N00129.AR.000312
NSB NEW LONDON
5090.3a

Halliburton NUS
CORPORATION

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C-49-02-5-220

February 27, 1995

Halliburton NUS Project Number 9594

Mr. Mark Evans, Remedial Project Manager
U.S. Department of the Navy
Naval Facilities Enginnering Command
Northern Division
10 Industrial Highway
Code 1823, Mail Stop 82
Lester, Pennsylvania 19113-2090

Reference: CLEAN Contact No. N62472-90-D-1298
Contact Task Order No. 129

Subject: Naval Subamarine Base, New London
Area A Landfill/Wetland Interface Sampling Results

Dear Mr. Evans,

Attached to this letter is a draft letter report which provides a summary of the analytical results of the subject sampling event. The summary includes a short description of the sampling activity, a summary of the analytical results, and a tabular presentation of the data. Although the scope of this report is limited to data presentation only, a generic data evaluation with particular emphasis on PCBs, for which the landfill is to be capped, is presented. Included as attachments to this letter report are the validated analytical data, associated sample logsheets, and the chain of custody forms for the sampling.

This document is being forwarded to you in draft form as information for your March 3, 1995 meeting. Please review and comment on the contents of this report. Your comments will be addressed for submittal of this document in final form. Please contact myself at (412) 921-8418 or Norman Straub at (412) 921-8921 if you have any concerns or questions regarding the referenced materials.

Very truly yours,

Matthew G. Cochran

Matthew G. Cochran, P.G.
Project Manager

MGC/njs

Attachments (A.1 through A.5)

cc: Jean-Luc Glorieux, HNUS
Norman Straub, HNUS
Barry Giroux, Atlantic

# ATTACHMENT A.1
# LANDFILL/WETLAND INTERFACE ANALYTICAL DATA SUMMARY

## A.1 LANDFILL/WETLAND INTERFACE ANALYTICAL DATA SUMMARY

### A.1.1 INTRODUCTION

This letter report presents a summary of analytical data which were generated by the Area A Landfill/Wetland Interface sampling. The sampling was performed by Hallibutron NUS personnel during the period November 28-30, 1994 in accordance with the Letter Work Plan for Area A Landfill/Wetland Interface (HNUS, November 1994).

Specific to the Wetland/Landfill interface, a total of twenty locations were sampled (two locations at each of ten transects). One sample was collected in the landfill and one sample was collected in the wetland at each transect. Locations of the transects are presented in the figure contained in Attachment A.2. All samples were collected using a decontaminated hand auger from a depth interval of 0 to 12 inches. Although attempts were made to collect discreet samples without considerable amounts of water within the sample matrix, one sample (T7-B) contained approximately 85% water (by weight) which resulted in rejection of all associated nondetected results for this sample.

All sample analyses were performed with reference to the USEPA Contract Laboratory Program (CLP) analytical Statement of Work OLM01.8 (for Target Compound List (TCL) organics) and CLP ICP, cold vapor, and colorimetric techniques (for Target Analyte List inorganics). All samples were also analyzed for total organic carbon (via the Walkley-Black method) and grain size distribution (ASTM Method D422).

All organic and inorganic analytical data were subjected to data validation using USEPA Region I-specific protocols and qualification actions. Physical data (TOC and grain size) were not validated. Analytical results for all Landfill/Wetland Interface samples are presented in Attachment A.3. A summary of frequency and range of detections and locations of maximum detected conentrations for all positively detected organic and inorganic chemicals is presented in Table A.1-1. These data are segregated according to the side (landfill or wetland) of the transect which permits comparison of discharge potential in the landfill to impact in the wetland.

The sample chain of custody forms are contained in Attachment A.4 and sample logsheets are contained in Attachment A.5.

## A.1.2 DATA SUMMARY

Discussion of the detected chemicals in the landfill/wetland includes the general classes of detected chemicals, ranges of detected chemicals, and the locations of maximum detections for the landfill and wetland sides of the transects. Discussion of general chemical classes is appropriate for most chemicals because the variety of material in the former landfill does not permit accurate identification of single source points for all chemicals. Information about the frequency of detection and range of detections can be used qualitatively to identify background chemicals and discharges of potentially hazardous chemicals. The location of maximum detections also qualitatively identifies locations of discharge from the landfill.

Several volatile organics were detected in the landfill/wetland interface samples. Carbon disulfide, 2-butanone, toluene, chlorobenzene, and xylenes were detected in the wetland samples. Only 2-butanone, toluene, and chlorobenzene were detected in the landfill samples. All of the detected volatiles, except carbon disulfide, are considered anthropogenic, with origins in the landfill.

A wide variety of semivolatile organic compounds were detected in the interface samples, including dichlorobenzene, methyl-substituted phenolics, polynuclear aromatic hydrocarbons (PAHs), and phthalate esters. Only the PAHs and phthalate esters are noted to be consistently detected in both landfill-side and wetland-side transect samples. For the chemical classes where detections are noted in both landfill and wetland samples, wetland concentrations are generally lower than respective landfill sample results in the same transect. This indicates the landfill to be sourcing some discharge to the wetland. Although the detected chemical species are notoriously anthropogenic, the primary source may not be the landfill, as the parking areas on the former landfill are reported to be paved (a significant source of PAHs and possibly phthalate esters).

As with the semivolatile organic fraction, a wide variety of pesticides were detected in the interface samples, with all individually detected pesticides found in at least one landfill sample and just over half of these species detected in the wetland. Generally, maximum concentrations of detected pesticides detected in the wetland are comparable in magnitude to those detected in the landfill samples, although the locations of the maximum detections do not always correspond to the same transect.

Only one PCB mixture (Aroclor-1260) was detected in the landfill/wetland interface sample analysis. The maximum concentration detected in the landfill (1,500 $\mu$g/Kg at location T6-A) does not correspond to the maximum detected on the wetland-side (550 $\mu$g/Kg at location T7-B). However, the proximity of these two sampling locations to each other (approximately 50 feet apart) may provide an indication that maximum

discharge from the landfill is occurring in this general vicinity of the interface. Positive results for Aroclor-1260 are also noted at sampling locations T1-A, T1-B, T6-B, and T7-A, suggesting PCB discharges at or near transects T1, T6, and T7.

For inorganic analytes, the high frequency of detection and narrow distribution of reported concentrations (typically one order of magnitude between minimum and maximum concentrations of reported positive results) is indicative of detections of background levels. Notable exceptions in the landfill-side samples include antimony (detected in 3 of 10 samples), boron (detected in 2 of 10 samples), mercury (detected in 4 of 6 samples), selenium (detected in 3 of 10 samples), silver (detected in 5 of 10 samples), and cyanide (detected in 3 of seven samples). This pattern of frequency of detection is mirrored by the wetland-side samples for the sample analytes: antimony (detected in 1 of 9 samples), boron (detected in 3 of 9 samples), mercury (detected in 4 of 7 samples), selenium (detected in 4 of 10 samples), silver (detected in 5 of 10 samples), and cyanide (detected in 3 of 7 samples). Although the lower end of these positively detected chemicals are comparable to the respective analtyical detection limits, a majority of the maximum detected concentrations are associated with samples collected at transects 6 and 7. Coincidentally, these transects correspond to the maximum detected amounts of PCBs at the landfill/wetland interface.

Physical data for the soils provide organic carbon data which range from approximately 0.85 to 8.4% organic carbon. Maximum organic carbon content is noted at transect 8 in samples T8-A and T8-B. The median ($50^{th}$ percentile) particle sizes for the interface samples are comparable, regardless of whether the samples were collected on the landfill or wetland side of the interface. Median particle sizes ranged from 0.0179 mm to 0.5921 mm (for the landfill-side samples) and from 0.0173 mm to 1.0835 mm (for the wetland-side samples).

## TABLE A.1-1

## SUMMARY OF POSITIVELY DETECTED CHEMICALS
## AREA A LANDFILL/WETLAND INTERFACE
## NSB NEW LONDON, GROTON, CONNECTICUT

| Chemical | Landfill side samples (-A suffix) | | | Wetland side samples (-B suffix) | | |
|---|---|---|---|---|---|---|
| | Frequency of Detection | Range of Positive Results | Location of Maximum Detection | Frequency of Detection | Range of Positive Results | Location of Maximum Detection |
| **Volatile Organic Compounds (µg/Kg)** | | | | | | |
| Carbon disulfide | ND | NA | NA | 2/10 | 3 - 12 | T10-B |
| 2-Butanone | 1/10 | 520 | T2-A | 2/10 | 59 - 1,400 | T8-B |
| Toluene | 4/10 | 2 - 5 | T2-A, T7-A | 2/10 | 3 - 6 | T8-B |
| Chlorobenzene | 1/10 | 2 | T2-A | 2/10 | 3 - 14 | T7-B |
| Xylenes | ND | NA | NA | 1/10 | 3 | T6-B |
| **Semivolatile Organic Compounds (µg/Kg)** | | | | | | |
| 1,4-Dichlorobenzene | ND | NA | NA | 1/9 | 42 | T6-B |
| 4-Methylphenol | 1/10 | 43 | T9-A | ND | NA | NA |
| 2,4-Dimethylphenol | ND | NA | NA | 1/9 | 210 | T8-B |
| Naphthalene | 5/10 | 56 - 77 | T9-A | ND | NA | NA |
| 2-Methylnaphthalene | 4/10 | 40 - 55 | T3-A | ND | NA | NA |
| Acenaphthylene | 3/10 | 34 - 390 | T3-A | 1/9 | 70 | T3-B |
| Pentachlorophenol | ND | NA | NA | 1/9 | 240 | T1-B |
| Dibenzofuran | 7/10 | 35 - 72 | T5-A | 2/10 | 68 - 280 | T7-B |
| Fluorene | 8/10 | 21 - 160 | T3-A | 3/10 | 38 - 340 | T7-B |
| Acenaphthene | 7/10 | 30 - 220 | T5-A | 2/10 | 110 - 380 | T7-B |
| Phenanthrene | 10/10 | 43 - 1,800 | T3-A | 10/10 | 22 - 320 | T3-B |
| Anthracene | 9/10 | 34 - 450 | T3-A | 5/9 | 38 - 90 | T3-B |
| Carbazole | 5/10 | 25 - 130 | T5-A | 1/9 | 32 | T3-B |
| Di-n-butylphthalate | 5/10 | 26 - 56 | T6-A | 3/9 | 23 - 63 | T3-B |
| Fluoranthene | 10/10 | 160 - 4,200 | T3-A | 10/10 | 56 - 890 | T3-B |
| Pyrene | 10/10 | 96 - 4,600 | T3-A | 10/10 | 46 - 910 | T3-B |
| Butylbenzylphthalate | 2/10 | 21 - 50 | T6-A | 2/10 | 61 - 690 | T7-B |
| Benzo(a)anthracene | 10/10 | 45 - 3,000 | T3-A | 10/10 | 25 - 480 | T3-B |
| Chrysene | 10/10 | 65 - 3,700 | T3-A | 10/10 | 38 - 590 | T3-B |
| Bis(2-ethylhexyl)phthalate | ND | NA | NA | 1/9 | 3,500 | T10-B |
| Benzo(b)fluoranthene | 9/10 | 54 - 660 | T2-A | 9/10 | 44 - 420 | T3-B |

ND - Compound or analyte not detected in samples associated with this side of landfill/wetland interface.
NA - Evaluation not applicable.

