EXPLORATION LOG RSA07-A3

EXPLORATION SIZE (dia.): 6.25" CORE BARREL EQUIPMENT:					20092518V1 DATE: 10-12-2009 SDC550-24 SONIC CORE RIG SEARS/GAREY						
INITIAL DEPTH TO WATER: NOT ENCOUNTERED D				DATE MEASURED: DATE MEASURED:	N/A						
ELEVATION/ DEPTH	ISCS		DESCRIPTION		Ē	LL	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	Pocket Penetrometer (tsf)	WELL CONSTRUCTION	
- 0 		FILL	FILL: Manganese tailing SW, dark reddish grey (2 to coarse sand, 10% fine to sub-rounded gravel, 1 loose, dry, low plasticity reaction	2.5YR 4/1), 90% fine e to medium angular oose to medium							
- 10 - - - -	7 10 15	SW	Collect RSAO7-9B, PID 3.3 ppmV, 11.7 eV = 0.0 SAND, reddish brown (5 coarse sand, 5% fine to medium loose, dry, no p) ppmV YR 5/4), 95% fine to medium gravel,							
- 12.5 - - - - - 15 - - -		SW	SAND, reddish brown (5 coarse sub-angular to su fine to medium volcanic plasticity, strong HCI rea	ıb-rounded sand, 5% gravel, dense, dry, no							

he 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 RSA07-A3

PROJECT:	PROJECT NO.: 20									
EXPLORATION LOCATION:TRONOX AREA 3EXPLORATION SIZE (dia.):6.25" CORE BARREL				EXPLORATION DATE: 10-12-2009						
	ION SIZE (dia.): N: EXISTING GRO	EQUIPMENT: SDC550-24 SONIC CORE RIG LOGGED BY: SEARS/GAREY								
ELEVATIO	EXISTING GRU	UND SU			183/	JAR	= ¥			
	PTH TO WATER:			DATE MEASURED:						
FINAL DEP	TH TO WATER:	NOT ENCOUNTERED DA		DATE MEASURED:	N/.	4	1			
ELEVATION/ SOIL & SAMPLE USCS DES		DESCRIP	TION	Ē	Τ	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	Pocket Penetrometer (tsf)	WELL CONSTRUCTION	
- 17.5 - -										
- 20 -	32 35 43	SW	Collect RSAO7-19B, PIE 1.4 ppmV, 11.7 eV = 0.0							
- - - 22.5 - -	-	SW	gravel content to 5%-1	0%						
- - - 25 -										
- - - 27.5 -		SW	26'-29' below ground s volcanic gravel	urface (BGS) coarse						
- - 30 -	24 50/5	SW	Collect RSAO7-29B, PIE 1.2 ppmV, 11.7 eV = 0.0							
- - - 32.5 -		SW	color to dark reddish b	rown (5YR 3/4)						
τ	he descriptions contained v It is		xploration log apply only at the speci ed to be representative of subsurfac ECHNICAL & ENVIRONM			ne the energy of the	exploration Fi	n was mac gure N e	le. D.	

EXPLORATION LOG RSA07-A3

PROJECT: TRONOX PHASE B EXPLORATION LOCATION: TRONOX AREA 3				PROJECT NO.: 20092518V1 EXPLORATION DATE: 10-12-2009							
EXPLORATION SIZE (dia.): 6.25" CORE BARREL				EQUIPMENT: SDC550-24 SONIC CORE RIG							
	N: EXISTING GRO			LOGGED BY: SEA							
INITIAL DE	PTH TO WATER:	NOT EN	ICOUNTERED	DATE MEASURED:	N/A	Ą					
FINAL DEPTH TO WATER: NOT ENC			COUNTEREDDATE MEASURED:		<u>N/A</u>						
ELEVATION/ SOIL & SAMPLE DEPTH SYMBOLS		USCS	DESCRIPTION		Ы	LL	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	Pocket Penetrometer (tsf)	WELL CONSTRUCTION	
- 35 - -											
- 37.5 - - -		SW	dark medium to coarse i cemented with gypsum	rounded sand							
- 40 - -											
- - 42.5 - -		SP	SAND, strong brown (7.5) 97% very fine to fine sand damp, low to medium plas reaction	, medium loose,							
45 - - -		SP SAND, strong brown (7.5YR 5/8), 97% very fine to fine sub-angular to rounded sand, trace calcite concre gypsum crystals, loose to very der medium plasticity, no HCI reaction									
- 47.5 -	5 5 9	SP	Collect RSAO7-47B, PID 1.4 ppmV, 11.7 eV = 0.0 p	readings: 10.6 eV = opmV							
-	<u> 1999</u>		END OF BORING AT	48.5 FEET							
F											
- 50											
F											
Γ	he descriptions contained It	within this e	xploration log apply only at the specific ed to be representative of subsurface	exploration location and at t conditions at other locations	he tin or tin	ne the e		n was mac			

Figure No.