Gasoline	Removed 5/89	RIR, closure approved 8/92	NA	NA
9995	2078-U	1965	1979	110	Gasoline	Inert filled 1979	Exempt	CERCLA	CERCLA
9995	2079-U	1965	1979	55	Gasoline	Inert filled 1979	Exempt	CERCLA	CERCLA
9996	2080-U	1971	1987	560	Gasoline	Removed 12/88	RIR closure approved 9/95	NA	NA
9212	208 1 -U	1958	1970	280	Gasoline	Removed 4/91	ISCR	NA	OE/CR (12/91) Closure approval (5/97)
9201-5	2099-U	1971	1989	560	Gasoline	Removed 7/89	IAR, RIR, closure approved 3/90	NA	NA
9929-1	2117-U	1971	1983	550	No. 2 fuel oil	Removed 10/88	NI	NA	NA
9204-4	2130-U	1960	1992	550	Gasoline	Removed 12/92	RIR, closure approved 9/95	NA	NA
9999	2293-U	1954	1974	58	Gasoline	Removed 1974	NI	NA	NA
9999	2294-U	1954	1974	58	Gasoline	Removed 1974	NI	NA	NA
9998	2305-U	1956	1990	55	Diesel	Removed 10/90	RIR, closure approved 1/95	NA	NA
PRE	2315-U	1960	1988	64	Gasoline	Removed II 11/89	ISCR	EAR/CAP (2/91)	OE/CAR (12/92), Closure approval 1/95

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Table E.1 (continued)

Location	Tank identification number	Installation date	Out-of-service date	Capacity (gallons)	Contents	Status	Preliminary investigation	Environmental assessment () date to regulatory agency	Corrective action
9769	2330-U	1949	1988	5,000	No. 2 fuel oil	Inert filled 4/88	NI	NA	NA
Chestnut Ridge	2336-U	1981	1991	550	Gasoline	Removed 5/91	RIR, closure approved 1/95	NA	NA
Buff. Mtn.	2337-U	1972	1990	250	Gasoline	Removed 3/90	IAR, ISCR	SIR (5/91), SIR Phase II (1/92)	Closure approval (2/95)
9720-13	2338-U	1970	1984	200	Used oil	Removed 7/90	RIR	TBD	Closure approval (5/97)
9219	2395-U	1964	1977	2,000	No. 2 fuel oil	Removed 6/93	NI	NA	NA
SYDD	2063-U	1959	1989	130	Oil/solvent	Removed 7/89	IAR, ISCR/FPRR	CERCLA	CERCLA
SYDD	2328-U	1959	1989	475	Oil/solvent	Removed 7/89	TAR, ISCR/FPRR	CERCLA	CERCLA
SYDD	2329-U	1959	1989	475	Oil/solvent	Removed 7/89	IAR, ISCR/FPRR	CERCLA	CERCLA
<i>Hazardous Substance USTs</i>									
9767-13	2102-U	1987	1992	7,500	Methanol	Removed 1/93	CR	NA	NA
9418-3	2072-U	1943	1960	45,000	Solid uranium oxide	Exempt	CERCLA	CERCLA	CERCLA
9825-1	2129-U	1984	In use	240,000	Solid uranium oxide	Exempt	NA	NA	NA

Notes

BMR	baseline monitoring report
CAP	corrective action plan
CAR	corrective action report
CERCLA	conducted under the Comprehensive Environmental Response, Compensation, and Liability Act
CR	closure report
EA	environmental assessment
EAR	environmental assessment report
FPRR	free product removal report
IAR	initial abatement report
ISCR	initial site characterization report
NA	not applicable
NI	not investigated
OE	overexcavation
RCRA	conducted under Resource Conservation and Recovery Act, Subtitle C
RIR	release investigation report
SIR	site investigation report
SRF	site ranking form
SSSR	site-specific standard request
SYDD	salvage yard drum deheader
TBD	to be determined

