





Aerial Photo Date: 1998



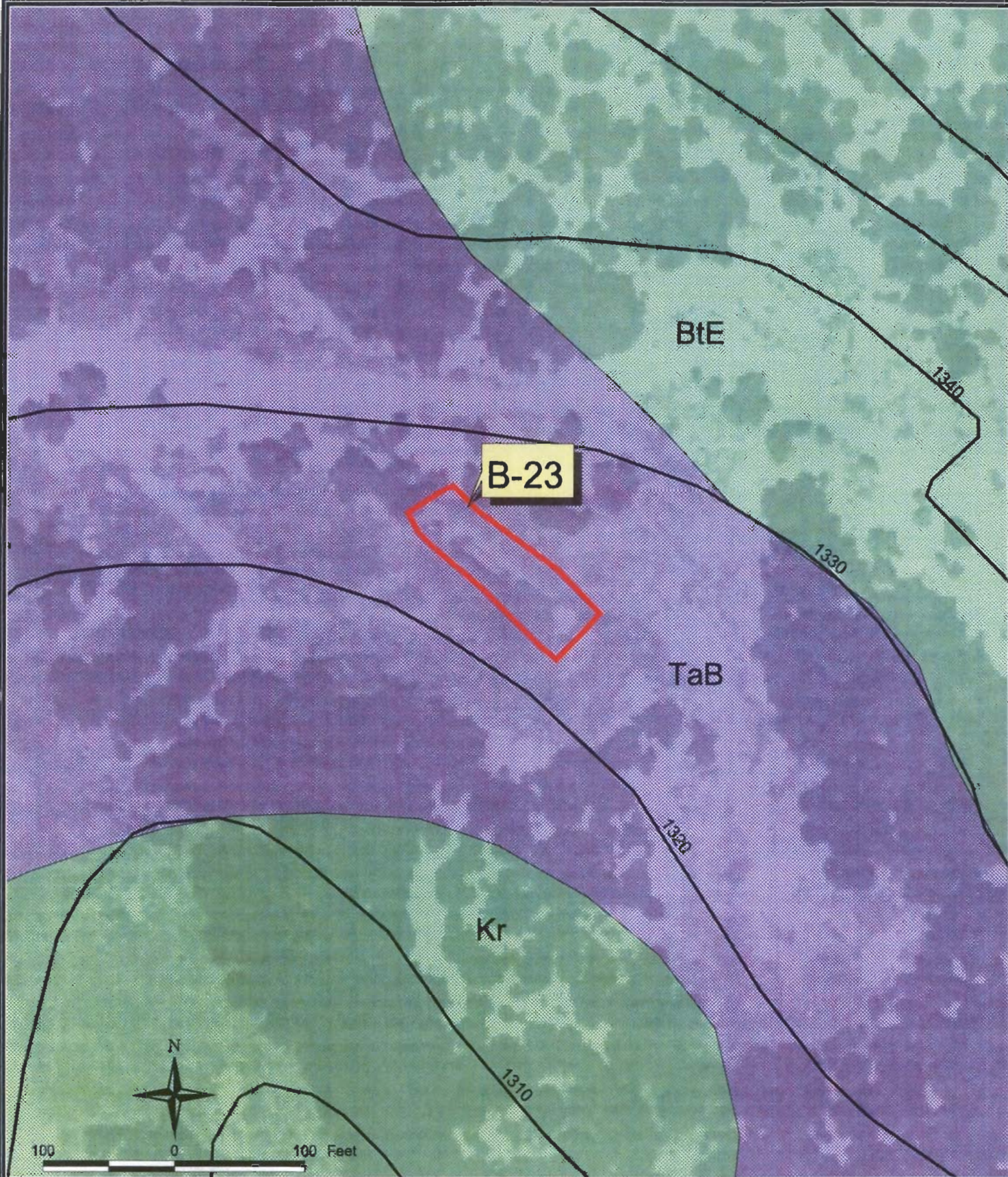
-  Creeks (Dashed where intermittent)
-  Water Well Locations
-  AOC Boundary
-  SWMU Boundary

