

EXPLORATION LOG SA205-A4

PROJECT: TRONOX PHASE B

PROJECT NO.: 20092518V1

EXPLORATION LOCATION: TRONOX AREA 4

EXPLORATION DATE: 9-24-2009

EXPLORATION SIZE (dia.): 6.25" CORE BARREL

EQUIPMENT: SDC550-24 SONIC CORE RIG

ELEVATION: EXISTING GROUND SURFACE

LOGGED BY: SEARS/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 3" thick						
10 24 24		FILL	Collect SA205-0.5B, PID readings: 10.6 eV = 0.1 ppmV, 11.7 eV = 0.0 ppmV FILL, SW, SAND with gravel, brown (7.5YR 4/4), 90% fine to coarse sub-angular to sub-rounded sand, 10% fine to coarse sub-angular to sub-rounded gravel, trace caliche and concrete fragments, loose, damp, no plasticity, strong HCl reaction						
10		FILL	...SW, trace small volcanic cobbles						
9 18 15		SW	Collect SA205-10B, PID readings: 10.6 eV = 0.7 ppmV, 11.7 eV = 1.2 ppmV SAND with gravel, reddish brown (5YR 4/4)						
15		SW	SAND with gravel, reddish brown (7.5YR 4/4), 90% fine to coarse sand, 10% gravel, trace volcanic cobbles up to 6" diameter, trace gypsum crystals, loose to dense in cemented zones, damp, no plasticity						
17.5									

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		SW	...large red volcanic boulder present						
		SW	Collect SA205-25B, PID readings: 10.6 eV = 0.4 ppmV, 11.7 eV = 0.0 ppmV						
		SW	Gravelly SAND, reddish brown (7.5YR 4/4) , 85% fine to coarse sand, 15% gravel						
		SW	...gravel content to 5%, trace gypsum crystals						
		SW	...34' to 35.5' below ground surface (BGS) well cemented (calcite and gypsum cement) caliche zone is present, trace red and black volcanic gravel up to 2" diameter						

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		SP	SAND, reddish brown (5YR 5/4), trace silt, 100% very fine to fine sand, medium dense, damp, low plasticity, weak HCl reaction						
		SP	Collect SA205-41B, PID readings: 10.6 eV = 0.3 ppmV, 11.7 eV = 0.0 ppmV ...yellowish red (5YR 5/8)						
			END OF BORING AT 42.5 FEET						

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