

EXPLORATION LOG SA117-A2

PROJECT: TRONOX PHASE B

PROJECT NO.: 20092518V1

EXPLORATION LOCATION: TRONOX AREA 2

EXPLORATION DATE: 9-18-2009

EXPLORATION SIZE (dia.): 3" CORE BARREL

EQUIPMENT: SDC550-24 SONIC CORE RIG

ELEVATION: EXISTING GROUND SURFACE

LOGGED BY: THOMPSON/GAREY

INITIAL DEPTH TO WATER: NOT ENCOUNTERED

DATE MEASURED: N/A

FINAL DEPTH TO WATER: NOT ENCOUNTERED

DATE MEASURED: N/A

ELEVATION/ DEPTH	SOIL & SAMPLE SYMBOLS	USCS	DESCRIPTION	PI	LL	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	Pocket Penetrometer (tsf)	WELL CONSTRUCTION
0		PAVE	ASPHALT, approximately 4" thick						
1.8 to 2.0	20 19 18	SW	Collect SA117-0.5B, PID readings: 10.6eV = 0.0 ppmV, 11.7 eV = 0.0 ppmV SAND, reddish brown (5YR 4/4), approximately 95% fine to coarse, sub-rounded to sub-angular sand, approximately 5% fine sub-angular to sub-rounded gravel, variable calichified zones, loose to moderately loose, dry, no plasticity, strong HCl reaction						
9.6 to 9.8	7 60 60	SW	Collect SA117-9B, SA117-9BMS, SA117-9BMSD PID readings: 10.6 eV = 0.2 ppmV, 11.7 eV = 0.0 ppmV ...reddish brown (5YR 3/4), gravel to 10%						
17.5		SW	SAND with gravel, dark reddish brown (5YR 3/4), 90% fine to coarse sand, 10 % fine to medium sub-angular to sub-rounded volcanic gravel, caliche layers present, dense to very dense, dry, strong HCl reaction						

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		SW	...17.5' to 18' below ground surface (BGS) caliche present						
		SW	...19' to 19.5' below ground surface (BGS) caliche present						
		SW	...coarse sand is rounded						
		SW	Collect SA117-25B, PID readings: 10.6 eV = 0.0 ppmV, 11.7 eV = 0.0 ppmV ...gravel content 5%						
		SW	...gravel content to 10%, fine to medium, sub- angular to rounded						
		SP	SAND, strong brown (7.5YR 4/6), trace silt, approximately 95% very fine to fine sub-angular to sub-rounded sand, dense to very dense, dry to damp, low plasticity						

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		SW	...40' to 42' coarse sub-rounded sand with gypsum crystals, dark reddish brown (5YR 3/3)						
		VS	Collect SA117-41 B, PID readings: 10.6 eV = 0.0 ppmV, 11.7eV 0.0 ppmV SAND, strong brown (7.5YR 4/6), trace silt, approximately 95% very fine to fine sub-angular to sub-rounded sand, dense to very dense, dry to damp, low plasticity						
			END OF BORING AT 42.5 FEET						

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