250 0 250 Feet

Figure B23-1

Site Location Map

Camp Stanley Storage Activity



Soil Types Found at CSSA

- BtE Brackett Soils, 12-30% Slopes
- BtE Brackett-Tarrant Association, Hilly
- Cb Crawford & Bexar, Stony Soils
- Kr Krum Complex
- LvB Lewisville, Silty Clay 1-3% Slopes
- TaB Tarrant Association, Gently Undulating
- TaC Tarrant Association, Rolling
- Tr Trinity & Frio Soils, Frequently Flooded

- Water Well Locations
- Creeks
- Topographic Contour Line and Elevation (ft. MSL)

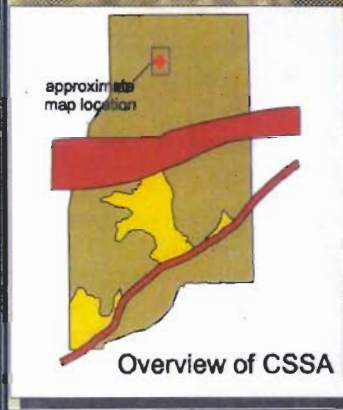
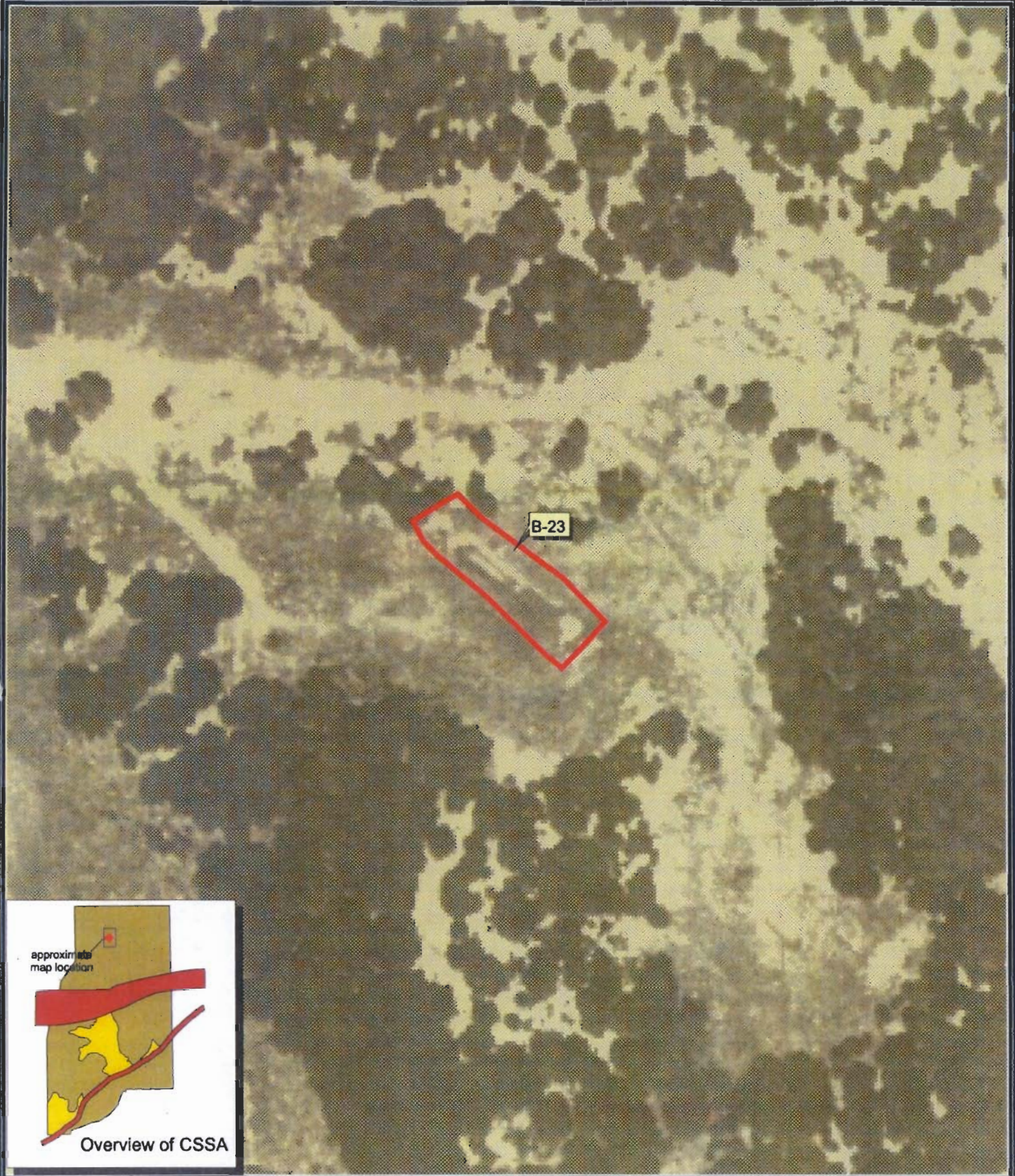
Note: Surface Topographic data from USGS. Aerial photo date: 1998.
 Soil Information Digitized by Parsons from USDA Soil Conservation Service, Bexar Cnty Soil Survey, 1991