**TABLE A.1-1**
**SUMMARY OF POSITIVELY DETECTED CHEMICALS**
**AREA A LANDFILL/WETLAND INTERFACE**
**NSB NEW LONDON, GROTON, CONNECTICUT**


| Chemical | Landfill side samples (-A suffix) | | | Wetland side samples (-B suffix) | | |
|---|---|---|---|---|---|---|
| | Frequency of Detection | Range of Positive Results | Location of Maximum Detection | Frequency of Detection | Range of Positive Results | Location of Maximum Detection |
| Benzo(k)fluoranthene | 10/10 | 62 - 3,700 | T3-A | 9/10 | 75 - 510 | T3-B |
| Benzo(a)pyrene | 10/10 | 55 - 2,600 | T3-A | 10/10 | 30 - 480 | T3-B |
| Indeno(1,2,3-cd)pyrene | 10/10 | 41 - 1,000 | T3-A | 10/10 | 22 - 350 | T7-B |
| Dibenz(a,h)anthracene | 4/10 | 72 - 310 | T2-A | 2/9 | 87 - 170 | T3-B |
| Benzo(g,h,i)perylene | 10/10 | 50 - 1,110 | T3-A | 9/10 | 27 - 340 | T7-B |
| **Pesticide/PCB Compounds (µg/Kg)** | | | | | | |
| beta-BHC | 1/10 | 2.7 | T5-A | ND | NA | NA |
| delta-BHC | 1/10 | 4.2 | T5-A | ND | NA | NA |
| gamma-BHC | 1/10 | 3.5 | T5-A | ND | NA | NA |
| Heptachlor | 2/10 | 2.8 - 4.5 | T5-A | ND | NA | NA |
| Aldrin | 1/10 | 3.2 | T5-A | ND | NA | NA |
| Heptachlor epoxide | 2/10 | 2.2 - 2.8 | T1-A | 2/9 | 3.7 - 4.5 | T1-B |
| Endosulfan I | 3/10 | 2.4 - 11 | T3-A | 1/9 | 2.1 | T1-B |
| Dieldrin | 2/10 | 8.4 - 26 | T6-A | ND | NA | NA |
| 4,4'-DDE | 7/10 | 10 - 260 | T3-A | 5/10 | 7.4 - 330 | T3-B |
| Endrin | 2/10 | 7.8 - 16 | T5-A | ND | NA | NA |
| Endosulfan II | 1/9 | 31 | T2-A | 1/9 | 6.9 | T2-B |
| 4,4'-DDD | 7/9 | 9 - 1,300 | T5-A | 5/8 | 4.5 - 1,400 | T3-B |
| Endosulfan sulfate | 2/9 | 6.9 - 14 | T3-A | ND | NA | NA |
| 4,4'-DDT | 4/6 | 44 - 890 | T5-A | 4/8 | 4.4 - 2,900 | T3-B |
| Methoxychlor | 1/9 | 38 | T5-A | ND | NA | NA |
| Endrin ketone | 1/9 | 20 | T5-A | ND | NA | NA |
| Endrin aldehyde | 2/9 | 10 - 16 | T2-A | 2/9 | 5.6 - 16 | T3-B |
| alpha-Chlordane | 6/10 | 4.4 - 29 | T6-A | 5/10 | 2.9 - 22 | T7-B |
| gamma-Chlordane | 5/10 | 4.5 - 23 | T6-A | 4/9 | 3.7 - 13 | T3-B |
| Aroclor-1260 | 3/10 | 82 - 1,500 | T6-A | 3/10 | 180 - 550 | T7-B |
| **Inorganic Analytes and Physical Data (mg/Kg)** | | | | | | |
| Aluminum | 10/10 | 3,530 - 15,800 | T6-A | 10/10 | 2,690 - 27,100 | T7-B |

ND - Compound or analyte not detected in samples associated with this side of landfill/wetland interface.
NA - Evaluation not applicable.

**TABLE A.1-1**
**SUMMARY OF POSITIVELY DETECTED CHEMICALS**
**AREA A LANDFILL/WETLAND INTERFACE**
**NSB NEW LONDON, GROTON, CONNECTICUT**


| Chemical | Landfill side samples (-A suffix) | | | Wetland side samples (-B suffix) | | |
|---|---|---|---|---|---|---|
| | Frequency of Detection | Range of Positive Results | Location of Maximum Detection | Frequency of Detection | Range of Positive Results | Location of Maximum Detection |
| Antimony | 3/10 | 0.48 - 1.2 | T7-A | 1/9 | 1.1 | T6-B |
| Arsenic | 10/10 | 1.4 - 11.0 | T8-A | 10/10 | 1.0 - 14.1 | T8-B |
| Barium | 10/10 | 27.9 - 124 | T7-A | 10/10 | 11.9 - 318 | T7-B |
| Beryllium | 10/10 | 0.16 - 1.3 | T6-A | 10/10 | 0.14 - 4.1 | T7-B |
| Boron | 2/10 | 14.7 - 28.7 | T8-A | 3/9 | 29.5 - 39.6 | T9-B |
| Cadmium | 8/10 | 0.23 - 0.72 | T6-A | 9/10 | 0.12 - 1.6 | T7-B |
| Calcium | 10/10 | 900 - 3,350 | T7-A | 10/10 | 868 - 5,330 | T7-B |
| Chromium | 10/10 | 8.1 - 80.3 | T8-A | 10/10 | 7.0 - 96.8 | T8-B |
| Cobalt | 10/10 | 3.0 - 10.0 | T6-A | 10/10 | 3.2 - 13.6 | T7-B |
| Copper | 10/10 | 14.7 - 133 | T6-A | 10/10 | 19.5 - 173 | T7-B |
| Iron | 10/10 | 5,800 - 53,100 | T6-A | 10/10 | 5,630 - 19,800 | T7-B |
| Lead | 10/10 | 17.4 - 141 | T6-A | 10/10 | 16.1 - 110 | T7-B |
| Magnesium | 10/10 | 1,650 - 7,230 | T8-A | 10/10 | 1,570 - 9,150 | T8-B |
| Manganese | 10/10 | 78.8 - 313 | T9-A | 10/10 | 55.3 - 335 | T9-B |
| Mercury | 4/6 | 0.15 - 0.44 | T7-A | 4/7 | 0.19 - 1.2 | T6-B |
| Nickel | 10/10 | 6.6 - 61.5 | T2-A | 10/10 | 8.5 - 47.7 | T7-B |
| Potassium | 10/10 | 813 - 3,880 | T8-A | 10/10 | 659 - 5,170 | T8-B |
| Selenium | 3/10 | 1.8 - 2.2 | T6-A, T8-A | 4/10 | 1.5 - 6.8 | T7-B |
| Silver | 5/10 | 0.17 - 0.96 | T6-A | 5/10 | 0.15 - 0.86 | T7-B |
| Sodium | 10/10 | 114 - 2,980 | T8-A | 10/10 | 215 - 4,980 | T9-B |
| Vanadium | 10/10 | 12.8 - 183 | T2-A | 10/10 | 8.9 - 203 | T7-B |
| Zinc | 10/10 | 39.2 - 378 | T2-A | 10/10 | 45.1 - 702 | T7-B |
| Cyanide | 3/7 | 0.90 - 2.1 | T6-A | 3/7 | 0.90 - 6.1 | T7-B |
| Total Organic Carbon | 10/10 | 9,960 - 84,100 | T8-A | 10/10 | 8,420 - 79,600 | T8-B |
| $D_{50}$ Particle Size (mm) | NA | 0.0179 - 0.5921 | T3-A | NA | 0.0173 - 1.0835 | T7-A |

ND - Compound or analyte not detected in samples associated with this side of landfill/wetland interface.
NA - Evaluation not applicable.

# ATTACHMENT A.2
# LANDFILL/WETLAND INTERFACE SAMPLE LOCATIONS

# ATTACHMENT A.3
# LANDFILL/WETLAND INTERFACE ANALYTICAL RESULTS

CTO 129, NSB NEW LONDON, GROTON, CONNECTICUT
LABORATORY: SOUTHWEST LABORATORY OF OKLAHOMA

TCL VOLATILE SOILS (UG/KG)

| CLIENT ID: | | | T1-A | | T1-B | | T2-A | | DUP-03 | | T2-B | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LABORATORY ID: | | | 20715.04 | | 20715.05 | | 20715.06 | | 20715.07 | | 20715.08 | |
| ANALYTE | CRQL | MDL | | | | | | | | | | |
| CHLOROMETHANE | 10 | 1.9 | 12 | U | 11 | U | 16 | U | 15 | U | 17 | U |
| BROMOMETHANE | 10 | 2.8 | 12 | U | 11 | U | 16 | U | 15 | U | 17 | U |
| VINYL CHLORIDE | 10 | 1.9 | 12 | U | 11 | U | 16 | U | 15 | U | 17 | U |
| CHLOROETHANE | 10 | 2.9 | 12 | U | 11 | U | 16 | U | 15 | U | 17 | U |
| METHYLENE CHLORIDE | 10 | 2.1 | 12 | U | 12 | U | 16 | U | 19 | U | 17 | U |
| ACETONE | 10 | 3.7 | 12 | U | 11 | U | 49 | U | 85 | U | 53 | U |
| CARBON DISULFIDE | 10 | 1.4 | 12 | U | 11 | U | 16 | U | 15 | U | 17 | U |
| 1,1-DICHLOROETHENE | 10 | 1.1 | 12 | U | 11 | U | 16 | U | 15 | U | 17 | U |
| 1,1-DICHLOROETHANE | 10 | 1.6 | 12 | U | 11 | U | 16 | U | 15 | U | 17 | U |
| 1,2-DICHLOROETHENE(TOTAL) | 10 | 1.2 | 12 | U | 11 | U | 16 | U | 15 | U | 17 | U |
| CHLOROFORM | 10 | 1.3 | 12 | U | 11 | U | 16 | U | 15 | U | 17 | U |
| 1,2-DICHLOROETHANE | 10 | 2.8 | 12 | U | 11 | U | 16 | U | 15 | U | 17 | U |
| 2-BUTANONE | 10 | 3.9 | 12 | U | 11 | U | *520 | | *420 | | 32 | U |
| 1,1,1-TRICHLOROETHANE | 10 | 0.6 | 12 | U | 11 | U | 16 | U | 15 | U | 17 | U |
| CARBON TETRACHLORIDE | 10 | 1.2 | 12 | U | 11 | U | 16 | U | 15 | U | 17 | U |
| BROMODICHLOROMETHANE | 10 | 0.7 | 12 | U | 11 | U | 16 | U | 15 | U | 17 | U |
| 1,2-DICHLOROPROPANE | 10 | 1.0 | 12 | U | 11 | U | 16 | U | 15 | U | 17 | U |
| CIS-1,3-DICHLOROPROPENE | 10 | 1.0 | 12 | U | 11 | U | 16 | U | 15 | U | 17 | U |
| TRICHLOROETHENE | 10 | 1.1 | 12 | U | 11 | U | 16 | U | 15 | U | 17 | U |
| DIBROMOCHLOROMETHANE | 10 | 1.4 | 12 | U | 11 | U | 16 | U | 15 | U | 17 | U |
| 1,1,2-TRICHLOROETHANE | 10 | 1.1 | 12 | U | 11 | U | 16 | U | 15 | U | 17 | U |
| BENZENE | 10 | 1.2 | 12 | U | 11 | U | 16 | U | 15 | U | 17 | U |
| TRANS-1,3-DICHLOROPROPENE | 10 | 0.9 | 12 | U | 11 | U | 16 | U | 15 | U | 17 | U |
| BROMOFORM | 10 | 2.5 | 12 | U | 11 | U | 16 | U | 15 | U | 17 | U |
| 4-METHYL-2-PENTANONE | 10 | 4.0 | 12 | U | 11 | U | 16 | U | 15 | UJ | 17 | U |
| 2-HEXANONE | 10 | 4.8 | 12 | U | 11 | U | 16 | U | 15 | UJ | 17 | U |
| TETRACHLOROETHENE | 10 | 1.3 | 12 | U | 11 | U | 16 | U | 15 | UJ | 17 | U |
| 1,1,2,2-TETRACHLOROETHANE | 10 | 1.7 | 12 | U | 11 | U | 16 | U | 15 | UJ | 17 | U |
| TOLUENE | 10 | 0.9 | 12 | U | 11 | U | 5 | J | 2 | J | 17 | U |
| CHLOROBENZENE | 10 | 0.8 | 12 | U | 11 | U | 16 | U | 2 | J | 17 | U |
| ETHYLBENZENE | 10 | 2.6 | 12 | U | 11 | U | 16 | U | 15 | UJ | 17 | U |
| STYRENE | 10 | 0.9 | 12 | U | 11 | U | 16 | U | 15 | UJ | 17 | U |
| XYLENE (TOTAL) | 10 | 1.7 | 12 | U | 11 | U | 16 | U | 15 | UJ | 17 | U |
| VINYL ACETATE | 10 | 4.9 | 12 | U | 11 | U | 16 | U | 15 | U | 17 | U |
| % SOLIDS: | | | 80.0 | | 87.0 | | 64.0 | | 68.0 | | 60.0 | |
| DILUTION FACTOR: | | | 1.0 | | 1.0 | | 1.0 | | 1.0 | | 1.0 | |

