

# EXPLORATION LOG SA185-A2

**PROJECT:** TRONOX PHASE B

**PROJECT NO.:** 20092518V1

**EXPLORATION LOCATION:** TRONOX AREA 2

**EXPLORATION DATE:** 8/26/2009

**EXPLORATION SIZE (dia.):** 6" CORE BARREL

**EQUIPMENT:** SDC550-24 SONIC CORE RIG

**ELEVATION:** EXISTING GROUND SURFACE

**LOGGED BY:** SEARS/GAREY

**INITIAL DEPTH TO WATER:** NOT ENCOUNTERED

**DATE MEASURED:** \_\_\_\_\_

**FINAL DEPTH TO WATER:** NOT ENCOUNTERED

**DATE MEASURED:** \_\_\_\_\_

ELEVATION/ DEPTH	SOIL & SAMPLE SYMBOLS	USCS	DESCRIPTION	PI	LL	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	Pocket Penetrometer (tsf)	WELL CONSTRUCTION
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">2.5</div> <div style="margin-bottom: 10px;">5</div> <div style="margin-bottom: 10px;">7.5</div> <div style="margin-bottom: 10px;">10</div> <div style="margin-bottom: 10px;">12.5</div> <div style="margin-bottom: 10px;">15</div> <div style="margin-bottom: 10px;">17.5</div> </div>		SW	<p>ALLUVIUM: SAND with gravel, reddish brown (5YR 4/4), 90% fine to coarse grained sand, 10% fine to coarse gravel and cobbles, sub-angular to rounded, volcanic origin, loose, dry, no plasticity, strong HCl reaction, very little cementation</p> <p>...gravel decreases to approximately 5%, hard fragments of reworked caliche up to 1" diameter</p>						
		SW	<p>Collect sample SA185-10B, SA185-10BMS, SA185-10BMSD</p> <p>SAND with gravel, reddish brown (5YR 4/4), 90% fine to coarse grained sand, 10% fine to coarse gravel and cobbles, sub-angular to rounded, volcanic origin, loose, dry, no plasticity, strong HCl reaction, very little cementation, no odor</p> <p>...caliche nodules up to 3" diameter</p> <p>...gravel content increases to 10%</p>						

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			...from 19'-19.5' semi-hard caliche present, light brown (7.5YR 6/4), no plasticity, strong HCl reaction, moderately cemented						
		SW	Collect SA185-25B, PID readings: 10.6 eV = 0.1 ppmV, 11.7 eV = 0.0 ppmV. SAND with gravel, reddish brown (5YR 4/4), 90% fine to coarse grained sand, 10% fine to coarse gravel and cobbles, sub-angular to rounded, volcanic origin, loose, dry, no plasticity, strong HCl reaction, very little cementation						
		SW	...gypsum present, no HCl reaction						
		SP	SAND, reddish yellow (7.5YR 6/8), 100% very fine to fine sand, sub-angular to sub-rounded, no plasticity, no HCl reaction, strong to weak gypsum cementation						

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			...damp to moist, loose to very dense when cemented						
		SP	Collect SA185-41B, PID readings: 10.6 eV = 0.1 ppmV, 11.7 eV = 0.0 ppmV ...silt content increases to 10%, moderate plasticity, weak HCl reaction <b>END OF BORING AT 42.5 FEET</b>						

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