Figure B23-2

Soils and Topographic Map

Camp Stanley Storage Activity

PARSONS ENGINEERING SCIENCE, INC.



100 0 100 Feet






- Geologic Units**
-  Fault Zone
 -  Upper Glen Rose Fm.
 -  Lower Glen Rose Fm
 -  Water Well Locations
 -  Fault Lines (Triangles on Downthrown Side)

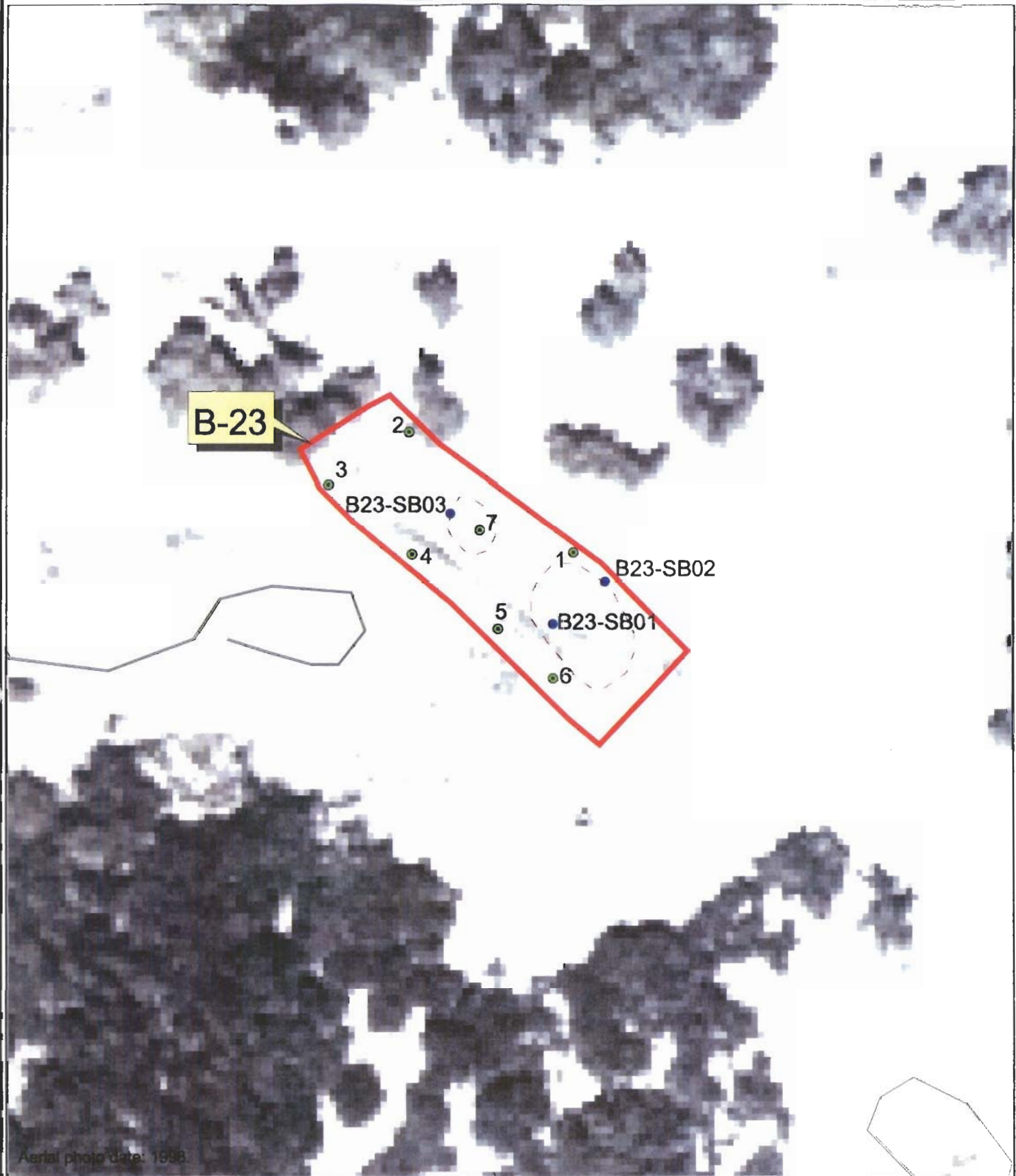
Figure B23-3

Geologic Setting

Camp Stanley Storage Activity

PARSONS ENGINEERING SCIENCE, INC.

Note: Geologic Units were mapped by Parsons ES, 1995.
Aerial Photo Date: 1998



Aerial photo date: 1998



50 0 50 Feet

- ⊙ Soil Gas Survey Location
- Soil Boring Location
- ⊕ Water Well Location
- EM Anomaly

Due to different margins of error associated with the various methods utilized for data point collection, all sample locations are approximate. For more information see the 2001 amendment to the Field Sampling Plan, Vol. 1-4 of the Environmental Encyclopedia.

Figure B23-4

Sample Location Map

Camp Stanley Storage Activity

PARSONS ENGINEERING SCIENCE, INC.

Table B23-1
Summary of Chemical Constituents Detected in Soil Gas, August 1996