Table E.2. Underground storage tanks (USTs) at the ETTP

Location	Tank identification number	Installation date	Out-of-service date	Capacity (gallons)	Contents	Status	Preliminary investigation	Environmental assessment () date to regulatory agency	Corrective action
<i>Hazardous USTs</i>									
K-720-B	No. 2	1949	1981	~75	Methyl mercaptan	Removed 7/12/96	NA Regulated under the Pipeline Safety Act	NA	NA
K-720-C1	No. 3	1949	1981	~175	Methyl mercaptan	Removed 7/11/96	NA Regulated under the Pipeline Safety Act	NA	NA
K-720-C2	No. 4	1949	1981	~175	Methyl mercaptan	Removed 7/11/96	NA Regulated under the Pipeline Safety Act	NA	NA
K-721	No. 5	1949	1981	~175	Methyl mercaptan	Removed 1987	NA Regulated under the Pipeline Safety Act	NA	NA
K-1414	No. 8	1975	NA	12,600	85% methanol, 15% gasoline	Removed 5/8/97	CR (7/16/97)	NA	NA
K-1134	A	1983	NA	1,000	Installed for spill and overfill protection	Never used	NA	NA	NA
<i>Petroleum USTs</i>									
K-1652	No. 1	1983	4/1/96	285	Diesel	Inert filled 7/16/96	CR (8/96)	NA	NA
K-1414	No. 6	1949	2/90	500	Used oil	Inert filled 5/23/91	CR (8/7/91)	NA	NA
K-1414	No. 7	1956	5/14/93	22,000	Gasoline	Inert filled 6/28/94	CR (7/26/94)	NA	NA
K-1414	No. 9	1953	2/87	1,500	Diesel	Removed 3/387	CERCLA	TBD	TBD
K-1220-NE	No. 10	1979	4/90	970	Diesel	Removed 4/23/91	CR (8/7/91)	EA (8/6/93)	NA
K-1220-SE	No. 11	1979	4/90	970	Diesel	Removed 4/25/91	CR (8/7/91)	NA	NA
K-1210-N	No. 12	1977	8/89	1,500	Diesel	Removed 8/29/89	CR (3/25/91)	NA	NA

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Table E.2 (continued)

Location	Tank identification number	Installation date	Out-of-service date	Capacity (gallons)	Contents	Status	Preliminary investigation	Environmental assessment () date to regulatory agency	Corrective action
K-1210-A	No. 13	1977	8/89	1,500	Diesel	Removed 8/25/89	CR (3/25/91)	NA	NA
K-1200	No. 14	1974	8/89	500	Diesel	Removed 8/23/89	CR (3/25/91)	NA	NA
K-33	No. 15	1955	3/90	12,000	Diesel	Removed 3/23/90	CR (2/19/91)	NA	NA
K-1650	No. 16	1980	3/27/96	250	Diesel	Inert filled 7/16/96	CR (8/15/96)	NA	NA
K-1402	No. 17	1944	12/16/91	275	Diesel	Removed 10/6/92	CR (1/12/95)	SIR 11/92	NA
K-1007	No. 18	Unknown	8/28/86	1,000	Gasoline	Removed 8/86–10/86	NA	NA	NA
K-806	No. 19	1978	1/18/95	250	Gasoline	Removed 11/14/95	CR (12/22/95)	NA	NA
K-1414	No. 20	1992	NA	20,000	Gasoline	In use, full compliance	NA	NA	NA
K-1414	No. 21	1992	NA	6,000	Diesel	In use, full compliance	NA	NA	NA

Notes:

CERCLA conducted under the Comprehensive Environmental Response, Compensation, and Liability Act
 CR closure report
 EA environmental assessment
 NA not applicable
 SIR site investigation report
 TBD to be determined
 TOU temporarily out of use