* RESULT FROM DILUTION ANALYSIS

CTO 129, NSB NEW LONDON, GROTON, CONNECTICUT
LABORATORY: SOUTHWEST LABORATORY OF OKLAHOMA

TCL VOLATILE SOILS (UG/KG)

| CLIENT ID: | | | T3-A | | T3-B | | T4-A | | T4-B | | T5-A | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LABORATORY ID: | | | 20715.09 | | 20715.10 | | 20730.03 | | 20730.04 | | 20730.05 | |
| ANALYTE | CRQL | MDL | | | | | | | | | | |
| CHLOROMETHANE | 10 | 1.9 | 12 | U | 15 | U | 12 | U | 12 | U | 14 | U |
| BROMOMETHANE | 10 | 2.8 | 12 | U | 15 | U | 12 | U | 12 | U | 14 | U |
| VINYL CHLORIDE | 10 | 1.9 | 12 | U | 15 | U | 12 | U | 12 | U | 14 | U |
| CHLOROETHANE | 10 | 2.9 | 12 | U | 15 | U | 12 | U | 12 | U | 14 | U |
| METHYLENE CHLORIDE | 10 | 2.1 | 12 | U | 19 | U | 24 | U | 35 | U | 39 | U |
| ACETONE | 10 | 3.7 | 12 | U | 18 | U | 12 | U | 12 | U | 30 | U |
| CARBON DISULFIDE | 10 | 1.4 | 12 | U | 15 | U | 12 | U | 12 | U | 14 | U |
| 1,1-DICHLOROETHENE | 10 | 1.1 | 12 | U | 15 | U | 12 | U | 12 | U | 14 | U |
| 1,1-DICHLOROETHANE | 10 | 1.6 | 12 | U | 15 | U | 12 | U | 12 | U | 14 | U |
| 1,2-DICHLOROETHENE(TOTAL) | 10 | 1.2 | 12 | U | 15 | U | 12 | U | 12 | U | 14 | U |
| CHLOROFORM | 10 | 1.3 | 12 | U | 15 | U | 12 | U | 12 | U | 14 | U |
| 1,2-DICHLOROETHANE | 10 | 2.8 | 12 | U | 15 | U | 12 | U | 12 | U | 14 | U |
| 2-BUTANONE | 10 | 3.9 | 12 | U | 15 | U | 12 | U | 12 | U | 17 | U |
| 1,1,1-TRICHLOROETHANE | 10 | 0.6 | 12 | U | 15 | U | 12 | U | 12 | U | 14 | U |
| CARBON TETRACHLORIDE | 10 | 1.2 | 12 | U | 15 | U | 12 | U | 12 | U | 14 | U |
| BROMODICHLOROMETHANE | 10 | 0.7 | 12 | U | 15 | U | 12 | U | 12 | U | 14 | U |
| 1,2-DICHLOROPROPANE | 10 | 1.0 | 12 | U | 15 | U | 12 | U | 12 | U | 14 | U |
| CIS-1,3-DICHLOROPROPENE | 10 | 1.0 | 12 | U | 15 | U | 12 | U | 12 | U | 14 | U |
| TRICHLOROETHENE | 10 | 1.1 | 12 | U | 15 | U | 12 | U | 12 | U | 14 | U |
| DIBROMOCHLOROMETHANE | 10 | 1.4 | 12 | U | 15 | U | 12 | U | 12 | U | 14 | U |
| 1,1,2-TRICHLOROETHANE | 10 | 1.1 | 12 | U | 15 | U | 12 | U | 12 | U | 14 | U |
| BENZENE | 10 | 1.2 | 12 | U | 15 | U | 12 | U | 12 | U | 14 | U |
| TRANS-1,3-DICHLOROPROPENE | 10 | 0.9 | 12 | U | 15 | U | 12 | U | 12 | U | 14 | U |
| BROMOFORM | 10 | 2.5 | 12 | U | 15 | U | 12 | U | 12 | U | 14 | U |
| 4-METHYL-2-PENTANONE | 10 | 4.0 | 12 | U | 15 | U | 12 | U | 12 | U | 14 | U |
| 2-HEXANONE | 10 | 4.8 | 12 | U | 15 | U | 12 | U | 12 | U | 14 | U |
| TETRACHLOROETHENE | 10 | 1.3 | 12 | U | 15 | U | 12 | U | 12 | U | 14 | U |
| 1,1,2,2-TETRACHLOROETHANE | 10 | 1.7 | 12 | U | 15 | U | 12 | U | 12 | U | 14 | U |
| TOLUENE | 10 | 0.9 | 12 | U | 3 | J | 12 | U | 12 | U | 14 | U |
| CHLOROBENZENE | 10 | 0.8 | 12 | U | 15 | U | 12 | U | 12 | U | 14 | U |
| ETHYLBENZENE | 10 | 2.6 | 12 | U | 15 | U | 12 | U | 12 | U | 14 | U |
| STYRENE | 10 | 0.9 | 12 | U | 15 | U | 12 | U | 12 | U | 14 | U |
| XYLENE (TOTAL) | 10 | 1.7 | 12 | U | 15 | U | 12 | U | 12 | U | 14 | U |
| VINYL ACETATE | 10 | 4.9 | 12 | U | 15 | U | 12 | U | 12 | U | 14 | U |
| % SOLIDS: | | | 84.0 | | 66.0 | | 96.0 | | 83.0 | | 69.0 | |
| DILUTION FACTOR: | | | 1.0 | | 1.0 | | 1.0 | | 1.0 | | 1.0 | |

* RESULT FROM DILUTION ANALYSIS

CTO 129, NSB NEW LONDON, GROTON, CONNECTICUT
LABORATORY: SOUTHWEST LABORATORY OF OKLAHOMA

TCL VOLATILE SOILS (UG/KG)

| CLIENT ID: | | | T5-B | | T6-A | | DUP-05 | | T6-B | | T7-A | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LABORATORY ID: | | | 20730.06 | | 20730.07 | | 20730.08 | | 20730.09 | | 20730.13 | |
| ANALYTE | CRQL | MDL | | | | | | | | | | |
| CHLOROMETHANE | 10 | 1.9 | 12 | U | 19 | UJ | 19 | U | 24 | U | 19 | U |
| BROMOMETHANE | 10 | 2.8 | 12 | U | 19 | UJ | 19 | U | 24 | U | 19 | U |
| VINYL CHLORIDE | 10 | 1.9 | 12 | U | 19 | UJ | 19 | U | 24 | U | 19 | U |
| CHLOROETHANE | 10 | 2.9 | 12 | U | 19 | UJ | 19 | U | 24 | U | 19 | U |
| METHYLENE CHLORIDE | 10 | 2.1 | 29 | U | 62 | U | 61 | U | 74 | U | 38 | U |
| ACETONE | 10 | 3.7 | 12 | U | 19 | U | 19 | U | 40 | U | 76 | U |
| CARBON DISULFIDE | 10 | 1.4 | 12 | U | 19 | UJ | 19 | U | 24 | U | 19 | U |
| 1,1-DICHLOROETHENE | 10 | 1.1 | 12 | U | 19 | UJ | 19 | U | 24 | U | 19 | U |
| 1,1-DICHLOROETHANE | 10 | 1.6 | 12 | U | 19 | UJ | 19 | U | 24 | U | 19 | U |
| 1,2-DICHLOROETHENE(TOTAL) | 10 | 1.2 | 12 | U | 19 | UJ | 19 | U | 24 | U | 19 | U |
| CHLOROFORM | 10 | 1.3 | 12 | U | 19 | UJ | 19 | U | 24 | U | 19 | U |
| 1,2-DICHLOROETHANE | 10 | 2.8 | 12 | U | 19 | UJ | 19 | U | 24 | U | 19 | U |
| 2-BUTANONE | 10 | 3.9 | 12 | U | 19 | UJ | 19 | U | 21 | U | 37 | U |
| 1,1,1-TRICHLOROETHANE | 10 | 0.6 | 12 | U | 19 | UJ | 19 | U | 24 | U | 19 | U |
| CARBON TETRACHLORIDE | 10 | 1.2 | 12 | U | 19 | UJ | 19 | U | 24 | U | 19 | U |
| BROMODICHLOROMETHANE | 10 | 0.7 | 12 | U | 19 | UJ | 19 | U | 24 | U | 19 | U |
| 1,2-DICHLOROPROPANE | 10 | 1.0 | 12 | U | 19 | UJ | 19 | U | 24 | U | 19 | U |
| CIS-1,3-DICHLOROPROPENE | 10 | 1.0 | 12 | U | 19 | UJ | 19 | U | 24 | U | 19 | U |
| TRICHLOROETHENE | 10 | 1.1 | 12 | U | 19 | UJ | 19 | U | 24 | U | 19 | U |
| DIBROMOCHLOROMETHANE | 10 | 1.4 | 12 | U | 19 | UJ | 19 | U | 24 | U | 19 | U |
| 1,1,2-TRICHLOROETHANE | 10 | 1.1 | 12 | U | 19 | UJ | 19 | U | 24 | U | 19 | U |
| BENZENE | 10 | 1.2 | 12 | U | 19 | UJ | 19 | U | 24 | U | 19 | U |
| TRANS-1,3-DICHLOROPROPENE | 10 | 0.9 | 12 | U | 19 | UJ | 19 | U | 24 | U | 19 | U |
| BROMOFORM | 10 | 2.5 | 12 | U | 19 | UJ | 19 | U | 24 | U | 19 | U |
| 4-METHYL-2-PENTANONE | 10 | 4.0 | 12 | U | 19 | UJ | 19 | UJ | 24 | UJ | 19 | U |
| 2-HEXANONE | 10 | 4.8 | 12 | U | 19 | UJ | 19 | UJ | 24 | UJ | 19 | U |
| TETRACHLOROETHENE | 10 | 1.3 | 12 | U | 19 | UJ | 19 | UJ | 24 | UJ | 19 | U |
| 1,1,2,2-TETRACHLOROETHANE | 10 | 1.7 | 12 | U | 19 | UJ | 19 | UJ | 24 | UJ | 19 | U |
| TOLUENE | 10 | 0.9 | 12 | U | 3 | J | 3 | J | 24 | UJ | 5 | J |
| CHLOROBENZENE | 10 | 0.8 | 12 | U | 19 | UJ | 19 | UJ | 3 | J | 19 | U |
| ETHYLBENZENE | 10 | 2.6 | 12 | U | 19 | UJ | 19 | UJ | 24 | UJ | 19 | U |
| STYRENE | 10 | 0.9 | 12 | U | 19 | UJ | 19 | UJ | 24 | UJ | 19 | U |
| XYLENE (TOTAL) | 10 | 1.7 | 12 | U | 19 | UJ | 19 | UJ | 3 | J | 19 | U |
| VINYL ACETATE | 10 | 4.9 | 12 | U | 19 | UJ | 19 | U | 24 | U | 19 | U |
| % SOLIDS: | | | 86.0 | | 53.0 | | 52.0 | | 41.0 | | 53.0 | |
| DILUTION FACTOR: | | | 1.0 | | 1.0 | | 1.0 | | 1.0 | | 1.0 | |

* RESULT FROM DILUTION ANALYSIS

CTO 129, NSB NEW LONDON, GROTON, CONNECTICUT
LABORATORY: SOUTHWEST LABORATORY OF OKLAHOMA

CLIENT ID: T7-B
LABORATORY ID: 20730.14

TCL VOLATILE SOILS (UG/KG)

| ANALYTE | CRQL | MDL | | |
|---|---|---|---|---|
| CHLOROMETHANE | 10 | 1.9 | 67 | UR |
| BROMOMETHANE | 10 | 2.8 | 67 | UR |
| VINYL CHLORIDE | 10 | 1.9 | 67 | UR |
| CHLOROETHANE | 10 | 2.9 | 67 | UR |
| METHYLENE CHLORIDE | 10 | 2.1 | 210 | UR |
| ACETONE | 10 | 3.7 | 260 | UR |
| CARBON DISULFIDE | 10 | 1.4 | 67 | UR |
| 1,1-DICHLOROETHENE | 10 | 1.1 | 67 | UR |
| 1,1-DICHLOROETHANE | 10 | 1.6 | 67 | UR |
| 1,2-DICHLOROETHENE(TOTAL) | 10 | 1.2 | 67 | UR |
| CHLOROFORM | 10 | 1.3 | 67 | UR |
| 1,2-DICHLOROETHANE | 10 | 2.8 | 67 | UR |
| 2-BUTANONE | 10 | 3.9 | 120 | UR |
| 1,1,1-TRICHLOROETHANE | 10 | 0.6 | 67 | UR |
| CARBON TETRACHLORIDE | 10 | 1.2 | 67 | UR |
| BROMODICHLOROMETHANE | 10 | 0.7 | 67 | UR |
| 1,2-DICHLOROPROPANE | 10 | 1.0 | 67 | UR |
| CIS-1,3-DICHLOROPROPENE | 10 | 1.0 | 67 | UR |
| TRICHLOROETHENE | 10 | 1.1 | 67 | UR |
| DIBROMOCHLOROMETHANE | 10 | 1.4 | 67 | UR |
| 1,1,2-TRICHLOROETHANE | 10 | 1.1 | 67 | UR |
| BENZENE | 10 | 1.2 | 67 | UR |
| TRANS-1,3-DICHLOROPROPENE | 10 | 0.9 | 67 | UR |
| BROMOFORM | 10 | 2.5 | 67 | UR |
| 4-METHYL-2-PENTANONE | 10 | 4.0 | 67 | UR |
| 2-HEXANONE | 10 | 4.8 | 67 | UR |
| TETRACHLOROETHENE | 10 | 1.3 | 67 | UR |
| 1,1,2,2-TETRACHLOROETHANE | 10 | 1.7 | 67 | UR |
| TOLUENE | 10 | 0.9 | 67 | UR |
| CHLOROBENZENE | 10 | 0.8 | 14 | J |
| ETHYLBENZENE | 10 | 2.6 | 67 | UR |
| STYRENE | 10 | 0.9 | 67 | UR |
| XYLENE (TOTAL) | 10 | 1.7 | 67 | UR |
| VINYL ACETATE | 10 | 4.9 | 67 | UR |
| % SOLIDS: | | | 15.0 | |
| DILUTION FACTOR: | | | 1.0 | |