Solid Waste Management Unit B-23

Sample ID	#1		#2		#3		#4		#5		#5		#6		#7		Sysblk	
	26-Aug-96	26-Aug-96	26-Aug-96	26-Aug-96	26-Aug-96	26-Aug-96	26-Aug-96	26-Aug-96	26-Aug-96	26-Aug-96	26-Aug-96	26-Aug-96	26-Aug-96	26-Aug-96	26-Aug-96	26-Aug-96	26-Aug-96	26-Aug-96
Sample Date	QC	NA	N1	N1	N1	N1	N1	N1	N1	N1	DUP	N1	N1	N1	N1	N1	QC	NA
Sample Type	4	4	4	4	5	5	4	4	5	5	5	4.5	3	3	3			
Depth (ft)	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzene	0.3 U		0.3 U		0.3 U		0.3 U		0.3 U		0.3 U		0.3 U		0.3 U		0.3 U	
Toluene	0.3 U		0.3 U		0.3 U		0.3 U		0.3 U		0.3 U		0.3 U		0.3 U		0.3 U	
Ethyl Benzene	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U	
Total Xylenes	0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U		0.35 U	
cis-1,2-DCE	0.3 U		0.3 U		0.3 U		0.3 U		0.3 U		0.3 U		0.3 U		0.3 U		0.3 U	
1,1,1-TCA	0.01 U		0.01 U		0.01 U		0.01 U		0.01 U		0.01 U		0.01 U		0.01 U		0.01 U	
TCE	0.02 U		0.02 U		0.02 U		0.02 U		0.02 U		0.02 U		0.02 U		0.02 U		0.02 U	
PCE	0.03 U		0.01 U		0.01 U		0.01 U		0.01 U		0.01 U		0.01 U		0.01 U		0.01 U	

