## **EXPLORATION LOG** RSAI4

PROJECT:	TRONOX PHASE B	PROJECT NO.:	200
	THOROXITIMOL B	LKO3EC1 MO"	200

92518V1 **EXPLORATION LOCATION: TRONOX AREA 1 EXPLORATION DATE: 7/24/2009** EXPLORATION SIZE (dia.): 3" CORE BARREL

**EQUIPMENT:** SDC550-24 SONIC CORE RIG **ELEVATION:** EXISTING GROUND SURFACE LOGGED BY: SEARS/BRINKERHOFF

INITIAL DEPTH TO WATER: NOT ENCOUNTERED **DATE MEASURED: NA** FINAL DEPTH TO WATER: NOT ENCOUNTERED DATE MEASURED: NA

	-	,		11/1					
ELEVATION/ DEPTH	SOIL & SAMPLE SYMBOLS	uscs	DESCRIPTION	d		MOISTURE CONTENT (%)	DRY DENSITY (pcf)	% SWELL	WELL CONSTRUCTION
- 2.5 -	10 18 42	Fill	Yellowish brown (10YR 5/4) silty SAND. 65% sand (80% fs, 20% ms, trace cs), 25% silt, 10% gravel (70% fg, 30% mg, subangular-subrounded), dry, medium dense, strong reaction with HCI. Collect sample RSAI4-0.5B. PID readings: 10.6 eV=0.0 ppmV, 11.7 eV=0.0 ppmV.				7.00		
- 5 - - - 7.5 - -		SM	Yellowish brown (10YR 5/4), silty SAND. 65% sand (80% fs, 20% ms, trace cs), 25% silt, 10% gravel (70% fg, 30% mg, subangular), dry, strong reaction with HCl.					The state of the s	
- 10 - - -	29 42 50/5		Collect sample RSAI4-10B, RSAI4-10BMS, RSAI4-10BMSD. PID readings: 10.6 eV=0.0 ppmV, 11.7 eV=0.0 ppmV.					ALL CONTRACTOR OF THE PARTY OF	
- 12.5 - - - 15		ML	Yellowish brown (10YR 5/4) SILT with sand. 70% silt, 25% sand (100% fs), 5% gravel (100% fg). Dry, stiff, strong reaction with HCI.		To represent the second				

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 RSAI4

PROJECT: TRONOX PHASE B	PROJECT NO.:	20092518\/1
	FIXOULUI NO	2009201011

EXPLORATION LOCATION: TRONOX AREA 1 EXPLORATION DATE: 7/24/2009

EXPLORATION SIZE (dia.): 3" CORE BARREL EQUIPMENT: SDC550-24 SONIC CORE RIG LOGGED BY: SEARS/BRINKERHOFF

INITIAL DEPTH TO WATER: NOT ENCOUNTERED DATE MEASURED: NA NATE MEASURED: NATE MEA

DESCRIPTION  SOIL & SAMPLE SYMBOLS  USCS  DESCRIPTION  THE MAN SOIL & SAMPLE SYMBOLS  SP-SM  Yellowish brown (10YR 5/4) silty SAND. 65% sand (80% fs, 20% ms), 35% silt, trace gravel, moist, dense, strong reaction with HCl.  Collect sample RSAI4-20B. PID readings: 10.6 eV=0.0 ppmV, 11.7 eV=0.0 ppmV  SC  Yellowish brown (10YR 5/4), clayey SAND. 65% sind (80% fine grained sand, 35% lean clay, trace gravel, moist, no reaction with HCl, laminated.			101 211	DATE MEASURED:	INA	 	<del></del>		
SP-SM Yellowish brown (10YR 5/4) silty SAND. 65% sand (80% fs, 20% ms), 35% silt, trace gravel, moist, dense, strong reaction with HCl.  Collect sample RSAi4-20B. PID readings: 10.6 eV=0.0 ppmV, 11.7 eV=0.0 ppmV trace clay, high plasticity.  SC Yellowish brown (10YR 5/4), clayey SAND. 65% fine grained sand, 35% lean clay, trace gravel, moist, no reaction with HCl, laminated.	ELEVATION/ DEPTH		USCS	DESCRIPTION	Id	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	% SWELL	WELL CONSTRUCTION
sand (80% fs, 20% ms), 35% silt, trace gravel, moist, dense, strong reaction with HCl.  Collect sample RSAI4-20B. PID readings: 10.6 eV=0.0 ppmV, 11.7 eV=0.0 ppmV trace clay, high plasticity.  SC Yellowish brown (10YR 5/4), clayey SAND. 65% fine grained sand, 35% lean clay, trace gravel, moist, no reaction with HCl, laminated.  Collect sample RSAI4-32B. PID readings: 10.6	17.5								Www.min.
Collect sample RSAI4-20B. PID readings: 10.6 eV=0.0 ppmV, 11.7 eV=0.0 ppmV trace clay, high plasticity.  SC Yellowish brown (10YR 5/4), clayey SAND. 65% fine grained sand, 35% lean clay, trace gravel, moist, no reaction with HCl, laminated.	-		SP-SM	sand (80% fs, 20% ms), 35% silt, trace gravel,			1111/2/111		
trace clay, high plasticity.  SC Yellowish brown (10YR 5/4), clayey SAND. 65% fine grained sand, 35% lean clay, trace gravel, moist, no reaction with HCl, laminated.  Collect sample RSAI4-32B. PID readings: 10.6	- 20	45 37 21		Collect sample RSAI4-20B. PID readings: 10.6 eV=0.0 ppmV, 11.7 eV=0.0 ppmV			and the state of t	***************************************	
trace clay, high plasticity.  SC Yellowish brown (10YR 5/4), clayey SAND. 65% fine grained sand, 35% lean clay, trace gravel, moist, no reaction with HCl, laminated.  Collect sample RSAI4-32B. PID readings: 10.6	- 22.5 - -							TANKA LIIII.	
SC Yellowish brown (10YR 5/4), clayey SAND. 65% fine grained sand, 35% lean clay, trace gravel, moist, no reaction with HCl, laminated.  Collect sample RSAI4-32B. PID readings: 10.6	25  - -			trace clay, high plasticity.	more distant	 THE STATE OF THE S	om delate.	***************************************	
65% fine grained sand, 35% lean clay, trace gravel, moist, no reaction with HCl, laminated.  Collect sample RSAI4-32B. PID readings: 10.6	- 27.5 -		SC	Yellowish brown (10YR 5/4), clayey SAND.		THE STATE OF THE S			
The product sample NoAl4-32B. Fib feadings: 10.0	- - 30			65% fine grained sand, 35% lean clay, trace	7 MANUEL 17 MANUEL 18 MANU	THE PARTY OF THE P	- Proposition -		
The product sample NoAl4-32B. Fib feadings: 10.0	- - -	17		Calle at a second DOALA COD TITE					
	- 32.5	18		Collect sample RSAI4-32B. PID readings: 10.6 eV=0.0 ppm, 11.7 eV=0.0 ppmV.		,	THE STATE OF THE S		
END OF BORING AT 33.5 FEET				END OF BORING AT 33.5 FEET					

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Figure No.