* RESULT FROM DILUTION ANALYSIS

CTO 129, NSB NEW LONDON, GROTON, CONNECTICUT
LABORATORY: SOUTHWEST LABORATORY OF OKLAHOMA

TCL VOLATILE SOILS (UG/KG)

| CLIENT ID: | | | T8-A | | T8-B | | T9-A | | T9-B | | T10-A | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LABORATORY ID: | | | 20748.13 | | 20748.14 | | 20748.15 RE | | 20748.16 | | 20748.17 | |
| ANALYTE | CRQL | MDL | | | | | | | | | | |
| CHLOROMETHANE | 10 | 1.9 | 21 | U | 22 | U | 17 | U | 21 | U | 14 | U |
| BROMOMETHANE | 10 | 2.8 | 21 | U | 22 | U | 17 | U | 21 | U | 14 | U |
| VINYL CHLORIDE | 10 | 1.9 | 21 | U | 22 | U | 17 | U | 21 | U | 14 | U |
| CHLOROETHANE | 10 | 2.9 | 21 | U | 22 | U | 17 | U | 21 | U | 14 | U |
| METHYLENE CHLORIDE | 10 | 2.1 | 21 | U | 42 | U | 17 | U | 21 | U | 14 | U |
| ACETONE | 10 | 3.7 | 67 | U | 110 | U | 90 | U | 21 | U | 25 | U |
| CARBON DISULFIDE | 10 | 1.4 | 21 | U | 22 | U | 17 | U | 3 | J | 14 | U |
| 1,1-DICHLOROETHENE | 10 | 1.1 | 21 | U | 22 | U | 17 | U | 21 | U | 14 | U |
| 1,1-DICHLOROETHANE | 10 | 1.6 | 21 | U | 22 | U | 17 | U | 21 | U | 14 | U |
| 1,2-DICHLOROETHENE (TOTAL) | 10 | 1.2 | 21 | U | 22 | U | 17 | U | 21 | U | 14 | U |
| CHLOROFORM | 10 | 1.3 | 21 | U | 22 | U | 17 | U | 21 | U | 14 | U |
| 1,2-DICHLOROETHANE | 10 | 2.8 | 21 | U | 22 | U | 17 | U | 21 | U | 14 | U |
| 2-BUTANONE | 10 | 3.9 | 27 | U | *1400 | | 34 | U | 59 | | 14 | U |
| 1,1,1-TRICHLOROETHANE | 10 | 0.6 | 21 | U | 22 | U | 17 | U | 21 | U | 14 | U |
| CARBON TETRACHLORIDE | 10 | 1.2 | 21 | U | 22 | U | 17 | U | 21 | U | 14 | U |
| BROMODICHLOROMETHANE | 10 | 0.7 | 21 | U | 22 | U | 17 | U | 21 | U | 14 | U |
| 1,2-DICHLOROPROPANE | 10 | 1.0 | 21 | U | 22 | U | 17 | U | 21 | U | 14 | U |
| CIS-1,3-DICHLOROPROPENE | 10 | 1.0 | 21 | U | 22 | U | 17 | U | 21 | U | 14 | U |
| TRICHLOROETHENE | 10 | 1.1 | 21 | U | 22 | U | 17 | U | 21 | U | 14 | U |
| DIBROMOCHLOROMETHANE | 10 | 1.4 | 21 | U | 22 | U | 17 | U | 21 | U | 14 | U |
| 1,1,2-TRICHLOROETHANE | 10 | 1.1 | 21 | U | 22 | U | 17 | U | 21 | U | 14 | U |
| BENZENE | 10 | 1.2 | 21 | U | 22 | U | 17 | U | 21 | U | 14 | U |
| TRANS-1,3-DICHLOROPROPENE | 10 | 0.9 | 21 | U | 22 | U | 17 | U | 21 | U | 14 | U |
| BROMOFORM | 10 | 2.5 | 21 | U | 22 | U | 17 | U | 21 | U | 14 | U |
| 4-METHYL-2-PENTANONE | 10 | 4.0 | 21 | U | 22 | U | 17 | UJ | 21 | U | 14 | U |
| 2-HEXANONE | 10 | 4.8 | 21 | U | 22 | U | 17 | UJ | 21 | U | 14 | U |
| TETRACHLOROETHENE | 10 | 1.3 | 21 | U | 22 | U | 17 | UJ | 21 | U | 14 | U |
| 1,1,2,2-TETRACHLOROETHANE | 10 | 1.7 | 21 | U | 22 | U | 17 | UJ | 21 | U | 14 | U |
| TOLUENE | 10 | 0.9 | 21 | U | 6 | J | 17 | UJ | 21 | U | 3 | J |
| CHLOROBENZENE | 10 | 0.8 | 21 | U | 22 | U | 17 | UJ | 21 | U | 14 | U |
| ETHYLBENZENE | 10 | 2.6 | 21 | U | 22 | U | 17 | UJ | 21 | U | 14 | U |
| STYRENE | 10 | 0.9 | 21 | U | 22 | UJ | 17 | UJ | 21 | U | 14 | U |
| XYLENE (TOTAL) | 10 | 1.7 | 21 | U | 22 | UJ | 17 | UJ | 21 | U | 14 | U |
| VINYL ACETATE | 10 | 4.9 | 21 | U | 22 | U | 17 | U | 21 | U | 14 | U |
| % SOLIDS: | | | 48.0 | | 45.0 | | 58.0 | | 47.0 | | 70.0 | |
| DILUTION FACTOR: | | | 1.0 | | 1.0 | | 1.0 | | 1.0 | | 1.0 | |

* RESULT FROM DILUTION ANALYSIS

CTO 129, NSB NEW LONDON, GROTON, CONNECTICUT
LABORATORY: SOUTHWEST LABORATORY OF OKLAHOMA

| CLIENT ID: | | | T10-B | | QW-1 | |
|---|---|---|---|---|---|---|
| LABORATORY ID: | | | 20748.18 | | 20748.19 | |

TCL VOLATILE SOILS (UG/KG)

| ANALYTE | CRQL | MDL | | | | |
|---|---|---|---|---|---|---|
| CHLOROMETHANE | 10 | 1.9 | 22 | U | 13 | U |
| BROMOMETHANE | 10 | 2.8 | 22 | U | 13 | U |
| VINYL CHLORIDE | 10 | 1.9 | 22 | U | 13 | U |
| CHLOROETHANE | 10 | 2.9 | 22 | U | 13 | U |
| METHYLENE CHLORIDE | 10 | 2.1 | 32 | U | 13 | U |
| ACETONE | 10 | 3.7 | 67 | U | 13 | U |
| CARBON DISULFIDE | 10 | 1.4 | 12 | J | 13 | U |
| 1,1-DICHLOROETHENE | 10 | 1.1 | 22 | U | 13 | U |
| 1,1-DICHLOROETHANE | 10 | 1.6 | 22 | U | 13 | U |
| 1,2-DICHLOROETHENE (TOTAL) | 10 | 1.2 | 22 | U | 13 | U |
| CHLOROFORM | 10 | 1.3 | 22 | U | 13 | U |
| 1,2-DICHLOROETHANE | 10 | 2.8 | 22 | U | 13 | U |
| 2-BUTANONE | 10 | 3.9 | 21 | U | 13 | U |
| 1,1,1-TRICHLOROETHANE | 10 | 0.6 | 22 | U | 13 | U |
| CARBON TETRACHLORIDE | 10 | 1.2 | 22 | U | 13 | U |
| BROMODICHLOROMETHANE | 10 | 0.7 | 22 | U | 13 | U |
| 1,2-DICHLOROPROPANE | 10 | 1.0 | 22 | U | 13 | U |
| CIS-1,3-DICHLOROPROPENE | 10 | 1.0 | 22 | U | 13 | U |
| TRICHLOROETHENE | 10 | 1.1 | 22 | U | 13 | U |
| DIBROMOCHLOROMETHANE | 10 | 1.4 | 22 | U | 13 | U |
| 1,1,2-TRICHLOROETHANE | 10 | 1.1 | 22 | U | 13 | U |
| BENZENE | 10 | 1.2 | 22 | U | 13 | U |
| TRANS-1,3-DICHLOROPROPENE | 10 | 0.9 | 22 | U | 13 | U |
| BROMOFORM | 10 | 2.5 | 22 | U | 13 | U |
| 4-METHYL-2-PENTANONE | 10 | 4.0 | 22 | U | 13 | U |
| 2-HEXANONE | 10 | 4.8 | 22 | U | 13 | U |
| TETRACHLOROETHENE | 10 | 1.3 | 22 | U | 13 | U |
| 1,1,2,2-TETRACHLOROETHANE | 10 | 1.7 | 22 | U | 13 | U |
| TOLUENE | 10 | 0.9 | 22 | U | 3 | J |
| CHLOROBENZENE | 10 | 0.8 | 22 | U | 13 | U |
| ETHYLBENZENE | 10 | 2.6 | 22 | U | 13 | U |
| STYRENE | 10 | 0.9 | 22 | UJ | 13 | U |
| XYLENE (TOTAL) | 10 | 1.7 | 22 | UJ | 13 | U |
| VINYL ACETATE | 10 | 4.9 | 22 | U | 13 | U |
| % SOLIDS: | | | 45.0 | | 78.0 | |
| DILUTION FACTOR: | | | 1.0 | | 1.0 | |