Table E.3. Underground storage tanks (USTs) at ORNL

ORNL #	TDEC #	Installed	Out of service	Capacity gallons	Contents	Status	Comments	Correspondence (most recent)	Corrective action
0902	1	1964	1980	50	Gasoline	Closed in place	V<110 gal (deferred from regulation)	ANF 1996	NA
1505	2	1977	1997	1000	Diesel	Closed in place	Emergency generator	PCR 1997	NA
2009	3	Unknown	1989	345	Gasoline	Excavated	Emergency generator	NFARL 1991	NA
2011	4	1973	1994	285	Diesel	Excavated	Emergency generator	NFARL 1995	Removed soil
2026	5	1964	1992	285	Diesel	Excavated	Emergency generator	NFARL 1997	Removed soil; GW monitored
2088	6	1975	1996	285	Diesel	Excavated	Emergency generator	PCR 1996	Removed soil
2519A	8	1964	1992	500	Gasoline	Closed in place	SSS approved	NFARL 2/98	GW monitored
2519B	9	1975	1992	750	Diesel	Excavated	SSS approved	NFARL 2/98	Removed soil; GW monitored
2521	10	1974	1997	285	Diesel	Closed in place	Emergency generator	NFARL 3/99	NA
2572A	11	1980	1997	285	Diesel	Closed in place	Emergency generator	PCR 1997	NA
2572B	7	1965	1985	110	Gasoline	Closed in place	V = 110 gal (deferred from regulation)	ANF 1996	NA
3019B	13	1952	1992	100	Gasoline	Excavated	V<110 gal (deferred from regulation)	NFARL 1993	Removed soil
3029/ 3032	14	1985	1995	250	Diesel	Closed in place	Emergency generator	NFARL 3/99	NA
3042	15	1960	1995	3000	Diesel	Closed in place	Emergency generator	NFARL 3/99	NA
3047A	16	1973	1995	285	Diesel	Closed in place	Emergency generator	NFARL 3/99	NA
3047B	17	1965	1989	50	Diesel	Closed in place	V<110 gal (deferred from regulation)	ANF 1996	NA

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Table E.3 (continued)

ORNL #	TDEC #	Installed	Out of service	Capacity gallons	Contents	Status	Comments	Correspondence (most recent)	Corrective action
3123	18	1972	1994	285	Diesel	Excavated	Emergency generator	NFARL 1995	Removed soil
3125	19	1973	1988	1000	Diesel	Excavated	Emergency generator	NFARL 1995	Removed soil; GW monitored
3130	20	1982	1997	550	Diesel	Closed in place	Emergency generator	NFARL 3/99	NA
3131	21	1979	1995	1000	Diesel	Closed in place	Emergency generator	NFARL 3/99	NA
3132	22	1979	1995	1000	Diesel	Excavated	Emergency generator	NFARL 3/99	Removed soil
3146	12	1985	1995	550	Diesel	Excavated	Emergency generator	PCR 1995	Removed soil
3598	23	1962	1994	400	Diesel	Closed in place	SRS approved	SSMR 1997	GW monitored
4500N	24	1975	1995	5000	Diesel	Excavated	Emergency generator	NFARL 3/99	Removed soil
4500S	25	1960	1989	1000	Diesel	Excavated	Emergency generator	NFARL 1995	Removed soil; GW monitored
4500N "B"	54	1995	NA	1000	Diesel	In use	New UST installed 9/95	Annual fee-1/99	NA
4501	26	1960	1984	325	Diesel	Closed in place	Closed prior to 12/22/88 but after 1/1/74	ANF 1996	NA
4514	27	1986	1997	1000	Diesel	Closed in place	Last UST closed (11/97)	PCR 1997	NA
6554	28	1977	1990	3000	Ethylene glycol	Excavated	Hazardous Substance UST	PCR to EPA 1992	NA
7002A	29	1948	1989	300	PCB, Rad Waste oil	Excavated	RCRA SWMU; PCB UST; Tank decon approved by EPA in 1994	PCR 1989	Removed soil
7002B	30	1947	1977	8000	Gasoline	Closed in place	Closed prior to 12/22/88 but after 1/1/74	ANF 1996	NA

Table E.3 (continued)

