

EXPLORATION LOG SA101-A4

PROJECT: TRONOX PHASE B
EXPLORATION LOCATION: TRONOX AREA 4
EXPLORATION SIZE (dia.): 3" CORE BARREL
ELEVATION: EXISTING GROUND SURFACE

PROJECT NO.: 20092518V1
EXPLORATION DATE: 9-25-2009
EQUIPMENT: SDC550-24 SONIC CORE RIG
LOGGED BY: SEARS/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	[Cross-hatch pattern]		FILL: sand and gravel cover						
	[Solid black]		PAVE ASPHALT approximately 5" thick						
2.5	[Cross-hatch pattern] 20 8 11		FILL Collect SA101-0.5B, SA101-0.5BMS, SA101-0.5BMSD, PID readings: 10.6 eV = 0.1 ppmV, 11.7 eV = 1.4 ppmV FILL: SAND with gravel, SW, reddish brown (5YR 4/3), 90% fine to coarse sub- angular to sub-rounded sand, 10% fine to medium gravel, trace caliche fragments, loose to medium dense, damp, no plasticity, strong HCl reaction						
5									
7.5									
10	[Dotted pattern] 8 7 16		SW SAND with gravel, reddish brown (5YR 4/ 4), 90% fine to coarse sub-angular to sub-rounded sand, 10% fine to medium sub-angular to sub-rounded gravel, loose to dense, damp, no plasticity, zones of calcite cementation, strong HCl reaction Collect SA101-10B, PID readings: 10.6 eV = 0.1 ppmV, 11.7 eV = 2.3 ppmV						
12.5			SW ...12.5' to 16.5' below ground surface (BGS) is moderately cemented with calcite, strong HCl reaction, dense to very dense, dry,						
15									

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		SW	...color to yellowish red (5YR 5/6), gravel content to 5%						
		SW	...sand is finer grained, mostly very fine to fine						
		SW	Collect SA101-25B, PID readings: 10.6 eV = 0.0 ppmV, 11.7 eV = 0.0 ppmV						
		SP	SAND, reddish yellow (7.5YR 6/6), trace silt, 100% very fine to fine sand, medium loose to medium dense, damp, low plasticity, moderate HCl reaction						

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		SP	...color to yellowish red (5YR 5/6), silt content to 5%, medium loose, damp, low to medium plasticity, trace caliche nodules						
		SP	Collect SA101-42B, PID readings: 10.6 eV = 0.4 ppmV, 11.7 eV = 1.2 ppmV						
			END OF BORING AT 43.5 FEET						

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