

EXPLORATION LOG SA105-A2

PROJECT: TRONOX PHASE B

PROJECT NO.: 20092518V1

EXPLORATION LOCATION: TRONOX AREA 2

EXPLORATION DATE: 9-2-2009

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
	<p>9 12 18</p>	SW	<p>Collect SA105-0.5B, PID readings: 10.6 eV = 12.4 ppmV, 11.7 eV = 7.2 ppmV SAND, reddish brown (5YR 4/4), 95% fine to coarse sand, 5% fine to coarse sub-angular to sub-rounded gravel, loose to dense, dry, no plasticity, zones of weak to strong cementation, moderate HCl reaction</p>						
10	37 50/5	SW	<p>Collect SA105-10B, SA105009-10B, PID readings: 10.6 eV = 0.3 ppmV, 11.7 eV = 1.1 ppmV ...color to dark reddish brown (5YR 3/4) , stronger cementation</p>						
12.5		SW	<p>Gravelly SAND, dark reddish brown (5YR 3/4), 90% fine to coarse sand, 10% fine to coarse gravel, trace black and red volcanic cobbles</p>						
15									
17.5									

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		SW	...gravel content to trace amounts						
		SW	Collect SA51-20B, PID readings: 10.6 eV 5.7 ppmV, 11.7 eV = 1.4 ppmV						
		SW	...4" thick heavily cemented layer (gypsum cement)						
		SW	...interbedded heavily cemented layers approximately 2" thick (gypsum and calcite cement)						
	SW	Collect SA51-31B, PID readings: 10.6 eV = 0.3 ppmV, 11.7 eV = 0.4 ppmV							
			END OF BORING AT 32.5 FEET						

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