

EXPLORATION LOG SA148-A4

PROJECT: TRONOX PHASE B

PROJECT NO.: 20092518V1

EXPLORATION LOCATION: TRONOX AREA 4

EXPLORATION DATE: 9-23-2009

EXPLORATION SIZE (dia.): 3" 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
2.5		FILL	Collect SA148-0.5B, PID readings: 10.6 eV = 0.0 ppmV, 11.7 eV = 0.0 ppmV SAND, SW, brown (7.5YR 4/4), 95% fine to coarse sub-angular to sub-rounded sand, 5% fine sub-angular volcanic gravel, trace caliche fragments, loose to medium dense, dry, no plasticity, strong HCl reaction						
5		SW	SAND, reddish brown (5YR 4/4), 95% fine to coarse sand, 5% fine to medium gravel, medium loose to dense, damp, no plasticity, strong HCl reaction						
7.5		SW	Collect SA148-10B, PID readings: 10.6 eV = 0.0 ppmV, 11.7 eV = 2.6 ppmV						
10		SW	SAND with gravel, reddish brown (5YR 4/4), 90% fine to coarse sand, 10% fine to medium gravel, medium loose to very dense, damp, no plasticity, heavily cemented calichified zones, strong HCl reaction						
12.5									
15									
17.5									

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20									
22.5									
25									
27.5									
30		SW	...calichified zone (gypsum and calcite cement), weak to moderate HCl reaction						
30		SW	Collect SA148-30B, PID readings: 10.6 eV = 0.2 ppmV, 11.7 eV = 0.1 ppmV						
30		SP	SAND, yellowish red (5YR 5/8), 100% very fine to fine sand, dense to very dense, dry to damp, low plasticity, variable calichified zones						
32.5									
35		SP	Collect SA148-35B, PID readings: 10.6 eV = 0.0 ppmV, 11.7 eV = 0.0 ppmV						

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37.5			SAND, reddish brown (5YR 4/4), 5% silt, 95% very fine to fine silt, trace gypsum crystals, medium dense, dry, low plasticity, weak HCl reaction						
40		SP	...loose to medium loose, damp, moderate plasticity						
42.5		SP	...caliche nodules up to 1" diameter, no HCl reaction						
45	15 37 43	SP	Collect SA148-45B, PID readings: 10.6 eV = 0.3 ppmV, 11.7 eV = 0.0 ppmV SAND, reddish brown (5YR 4/4), 5% silt, 95% very fine to fine sand, loose to dense, damp, moderate plasticity						
47.5			END OF BORING AT 46.5 FEET						
50									
52.5									

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