PROJECT: TRONOX PHASE B EXPLORATION LOCATION: TRONOX AREA 3 EXPLORATION SIZE (dia.): 3" CORE BARREL ELEVATION: EXISTING GROUND SURFACE INITIAL DEPTH TO WATER: NOT ENCOUNTERED FINAL DEPTH TO WATER: NOT ENCOUNTERED				PROJECT NO.: 200 EXPLORATION DAT EQUIPMENT: SDC: LOGGED BY: THO DATE MEASURED: DATE MEASURED:	ORE R	IG				
elevation/ Depth	SOIL & SAMPLE SYMBOLS	USCS	DESCRIF	TION	⊒	ΓΓ	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	Pocket Penetrometer (tsf)	CONSTRUCTION
0 - - - - - - - - - - - - - - - - - - -		FILL	FILL: Manganese tailing 1), 100% very fine sand, damp, low plasticity, no chemical odor dark reddish brown (5° mixed with manganese t	medium dense, HCI reaction, faint YR 3/4) fine sand						
- - - - - - - - - - - - - - - - - - -		FILL	FILL: Manganese tailing:							

GEOTECHNICAL & ENVIRONMENTAL SERVICES, INC.

Figure No.

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PROJECT:	TRONOX PHASE	В		PROJECT NO.: 200	925	18V1					
EXPLORA [®]	TION LOCATION:	EXPLORATION DATE: 10-16-2009									
EXPLORATION SIZE (dia.): <u>3" CORE BARREL</u>				EQUIPMENT: SDC550-24 SONIC CORE RIG							
ELEVATIO	N: EXISTING GRO	OUND SU	RFACE	LOGGED BY: THO	MPS	SON/	GAREY	/			
	PTH TO WATER:		ICOUNTERED	DATE MEASURED:	N/A						
FINAL DEF	PTH TO WATER:	NOT EN	COUNTERED	DATE MEASURED:	N//	4					
ELEVATION/ SOIL & SAMPLE USCS DESCRIPTION SYMBOLS			TION	Ы	LL	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	Pocket Penetrometer (tsf)	WELL CONSTRUCTION		
- 17.5 - - - - 20 - - - - - - - - - - - - - -		FILL SP SP	FILL: 1" thick dark ceme Collect SA142-20.5, PID 0.0 ppmV, 11.7 eV = 0.2 SAND reddish brown (5Y sand, 2% medium sub-ar sand, medium loose, da minor black staining	readings: 10.6 eV = ppmV (R 4/4), 98% fine ngular to sub-rounded							
- - 25 - - - - 27.5 -		SW	SAND with gravel, reddis 90% fine to coarse sand volcanic gravel, trace cal medium dense to dense strong HCI reaction	, 10% fine to medium iche fragments,							
- - - - - - - 32.5 - -	30 36 39	SW	gravel content to 5% Collect SA142-30.5B, PI 0.0 ppmV, 11.7 eV = 0.2								

PROJECT: TRONOX PHASE B EXPLORATION LOCATION: TRONOX AREA 3 EXPLORATION SIZE (dia.): 3" CORE BARREL ELEVATION: EXISTING GROUND SURFACE INITIAL DEPTH TO WATER: NOT ENCOUNTERED				PROJECT NO.: 200 EXPLORATION DAT EQUIPMENT: SDC3 LOGGED BY: THO DATE MEASURED:	FE: 10-16-2009 550-24 SONIC CORE RIG						
FINAL DEP	TH TO WATER:	NOT ENO	COUNTERED	DATE MEASURED:							
'LEVATION/ DEPTH	SOIL & SAMPLE SYMBOLS	USCS	DESCRIP	TION	Ē	LL	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	Pocket Penetrometer (tsf)	WELL CONSTRUCTION	
- 35 - - - - - 37.5		SW	gravel content to 10%								
- - - - 40 - -		SW	6" diameter volcanic co	obble present							
42.5 - - - -											
45 - - - - - 47.5 - -		SW	SAND with gravel, reddis 90% fine to coarse sub-a rounded sand, 10% fine angular to sub-rounded v damp, no plasticity, trac weak HCI reaction	angular to sub- to medium sub- volcanic gravel, dense,							
- - 50 -		SW	gravel is rounded, trac	e gypsum crystals							

It is not intended to be representative of subsurface conditions at other locations or times.

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Figure No.

	TRONOX PHASE			PROJECT NO.: 200							
EXPLORATION LOCATION: TRONOX AREA 3				EXPLORATION DATE: 10-16-2009							
EXPLORATION SIZE (dia.): <u>3" CORE BARREL</u>				EQUIPMENT: SDC550-24 SONIC CORE RIG							
ELEVATION	EXISTING GRO	UND SU	RFACE	LOGGED BY: THO	MPS	SON/	GARE	/			
INITIAL DEPTH TO WATER: NOT ENCOUNTERED FINAL DEPTH TO WATER: NOT ENCOUNTERED				DATE MEASURED: DATE MEASURED:	N/A N/A						
	-				1					Z	
ELEVATION/ DEPTH	SOIL & SAMPLE SYMBOLS	USCS	DESCRIF	PTION	E	Н	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	Pocket Penetrometer (tsf)	WELL CONSTRUCTION	
-	19 26 21	SW	Collect SA142-51B, PID 0.1 ppmV, 11.7 eV = 0.3								
- 52.5	<u></u>		END OF BORING	AT 52.5 FEET							
-											
-											
- 55											
-											
Ē											
- 57.5											
-											
-											
— 60 -											
-											
- 62.5											
L											
-											
- 65											
F											
F											
- 67.5											
т	he descriptions contained w It is		ploration log apply only at the specied to be representative of subsurface			ne the enes.	exploration	n was mad gure N o	e. D.		