

Table 4.13. Detected VOCs and Metals in the Cow Creek Limestone and Hammett Shale

	Sample ID					CS-MW6-CC	CS-MW7-CC	CS-MW8CC	CS-MW8CC	CS-MW9-CC	CS-MW9-CC	CS-MW10-CC	CS-MW10-CC	CS-MW10-CC																															
	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date	04/06/01	06/26/01	06/04/01	06/04/01	01/03/01	01/08/01	09/12/01	09/12/01	09/12/01																															
	Matrix	Matrix	Matrix	Matrix	Matrix	CC	CC	CC	CC	CC	CC	CC	HS	HS																															
	Sample Type	Sample Type	Sample Type	Sample Type	Sample Type	N	N	N	N	N	N	N	N	FD																															
	Beginning Depth	Beginning Depth	Beginning Depth	Beginning Depth	Beginning Depth	456.0	467.0	462.5	472.5	397.0	433.0	494.5	534.2	534.2																															
	End Depth	End Depth	End Depth	End Depth	End Depth	457.0	468.0	463.0	473.0	397.5	435.0	495.0	534.7	534.7																															
	Lab Sample ID	Lab Sample ID	Lab Sample ID	Lab Sample ID	Lab Sample ID	AP14955	AP18990	AP17688	AP17689	AP11142	AP11178	AP22196	AP22197	AD22197																															
Sample Comparison Criteria (mg/kg)																																													
Method	APPL		TX-specific																																										
Analyte	MDL	Lab RL	Median Conc.	GWP-Ind	SAI-Ind	Results	Flag	Dilution	SQL	Results	Flag	Dilution	SQL	Results	Flag	Dilution	SQL	Results	Flag	Dilution	SQL	Results	Flag	Dilution	SQL	Results	Flag	Dilution	SQL																
D2216 (%)																																													
Total Solids						88.2				89.5				87.6				90.1				91.1				87.1				89.5				91.9				91.9							
SW6010B (MG/KG)																																													
Barium	0.08	1.0	300	200	59000	2.45		1	1.	2.3		1	1.	1.05		1	1.	1.63		1	1.	1.46		1	1.	2.1		1	1.	0.95	F	1	1.	5.64		1	1.	6.9		1	1.				
Chromium	0.1	20	30	10	350000	2.2	F	1	20.	6.4	F	1	20.	3.1	F	1	20.	4.6	F	1	20.	2.	F	1	20.	8.4	F	1	20.	3.2	F	1	20.	13.8	F	1	20.	17.	F	1	20.				
Copper	0.19	2.0	15	130	74000	2.41		1	2.	0.93	F	1	2.	0.62	F	1	2.	0.73	F	1	2.	0.87	F	1	2.	1.66	F	1	2.	0.44	F	1	2.	4.56		1	2.	4.34		1	2.				
Nickel	0.12	2.0	10	200	12000	1.93	F	1	2.	5.63		1	2.	2.65		1	2.	3.46		1	2.	3.44		1	2.	7.84	M	1	2.	3.34		1	2.	12.73		1	2.	12.71		1	2.				
Zinc	0.63	5.0	30	3100	410000	3.65	F	1	5.	5.51		1	5.	10.18		1	5.	2.99	F	1	5.	7.39		1	5.	5.77		1	5.	19.69		1	5.	5.75	J	1	5.	9.48	J	1	5.				
SW7060A (MG/KG)																																													
Arsenic	0.04	0.5	5.9	1	200	0.05	F	1	0.5	1.11	J	1	0.5	0.04	J	1	0.5	0.04	J	1	0.5	0.21	F	1	0.5	1.11	M	1	0.5	0.2	U	5	2.5	3.84		1	0.5	7.81		2	1.				
SW7131A (MG/KG)																																													
Cadmium	0.01	0.1	0.1	0.5	1500	0.04	F	1	0.1	0.02	F	1	0.1	0.27		1	0.1	0.01	U	1	0.1	0.12		1	0.1	0.01	U	1	0.1	0.37		4	0.4	0.02	F	1	0.1	0.02	F	1	0.1				
SW7421 (MG/KG)																																													
Lead	0.13	0.5	15	1.5	1000	0.29	F	1	0.5	1.11		1	0.5	0.63		1	0.5	1.05		1	0.5	0.67		1	0.5	0.81	J	1	0.5	0.13	U	1	0.5	5.18		1	0.5	5.24		5	2.5				
SW7471A (MG/KG)																																													
Mercury	0.01	0.1	0.04	0.2	9.6	0.06	F	1	0.1	0.02	F	1	0.1	0.01	U	1	0.1	0.01	U	1	0.1	0.01	U	1	0.1	0.01	U	1	0.1	0.01	U	1	0.1	0.01	U	1	0.1	0.01	U	1	0.1				
SW8260 (MG/KG)																																													
Methylene chloride	0.0013	0.005	-	0.5	16	0.0007	U	1	0.005	0.0007	U	1	0.005	0.0007	U	1	0.005	0.0007	U	1	0.005	0.0007	U	1	0.005	0.0007	U	1	0.005	0.0145		1	0.005	0.0016	F	1	0.005	-	-	-	-				
Naphthalene	0.001	0.02	-	20	270	0.001	U	1	0.02	0.001	F	1	0.02	0.001	U	1	0.02	0.001	U	1	0.02	0.001	U	1	0.02	0.001	R	1	0.02	0.001	M	1	0.02	0.001	U	1	0.02	0.0015	F	1	0.02	-	-	-	-
Toluene	0.0003	0.005	-	100	2400	0.0003	U	1	0.005	0.0003	U	1	0.005	0.0003	U	1	0.005	0.0003	U	1	0.005	0.001	U	1	0.005	0.0005	F	1	0.005	0.0058		1	0.005	0.0014	F	1	0.005	-	-	-	-				

Abbreviations/Notes:
Bolded and Highlighted samples indicate results greater than Texas-specific median background concentrations
 Boxed samples exceed RRS2 standards when median background concentrations < RRS2
 a Background values from Revised Background Report, 2000

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.
 U - The analyte was analyzed for, but not detected. The associated numerical value is the MDL.
 R- The data are unusable due to deficiencies in the ability to analyze the sample and meet QC criteria

APPL APPL Laboratories
 DL Dilution
 FD1 Field Duplicate
 GWP-Ind Soil MSC based upon groundwater protection
 MDL Method Detection Limit
 NI Environmental Sample
 - Not Available
 RL Reporting Limit
 SAI-Ind Industrial use MSC based on inhalation, ingestion, and dermal contact
 SQL Sample Quantitation Limit