

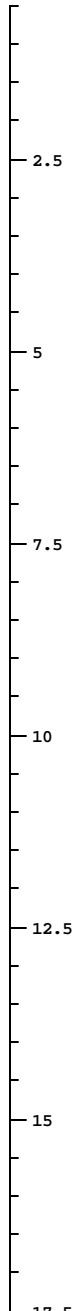
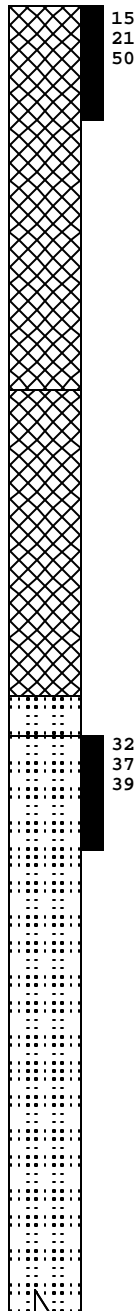
EXPLORATION LOG SA190-A4

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

PROJECT NO.: 20092518V1
EXPLORATION DATE: 9-30-2009
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
		FILL	Collect SA190-0.5B, PID readings: 10.6 eV = 0.0 ppmV, 11.7 eV = 0.1 ppmV FILL: Gravelly SAND, SW, reddish brown (5YR 4/4), 80% fine to coarse sand, 20% fine to coarse gravel with rubble fragments, dense to very dense, no plasticity						
		FILL	FILL: concrete from 5.5' to 9.5' below ground surface (BGS)						
		SW	SAND with gravel, reddish brown (5YR 4/ 4), 90% fine to coarse sand, 10% fine to medium sub-angular to sub-rounded gravel, medium loose to very dense, dry, no plasticity, strong HCl reaction Collect SA190-10B, PID readings: 10.6 eV = 0.2 ppmV, 11.7 eV = 0.0 ppmV						
		SW							

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20		SP	SAND, yellowish red (5YR 5/8), 100% very fine to fine sand, loose, damp, no plasticity, minor zones of cementation and caliche nodules, weak HCl reaction						
22.5		SP	...21' to 23' BGS gypsum and calcite cementation, light reddish brown (5YR 6/4), weak HCl reaction						
25		SP	Collect SA190-25B, PID readings: 10.6 eV = 0.0 ppmV, 11.7 eV = 0.0 ppmV						
27.5									
30		SP	SAND, reddish yellow (5YR 6/8), trace silt, 98% very fine to fine sand, trace gypsum crystals, loose to dense, no HCl reaction						
32.5		SP	...silt content increasing						

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ELEVATION/ DEPTH	SOIL & SAMPLE SYMBOLS	USCS	DESCRIPTION	PI	LL	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	Pocket Penetrometer (tsf)	WELL CONSTRUCTION
		SP	Collect SA190-38B, SA190-38BMS, SA190-38BMSD SAND with silt, reddish yellow (5YR 6/8) , 5% silt, 95% very fine to fine sand, loose, moist, medium plasticity, gypsum cementation and trace calcite nodules END OF BORING AT 39.5 FEET						

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