## EXPLORATION LOG SA100

**PROJECT:** TRONOX PHASE B PROJECT NO.: 20092518V1 **EXPLORATION LOCATION: TRONOX AREA 1 EXPLORATION DATE: 7/7/2009** 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 CONSTRUCTION MOISTURE CONTENT (%) DRY DENSITY (pcf) SWELL **ELEVATION/** SOIL & SAMPLE USCS DESCRIPTION ద  $\exists$ **DEPTH SYMBOLS** Fill SW-SM Well graded SAND with silt. Reddish brown (5YR 4/3); 80-90% sand, 10-20% silt, trace gravel. Low placticity, dry. 3-5 feet; weakly cemented. 7.5 10 25 44 50/5 Collect sample SA100-10B, PID values: 10.6 eV=0.3 ppmV, 11.7 eV=0.0 ppmV. 12.5

The descriptions contained within this exploration log apply only at the specific exploration location and at the time the exploration was made. It is not intended to be representative of subsurface conditions at other locations or times.

GEOTECHNICAL & ENVIRONMENTAL SERVICES, INC.

Figure No.

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**EXPLORATION LOCATION: TRONOX AREA 1** EXPLORATION SIZE (dia.): 3" CORE BARREL

**ELEVATION: EXISTING GROUND SURFACE** 

INITIAL DEPTH TO WATER: NOT ENCOUNTERED FINAL DEPTH TO WATER: NOT ENCOUNTERED

PROJECT NO.: 20092518V1

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

**EQUIPMENT:** SDC550-24 SONIC CORE RIG

LOGGED BY: SEARS/DAVIS

DATE MEASURED: NA

DATE MEASURED: NA

I BAYE DEL	IN TO WATER:	NOIEN	COUNTERED DATE MEASURED:	<u>NA</u>	,				
ELEVATION/ DEPTH	SOIL & SAMPLE SYMBOLS	USCS	DESCRIPTION	Id		MOISTURE CONTENT (%)	DRY DENSITY (pcf)	% SWELL	WELL CONSTRUCTION
- 17.5 - - - - - 20 - -			18-20 feet; gravel 3-8%, subangular to subrounded, <2 inches diameter, volcanic. Weakly cemented.  21-22 feet; weakly cemented, caliche lenses/ nodules <2 inches diameter.	, dented					
- - 22.5 - - -		ML	Muddy Creek Formation. SILT with sand, reddish brown (2.5YR 5/3) 80-90% silt, 10-20% fine grained sand, trace clay, trace gypsum. Gypsum disseminated throughout as fine grained crystal aggregates.	THE PROPERTY OF THE PROPERTY O					
- 25 - - - - - 27.5					THE SAME			T-Accordance and the second se	
-			28 feet; moist.			T THE STATE OF THE			
— 30 -	6 12 17		Collect sample SA100-30B. Very stiff, moist. PID readings: 10.6 eV=0.1 ppmV, 11.7 eV=0.0 ppmV.	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		- TOTAL - TOTA			
- 32.5			END OF BORING AT 31.5 FEET						

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