

EXPLORATION LOG SA82

PROJECT: TRONOX PHASE B

PROJECT NO.: 20092518V1

EXPLORATION LOCATION: TRONOX AREA 1

EXPLORATION DATE: 7/1/2009

EXPLORATION SIZE (dia.): 3" CORE BARREL

EQUIPMENT: SDC550-24 SONIC CORE RIG

ELEVATION: EXISTING GROUND SURFACE

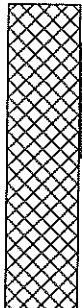

LOGGED BY: THOMPSON/DAVIS

INITIAL DEPTH TO WATER: NOT ENCOUNTERED

DATE MEASURED: NA

FINAL DEPTH TO WATER: NOT ENCOUNTERED

DATE MEASURED: NA

| ELEVATION/ DEPTH | SOIL & SAMPLE SYMBOLS | USCS | DESCRIPTION | PI | LL | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | % SWELL | WELL CONSTRUCTION |
|------------------------------|--|-------|--|----|----|-------------------------|----------------------|---------|----------------------|
| 0 2.5 |  | Fill | Silty sand with gravel. Collect samples SA82-0.5B, SA82-0.5MSB, SA82-0.5MSDB (sample disturbed from air knifing site). Dry. PID readings: 11.7 eV 0.9 ppmV, 10.6 eV 1.5 ppmV. | | | | | | |
| 5 7.5 10 12.5 15 |  | SW-SM | Reddish brown (5YR 4/4) well graded SAND with silt, 80-90% fine to coarse grained sand, 10-20% silt, trace subangular gravel, less than 2 inches diameter, volcanic. Collect sample SA82-10B. Very dense, dry. PID readings: 11.7 eV 0.0, 10.6 eV 0.6 ppmV. 11-12 feet, weakly cemented, calcite cement. Dark reddish brown (5YR 3/4). 15-16 feet, weak to moderate cementation, calcite cement. | | | | | | |

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| | | | 17-20 feet, thin, light gray, cemented beds/ lenses less than 3 inches thick, calcite cement. | | | | | | |
| | | SM | Reddish brown (2.5YR 5/4) silty SAND. 70-80% fine grained sand, 20-30% silt, low plasticity, dry. 25-26 feet, weak to moderate cementation. | | | | | | |
| | | ML | Muddy Creek Formation. Reddish brown (2.5YR 5/4) sandy SILT. 70-90% silt, 10-30% fine grained sand, trace clay, low plasticity, slightly moist. Collect sample SA82-28B, very stiff, moist. PID readings: 11.7 eV 0.0 ppmV, 10.6 eV 0.2 ppmV. | | | | | | |
| | | | END OF BORING AT 29.5 FEET | | | | | | |

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