

# EXPLORATION LOG SA173-A2

**PROJECT:** TRONOX PHASE B

**PROJECT NO.:** 20092518V1

**EXPLORATION LOCATION:** TRONOX AREA 2

**EXPLORATION DATE:** 7/27/2009

**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	LL	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	Pocket Penetrometer (tsf)	WELL CONSTRUCTION
		Fill	<p>Yellowish brown (10YR 5/4) silty SAND with gravel, (65% sand (80% fs, 105 ms, 10% cs), 25% silt, 10% gravel (80% fg, 20% mg)), dry, loose, strong reaction with HCl. Collect sample SA173-0.5B, PID readings: 10.6eV=0.8 ppmV, 11.7eV=0.2 ppmV.</p>						
		SM	<p>Yellowish brown (10YR 5/4) silty SAND, (65% sand (80% fs, 20% ms), 35% silt, trace gravel), dry, dense, strong reaction with HCl, weak to moderate cementation.  ...low plasticity.</p> <p>Collect sample SA173-10B, PID readings: 10.6eV=1.1 ppmV, 11.7ev=0.4 ppmV.  ...slight oxidation staining.</p>						
		SP	<p>Yellowish brown (10YR 5/4), poorly graded SAND with silt (85% sand (95% fs, 5% ms),</p>						

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ELEVATION/ DEPTH	SOIL & SAMPLE SYMBOLS	USCS	DESCRIPTION	PI	LL	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	Pocket Penetrometer (tsf)	WELL CONSTRUCTION
			15% silt), moist, dense, strong reaction with HCl.						
20		SP-SM	Yellowish brown (10YR 5/4) silty SAND with gravel, (65% sand (80% fs, 20% ms) 20% silt, 15% gravel (80% fg, 20% mg), moist, dense, strong reaction with HCl, weak to moderate cementation.						
22.5									
25									
27.5		CALI	White (10YR 8/1) caliche nodules and matrix material; driller reports hard drilling.						
30		SC	Muddy Creek Formation. Yellowish red (5YR 4/6) clayey SAND (65% sand (100% fs), 35% lean clay, trace gravel), moist, medium dense, weak reaction with HCl, laminated. Collected sample SA173-29B, PID readings: 10.6eV=2.3 ppmV, 11.7eV=1.0 ppmV.						
32.5			<b>END OF BORING AT 30.5 FEET</b>						
35									

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