

EXPLORATION LOG SA40-A2

PROJECT: TRONOX PHASE B
 EXPLORATION LOCATION: TRONOX AREA 2
 EXPLORATION SIZE (dia.): 6.25" CORE BARREL
 ELEVATION: EXISTING GROUND SURFACE

PROJECT NO.: 20092518V1
 EXPLORATION DATE: 9-11-2009
 EQUIPMENT: SDC550-24 SONIC CORE RIG
 LOGGED BY: THOMPSON/GAREY

INITIAL DEPTH TO WATER: NOT ENCOUNTERED
 FINAL DEPTH TO WATER: NOT ENCOUNTERED

DATE MEASURED: N/A
 DATE MEASURED: N/A

ELEVATION/ DEPTH	SOIL & SAMPLE SYMBOLS	USCS	DESCRIPTION	PI	LL	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	Pocket Penetrometer (tsf)	WELL CONSTRUCTION
0 2.5 5 7.5 10 12.5 15 17.5		SW	SAND, reddish brown (5YR 4/4), 90% fine to coarse sub-angular to sub-rounded sand, 10% fine to medium gravel, loose, dry, no plasticity, strong HCl reaction						
		SW	...gravel content to trace amounts						
		SW	Collect SA40-10B, PID readings: 10.6 eV = 0.0 ppmV, 11.7 eV = 0.0 ppmV ...gravel content to 10%						
		SW	Gravelly SAND, reddish brown (5YR 4/3), 85% fine to coarse sub-angular to sub-rounded sand, 15% fine to coarse red and black volcanic gravel, trace volcanic cobbles, trace caliche nodules up to 3" diameter, dense, dry, no plasticity, strong HCl reaction						

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20									
22.5		SW	...gravel content to 10%, dark reddish brown (5YR 3/4)						
25		SW	Collect SA40-25B, PID readings: 10.6 eV = 0.4 ppmV, 11.7 eV = 0.0 ppmV SAND, light yellowish brown (10YR 6/4), 100% fine to coarse sand (mostly fine), dense, damp, heavily cemented zones (gypsum cement)						
27.5									
30									
32.5		SP	SAND, reddish brown (5YR 4/4), 5% silt, 95% very fine to fine sand, trace caliche nodules, loose, damp, low to moderate plasticity, weak HCl reaction,						
35									

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		SP	Collect SA40-41B, SA40-41BMS, SA40-41BMSD, PID readings: 10.6 eV = 0.6 ppmV, 11.7 eV = 0.0 ppmV						
			END OF BORING AT 42.5 FEET						

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