* RESULT FROM DILUTION ANALYSIS

CTO 129, NSB NEW LONDON, GROTON, CONNECTICUT
LABORATORY: SOUTHWEST LABORATORY OF OKLAHOMA

TCL SEMIVOLATILE SOILS (UG/KG)

| CLIENT ID: | | | T1-A | | T1-B | | T2-A | | DUP-03 | | T2-B | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LABORATORY ID: | | | 20715.04 | | 20715.05 RE | | 20715.06 | | 20715.07 RE | | 20715.08 | |
| ANALYTE | CRQL | MDL | | | | | | | | | | |
| PHENOL | 330 | 75 | 410 | U | 380 | U | 520 | U | 480 | U | 550 | U |
| BIS(2-CHLOROETHYL)ETHER | 330 | 63 | 410 | U | 380 | U | 520 | U | 480 | U | 550 | U |
| 2-CHLOROPHENOL | 330 | 65 | 410 | U | 380 | U | 520 | U | 480 | U | 550 | U |
| 1,3-DICHLOROBENZENE | 330 | 57 | 410 | U | 380 | U | 520 | U | 480 | U | 550 | U |
| 1,4-DICHLOROBENZENE | 330 | 55 | 410 | U | 380 | U | 520 | U | 480 | U | 550 | U |
| 1,2-DICHLOROBENZENE | 330 | 65 | 410 | U | 380 | U | 520 | U | 480 | U | 550 | U |
| 2-METHYLPHENOL | 330 | 23 | 410 | U | 380 | U | 520 | U | 480 | U | 550 | U |
| BIS(2-CHLOROISOPROPYL)ETHER | 330 | 195 | 410 | U | 380 | U | 520 | U | 480 | U | 550 | U |
| 4-METHYLPHENOL | 330 | 60 | 410 | U | 380 | U | 520 | U | 480 | U | 550 | U |
| N-NITROSO-DI-N-PROPYLAMINE | 330 | 100 | 410 | U | 380 | U | 520 | U | 480 | U | 550 | U |
| HEXACHLOROETHANE | 330 | 52 | 410 | U | 380 | U | 520 | U | 480 | U | 550 | U |
| NITROBENZENE | 330 | 21 | 410 | U | 380 | UJ | 520 | U | 480 | UJ | 550 | U |
| ISOPHORONE | 330 | 46 | 410 | U | 380 | UJ | 520 | U | 480 | UJ | 550 | U |
| 2-NITROPHENOL | 330 | 29 | 410 | U | 380 | UJ | 520 | U | 480 | UJ | 550 | U |
| 2,4-DIMETHYLPHENOL | 330 | 78 | 410 | U | 380 | UJ | 520 | U | 480 | UJ | 550 | U |
| 2,4-DICHLOROPHENOL | 330 | 42 | 410 | U | 380 | UJ | 520 | U | 480 | UJ | 550 | U |
| 1,2,4-TRICHLOROBENZENE | 330 | 52 | 410 | U | 380 | UJ | 520 | U | 480 | UJ | 550 | U |
| NAPHTHALENE | 330 | 45 | 410 | U | 380 | UJ | 520 | U | 480 | UJ | 550 | U |
| 4-CHLOROANILINE | 330 | 89 | 410 | U | 380 | UJ | 520 | U | 480 | UJ | 550 | U |
| BIS(2-CHLOROETHOXY)METHANE | 330 | 35 | 410 | U | 380 | UJ | 520 | U | 480 | UJ | 550 | U |
| HEXACHLOROBUTADIENE | 330 | 78 | 410 | U | 380 | UJ | 520 | U | 480 | UJ | 550 | U |
| 4-CHLORO-3-METHYLPHENOL | 330 | 41 | 410 | U | 380 | UJ | 520 | U | 480 | UJ | 550 | U |
| 2-METHYLNAPHTHALENE | 330 | 29 | 410 | U | 380 | UJ | 520 | U | 480 | UJ | 550 | U |
| HEXACHLOROCYCLOPENTADIENE | 330 | 259 | 410 | U | 380 | UJ | 520 | U | 480 | UJ | 550 | U |
| 2,4,6-TRICHLOROPHENOL | 330 | 54 | 410 | U | 380 | UJ | 520 | U | 480 | UJ | 550 | U |
| 2,4,5-TRICHLOROPHENOL | 800 | 83 | 1000 | U | 920 | UJ | 1200 | U | 1200 | UJ | 1300 | U |
| 2-CHLORONAPHTHALENE | 330 | 33 | 410 | U | 380 | UJ | 520 | U | 480 | UJ | 550 | U |
| 2-NITROANILINE | 800 | 60 | 1000 | U | 920 | UJ | 1200 | U | 1200 | UJ | 1300 | U |
| DIMETHYL PHTHALATE | 330 | 25 | 410 | U | 380 | UJ | 520 | U | 480 | UJ | 550 | U |
| ACENAPHTHYLENE | 330 | 29 | 410 | U | 380 | UJ | 520 | U | 480 | UJ | 550 | U |
| 2,6-DINITROTOLUENE | 330 | 39 | 410 | U | 380 | UJ | 520 | U | 480 | UJ | 550 | U |
| 3-NITROANILINE | 800 | 164 | 1000 | U | 920 | UJ | 1200 | U | 1200 | UJ | 1300 | U |
| ACENAPHTHENE | 330 | 37 | 410 | U | 380 | UJ | 30 | J | 91 | J | 550 | U |

CTO 129, NSB NEW LONDON, GROTON, CONNECTICUT
LABORATORY: SOUTHWEST LABORATORY OF OKLAHOMA

TCL SEMIVOLATILE SOILS (UG/KG)

| CLIENT ID: | | | T1-A | | T1-B | | T2-A | | DUP-03 | | T2-B | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LABORATORY ID: | | | 20715.04 | | 20715.05 RE | | 20715.06 | | 20715.07 RE | | 20715.08 | |
| ANALYTE | CRQL | MDL | | | | | | | | | | |
| 2,4-DINITROPHENOL | 800 | 87 | 1000 | UJ | 920 | UJ | 1200 | U | 1200 | UJ | 1300 | U |
| 4-NITROPHENOL | 800 | 68 | 1000 | U | 920 | UJ | 1200 | U | 1200 | UJ | 1300 | U |
| DIBENZOFURAN | 330 | 28 | 410 | U | 380 | UJ | 520 | U | 44 | J | 550 | U |
| 2,4-DINITROTOLUENE | 330 | 46 | 410 | U | 380 | UJ | 520 | U | 480 | UJ | 550 | U |
| DIETHYLPHTHALATE | 330 | 37 | 410 | U | 380 | UJ | 520 | U | 480 | UJ | 550 | U |
| 4-CHLOROPHENYL-PHENYL ETHER | 330 | 61 | 410 | U | 380 | UJ | 520 | U | 480 | UJ | 550 | U |
| FLUORENE | 330 | 30 | 410 | U | 380 | UJ | 37 | J | 95 | J | 550 | U |
| 4-NITROANILINE | 800 | 89 | 1000 | U | 920 | UJ | 1200 | U | 1200 | UJ | 1300 | U |
| 4,6-DINITRO-2-METHYLPHENOL | 800 | 68 | 1000 | U | 920 | U | 1200 | U | 1200 | U | 1300 | U |
| N-NITROSODIPHENYLAMINE | 330 | 31 | 410 | U | 380 | U | 520 | U | 480 | U | 550 | U |
| 4-BROMOPHENYL-PHENYL ETHER | 330 | 96 | 410 | U | 380 | U | 520 | U | 480 | U | 550 | U |
| HEXACHLOROBENZENE | 330 | 95 | 410 | U | 380 | U | 520 | U | 480 | U | 550 | U |
| PENTACHLOROPHENOL | 800 | 287 | 1000 | U | 240 | J | 1200 | U | 1200 | U | 1300 | U |
| PHENANTHRENE | 330 | 45 | 43 | J | 190 | J | 260 | J | 920 | J | 230 | J |
| ANTHRACENE | 330 | 56 | 410 | U | 40 | J | 71 | J | 200 | J | 58 | J |
| CARBAZOLE | 330 | 73 | 410 | U | 380 | U | 32 | J | 480 | U | 550 | U |
| DI-N-BUTYL PHTHALATE | 330 | 43 | 410 | U | 380 | U | 520 | U | 31 | J | 550 | U |
| FLUORANTHENE | 330 | 41 | 110 | J | 240 | J | 490 | J | 1000 | J | 450 | J |
| PYRENE | 330 | 92 | 96 | J | 470 | | 560 | J | 2000 | J | 620 | |
| 3,3'-DICHLOROBENZIDINE | 330 | 80 | 410 | U | 380 | U | 520 | U | 480 | U | 550 | U |
| BUTYLBENZYL PHTHALATE | 330 | 86 | 410 | U | 380 | U | 520 | U | 480 | U | 550 | U |
| BENZO(A)ANTHRACENE | 330 | 29 | 45 | J | 180 | J | 260 | J | 680 | J | 260 | J |
| CHRYSENE | 330 | 27 | 65 | J | 220 | J | 340 | J | 780 | J | 350 | J |
| BIS(2-ETHYLHEXYL)PHTHALATE | 330 | 91 | 410 | U | 380 | U | 520 | U | 480 | U | 550 | U |
| DI-N-OCTYL PHTHALATE | 330 | 43 | 410 | U | 380 | U | 520 | U | 480 | U | 550 | U |
| BENZO(B)FLUORANTHENE | 330 | 142 | 54 | J | 220 | J | 310 | J | 660 | J | 550 | U |
| BENZO(K)FLUORANTHENE | 330 | 166 | 62 | J | 150 | J | 220 | J | 520 | J | 440 | J |
| BENZO(A)PYRENE | 330 | 31 | 55 | J | 190 | J | 290 | J | 690 | J | 300 | J |
| INDENO(1,2,3-CD)PYRENE | 330 | 67 | 41 | J | 140 | J | 200 | J | 550 | J | 200 | J |
| DIBENZ(A,H)ANTHRACENE | 330 | 81 | 410 | U | 380 | U | 100 | J | 310 | J | 87 | J |
| BENZO(G,H,I)PERYLENE | 330 | 66 | 50 | J | 160 | J | 230 | J | 630 | J | 240 | J |
| BENZYL ALCOHOL | 330 | 81 | 410 | U | 380 | U | 520 | U | 480 | U | 550 | U |
| BENZOIC ACID | 1700 | 69 | 2100 | U | 2000 | U | 2600 | U | 2500 | U | 2800 | U |
| % SOLIDS: | | | 80.0 | | 87.0 | | 64.0 | | 68.0 | | 60.0 | |
| DILUTION FACTOR: | | | 1.0 | | 1.0 | | 1.0 | | 1.0 | | 1.0 | |

* RESULT FROM DILUTION ANALYSIS

CTO 129, NSB NEW LONDON, GROTON, CONNECTICUT
LABORATORY: SOUTHWEST LABORATORY OF OKLAHOMA

TCL SEMIVOLATILE SOILS (UG/KG)

| CLIENT ID: | | | T3-A | | T3-B | | T4-A | | T4-B | | T5-A | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LABORATORY ID: | | | 20715.09 | | 20715.10 | | 20730.03 | | 20730.04 | | 20730.05 | |
| ANALYTE | CRQL | MDL | | | | | | | | | | |
| PHENOL | 330 | 75 | 390 | U | 500 | U | 380 | U | 400 | U | 480 | U |
| BIS(2-CHLOROETHYL)ETHER | 330 | 63 | 390 | U | 500 | U | 380 | U | 400 | U | 480 | U |
| 2-CHLOROPHENOL | 330 | 65 | 390 | U | 500 | U | 380 | U | 400 | U | 480 | U |
| 1,3-DICHLOROBENZENE | 330 | 57 | 390 | U | 500 | U | 380 | U | 400 | U | 480 | U |
| 1,4-DICHLOROBENZENE | 330 | 55 | 390 | U | 500 | U | 380 | U | 400 | U | 480 | U |
| 1,2-DICHLOROBENZENE | 330 | 65 | 390 | U | 500 | U | 380 | U | 400 | U | 480 | U |
| 2-METHYLPHENOL | 330 | 23 | 390 | U | 500 | U | 380 | U | 400 | U | 480 | U |
| BIS(2-CHLOROISOPROPYL)ETHER | 330 | 195 | 390 | U | 500 | U | 380 | U | 400 | U | 480 | U |
| 4-METHYLPHENOL | 330 | 60 | 390 | U | 500 | U | 380 | U | 400 | U | 480 | U |
| N-NITROSO-DI-N-PROPYLAMINE | 330 | 100 | 390 | U | 500 | U | 380 | U | 400 | U | 480 | U |
| HEXACHLOROETHANE | 330 | 52 | 390 | U | 500 | U | 380 | U | 400 | U | 480 | U |
| NITROBENZENE | 330 | 21 | 390 | U | 500 | U | 380 | U | 400 | U | 480 | U |
| ISOPHORONE | 330 | 46 | 390 | U | 500 | U | 380 | U | 400 | U | 480 | U |
| 2-NITROPHENOL | 330 | 29 | 390 | U | 500 | U | 380 | U | 400 | U | 480 | U |
| 2,4-DIMETHYLPHENOL | 330 | 78 | 390 | U | 500 | U | 380 | U | 400 | U | 480 | U |
| 2,4-DICHLOROPHENOL | 330 | 42 | 390 | U | 500 | U | 380 | U | 400 | U | 480 | U |
| 1,2,4-TRICHLOROBENZENE | 330 | 52 | 390 | U | 500 | U | 380 | U | 400 | U | 480 | U |
| NAPHTHALENE | 330 | 45 | 56 | J | 500 | U | 380 | U | 400 | U | 76 | J |
| 4-CHLOROANILINE | 330 | 89 | 390 | U | 500 | U | 380 | U | 400 | U | 480 | U |
| BIS(2-CHLOROETHOXY)METHANE | 330 | 35 | 390 | U | 500 | U | 380 | U | 400 | U | 480 | U |
| HEXACHLOROBUTADIENE | 330 | 78 | 390 | U | 500 | U | 380 | U | 400 | U | 480 | U |
| 4-CHLORO-3-METHYLPHENOL | 330 | 41 | 390 | U | 500 | U | 380 | U | 400 | U | 480 | U |
| 2-METHYLNAPHTHALENE | 330 | 29 | 55 | J | 500 | U | 380 | U | 400 | U | 480 | U |
| HEXACHLOROCYCLOPENTADIENE | 330 | 259 | 390 | U | 500 | U | 380 | U | 400 | U | 480 | U |
| 2,4,6-TRICHLOROPHENOL | 330 | 54 | 390 | U | 500 | U | 380 | U | 400 | U | 480 | U |
| 2,4,5-TRICHLOROPHENOL | 800 | 83 | 950 | U | 1200 | U | 930 | U | 960 | U | 1200 | U |
| 2-CHLORONAPHTHALENE | 330 | 33 | 390 | U | 500 | U | 380 | U | 400 | U | 480 | U |
| 2-NITROANILINE | 800 | 60 | 950 | U | 1200 | U | 930 | U | 960 | U | 1200 | U |
| DIMETHYL PHTHALATE | 330 | 25 | 390 | U | 500 | U | 380 | U | 400 | U | 480 | U |
| ACENAPHTHYLENE | 330 | 29 | 390 | | 70 | J | 380 | U | 400 | U | 34 | J |
| 2,6-DINITROTOLUENE | 330 | 39 | 390 | U | 500 | U | 380 | U | 400 | U | 480 | U |
| 3-NITROANILINE | 800 | 164 | 950 | U | 1200 | U | 930 | U | 960 | U | 1200 | U |
| ACENAPHTHENE | 330 | 37 | 58 | J | 500 | U | 380 | U | 400 | U | 220 | J |

