

EXPLORATION LOG SA157-A3

PROJECT: TRONOX PHASE B

PROJECT NO.: 20092518V1

EXPLORATION LOCATION: TRONOX AREA 3

EXPLORATION DATE: 10-19-2009

EXPLORATION SIZE (dia.): 6.25" CORE BARREL

EQUIPMENT: SDC550-24 SONIC CORE RIG

ELEVATION: EXISTING GROUND SURFACE

LOGGED BY: SEARS/FERRINGER

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
		PAVE	ASPHALT approximately 4" thick						
		SP	SAND, reddish brown (5YR 4/3), 90% fine to medium sand, 10% coarse sand, trace sub-rounded volcanic gravel less than 1" diameter, loose to medium-dense, dry, no plasticity, moderate HCl reaction, no dilatency						
		SP	Collect SA157-10B, PID readings: 10.6 eV = 0.0 ppmV, 11.7 eV = 1.4 ppmV						
		SP	...gravel up to 2" diameter, sub-angular, trace sub-rounded cobbles up to 4" diameter						

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20		SW	SAND, brown (7.5YR 4/4), 85% fine to medium sub-angular to sub-rounded sand, 15% coarse sand, trace sub-angular volcanic gravel less than 2" diameter, trace caliche nodules less than 1" diameter, caliche veins, medium dense, dry, no plasticity, moderate to strong HCl reaction						
22.5									
25		SW	Collect SA157-25B, PID readings: 10.6 eV = 0.0 ppmV, 11.7 eV = 0.3 ppmV ...coarse sand to 20%, gravel to 5%						
27.5									
30		SW	...trace coarse gravel up to 2.5" diameter						
32.5		SW	...70% fine to medium sand, 30% sub-angular to sub-rounded coarse sand, trace fine to coarse sub-angular to sub- rounded volcanic gravel						
35									

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37.5									
40		SP-SM	SAND with silt, light brown (7.5YR 6/3), 10% silt, 90% very fine to medium sand, dense, damp, no to low plasticity, calichified zones up to 1" thick, scattered heavy cementation, strong HCl reaction						
42.5									
45	9 15 26	SP	Collect SA157-44B, PID readings: 10.6 eV = 0.0 ppmV, 11.7 eV = 0.6 ppmV SAND, brown (7.5YR 5/4), trace silt, 100% very fine to fine sand, medium dense, moist, low plasticity, no HCl reaction END OF BORING AT 45.5 FEET						
47.5									
50									
52.5									

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