ORNL #	TDEC #	Installed	Out of service	Capacity gallons	Contents	Status	Comments	Correspondence (most recent)	Corrective action
7009	32	1975	1990	5000	Waste oil	Excavated	PCB UST; Tank decon approved by EPA in 1994	NFARL 1991 for the UST site	Removed soil
7063	31	1964	1989	50	Gasoline	Closed in place	V<110 gal (deferred from regulation)	ANF 1996	NA
7069A	33	1956	1989	8500	Diesel	Excavated	Old Gas Station UST	PCR 1991	NA
7069B	34	1956	1986	8300	Gasoline	Excavated	Old Gas Station UST; SSS approved	NFARL 1997	Removed soil; GW monitored
7069C	35	1956	1989	4000	Gasoline	Excavated	Old Gas Station UST	PCR 1991	NA
7069D	36	1972	1990	10000	Diesel	Excavated	Old Gas Station UST	PCR 1991	Removed soil; GW monitored
7069E	37	1988	NA	6000	Diesel	In Use	New Gas Station UST; SSS approved	Annual fee-1/99	GW monitored
7069F	38	1988	NA	15000	Gasoline	In use	New Gas Station UST; SSS approved	Annual fee-1/99	GW monitored
7075	39	1982	1994	4200	Waste oil	Closed in place	RCRA Subtitle C	NA	Closure under Subtitle C
7560	40	Unknown	1997	1000	LLLW	Closed in place	FFA Category D	NA	Closure by FFA Program
7562	41	Unknown	1997	12000	LLLW	Closed in place	FFA Category D	NA	Closure by FFA Program
7600	42	1960	1996	24000	Heating oil	Closed in place	Excluded from regulation	NA	NA
7602	43	Unknown	Unknown	13000	Wastewater	In use	Deferred from regulation	ANF 1996	NA
7605	44	1962	1989	1000	Diesel	Excavated	Emergency generator	NFARL 1991	NA
7606	45	1960	1993	1000	Heating oil	Excavated	Excluded from regulation	NA	Soil removed

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Table E.3 (continued)

ORNL #	TDEC #	Installed	Out of service	Capacity gallons	Contents	Status	Comments	Correspondence (most recent)	Corrective action
7615	46	1962	1989	280	Paint Solvents	Excavated	Hazardous Substance UST	PCR to EPA 1992	NA
7618	47	1980	1995	2000	Diesel	Excavated	Emergency generator	NFARL 3/99	NA
7830A	48	1981	NA	5000	Rad Waste Oil	In Use	In Under-ground Vault, <u>not</u> an UST	ANF 10/98	Permitted under RCRA Subtitle C
7860A	49	1983	1992	3700	Waste oil	Excavated	RCRA Subtitle C	NA	Closure under Subtitle C
7860B	50	1982	1993	500	Diesel	Closed in place	Emergency generator	NFARL 1994	NA
7901	51	1962	1996	4000	Diesel	Closed in place	Emergency generator	NFARL 3/99	NA
7921	52	1966	1996	500	Diesel	Closed in place	Emergency generator	NFARL 3/99	NA
7931	53	1967	1996	550	Diesel	Excavated	Emergency generator; SRS approved; GW monitoring expected to be completed 8/99.	SSMR 1/99	Removed soil; GW monitored for 2 years
2572C	NA	Unknown	1973	Unknown	Gasoline	Closed in place	Not registered since closed prior to 1/1/74.	NA	NA
3001C	NA	1942	1970	50	Oil	Closed in place	Not registered since closed prior to 1/1/74.	NA	NA
5500A	NA	Unknown	1970	200	Gasoline	Closed in place	Not registered since closed prior to 1/1/74.	NA	NA
7740B	NA	Unknown	1973	Unknown	Gasoline	Closed in place	Not registered since closed prior to 1/1/74.	NA	NA
"Parcel A/Bethel Valley UST-1	1	Unknown	1989	800	Gasoline	Excavated	Registered to 2-730089.	NFARL 1991	NA

Table E.3 (continued)

ORNL #	TDEC #	Installed	Out of service	Capacity gallons	Contents	Status	Comments	Correspondence (most recent)	Corrective action
Rogers Quarry	1	Unknown	1991	250	Gasoline	Excavated	Registered to 0-730180.	NFARL 1995	NA
Clinch River Breeder Reactor	1	1971	1991	250	Gasoline	Excavated	Registered to 0-730179.	NFARL 1995	NA

Notes

- ANF = Amended Notification Form
- APC = Application for Permanent Closure
- EPA = Environmental Protection Agency
- FFA = Federal Facilities Agreement
- GW = Ground Water
- LLLW = Low-Level Liquid Waste
- NA = Not Applicable
- NFARL = No Further Action Required Letter
- PCR = Permanent Closure Report
- RCRA = Resource Conservation and Recovery Act
- SRS = Site Ranking System
- SSMR = Site Status Monitoring Report
- SSS = Site Specific Standard
- SWMU = Solid Waste Management Unit
- TDEC = Tennessee Department of Environment and Conservation