CTO 129, NSB NEW LONDON, GROTON, CONNECTICUT
LABORATORY: SOUTHWEST LABORATORY OF OKLAHOMA

TCL SEMIVOLATILE SOILS (UG/KG)

| CLIENT ID: | | | T3-A | | T3-B | | T4-A | | T4-B | | T5-A | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LABORATORY ID: | | | 20715.09 | | 20715.10 | | 20730.03 | | 20730.04 | | 20730.05 | |
| ANALYTE | CRQL | MDL | | | | | | | | | | |
| 2,4-DINITROPHENOL | 800 | 87 | 950 | U | 1200 | UJ | 930 | UJ | 960 | UJ | 1200 | UJ |
| 4-NITROPHENOL | 800 | 68 | 950 | U | 1200 | U | 930 | U | 960 | U | 1200 | U |
| DIBENZOFURAN | 330 | 28 | 35 | J | 500 | U | 380 | U | 400 | U | 72 | J |
| 2,4-DINITROTOLUENE | 330 | 46 | 390 | U | 500 | U | 380 | U | 400 | U | 480 | U |
| DIETHYLPHTHALATE | 330 | 37 | 390 | U | 500 | U | 380 | U | 400 | U | 480 | U |
| 4-CHLOROPHENYL-PHENYL ETHER | 330 | 61 | 390 | U | 500 | U | 380 | U | 400 | U | 480 | U |
| FLUORENE | 330 | 30 | 160 | J | 38 | J | 21 | J | 400 | U | 29 | J |
| 4-NITROANILINE | 800 | 89 | 950 | U | 1200 | U | 930 | U | 960 | U | 1200 | U |
| 4,6-DINITRO-2-METHYLPHENOL | 800 | 68 | 950 | U | 1200 | U | 930 | U | 960 | U | 1200 | U |
| N-NITROSODIPHENYLAMINE | 330 | 31 | 390 | U | 500 | U | 380 | U | 400 | U | 480 | U |
| 4-BROMOPHENYL-PHENYL ETHER | 330 | 96 | 390 | U | 500 | U | 380 | U | 400 | U | 480 | U |
| HEXACHLOROBENZENE | 330 | 95 | 390 | U | 500 | U | 380 | U | 400 | U | 480 | U |
| PENTACHLOROPHENOL | 800 | 287 | 950 | U | 1200 | U | 930 | U | 960 | U | 1200 | U |
| PHENANTHRENE | 330 | 45 | 1800 | | 320 | J | 180 | J | 93 | J | 240 | J |
| ANTHRACENE | 330 | 56 | 450 | | 90 | J | 45 | J | 400 | U | 43 | J |
| CARBAZOLE | 330 | 73 | 57 | J | 32 | J | 25 | J | 400 | U | 130 | J |
| DI-N-BUTYL PHTHALATE | 330 | 43 | 390 | U | 63 | J | 26 | J | 23 | J | 44 | J |
| FLUORANTHENE | 330 | 41 | *4200 | | 890 | | 260 | J | 180 | J | 520 | |
| PYRENE | 330 | 92 | *4600 | | 910 | | 220 | J | 150 | J | 440 | J |
| 3,3'-DICHLOROBENZIDINE | 330 | 80 | 390 | U | 500 | U | 380 | U | 400 | U | 480 | U |
| BUTYLBENZYL PHTHALATE | 330 | 86 | 390 | U | 61 | J | 21 | J | 400 | U | 480 | U |
| BENZO(A)ANTHRACENE | 330 | 29 | *3000 | | 480 | J | 120 | J | 77 | J | 180 | J |
| CHRYSENE | 330 | 27 | *3700 | | 590 | | 150 | J | 90 | J | 280 | J |
| BIS(2-ETHYLHEXYL)PHTHALATE | 330 | 91 | 400 | U | 500 | U | 380 | U | 400 | U | 480 | U |
| DI-N-OCTYL PHTHALATE | 330 | 43 | 390 | U | 500 | U | 380 | U | 400 | U | 480 | U |
| BENZO(B)FLUORANTHENE | 330 | 142 | 390 | U | 420 | J | 130 | J | 85 | J | 210 | J |
| BENZO(K)FLUORANTHENE | 330 | 166 | *3700 | | 510 | | 130 | J | 75 | J | 270 | J |
| BENZO(A)PYRENE | 330 | 31 | 2600 | | 480 | J | 130 | J | 74 | J | 220 | J |
| INDENO(1,2,3-CD)PYRENE | 330 | 67 | 1000 | | 300 | J | 92 | J | 57 | J | 180 | J |
| DIBENZ(A,H)ANTHRACENE | 330 | 81 | 390 | U | 170 | J | 380 | U | 400 | U | 480 | U |
| BENZO(G,H,I)PERYLENE | 330 | 66 | 1100 | | 320 | J | 100 | J | 66 | J | 230 | J |
| BENZYL ALCOHOL | 330 | 81 | 390 | U | 500 | U | 380 | U | 400 | U | 480 | U |
| BENZOIC ACID | 1700 | 69 | 2000 | U | 2600 | U | 1800 | U | 2000 | U | 2400 | U |
| % SOLIDS: | | | 84.0 | | 66.0 | | 96.0 | | 83.0 | | 69.0 | |
| DILUTION FACTOR: | | | 1.0 | | 1.0 | | 1.0 | | 1.0 | | 1.0 | |

* RESULT FROM DILUTION ANALYSIS

CTO 129, NSB NEW LONDON, GROTON, CONNECTICUT
LABORATORY: SOUTHWEST LABORATORY OF OKLAHOMA

| CLIENT ID: | | | T5-B | | T6-A | | DUP-05 | | T6-B | | T7-A | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LABORATORY ID: | | | 20730.06 | | 20730.07 | | 20730.08 RE | | 20730.09 RE | | 20730.13 | |
| TCL SEMIVOLATILE SOILS (UG/KG) | | | | | | | | | | | | |
| ANALYTE | CRQL | MDL | | | | | | | | | | |
| PHENOL | 330 | 75 | 380 | U | 620 | U | 630 | UJ | 800 | UJ | 620 | U |
| BIS(2-CHLOROETHYL)ETHER | 330 | 63 | 380 | U | 620 | U | 630 | UJ | 800 | UJ | 620 | U |
| 2-CHLOROPHENOL | 330 | 65 | 380 | U | 620 | U | 630 | UJ | 800 | UJ | 620 | U |
| 1,3-DICHLOROBENZENE | 330 | 57 | 380 | U | 620 | U | 630 | UJ | 800 | UJ | 620 | U |
| 1,4-DICHLOROBENZENE | 330 | 55 | 380 | U | 620 | U | 630 | UJ | 42 | J | 620 | U |
| 1,2-DICHLOROBENZENE | 330 | 65 | 380 | U | 620 | U | 630 | UJ | 800 | UJ | 620 | U |
| 2-METHYLPHENOL | 330 | 23 | 380 | U | 620 | U | 630 | UJ | 800 | UJ | 620 | U |
| BIS(2-CHLOROISOPROPYL)ETHER | 330 | 195 | 380 | U | 620 | U | 630 | UJ | 800 | UJ | 620 | U |
| 4-METHYLPHENOL | 330 | 60 | 380 | U | 620 | U | 630 | UJ | 800 | UJ | 620 | U |
| N-NITROSO-DI-N-PROPYLAMINE | 330 | 100 | 380 | U | 620 | U | 630 | UJ | 800 | UJ | 620 | U |
| HEXACHLOROETHANE | 330 | 52 | 380 | U | 620 | U | 630 | UJ | 800 | UJ | 620 | U |
| NITROBENZENE | 330 | 21 | 380 | U | 620 | U | 630 | UJ | 800 | UJ | 620 | U |
| ISOPHORONE | 330 | 46 | 380 | U | 620 | U | 630 | UJ | 800 | UJ | 620 | U |
| 2-NITROPHENOL | 330 | 29 | 380 | U | 620 | U | 630 | UJ | 800 | UJ | 620 | U |
| 2,4-DIMETHYLPHENOL | 330 | 78 | 380 | U | 620 | U | 630 | UJ | 800 | UJ | 620 | U |
| 2,4-DICHLOROPHENOL | 330 | 42 | 380 | U | 620 | U | 630 | UJ | 800 | UJ | 620 | U |
| 1,2,4-TRICHLOROBENZENE | 330 | 52 | 380 | U | 620 | U | 630 | UJ | 800 | UJ | 620 | U |
| NAPHTHALENE | 330 | 45 | 380 | U | 620 | U | 630 | UJ | 800 | UJ | 620 | U |
| 4-CHLOROANILINE | 330 | 89 | 380 | U | 620 | U | 630 | UJ | 800 | UJ | 620 | U |
| BIS(2-CHLOROETHOXY)METHANE | 330 | 35 | 380 | U | 620 | U | 630 | UJ | 800 | UJ | 620 | U |
| HEXACHLOROBUTADIENE | 330 | 78 | 380 | U | 620 | U | 630 | UJ | 800 | UJ | 620 | U |
| 4-CHLORO-3-METHYLPHENOL | 330 | 41 | 380 | U | 620 | U | 630 | UJ | 800 | UJ | 620 | U |
| 2-METHYLNAPHTHALENE | 330 | 29 | 380 | U | 620 | U | 630 | UJ | 800 | UJ | 620 | U |
| HEXACHLOROCYCLOPENTADIENE | 330 | 259 | 380 | U | 620 | U | 630 | UJ | 800 | UJ | 620 | U |
| 2,4,6-TRICHLOROPHENOL | 330 | 54 | 380 | U | 620 | U | 630 | UJ | 800 | UJ | 620 | U |
| 2,4,5-TRICHLOROPHENOL | 800 | 83 | 930 | U | 1500 | U | 1500 | UJ | 2000 | UJ | 1500 | U |
| 2-CHLORONAPHTHALENE | 330 | 33 | 380 | U | 620 | U | 630 | UJ | 800 | UJ | 620 | U |
| 2-NITROANILINE | 800 | 60 | 930 | U | 1500 | U | 1500 | UJ | 2000 | UJ | 1500 | U |
| DIMETHYL PHTHALATE | 330 | 25 | 380 | U | 620 | U | 630 | UJ | 800 | UJ | 620 | U |
| ACENAPHTHYLENE | 330 | 29 | 380 | U | 52 | J | 630 | UJ | 800 | UJ | 620 | U |
| 2,6-DINITROTOLUENE | 330 | 39 | 380 | U | 620 | U | 630 | UJ | 800 | UJ | 620 | U |
| 3-NITROANILINE | 800 | 164 | 930 | U | 1500 | U | 1500 | UJ | 2000 | UJ | 1500 | U |
| ACENAPHTHENE | 330 | 37 | 380 | U | 620 | U | 630 | UJ | 110 | J | 77 | J |

