EXPLORATION LOG RSAI3 **PROJECT:** TRONOX PHASE B PROJECT NO.: 20092518V1 **EXPLORATION LOCATION: TRONOX AREA 1 EXPLORATION DATE: 6/25/2009** 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 DRY DENSITY (pcf) SWELL **ELEVATION/** SOIL & SAMPLE **USCS** DESCRIPTION 回 **DEPTH** SYMBOLS FILL Silty sand with gravel, black material possibly SM Reddish brown, (5YR 4/4) silty SAND, 80-90% fine to coarse grained sand, 10-20% silt, trace 2.5 subrounded gravel. Low plasticity, dry. weekly cemented 6-6.5 feet, calcite cement. Dry. 7.5 7.5 - 8 feet, caliche nodules/lenses, white to light gray, less than 2 inches diameter.

Collect sample RSAI3-10B; very dense, dry. PID Readings: 11.7 eV 0.0 ppmV, 10.6 eV 0.9 ppmV

SW-SM Reddis

48 43

10

12.5

15

Reddish brown, (5YR 4/3) well graded SAND with silt, 85-90% fine to coarse grained sand, 10-15% silt, trace gravel, low plasticity, dry. Weak - moderate cementation 13-14 feet, calcite cement.

Weak - moderate cementation 16-16.5 feet.

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.

EXPLORATION LOG RSAI3

PROJECT: TRONOX PHASE B

PROJECT NO.: 20092518V1

EXPLORATION LOCATION: TRONOX AREA 1

EXPLORATION DATE: 6/25/2009

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 FINAL DEPTH TO WATER: NOT ENCOUNTERED

DATE MEASURED: NA

DATE MEASURED: NA

			DATE MEASURED:	11/7					
ELEVATION/ DEPTH	SOIL & SAMPLE SYMBOLS	USCS	DESCRIPTION	Ы		MOISTURE CONTENT (%)	DRY DENSITY (pdf)	% SWELL	WELL
17.5 20	33 30 43		Collect sample RSAI3-20B, very dense, dry. PID readings: 11.7 eV 26.7 ppmV, 10. 6 eV 3.4 ppmV.				To realize		
22.5 - - - - - 25 -		SM	Dark reddish brown, (5YR 4/2) silty SAND, 70-90% fine sand, 10-30% silt, trace gravel, low plasticity, dry.	THE PARTY OF THE P	Andrews .				
- - - 27.5	-	SW	Dark reddish gray, (5YR 4/2) well graded SAND, with gravel, 80-90% medium to coarse grained sand, 10-20% fine-grained gravel, subrounded t subangular. Slightly moist.						
- - 30 - - -	5	CL	Brown (7.5YR 5/4) CLAY, moist, high plasticity. Collect sample RSAI3-32B, trace sand, very		, mind datas.				
— 32.5 -	5 9 10		stiff, moist. PID readings 11.7 eV 0.0 ppmV, 10.6 eV 2.0 ppmV.						
Ļ			END OF BORING AT 33.5 FEET						

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Figure No.