

# EXPLORATION LOG SA186-A2

**PROJECT:** TRONOX PHASE B

**PROJECT NO.:** 20092518V1

**EXPLORATION LOCATION:** TRONOX AREA 2

**EXPLORATION DATE:** 9-9-2009

**EXPLORATION SIZE (dia.):** 6.25" CORE BARREL

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

**ELEVATION:** EXISTING GROUND SURFACE

**LOGGED BY:** SEARS/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 |
|---------------------|--------------------------|------|---|----|----|-------------------------|----------------------|---------------------------------|----------------------|
|                     |                          | SW   | SAND, yellowish red (5YR 5/6), 90% fine to coarse sand, 10% fine to coarse sub- angular to sub-rounded volcanic gravel, trace caliche fragments, loose, dry, no plasticity, strong HCl reaction |    |    |                         |                      |                                 |                      |
|                     |                          | SW   | ...gravel content to trace amounts  |    |    |                         |                      |                                 |                      |
|                     |                          | SW   | Collect SA186-10B, PID readings: 10.6 eV = 0.1 ppmV, 11.7 eV = 2.4 ppmV   |    |    |                         |                      |                                 |                      |
|                     |                          | SW   | SAND, yellowish red (5YR 5/6), 100% fine to coarse sand, trace fine gravel, dense, dry  |    |    |                         |                      |                                 |                      |

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|---------------------|--------------------------|------|---|----|----|-------------------------|----------------------|---------------------------------|----------------------|
|                     |                          | SW   | ...color to reddish brown (5YR 4/4)   |    |    |                         |                      |                                 |                      |
|                     |                          | SW   | ...trace coarse gravel and cobbles, weakly calichified zones with gypsum  |    |    |                         |                      |                                 |                      |
|                     |                          | SW   | ...no gravel present, color to dark reddish brown (5YR 3/4)   |    |    |                         |                      |                                 |                      |
|                     |                          | SW   | Collect SA186-25B, PID readings: 10.6 eV = 0.3 ppmV, 11.7 eV = 4.2 ppmV   |    |    |                         |                      |                                 |                      |
|                     |                          | SP   | SAND, yellowish red (5YR 5/8), 5% silt, 95% very fine to fine sub-angular to sub-rounded sand, dense, dry, low plasticity, calichified zones present with gypsum, weak HCl reaction |    |    |                         |                      |                                 |                      |

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|---------------------|--------------------------|------|---|----|----|-------------------------|----------------------|---------------------------------|----------------------|
|                     | SP                       |      | Collect SA186-37B, PID readings: 10.6 eV = 0.4 ppmV, 11.7 eV = 2.3 ppmV |    |    |                         |                      |                                 |                      |
|                     |                          |      | END OF BORING AT 38.5 FEET  |    |    |                         |                      |                                 |                      |

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