CTO 129, NSB NEW LONDON, GROTON, CONNECTICUT
LABORATORY: SOUTHWEST LABORATORY OF OKLAHOMA

TCL SEMIVOLATILE SOILS (UG/KG)

| CLIENT ID: | | | T5-B | | T6-A | | DUP-05 | | T6-B | | T7-A | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LABORATORY ID: | | | 20730.06 | | 20730.07 | | 20730.08 RE | | 20730.09 RE | | 20730.13 | |
| ANALYTE | CRQL | MDL | | | | | | | | | | |
| 2,4-DINITROPHENOL | 800 | 87 | 930 | UJ | 1500 | UJ | 1500 | UJ | 2000 | UJ | 1500 | U |
| 4-NITROPHENOL | 800 | 68 | 930 | U | 1500 | U | 1500 | UJ | 2000 | UJ | 1500 | U |
| DIBENZOFURAN | 330 | 28 | 380 | U | 620 | U | 630 | UJ | 68 | J | 55 | J |
| 2,4-DINITROTOLUENE | 330 | 46 | 380 | U | 620 | U | 630 | UJ | 800 | UJ | 620 | U |
| DIETHYLPHTHALATE | 330 | 37 | 380 | U | 620 | U | 630 | UJ | 800 | UJ | 620 | U |
| 4-CHLOROPHENYL-PHENYL ETHER | 330 | 61 | 380 | U | 620 | U | 630 | UJ | 800 | UJ | 620 | U |
| FLUORENE | 330 | 30 | 380 | U | 620 | U | 630 | UJ | 69 | J | 90 | J |
| 4-NITROANILINE | 800 | 89 | 930 | U | 1500 | U | 1500 | UJ | 2000 | UJ | 1500 | U |
| 4,6-DINITRO-2-METHYLPHENOL | 800 | 68 | 930 | U | 1500 | U | 1500 | UJ | 2000 | U | 1500 | U |
| N-NITROSODIPHENYLAMINE | 330 | 31 | 380 | U | 620 | U | 630 | UJ | 800 | U | 620 | U |
| 4-BROMOPHENYL-PHENYL ETHER | 330 | 96 | 380 | U | 620 | U | 630 | UJ | 800 | U | 620 | U |
| HEXACHLOROBENZENE | 330 | 95 | 380 | U | 620 | U | 630 | UJ | 800 | U | 620 | U |
| PENTACHLOROPHENOL | 800 | 287 | 930 | U | 1500 | U | 1500 | UJ | 2000 | U | 1500 | U |
| PHENANTHRENE | 330 | 45 | 22 | J | 200 | J | 220 | J | 140 | J | 350 | J |
| ANTHRACENE | 330 | 56 | 380 | U | 56 | J | 34 | J | 800 | U | 79 | J |
| CARBAZOLE | 330 | 73 | 380 | U | 43 | J | 630 | UJ | 800 | U | 620 | U |
| DI-N-BUTYL PHTHALATE | 330 | 43 | 26 | J | 56 | J | 34 | J | 800 | U | 33 | J |
| FLUORANTHENE | 330 | 41 | 56 | J | 500 | J | 330 | J | 200 | J | 650 | |
| PYRENE | 330 | 92 | 46 | J | 470 | J | 900 | J | 370 | J | 530 | J |
| 3,3'-DICHLOROBENZIDINE | 330 | 80 | 380 | U | 620 | U | 630 | U | 800 | U | 620 | U |
| BUTYLBENZYL PHTHALATE | 330 | 86 | 380 | U | 50 | J | 630 | U | 800 | U | 620 | U |
| BENZO(A)ANTHRACENE | 330 | 29 | 25 | J | 190 | J | 280 | J | 140 | J | 390 | J |
| CHRYSENE | 330 | 27 | 38 | J | 300 | J | 430 | J | 230 | J | 410 | J |
| BIS(2-ETHYLHEXYL)PHTHALATE | 330 | 91 | 380 | U | 620 | U | 630 | U | 800 | U | 620 | U |
| DI-N-OCTYL PHTHALATE | 330 | 43 | 380 | U | 620 | U | 630 | U | 800 | U | 620 | U |
| BENZO(B)FLUORANTHENE | 330 | 142 | 44 | J | 220 | J | 390 | J | 240 | J | 430 | J |
| BENZO(K)FLUORANTHENE | 330 | 166 | 380 | U | 330 | J | 240 | J | 140 | J | 320 | J |
| BENZO(A)PYRENE | 330 | 31 | 30 | J | 230 | J | 310 | J | 160 | J | 430 | J |
| INDENO(1,2,3-CD)PYRENE | 330 | 67 | 22 | J | 210 | J | 330 | J | 220 | J | 360 | J |
| DIBENZ(A,H)ANTHRACENE | 330 | 81 | 380 | U | 86 | J | 630 | U | 800 | U | 130 | J |
| BENZO(G,H,I)PERYLENE | 330 | 66 | 27 | J | 250 | J | 420 | J | 290 | J | 350 | J |
| BENZYL ALCOHOL | 330 | 81 | 380 | U | 620 | U | 630 | U | 800 | U | 620 | U |
| BENZOIC ACID | 1700 | 69 | 2000 | U | 3200 | U | 3200 | U | 4100 | U | 3200 | U |
| % SOLIDS: | | | 86.0 | | 53.0 | | 52.0 | | 41.0 | | 53.0 | |
| DILUTION FACTOR: | | | 1.0 | | 1.0 | | 1.0 | | 1.0 | | 1.0 | |

* RESULT FROM DILUTION ANALYSIS

CTO 129, NSB NEW LONDON, GROTON, CONNECTICUT
LABORATORY: SOUTHWEST LABORATORY OF OKLAHOMA

CLIENT ID: T7-B
LABORATORY ID: 20730.14

TCL SEMIVOLATILE SOILS (UG/KG)

| ANALYTE | CRQL | MDL | | |
|---|---|---|---|---|
| PHENOL | 330 | 75 | 2200 | UR |
| BIS(2-CHLOROETHYL)ETHER | 330 | 63 | 2200 | UR |
| 2-CHLOROPHENOL | 330 | 65 | 2200 | UR |
| 1,3-DICHLOROBENZENE | 330 | 57 | 2200 | UR |
| 1,4-DICHLOROBENZENE | 330 | 55 | 2200 | UR |
| 1,2-DICHLOROBENZENE | 330 | 65 | 2200 | UR |
| 2-METHYLPHENOL | 330 | 23 | 2200 | UR |
| BIS(2-CHLOROISOPROPYL)ETHER | 330 | 195 | 2200 | UR |
| 4-METHYLPHENOL | 330 | 60 | 2200 | UR |
| N-NITROSO-DI-N-PROPYLAMINE | 330 | 100 | 2200 | UR |
| HEXACHLOROETHANE | 330 | 52 | 2200 | UR |
| NITROBENZENE | 330 | 21 | 2200 | UR |
| ISOPHORONE | 330 | 46 | 2200 | UR |
| 2-NITROPHENOL | 330 | 29 | 2200 | UR |
| 2,4-DIMETHYLPHENOL | 330 | 78 | 2200 | UR |
| 2,4-DICHLOROPHENOL | 330 | 42 | 2200 | UR |
| 1,2,4-TRICHLOROBENZENE | 330 | 52 | 2200 | UR |
| NAPHTHALENE | 330 | 45 | 2200 | UR |
| 4-CHLOROANILINE | 330 | 89 | 2200 | UR |
| BIS(2-CHLOROETHOXY)METHANE | 330 | 35 | 2200 | UR |
| HEXACHLOROBUTADIENE | 330 | 78 | 2200 | UR |
| 4-CHLORO-3-METHYLPHENOL | 330 | 41 | 2200 | UR |
| 2-METHYLNAPHTHALENE | 330 | 29 | 2200 | UR |
| HEXACHLOROCYCLOPENTADIENE | 330 | 259 | 2200 | UR |
| 2,4,6-TRICHLOROPHENOL | 330 | 54 | 2200 | UR |
| 2,4,5-TRICHLOROPHENOL | 800 | 83 | 5300 | UR |
| 2-CHLORONAPHTHALENE | 330 | 33 | 2200 | UR |
| 2-NITROANILINE | 800 | 60 | 5300 | UR |
| DIMETHYL PHTHALATE | 330 | 25 | 2200 | UR |
| ACENAPHTHYLENE | 330 | 29 | 2200 | UR |
| 2,6-DINITROTOLUENE | 330 | 39 | 2200 | UR |
| 3-NITROANILINE | 800 | 164 | 5300 | UR |
| ACENAPHTHENE | 330 | 37 | 380 | J |

CTO 129, NSB NEW LONDON, GROTON, CONNECTICUT
LABORATORY: SOUTHWEST LABORATORY OF OKLAHOMA

| | |
|---|---|
| CLIENT ID: | T7-B |
| LABORATORY ID: | 20730.14 |

TCL SEMIVOLATILE SOILS (UG/KG)

| ANALYTE | CRQL | MDL | | |
|---|---|---|---|---|
| 2,4-DINITROPHENOL | 800 | 87 | 5300 | UR |
| 4-NITROPHENOL | 800 | 68 | 5300 | UR |
| DIBENZOFURAN | 330 | 28 | 280 | J |
| 2,4-DINITROTOLUENE | 330 | 46 | 2200 | UR |
| DIETHYLPHTHALATE | 330 | 37 | 2200 | UR |
| 4-CHLOROPHENYL-PHENYL ETHER | 330 | 61 | 2200 | UR |
| FLUORENE | 330 | 30 | 340 | J |
| 4-NITROANILINE | 800 | 89 | 5300 | UR |
| 4,6-DINITRO-2-METHYLPHENOL | 800 | 68 | 5300 | UR |
| N-NITROSODIPHENYLAMINE | 330 | 31 | 2200 | UR |
| 4-BROMOPHENYL-PHENYL ETHER | 330 | 96 | 2200 | UR |
| HEXACHLOROBENZENE | 330 | 95 | 2200 | UR |
| PENTACHLOROPHENOL | 800 | 287 | 5300 | UR |
| PHENANTHRENE | 330 | 45 | 300 | J |
| ANTHRACENE | 330 | 56 | 2200 | UR |
| CARBAZOLE | 330 | 73 | 2200 | UR |
| DI-N-BUTYL PHTHALATE | 330 | 43 | 2200 | UR |
| FLUORANTHENE | 330 | 41 | 560 | J |
| PYRENE | 330 | 92 | 450 | J |
| 3,3'-DICHLOROBENZIDINE | 330 | 80 | 2200 | UR |
| BUTYLBENZYL PHTHALATE | 330 | 86 | 390 | J |
| BENZO(A)ANTHRACENE | 330 | 29 | 240 | J |
| CHRYSENE | 330 | 27 | 340 | J |
| BIS(2-ETHYLHEXYL)PHTHALATE | 330 | 91 | 4900 | UR |
| DI-N-OCTYL PHTHALATE | 330 | 43 | 2200 | UR |
| BENZO(B)FLUORANTHENE | 330 | 142 | 370 | J |
| BENZO(K)FLUORANTHENE | 330 | 166 | 270 | J |
| BENZO(A)PYRENE | 330 | 31 | 340 | J |
| INDENO(1,2,3-CD)PYRENE | 330 | 67 | 350 | J |
| DIBENZ(A,H)ANTHRACENE | 330 | 81 | 2200 | UR |
| BENZO(G,H,I)PERYLENE | 330 | 66 | 340 | J |
| BENZYL ALCOHOL | 330 | 81 | 2200 | UR |
| BENZOIC ACID | 1700 | 69 | 11000 | UR |

