

# EXPLORATION LOG SA85

**PROJECT:** TRONOX PHASE B **PROJECT NO.:** 20092518V1  
**EXPLORATION LOCATION:** TRONOX AREA 1 **EXPLORATION DATE:** 7/9/2009  
**EXPLORATION SIZE (dia.):** 3" CORE BARREL **EQUIPMENT:** SDC550-24 SONIC CORE RIG  
**ELEVATION:** EXISTING GROUND SURFACE **LOGGED BY:** SEARS/DAVIS

**INITIAL DEPTH TO WATER:** NOT ENCOUNTERED **DATE MEASURED:** NA  
**FINAL DEPTH TO WATER:** NOT ENCOUNTERED **DATE MEASURED:** NA

ELEVATION/ DEPTH	SOIL & SAMPLE SYMBOLS	USCS	DESCRIPTION	PI	LL	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	% SWELL	WELL CONSTRUCTION
		Fill							
		SW-SM	Reddish brown (5YR 4/4) well graded SAND with silt, trace gravel, trace caliche nodules. 70-90% sand, 10- 20% silt. Gravel less than 2 inches diameter, subangular-subrounded, volcanic. Caliche nodules less than 1 inch diameter.  8-10 feet; 5-8% gravel, less than 3 inches diameter, subrounded, volcanic.  Collect sample SA85-10B, SA85-10MSB, SA85-10MSDB, very dense, dry, PID readings: 10.6 eV=0.1 ppmV, 11.7 eV=0.0 ppmV.  13-14 feet; 5-8% gravel less than 3 inches diameter, subrounded, volcanic.  16-18 feet; thin (<2 inches thick), weakly cemented layers, trace caliche nodules.						

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			<p>18-20 feet; gravel 2-5%, less than 2 inches diameter, subrounded-subangular, volcanic.</p> <p>Collect sample SA85-20B, medium dense, dry. PID readings: 10.6 eV=0.3 ppmV, 11.7 eV=0.0 ppmV.</p>						
		ML	<p>Muddy Creek Formation. Reddish brown (2.5YR 4/4) SILT with sand. 85-90% silt, 10-15% fine grained sand, trace gypsum occurring as aggregates of fine grained crystals, moist, low plasticity.</p> <p>Collect sample SA85-32B, very stiff, moist. PID readings: 10.6 eV=0.3 ppmV, 11.7 eV=0.0 ppmV.</p>						
			END OF BORING AT 33.5 FEET						

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