

Table B3-1 Chemical Constituents Detected in Soil at SWMU B-3, March 1995
Camp Stanley Storage Activity, Texas

Constituent	Soil Comparison Criteria						Soil Sample Analytical Results ^a													
	Lab MDL	Lab PQL	Back-ground ^b Glen Rose	Back-ground ^b Tarrant	RRS2-GWP ^c (Ind.)	RRS2-SAI ^c (Ind.)	B3-SB1 Depth (ft)	B3-SB1 Soil/Rock Type	B3-SB1 Date Collected	B3-SB1	B3-SB1	B3-SB1	B3-SB1	B3-SB2	B3-SB2	B3-SB2	B3-SB3	B3-SB3	B3-SB3	B3-SB4
VOCs, SW8260 (ug/kg):																				
Chloroform	NA	0.003	--	--	10	0.51	5.5-10.5	Glen Rose	3/7/1995	0.003 U ₁	0.003 U ₁	0.003 U ₁	0.003 U ₁	0.003 U ₁	0.003 U ₁	0.003 U ₁	0.003 U ₁	0.003 U ₁	0.003 U ₁	0.003 U ₁
cis-1,2-Dichloroethene	NA	0.004	--	--	7	2,500	15.5-20.5	Glen Rose	3/7/1995	0.004 U ₁	0.004 U ₁	0.004 U ₁	0.004 U ₁	0.004 U ₁	0.004 U ₁	0.004 U ₁	0.004 U ₁	0.004 U ₁	0.004 U ₁	0.004 U ₁
trans-1,2-Dichloroethene	NA	0.004	--	--	10	2,400	25.5-27.5	Glen Rose	3/7/1995	0.004 U ₁	0.004 U ₁	0.004 U ₁	0.004 U ₁	0.004 U ₁	0.004 U ₁	0.004 U ₁	0.004 U ₁	0.004 U ₁	0.004 U ₁	0.004 U ₁
Tetrachloroethene	NA	0.005	--	--	0.5	17	29.0-30.0	Glen Rose	3/7/1995	0.005 U ₁	0.005 U ₁	0.005 U ₁	0.005 U ₁	0.005 U ₁	0.005 U ₁	0.005 U ₁	0.005 U ₁	0.005 U ₁	0.005 U ₁	0.005 U ₁
Trichloroethene	NA	0.002	--	--	0.5	6.6	0.0-5.0	Glen Rose	3/7/1995	0.002 U ₁	0.002 U ₁	0.002 U ₁	0.002 U ₁	0.002 U ₁	0.002 U ₁	0.002 U ₁	0.002 U ₁	0.002 U ₁	0.002 U ₁	0.002 U ₁
Vinyl Chloride	NA	0.003	--	--	0.2	0.007	10.5-15.5	Glen Rose	3/7/1995	0.003 U ₁	0.003 U ₁	0.003 U ₁	0.003 U ₁	0.003 U ₁	0.003 U ₁	0.003 U ₁	0.003 U ₁	0.003 U ₁	0.003 U ₁	0.003 U ₁
m,p-Xylenes	NA	0.005	--	--	100	2,400	29.0-30.0	Glen Rose	3/8/1995	0.005 U ₁	0.005 U ₁	0.005 U ₁	0.005 U ₁	0.005 U ₁	0.005 U ₁	0.005 U ₁	0.005 U ₁	0.005 U ₁	0.005 U ₁	0.005 U ₁
SVOCs, SW8270 (ug/kg)^e:																				
Di-n-butylphthalate	NA	1,000	--	--	1.E+06	1E+08	0.0-2.0	Tarrant	3/8/1995	1,000 U ₁	1,000 U ₁	1,000 U ₁	3,400	3,100	3,500	4,000	4,400	4,300	2,100	4,000
Metals, SW6010 (mg/kg):																				
Cadmium	NA	0.25	2.0	2.6	0.50	410	5.5-10.5	Glen Rose	3/7/1995	0.6 U ₂	0.46 U ₂	0.31 U ₂	0.46 U ₂	0.28 U ₂	0.48 U ₂	0.33 U ₂	1.3 U ₂	1.8 U ₂	0.67 U ₂	1.0 U ₂
Calcium	NA	25	--	--	--	--	15.5-20.5	Glen Rose	3/7/1995	313,000	338,000	287,000	311,000	348,000	310,000	269,000	162,000	141,000	221,000	192,000
Chromium	NA	0.5	3.1	69.2	10	240,000	25.5-27.5	Glen Rose	3/7/1995	2.6 U ₂	1.9 U ₂	1.2	2.1 U ₂	1.4 U ₂	2.6 U ₂	3.6	9.3	12	4.6	6.5
Copper	NA	0.5	6.9	28.9	130	74,000	29.0-30.0	Glen Rose	3/7/1995	2.5	1.2	2.0	1.5	0.95	1.6	1.7	4.8	6.0	4.2	6.0
Iron	NA	2.5	--	--	--	--	0.0-5.0	Glen Rose	3/7/1995	3,900	2,400	2,600	2,400	970	2,800	3,200	10,400	13,400	5,500	6,900
Lead ^f	NA	1.5	69.3	105	1.5	1,000	10.5-15.5	Glen Rose	3/7/1995	1.5	1.5 U ₁	1.5 U ₁	1.5 U ₁	1.5 U ₁	1.6	2.7	10	12	5.5	10
Magnesium	NA	25	--	--	--	--	29.0-30.0	Glen Rose	3/7/1995	1,300	2,000	2,100	2,800	3,200	4,200	2,600	2,000	2,000	1,600	2,200
Manganese	NA	0.5	--	--	1,400	81,000	0.0-2.0	Tarrant	3/8/1995	82	65	55	38	58	64	44	98	340	110	190
Nickel	NA	0.5	29.9	44.9	200	12,000	5.5-10.5	Glen Rose	3/7/1995	4.0	1.9	4.3	5.8	0.5 U ₁	1.2	5.3	7.5	9.3	4.7	5.6
Potassium	NA	25	--	--	--	--	15.5-20.5	Glen Rose	3/7/1995	800	360	510	550	240	830	1,200	2,000	2,300	1,300	1,600

