

**Table 2 - Surface Soil Analytical Results Compared to the Tier 1 Soil PCLs**  
 Source: TCEQ Tier 1 Protective  
[http://www.tceq.texas.gov/assets/public/errmediation/frm/txrdb1\\_5\\_042308.xls](http://www.tceq.texas.gov/assets/public/errmediation/frm/txrdb1_5_042308.xls)

**Surface Soil Samples**

Analyte	Texas Soil Background		Residential 0.5 Acre		Residential 30 Acre		Commercial/Industrial 0.5 Acre		Commercial/Industrial 30 Acre		Sample ID	Date	Depth (ft)	ECTB Surface 1		ECTB Surface 2		KCS-1 Surface		KCS-3 Surface	
	Yr Soil Cont.	GW Soil Inj.	Yr Soil Cont.	GW Soil Inj.	Yr Soil Cont.	GW Soil Inj.	Yr Soil Cont.	GW Soil Inj.	Yr Soil Cont.	GW Soil Inj.				Surface	Result *	Surface	Result *	Surface	Result *	Surface	Result *
Arsenic	5.9	24	5	24	2.5	200	5	200	200	2.5	NA	NA	1.84	NA	NA	NA	NA	NA	NA	NA	NA
Barium	300	800	440	7600	220	100000	440	89000	89000	220	NA	NA	20.3 J	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	52	1.5	92	0.75	850	1.5	850	850	0.75	NA	NA	0.474 J	NA	NA	NA	NA	NA	NA	NA	NA
Chromium (total)	30	30000	2400	23000	1200	95000	2400	57000	57000	1200	NA	NA	5.13	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (SW 7471B)	0.4	300	0.0078	900	1.5	1600	3	1600	1600	1.5	NA	NA	9.37	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	0.3	310	2.3	2.1	0.0039	6.2	0.0078	3.3	0.0039	0.0039	NA	NA	0.0365 H	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	96	0.48	95	0.24	1900	1.4	4700	1700	1.1	NA	NA	0.312 J	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.71	NA	NA	1500	NA	NA	NA	NA	NA	NA	NA	NA
TPH (TX1005)																					
TPH fraction C8-C12		1600	65	1100	33	3900	100	2100	2100	97	4.100	<320	2.900	2.900	<92	2.900	2.900	2.900	2.900	<92	<92
TPH fraction C12-C28		2300	200	2000	69	12000	590	7800	7800	300	22.000	37.000	45.000	14.000	8.200	14.000	14.000	14.000	14.000	8.200	8.200
TPH fraction C28-C35		2300	200	2000	69	12000	590	7800	7800	300	2.800	12.000	3.800	2.400	1.000	3.800	2.400	2.400	2.400	1.000	1.000
Total TPH		NA	NA	NA	NA	NA	NA	NA	NA	NA	28.700	49.000	51.500	19.300	9.200	19.300	19.300	19.300	9.200	9.200	
TPH Speciation (TX 1006 - Aliphatics)																					
C6 Aliphatic Hydrocarbons		1900	170	1200	86	4000	510	2100	2100	260	<240	NA	<480	<230	NA	<230	<230	<230	<230	NA	NA
C8 to C8 Aliphatic Hydrocarbons		1900	420	1200	210	4000	1300	2100	2100	630	<240	NA	<480	<230	NA	<230	<230	<230	<230	NA	NA
C8 to C10 Aliphatic Hydrocarbons		2200	3600	1300	1800	4100	11000	2200	2200	5400	<240	NA	<480	260	NA	<240	260	260	260	NA	NA
C10 to C12 Aliphatic Hydrocarbons		2100	25000	1300	13000	4000	76000	2100	2100	38000	1.800	NA	1.400	<230	NA	<230	<230	<230	<230	NA	NA
C12 to C18 Aliphatic Hydrocarbons		2800	460000	1800	250000	8200	1000000	3300	3300	740000	9.100	NA	19.000	3.200	NA	3.200	3.200	3.200	3.200	NA	NA
C18 to C21 Aliphatic Hydrocarbons		130000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	5.000	NA	13.000	3.500	NA	3.500	3.500	3.500	3.500	NA	NA
C21 to C35 Aliphatic Hydrocarbons		110000**	1000000**	110000**	1000000**	1000000**	1000000**	1000000**	1000000**	1000000**	5.400	NA	14.000	4.700	NA	4.700	4.700	4.700	4.700	NA	NA
TPH Speciation (TX 1006 - Aromatics)																					
C7 to C8 Aromatic Hydrocarbons		4800	20	3700	10	18000	60	10000	10000	30	<340	NA	<480	<230	NA	<230	<230	<230	<230	NA	NA
C8 to C10 Aromatic Hydrocarbons		1600	65	1100	33	3900	150	2100	2100	67	<340	NA	<480	<230	NA	<230	<230	<230	<230	NA	NA
C10 to C12 Aromatic Hydrocarbons		1800	100	1500	50	8000	300	4000	4000	150	<340	NA	<480	<230	NA	<230	<230	<230	<230	NA	NA
C12 to C18 Aromatic Hydrocarbons		2300	200	2000	69	12000	590	7800	7800	300	3.500	NA	6.400	3.000	NA	3.000	3.000	3.000	3.000	NA	NA
C18 to C21 Aromatic Hydrocarbons		1900	470	1900	230	16000	1400	18000	18000	700	2.400	NA	5.300	3.900	NA	3.900	3.900	3.900	3.900	NA	NA
C21 to C35 Aromatic Hydrocarbons		1900	3700	1600	1600	19000	11000	19000	19000	5500	4.950	NA	8.900	4.100	NA	4.100	4.100	4.100	4.100	NA	NA

Notes:  
 \*Indicates SQL exceeds PCL  
 \*\*Indicates detected concentration exceeds PCL and TSSC when applicable.  
 TSSC - TCEQ Texas-Specific Background Concentration (October 21, 2003)  
 PCL = Protective Concentration Level  
 SQL = Sample Detection Limit  
 \*all values are given in mg/kg unless otherwise specified  
 \*\*This PCL is for transformer mineral oil releases only.  
 \*\*Soil Cont. - PCL for direct contact, ingestion, and inhalation of surface soil particulates  
 GW Soil Inj. - PCL for soil leaching to groundwater pathway  
 NA = Not Applicable  
 J = The target analyte was positively identified below the MCL and above the SQL.  
 H = The target analyte was analyzed outside of Hold Time.