Concentrations reported in ug/L

Abbreviations/Notes:

- Argcrm Air GC Room (background sample)
- Sysblk System blank
- N1 Environmental sample
- QC Quality control
- NA Not applicable

Data Qualifiers:

- U The analyte was analyzed for, but not detected.

Table B23-2
Summary of Chemical Constituents Detected in Soils, March 2000
Solid Waste Management Unit B-23

Sample ID	Sample Date	Sample Type	Soil Type	Beginning Depth	Ending Depth	Lab ID	Soil Comparison Criteria		RRB2-GWP (Ind.)	RRS2-SAI (Ind.)	B23-SB01		B23-SB01		B23-SB02		B23-SB02		
							Lab MDL	Background RL			Results	Flags	Dilution	SQL	Results	Flags	Dilution	SQL	Results
Moisture											9.8		6.5		6.8		18.1		3.6
SW6010B (mg/kg)	0.03	186	10	200	59,000						58.2 J	1	7.18 J	1	7.19 J	1	38.81 J	1	23.83 J
Barium	0.1	40.2	8.1	10	350,000						10.2 F	1	3.9 F	1	3.7 F	1	6.7 F	1	6.8 F
Chromium	0.18	23.2	13.1	130	74,000						103.3 J	2	3.66 J	1	4.19 J	1	5.98 J	1	4.74 J
Copper	0.12	35.5	9.8	200	12,000						7.47 J	2	2.57 J	1	3.19 J	2	5.22 J	1	4.78 J
Nickel	0.63	73.2	13.3	3,100	41,000						17.83 J	1	4.12 F	1	5.14	1	18.79	1	8.84
Zinc	0.04	0.6	19.8	5	200						2.23	1	0.04 U	1	0.04 U	1	0.38 F	1	0.04 U
SW7060A (mg/kg)	0.01	3.00	0.1	0.6	410						0.69	5	0.01 U	1	0.01 U	1	0.24	1	0.01 U
Arsenic	0.13	0.5	84.5	5.6	1,000						18.49	15	2.00	1	2.39	1	12.96	5	2.67
SW7131A (mg/kg)	0.01	0.1	0.77	0.1	9.6						0.02 F	1	0.01 U	1	0.01 U	1	0.05 F	1	0.02 F
Cadmium	0.0003	0.002	-	0.6	1.5						0.0074	1	0.002	1	0.0012 F	1	0.0282	1	0.0009 F
SW7421 (mg/kg)	0.0004	0.005	-	2000	3100						0.0008 U	1	0.005	1	0.0008 U	1	0.0008 U	1	0.0008 U
Lead	0.0004	0.003	-	70	8,900						0.0021 F	1	0.003	1	0.0027 F	1	0.0073	1	0.003
SW8260B (mg/kg)	0.0004	0.008	-	1000	9000						0.0004 U	1	0.008	1	0.0004 U	1	0.008	1	0.008
Benzene	0.0007	0.005	-	0.5	16						0.0014 F	1	0.005	1	0.0008 F	1	0.005	1	0.0007 U
Dichlorodifluoromethane	0.001	0.02	-	200	270						0.001 U	1	0.02	1	0.002 F	1	0.005 F	1	0.002 F
Ethylbenzene	0.0003	0.006	-	100	2,400						0.0103	1	0.005	1	0.0046 F	1	0.0283	1	0.005
Isopropylbenzene	0.0004	0.007	-	NA	NA						0.0008 F	1	0.007	1	0.0010 F	1	0.0039 F	1	0.0011 F
Methylene chloride	0.0004	0.003	-	NA	NA						0.0004 U	1	0.003	1	0.0004 U	1	0.0009 F	1	0.0004 U
Naphthalene	0.0008	0.007	-	1,000	3,300						0.0023 F	1	0.007	1	0.0014 F	1	0.007	1	0.0016 F
Toluene	0.0004	0.005	-	1,000	48,000						0.0011 F	1	0.005	1	0.0007 F	1	0.0045 F	1	0.0007 F
Triethylbenzene, 1,2,4-	0.03	0.7	-	0.6	65						0.27 F	1	0.7	1	0.03 U	1	0.12 F	1	0.08 F
Triethylbenzene, 1,3,5-																			
Xylene, m,p																			
Xylene, o																			
SW8279C (mg/kg)																			
Di(2-ethylhexyl)phthalate																			