Constituent	Soil Sample Analytical Results (Continued) ^a										
	B3-SB4	B3-SB5	B3-SB5	B3-SB6	B3-SB6	B3-SB6	B3-SB6	B3-SB7	B3-SB7	B3-SB7 ^d	B3-SB7
VOCs, SW8260 (ug/kg):											
Chloroform	0.004	0.003 U ₁	0.003 U ₁	0.003 U ₁	0.003 U ₁	0.003 U ₁	0.003 U ₁	0.003 U ₁	0.003 U ₁	0.003 U ₁	0.003 U ₁
cis-1,2-Dichloroethene	0.51	0.48	0.004 U ₁	0.004 U ₁	0.004 U ₁	0.384	0.004 U ₁	0.049	0.004 U ₁	0.004 U ₁	0.004 U ₁
trans-1,2-Dichloroethene	0.008	0.009	0.004 U ₁	0.004 U ₁	0.004 U ₁	0.004 U ₁	0.004 U ₁	0.004 U ₁	0.004 U ₁	0.004 U ₁	0.004 U ₁
Tetrachloroethene	0.005 U ₁	0.119	0.031	0.005 U ₁	0.005 U ₁	0.005 U ₁	0.005 U ₁	0.006	0.005 U ₁	0.005 U ₁	0.005 U ₁
Trichloroethene	0.726	1.5	0.002 U ₁	0.002 U ₁	0.002 U ₁	0.511	0.002 U ₁	0.007	0.002 U ₁	0.003	0.002 U ₁
Vinyl Chloride	0.003 U ₁	0.003 U ₁	0.003 U ₁	0.003 U ₁	0.003 U ₁	0.003 U ₁	0.003 U ₁	0.003 U ₁	0.003 U ₁	0.003 U ₁	0.003 U ₁
m,p-Xylenes	0.005 U ₁	0.005 U ₁	0.005 U ₁	0.005 U ₁	0.005 U ₁	0.005 U ₁	0.005 U ₁	0.005 U ₁	0.005 U ₁	0.005 U ₁	0.005 U ₁
SVOCs, SW8270 (ug/kg):											
Di-n-butylphthalate	10,000 U ₁	1,000 U ₁	1,000 U ₁	1,500	1,800	1,200	1,100	1,000 U ₁	1,000 U ₁	1,000 U ₁	1,000 U ₁
Metals, SW6010 (mg/kg):											
Cadmium	47 U ₂	0.79 U ₂	0.61 U ₂	1.9 U ₂	1.2 U ₂	0.62 U ₂	0.27 U ₂	1.7 U ₂	0.65 U ₂	1.1 U ₂	0.37 U ₂
Calcium	3,800	133,000	209,000	105,000	223,000	195,000	293,000	76,200	178,000	104,000	188,000
Chromium	760	3.4	4.2	13	8.0	3.8	1.3	9.7	3.9	5.0	1.9
Copper	8,300	7.9	3.5	9.8	3.2	9.4	1.5	9.9	6.8	7.3	1.2
Iron	8,400	6,300	5,000	13,600	9,400	5,500	2,600	11,200	5,000	7,700	3,300
Lead ^f	3,600	4.1	4.1	13	8.2	4.1	1.5 U ₁	12	3.6	5.0	1.6
Magnesium	25 U ₁	2,000	2,600	3,300	2,100	3,100	9,700	2,600	2,900	2,300	70,900
Manganese	10,500	36	52	360	170	48	41	330	41	38	89
Nickel	43	7.6	6.2	9.8	5.7	4.1	4.4	9.6	5.0	8.6	2.8
Potassium	250	1,400	1,300	4,200	1,700	2,200	910	3,100	2,200	2,300	1,200

Notes:

- ^a All samples were analyzed by Chemron, Inc., San Antonio, Texas. All results reported on a wet-weight basis.
- ^b Background values from *Evaluation of Background Metals Concentrations in Soil Types at Camp Stanley Storage Activity, June 1997*.
- ^c Industrial risk reduction standards for groundwater protection (GWP), soil-air ingestion (SAI), and groundwater (GW).
- ^d Duplicate sample.
- ^e The background concentration of lead is less than the groundwater protection (GWP) standard. Sample concentrations are only highlighted if they also exceed the background concentration.
- Concentrations exceeding RRS1 background levels are in bold type.**
- Concentrations exceeding RRS2 standards are highlighted.
- CLP Data Qualifiers:**
- U₁ The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U₂ The sample contained less than five times the amount of the analyte in the corresponding method blank.

Acronyms and Abbreviations:

- GWP Groundwater protection standard
- MDL Method detection limit
- mg/kg Milligram per kilogram
- NA Not available
- PQL Practical quantitation limit
- SVOC Semivolatile organic compound
- ug/kg Microgram per kilogram
- VOC Volatile organic compound