

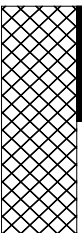
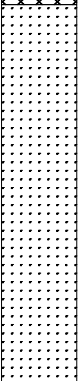
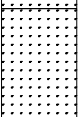
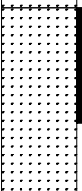
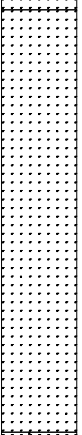
# EXPLORATION LOG RSAP5-A4

PROJECT: TRONOX PHASE B  
 EXPLORATION LOCATION: TRONOX AREA 4  
 EXPLORATION SIZE (dia.): 3" CORE BARREL  
 ELEVATION: EXISTING GROUND SURFACE

PROJECT NO.: 20092518V1  
 EXPLORATION DATE: 10-7-2009  
 EQUIPMENT: SDC550-24 SONIC CORE RIG  
 LOGGED BY: SEARS/GAREY

INITIAL DEPTH TO WATER: NOT ENCOUNTERED  
 FINAL DEPTH TO WATER: NOT ENCOUNTERED

DATE MEASURED: N/A  
 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 |
|---------------------|---|------|---|----|----|-------------------------|----------------------|---------------------------------|----------------------|
| 2.5                 |    | FILL | Collect RSAP5-0.5B, PID readings: 10.6 eV = 0.0 ppmV<br>FILL: SAND with gravel, SW, reddish brown (2.5YR 5/4), 90% fine to coarse sub-angular to sub-rounded sand, 10% fine to medium sub-angular to sub-rounded volcanic gravel, medium loose, dry, no plasticity, strong HCl reaction |    |    |                         |                      |                                 |                      |
| 5                   |   | SW   | SAND, reddish brown (5YR 4/4), 95% fine to coarse sand, 5% fine to medium gravel, medium loose, dry to damp, no plasticity, strong HCl reaction   |    |    |                         |                      |                                 |                      |
| 7.5                 |  | SW   | ...calcite cementation  |    |    |                         |                      |                                 |                      |
| 10                  |  | SW   | Collect RSAP5-10B, RSAP5009-10B, PID readings: 10.6 eV = 0.1 ppmV   |    |    |                         |                      |                                 |                      |
| 12.5                |  | SW   | SAND, reddish brown (5YR 4/4), 95% fine to coarse sand, 5% fine to medium gravel, medium loose to dense, dry to damp, no plasticity, zones of moderate calcite cementation  |    |    |                         |                      |                                 |                      |
| 15                  |   |      |   |    |    |                         |                      |                                 |                      |
| 17.5                |   |      |   |    |    |                         |                      |                                 |                      |

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# EXPLORATION LOG RSAP5-A4

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 EXPLORATION SIZE (dia.): 3" CORE BARREL  
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 EXPLORATION DATE: 10-7-2009  
 EQUIPMENT: SDC550-24 SONIC CORE RIG  
 LOGGED BY: SEARS/GAREY

INITIAL DEPTH TO WATER: NOT ENCOUNTERED  
 FINAL DEPTH TO WATER: NOT ENCOUNTERED

DATE MEASURED: N/A  
 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   | ...gravel content to trace amounts  |    |    |                         |                      |                                 |                      |
|                     |                          | SW   | Collect RSAP5-25B, PID readings: 10.6 eV = 0.0 ppmV   |    |    |                         |                      |                                 |                      |
|                     |                          | SP   | SAND, light reddish brown (5YR 6/4), trace silt, 100% very fine to fine sand, trace nodules of well cemented sand, dense, dry, very low plasticity, moderate HCl reaction |    |    |                         |                      |                                 |                      |

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**EXPLORATION LOCATION:** TRONOX AREA 4  
**EXPLORATION SIZE (dia.):** 3" CORE BARREL  
**ELEVATION:** EXISTING GROUND SURFACE

**PROJECT NO.:** 20092518V1  
**EXPLORATION DATE:** 10-7-2009  
**EQUIPMENT:** SDC550-24 SONIC CORE RIG  
**LOGGED BY:** SEARS/GAREY

**INITIAL DEPTH TO WATER:** NOT ENCOUNTERED  
**FINAL DEPTH TO WATER:** NOT ENCOUNTERED

**DATE MEASURED:** N/A  
**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 |
|---------------------|---|------|---|----|----|-------------------------|----------------------|---------------------------------|----------------------|
|                     |   |      |   |    |    |                         |                      |                                 |                      |
| 37.5                |   |      |   |    |    |                         |                      |                                 |                      |
| 40                  | <div style="border: 1px solid black; padding: 2px; display: inline-block;">                     19<br/>32<br/>17                 </div> | SW   | Collect RSAP5-39B, PID readings: 10.6 eV = 0.0 ppmV   |    |    |                         |                      |                                 |                      |
| 42.5                |   | SP   | ...fine to coarse sub-angular to sub-rounded sand, loose<br>SAND, yellowish red (5YR 5/8), trace silt, 100% very fine to fine sand, damp<br><b>END OF BORING AT 40.5 FEET</b> |    |    |                         |                      |                                 |                      |
| 45                  |   |      |   |    |    |                         |                      |                                 |                      |
| 47.5                |   |      |   |    |    |                         |                      |                                 |                      |
| 50                  |   |      |   |    |    |                         |                      |                                 |                      |
| 52.5                |   |      |   |    |    |                         |                      |                                 |                      |

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