



# EXPLORATION LOG SA166

**PROJECT:** TRONOX PHASE B **PROJECT NO.:** 20092518V1  
**EXPLORATION LOCATION:** TRONOX AREA 1 **EXPLORATION DATE:** 6/29/2009  
**EXPLORATION SIZE (dia.):** 3" CORE BARREL **EQUIPMENT:** SDC550-24 SONIC CORE RIG  
**ELEVATION:** EXISTING GROUND SURFACE **LOGGED BY:** SEARS/BRINKERHOFF

**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	LI	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	% SWELL	WELL CONSTRUCTION
		<p>Fill</p> <p>SP-SM</p> <p>ML</p>	<p>Yellowish brown (10YR 5/4) poorly graded SAND with silt and gravel. 60% sand (85% fs, 15% ms), 25% silt, 15% gravel (subangular-subrounded), moist, strong reaction to HCl, weakly cemented, medium dense.</p> <p>Reddish brown (5YR 4/4) poorly graded SAND with silt. 70% sand (80% fs, 20% cs), 30% silt, trace gravel, moist, weakly to moderately cemented, strong reaction to HCl, medium dense.</p> <p>Collect sample SA166-10B, PID readings: 10.6 eV=3.4ppmV, 11.7 eV=2.2 ppmV, yellowish brown.</p> <p>Reddish brown (5YR 5/4) SILT with sand. 65% silt, 35% sand (90% fs, 10% ms), trace gravel, dry, strong reaction with HCl.</p>						

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		SP-SM	<p>Reddish brown (5YR 5/4) poorly graded silty SAND. 65% sand (70% fs, 30% cs), 35% silt, trace gravel, dry, moderately cemented, laminated, strong reaction with HCl.</p> <p>Collect sample SA166-20B.</p> <p>...weak to no reaction with HCl, increasing gypsum content (10%) as fine grained crystals and matrix. PID readings: 10.6 eV=4.6 ppmV, 11.7 eV=3.9 ppmV.</p>						
		SC	<p>Muddy Creek Formation, abrupt contact with overlying sand. Yellowish Brown (10YR 5/4) clayey SAND. 65% fine grained sand, 35% lean clay, trace gypsum (as matrix), moist, laminated, no reaction with HCl, stiff.</p> <p>Collect sample SA166-31B. PID readings: 10.6 eV=2.1ppmV, 11.7 eV=1.3 ppmV</p>						
			END OF BORING AT 32.5 FEET						

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