

# EXPLORATION LOG SA144-A2

**PROJECT:** TRONOX PHASE B

**PROJECT NO.:** 20092518V1

**EXPLORATION LOCATION:** TRONOX AREA 2

**EXPLORATION DATE:** 8-7-2009

**EXPLORATION SIZE (dia.):** 3" CORE BARREL

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

**ELEVATION:** EXISTING GROUND SURFACE

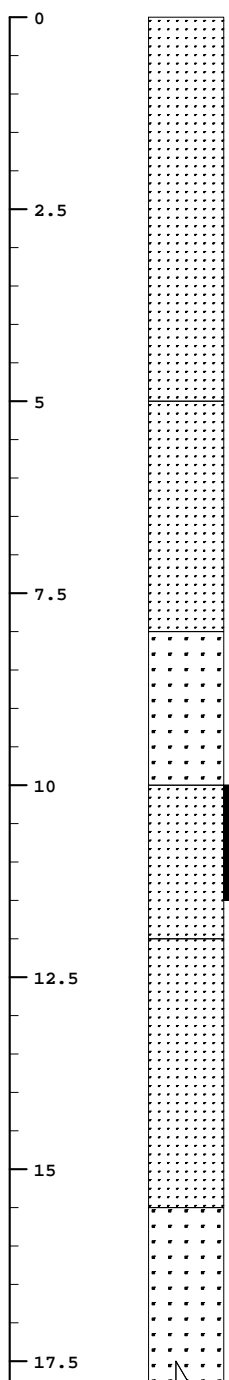
**LOGGED BY:** THOMPSON/GAREY

**INITIAL DEPTH TO WATER:** NOT ENCOUNTERED

**DATE MEASURED:** N/A

**FINAL DEPTH TO WATER:** NOT ENCOUNTERED

**DATE MEASURED:** N/A

| ELEVATION/<br>DEPTH | SOIL & SAMPLE<br>SYMBOLS   | USCS | DESCRIPTION  | PI | LL | MOISTURE<br>CONTENT (%) | DRY DENSITY<br>(pcf) | Pocket<br>Penetrometer<br>(tsf) | WELL<br>CONSTRUCTION |
|---------------------|--|------|--|----|----|-------------------------|----------------------|---------------------------------|----------------------|
| 0                   |  | SW   | SAND, dark brown (7.5YR 3/4), 100% fine to coarse sub-angular to sub-rounded sand, medium dense, dry, no plasticity, weak HCl reaction   |    |    |                         |                      |                                 |                      |
| 2.5                 |  | SW   | SAND, strong brown (7.5YR 5/6), 100% fine to medium sand, caliche layers present, caliche is pinkish white (7.5YR 8/2), dense, dry   |    |    |                         |                      |                                 |                      |
| 5                   |  | SP   | SAND, yellowish brown (10YR 4/4), 100% very fine to fine sub-angular to sub-rounded sand, dense, dry, low to moderate plasticity   |    |    |                         |                      |                                 |                      |
| 7.5                 |  | SW   | Collect SA144-10B, SA144009-10B, PID readings : 10.6 eV = 1.4 ppmV, 11.7 eV = 2.6 ppmV<br>SAND, dark brown (7.5YR 3/4), 100% fine to coarse sub-angular to sub-rounded sand, medium dense, dry, no plasticity, weak HCl reaction |    |    |                         |                      |                                 |                      |
| 10                  |  | SW   | SAND, brown (7.5YR 5/3), 95% very fine to coarse sub-angular to sub-rounded sand, 5% fine to medium gravel, calichified zones, dense, dry, no plasticity, strong HCl reaction  |    |    |                         |                      |                                 |                      |
| 12.5                |  | SP   | SAND, yellowish brown (10YR 4/4), 100% very fine to fine sub-angular to sub-rounded sand, dense, dry, low to moderate plasticity   |    |    |                         |                      |                                 |                      |
| 15                  |  |      |  |    |    |                         |                      |                                 |                      |
| 17.5                |  |      |  |    |    |                         |                      |                                 |                      |

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.

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|---------------------|--------------------------|------|---|----|----|-------------------------|----------------------|---------------------------------|----------------------|
|                     |                          | SW   | SAND, brown (10YR 4/3), 95% very fine to coarse sand, 5% sub-angular to sub-rounded fine to coarse volcanic gravel, dense, dry, no to low plasticity  |    |    |                         |                      |                                 |                      |
|                     |                          | SP   | Collect SA144-28B, PID readings: 10.6 eV = 0.4 ppmV, 11.7 eV = 0.0 ppmV<br>SAND, yellowish brown (10YR 5/8), 100% very fine to fine sub-angular to sub-rounded sand, medium loose, damp, no plasticity<br><b>END OF BORING AT 29.5 FEET</b> |    |    |                         |                      |                                 |                      |

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