EXPLORATION LOG SA141-A3

PROJECT:TRONOX PHASE BPROJECT NO.:20092518V1EXPLORATION LOCATION:TRONOX AREA 3EXPLORATION DATE:10-15-2009

EXPLORATION SIZE (dia.): 3" CORE BARREL **EQUIPMENT:** SDC550-24 SONIC CORE BARREL

ELEVATION: EXISTING GROUND SURFACE **LOGGED BY:** SEARS/GAREY

INITIAL DEPTH TO WATER: NOT ENCOUNTERED DATE MEASURED: N/A

FINAL DEPTH TO WATER: NOT ENCOUNTERED DATE MEASURED: N/A

FINAL DEPTH TO WATER:		NOT ENCOUNTERED DATE MEASURED:			N/A						
ELEVATION/ DEPTH	SOIL & SAMPLE SYMBOLS	USCS	DESCRIPTION	Б	1	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	Pocket Penetrometer (tsf)	WELL CONSTRUCTION		
- 0 		FILL	FILL: Manganese tailings, black (10R 2.5/1), 100% fine manganese sand, trace large chunks with white staining, loose, dry								
- - - - 12.5 - -		FILL	dark grey (10YR 3/1), abundant brick debris								
- 15 - - -	15 13 13	SP	Collect SA141-14B, SA141009-14B, PID readings: 10.6 eV = 0.1 ppmV, 11.7 eV = 0.3 ppmV SAND, reddish brown (5YR 4/4), 95% fine sand, 5% fine to medium volcanic gravel and caliche fragments, medium loose, dry, no plasticity, strong HCI reaction								

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 SA141-A3

PROJECT: TRONOX PHASE B PROJECT NO.: 20092518V1

EXPLORATION LOCATION: TRONOX AREA 3 **EXPLORATION DATE:** 10-15-2009

EXPLORATION SIZE (dia.): 3" CORE BARREL EQUIPMENT: SDC550-24 SONIC CORE BARREL

ELEVATION: EXISTING GROUND SURFACE **LOGGED BY**: SEARS/GAREY

INITIAL DEPTH TO WATER: NOT ENCOUNTERED DATE MEASURED: N/A

FINAL DEPTH TO WATER: NOT ENCOUNTERED DATE MEASURED: N/A

FINAL DEPTH TO WATER:		NOT ENCOUNTERED DATE MEASURED:			<u>N/A</u>						
ELEVATION/ DEPTH	SOIL & SAMPLE SYMBOLS	USCS	DESCRIPTION	⋴	11	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	Pocket Penetrometer (tsf)	WELL CONSTRUCTION		
— 17.5 - -		SP	10% gravel								
- - - 20 -		SP	trace gravel								
- - - 22.5 -		SW	SAND with gravel, reddish brown (5YR 4/4), 90% fine to coarse sub-angular to sub-rounded sand, 10% fine to medium volcanic gravel and caliche fragments, medium loose, damp, no plasticity, thin interbedded caliche, strong HCI reaction								
- 25 - -	10 23 23	SW	Collect SA141-24B, PID readings: 10.6 eV = 0.2 ppmV, 11.7 eV = 0.2 ppmV								
- 27.5 - -											
- 30 - - -	19 26 50	sw	SAND with gravel, reddish brown (5YR 4/4), 90% fine to coarse sand, 10% fine to medium gravel, medium loose, no plasticity, trace cementation Collect SA141-30B, PID readings: 10.6 eV = 0.2 ppmV, 11.7 eV = 0.1 ppmV END OF BORING AT 31.5 FEET								
- - 32.5 - - -											

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