Tables present all laboratory results for analytes detected above the method detection limit. Results from all laboratory analysts are presented in Appendix B. All samples were analyzed by APPL Inc. Laboratories. Referenced laboratory package numbers: APPL Inc. 32129, 32133. All MSMSD results are presented in the Data Verification Report, Appendix D. Abbreviations and Notes: Highlighted and bolded sample concentrations exceed RRS1 (background) standards. No risk reduction standard or background level available. Background values from Second Revision to the Evaluation of Background Metals in Soils and Bedrock at CSSA (Parsons, February 2002). DL - Dilution FD1 - Field Duplicate GR - Glen Rose GWP-Ind - Soil MSC based on groundwater protection K - Krum Complex MDL - Method Detection Limit NA - Not Available RL - Reporting Limit SAI-Ind - Soil MSC for industrial use based on inhalation, ingestion, and dermal contact SQL - Sample Quantitation Limit Tab - Tarrant Association, gently undulating Data Qualifiers: F - The analyte was positively identified, but the associated numerical value is below the RL. J - The analyte was positively identified, the quantification is an estimation. M - A matrix effect was present. U - The analyte was analyzed for, but not detected. The associated numerical value is the MDL.

Table B23-2
 Summary of Chemical Constituents Detected in Soils, March 2000
 Solid Waste Management Unit B-23

Sample ID	Sample Date	Sample Type	Soil Type	Beginning Depth	Ending Depth	Lab ID	Soil Comparison Criteria		B23-SB02		B23-SB03		B23-SB03		B23-SB03		B23-SB03		
							Lab MDL	Background	Background	Flags	Dilution	SQL	Flags	Dilution	SQL	Flags	Dilution	SQL	Flags
Molture																			
SW6010B (mg/kg)	0.08	1	186	10	200	59,000			6.1	1	1	1	1	1	1	1	1	1	1
Barium	0.1	20	40.2	15.1	10	350,000			2.49 J	1	1	1	1	1	1	1	1	1	1
Chromium	0.19	2	23.2	13.1	190	74,000			1.6 F	1	20	11.4 M	1	20	3.8 F	1	20	5.9 F	1
Copper	0.12	2	35.5	6.8	200	12,000			1.97 F	1	2	6.08 M	1	2	3.59	1	2	5.88	1
Nickel	0.83	5	73.2	11.3	3,100	41,000			2.38 J	1	2	7.75 M	1	2	3.35 J	1	2	7.53 J	1
Zinc	0.04	0.3	19.6	0.3	5	200			17.35	1	5	42.28 M	1	5	7.72 J	1	5	2.4	1
SW7060A (mg/kg)	0.04	0.3	19.6	0.3	5	200			0.04 U	1	0.5	1.25 M	1	0.5	0.52	1	0.5	3.12	1
Arsenic	0.01	0.1	3.00	0.1	0.5	410			0.01 U	1	0.1	0.17	1	0.1	0.01 U	1	0.1	0.01 U	1
SW7131A (mg/kg)	0.13	0.3	64.5	5.5	1,500	1,000			1.18	1	0.5	9.45 M	5	2.5	10.29	1	0.5	2.77	1
Cadmium	0.01	0.1	0.77	0.1	0.2	3.6			0.01 U	1	0.1	0.03 F	1	0.1	0.03 F	1	0.1	0.02 F	1
SW7421 (mg/kg)	0.0003	0.002							0.0016 F	1	0.002	0.0003 U	1	0.002	0.0003 U	1	0.002	0.0003 U	1
SW7471A (mg/kg)	0.0008	0.005							0.0008 U	1	0.005	0.0040 M	1	0.005	0.0040 M	1	0.005	0.0040 M	1
SW8260B (mg/kg)	0.0004	0.003							0.0027 F	1	0.003	0.0004 U	1	0.003	0.0004 U	1	0.003	0.0004 U	1
Benzene	0.0004	0.008							0.0004 U	1	0.008	0.0004 U	1	0.008	0.0004 U	1	0.008	0.0004 U	1
Dichlorodifluoromethane	0.0007	0.005							0.0007 U	1	0.005	0.0007 U	1	0.005	0.0007 U	1	0.005	0.0007 U	1
Ethylbenzene	0.001	0.02							0.002 F	1	0.02	0.001 M	1	0.02	0.001 M	1	0.02	0.001 M	1
Isopropylbenzene	0.0003	0.005							0.0003 F	1	0.005	0.0003 F	1	0.005	0.0003 F	1	0.005	0.0003 F	1
Methylene chloride	0.0004	0.007							0.0014 F	1	0.007	0.0004 U	1	0.007	0.0004 U	1	0.007	0.0004 U	1
Naphthalene	0.0004	0.003							0.0004 U	1	0.003	0.0004 U	1	0.003	0.0004 U	1	0.003	0.0004 U	1
Toluene	0.0008	0.007							0.0019 F	1	0.007	0.0008 U	1	0.007	0.0008 U	1	0.007	0.0008 U	1
Triethylbenzene, 1,2,4-	0.0004	0.005							0.0009 F	1	0.005	0.0004 U	1	0.005	0.0004 U	1	0.005	0.0004 U	1
Triethylbenzene, 1,3,5-	0.0004	0.005							0.0009 F	1	0.005	0.0004 U	1	0.005	0.0004 U	1	0.005	0.0004 U	1
Xylene, m,p-	0.0004	0.005							0.0009 F	1	0.005	0.0004 U	1	0.005	0.0004 U	1	0.005	0.0004 U	1
Xylene, o-	0.0004	0.005							0.0009 F	1	0.005	0.0004 U	1	0.005	0.0004 U	1	0.005	0.0004 U	1
SW8270C (mg/kg)	0.03	0.7							0.05 F	1	0.7	0.04 F	1	0.7	0.03 U	1	0.7	0.05 F	1
Di(2-ethylhexyl)phthalate																			

Tables present all laboratory results for analytes detected above the method detection limit.
 Results from all laboratory analysis are presented in Appendix B.
 All samples were analyzed by APPL, Inc. Laboratories. Referenced laboratory package numbers, APPL, Inc.: 32129, 32133
 All MS/MSD results are presented in the Data Verification Report, Appendix D.
 Abbreviations and Notes:
 - No risk reduction standard or background level available
 - Background values from Second Revision to the Evaluation of Background Metals in Soils and Sediment at CSSA (Parsons, February 2002)
 DL - Dilution
 FD1 - Field Duplicate
 GR - Gen-Rose
 GWP-Ind - Soil MSC based on groundwater protection
 KI - Krum Complex
 MDL - Method Detection Limit
 NI - Environmental Sample
 NA - Not Available
 RL - Reporting Limit
 SAI-Ind - Soil MSC for industrial use based on inhalation, ingestion, and dermal contact
 SQL - Sample Quantitation Limit
 TAB - Tarant Association, gently undulating
 Data Qualifiers:
 F - The analyte was positively identified, but the associated numerical value is below the RL.
 J - The analyte was positively identified, the quantitation is an estimation
 M - A matrix effect was present.
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