| | |
|---|---|
| % SOLIDS: | 15.0 |
| DILUTION FACTOR: | 1.0 |

* RESULT FROM DILUTION ANALYSIS

CTO 129, NSB NEW LONDON, GROTON, CONNECTICUT
LABORATORY: SOUTHWEST LABORATORY OF OKLAHOMA

| CLIENT ID: | | | T8-A | | T8-B | | T9-A | | T9-B | | T10-A | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LABORATORY ID: | | | 20748.13 | | 20748.14 | | 20748.15 | | 20748.16 | | 20748.17 | |
| TCL SEMIVOLATILE SOILS (UG/KG) | | | | | | | | | | | | |
| ANALYTE | CRQL | MDL | | | | | | | | | | |
| PHENOL | 330 | 75 | 690 | U | 730 | U | 570 | U | 700 | U | 470 | U |
| BIS(2-CHLOROETHYL)ETHER | 330 | 63 | 690 | U | 730 | U | 570 | U | 700 | U | 470 | U |
| 2-CHLOROPHENOL | 330 | 65 | 690 | U | 730 | U | 570 | U | 700 | U | 470 | U |
| 1,3-DICHLOROBENZENE | 330 | 57 | 690 | U | 730 | U | 570 | U | 700 | U | 470 | U |
| 1,4-DICHLOROBENZENE | 330 | 55 | 690 | U | 730 | U | 570 | U | 700 | U | 470 | U |
| 1,2-DICHLOROBENZENE | 330 | 65 | 690 | U | 730 | U | 570 | U | 700 | U | 470 | U |
| 2-METHYLPHENOL | 330 | 23 | 690 | U | 730 | U | 570 | U | 700 | U | 470 | U |
| 2,2'-OXYBIS(1-CHLOROPROPANE) | 330 | 195 | 690 | U | 730 | U | 570 | U | 700 | U | 470 | U |
| 4-METHYLPHENOL | 330 | 60 | 690 | U | 730 | U | 43 | J | 700 | U | 470 | U |
| N-NITROSO-DI-N-PROPYLAMINE | 330 | 100 | 690 | U | 730 | U | 570 | U | 700 | U | 470 | U |
| HEXACHLOROETHANE | 330 | 52 | 690 | U | 730 | U | 570 | U | 700 | U | 470 | U |
| NITROBENZENE | 330 | 21 | 690 | U | 730 | U | 570 | U | 700 | U | 470 | U |
| ISOPHORONE | 330 | 46 | 690 | U | 730 | U | 570 | U | 700 | U | 470 | U |
| 2-NITROPHENOL | 330 | 29 | 690 | U | 730 | U | 570 | U | 700 | U | 470 | U |
| 2,4-DIMETHYLPHENOL | 330 | 78 | 690 | U | 210 | J | 570 | U | 700 | U | 470 | U |
| 2,4-DICHLOROPHENOL | 330 | 42 | 690 | U | 730 | U | 570 | U | 700 | U | 470 | U |
| 1,2,4-TRICHLOROBENZENE | 330 | 52 | 690 | U | 730 | U | 570 | U | 700 | U | 470 | U |
| NAPHTHALENE | 330 | 45 | 57 | J | 730 | U | 77 | J | 700 | U | 73 | J |
| 4-CHLOROANILINE | 330 | 89 | 690 | U | 730 | U | 570 | U | 700 | U | 470 | U |
| BIS(2-CHLOROETHOXY)METHANE | 330 | 35 | 690 | U | 730 | U | 570 | U | 700 | U | 470 | U |
| HEXACHLOROBUTADIENE | 330 | 78 | 690 | U | 730 | U | 570 | U | 700 | U | 470 | U |
| 4-CHLORO-3-METHYLPHENOL | 330 | 41 | 690 | U | 730 | U | 570 | U | 700 | U | 470 | U |
| 2-METHYLNAPHTHALENE | 330 | 29 | 49 | J | 730 | U | 51 | J | 700 | U | 40 | J |
| HEXACHLOROCYCLOPENTADIENE | 330 | 259 | 690 | U | 730 | U | 570 | U | 700 | U | 470 | U |
| 2,4,6-TRICHLOROPHENOL | 330 | 54 | 690 | U | 730 | U | 570 | U | 700 | U | 470 | U |
| 2,4,5-TRICHLOROPHENOL | 800 | 83 | 1700 | U | 1800 | U | 1400 | U | 1700 | U | 1100 | U |
| 2-CHLORONAPHTHALENE | 330 | 33 | 690 | U | 730 | U | 570 | U | 700 | U | 470 | U |
| 2-NITROANILINE | 800 | 60 | 1700 | U | 1800 | U | 1400 | U | 1700 | U | 1100 | U |
| DIMETHYL PHTHALATE | 330 | 25 | 690 | U | 730 | U | 570 | U | 700 | U | 470 | U |
| ACENAPHTHYLENE | 330 | 29 | 690 | U | 730 | U | 570 | U | 700 | U | 470 | U |
| 2,6-DINITROTOLUENE | 330 | 39 | 690 | U | 730 | U | 570 | U | 700 | U | 470 | U |
| 3-NITROANILINE | 800 | 164 | 1700 | U | 1800 | U | 1400 | U | 1700 | U | 1100 | U |
| ACENAPHTHENE | 330 | 37 | 35 | J | 730 | U | 48 | J | 700 | U | 110 | J |

CTO 129, NSB NEW LONDON, GROTON, CONNECTICUT
LABORATORY: SOUTHWEST LABORATORY OF OKLAHOMA

| CLIENT ID: | | | T8-A | | T8-B | | T9-A | | T9-B | | T10-A | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LABORATORY ID: | | | 20748.13 | | 20748.14 | | 20748.15 | | 20748.16 | | 20748.17 | |
| TCL SEMIVOLATILE SOILS (UG/KG) | | | | | | | | | | | | |
| ANALYTE | CRQL | MDL | | | | | | | | | | |
| 2,4-DINITROPHENOL | 800 | 87 | 1700 | U | 1800 | U | 1400 | U | 1700 | U | 1100 | U |
| 4-NITROPHENOL | 800 | 68 | 1700 | U | 1800 | U | 1400 | U | 1700 | U | 1100 | U |
| DIBENZOFURAN | 330 | 28 | 40 | J | 730 | U | 35 | J | 700 | U | 62 | J |
| 2,4-DINITROTOLUENE | 330 | 46 | 690 | U | 730 | U | 570 | U | 700 | U | 470 | U |
| DIETHYL PHTHALATE | 330 | 37 | 690 | U | 730 | U | 570 | U | 700 | U | 470 | U |
| 4-CHLOROPHENYL-PHENYLETHER | 330 | 61 | 690 | U | 730 | U | 570 | U | 700 | U | 470 | U |
| FLUORENE | 330 | 30 | 79 | J | 730 | U | 47 | J | 700 | U | 83 | J |
| 4-NITROANILINE | 800 | 89 | 1700 | U | 1800 | U | 1400 | U | 1700 | U | 1100 | U |
| 4,6-DINITRO-2-METHYLPHENOL | 800 | 68 | 1700 | U | 1800 | U | 1400 | U | 1700 | U | 1100 | U |
| N-NITROSODIPHENYLAMINE | 330 | 31 | 690 | U | 730 | U | 570 | U | 700 | U | 470 | U |
| 4-BROMOPHENYL-PHENYLETHER | 330 | 96 | 690 | U | 730 | U | 570 | U | 700 | U | 470 | U |
| HEXACHLOROBENZENE | 330 | 95 | 690 | U | 730 | U | 570 | U | 700 | U | 470 | U |
| PENTACHLOROPHENOL | 800 | 287 | 1700 | U | 1800 | U | 1400 | U | 1700 | U | 1100 | U |
| PHENANTHRENE | 330 | 45 | 260 | J | 180 | J | 160 | J | 140 | J | 280 | J |
| ANTHRACENE | 330 | 56 | 71 | J | 38 | J | 34 | J | 52 | J | 48 | J |
| CARBAZOLE | 330 | 56 | 690 | U | 730 | U | 570 | U | 700 | U | 470 | U |
| DI-N-BUTYL PHTHALATE | 330 | 43 | 690 | U | 730 | U | 570 | U | 700 | U | 470 | U |
| FLUORANTHENE | 330 | 41 | 520 | J | 310 | J | 160 | J | 220 | J | 490 | |
| PYRENE | 330 | 92 | 1300 | | 630 | J | 430 | J | 690 | J | 720 | |
| BUTYLBENZYL PHTHALATE | 330 | 86 | 690 | U | 730 | U | 570 | UJ | 700 | U | 36 | J |
| 3,3'-DICHLOROBENZIDINE | 330 | 80 | 690 | U | 730 | U | 570 | UJ | 700 | U | 470 | U |
| BENZO(A)ANTHRACENE | 330 | 29 | 370 | J | 210 | J | 140 | J | 230 | J | 290 | J |
| CHRYSENE | 330 | 27 | 490 | J | 280 | J | 230 | J | 260 | J | 360 | J |
| BIS(2-ETHYLHEXYL)PHTHALATE | 330 | 91 | 690 | U | 730 | U | 570 | U | 700 | U | 470 | U |
| DI-N-OCTYL PHTHALATE | 330 | 43 | 690 | UJ | 730 | U | 570 | UJ | 700 | U | 470 | U |
| BENZO(B)FLUORANTHENE | 330 | 142 | 370 | J | 210 | J | 130 | J | 240 | J | 270 | J |
| BENZO(K)FLUORANTHENE | 330 | 166 | 350 | J | 210 | J | 140 | J | 200 | J | 300 | J |
| BENZO(A)PYRENE | 330 | 31 | 340 | J | 210 | J | 160 | J | 260 | J | 320 | J |
| INDENO(1,2,3-CD)PYRENE | 330 | 67 | 260 | J | 150 | J | 140 | J | 170 | J | 260 | J |
| DIBENZ(A,H)ANTHRACENE | 330 | 81 | 690 | UJ | 730 | U | 72 | J | 700 | U | 470 | U |
| BENZO(G,H,I)PERYLENE | 330 | 66 | 300 | J | 180 | J | 220 | J | 190 | J | 290 | J |
| BENZYL ALCOHOL | 330 | 81 | 690 | UJ | 730 | U | 570 | UJ | 700 | U | 470 | U |
| BENZOIC ACID | 1700 | 69 | 3500 | U | 3800 | U | 3000 | U | 3600 | U | 2500 | U |
| % SOLIDS: | | | 48.0 | | 45.0 | | 58.0 | | 47.0 | | 70.0 | |
| DILUTION FACTOR: | | | 1.0 | | 1.0 | | 1.0 | | 1.0 | | 1.0 | |

CTO 129, NSB NEW LONDON, GROTON, CONNECTICUT
LABORATORY: SOUTHWEST LABORATORY OF OKLAHOMA

| CLIENT ID: | | | T10-B | | QW-1 | |
|---|---|---|---|---|---|---|
| LABORATORY ID: | | | 20748.18 | | 20748.19 | |

TCL SEMIVOLATILE SOILS (UG/KG)

| ANALYTE | CRQL | MDL | | | | |
|---|---|---|---|---|---|---|
| PHENOL | 330 | 75 | 730 | U | 420 | U |
| BIS(2-CHLOROETHYL)ETHER | 330 | 63 | 730 | U | 420 | U |
| 2-CHLOROPHENOL | 330 | 65 | 730 | U | 420 | U |
| 1,3-DICHLOROBENZENE | 330 | 57 | 730 | U | 420 | U |
| 1,4-DICHLOROBENZENE | 330 | 55 | 730 | U | 420 | U |
| 1,2-DICHLOROBENZENE | 330 | 65 | 730 | U | 420 | U |
| 2-METHYLPHENOL | 330 | 23 | 730 | U | 420 | U |
| 2,2'-OXYBIS(1-CHLOROPROPANE) | 330 | 195 | 730 | U | 420 | U |
| 4-METHYLPHENOL | 330 | 60 | 730 | U | 420 | U |
| N-NITROSO-DI-N-PROPYLAMINE | 330 | 100 | 730 | U | 420 | U |
| HEXACHLOROETHANE | 330 | 52 | 730 | U | 420 | U |
| NITROBENZENE | 330 | 21 | 730 | U | 420 | U |
| ISOPHORONE | 330 | 46 | 730 | U | 420 | U |
| 2-NITROPHENOL | 330 | 29 | 730 | U | 420 | U |
| 2,4-DIMETHYLPHENOL | 330 | 78 | 730 | U | 420 | U |
| 2,4-DICHLOROPHENOL | 330 | 42 | 730 | U | 420 | U |
| 1,2,4-TRICHLOROBENZENE | 330 | 52 | 730 | U | 420 | U |
| NAPHTHALENE | 330 | 45 | 730 | U | 39 | J |
| 4-CHLOROANILINE | 330 | 89 | 730 | U | 420 | U |
| BIS(2-CHLOROETHOXY)METHANE | 330 | 35 | 730 | U | 420 | U |
| HEXACHLOROBUTADIENE | 330 | 78 | 730 | U | 420 | U |
| 4-CHLORO-3-METHYLPHENOL | 330 | 41 | 730 | U | 420 | U |
| 2-METHYLNAPHTHALENE | 330 | 29 | 730 | U | 420 | U |
| HEXACHLOROCYCLOPENTADIENE | 330 | 259 | 730 | U | 420 | U |
| 2,4,6-TRICHLOROPHENOL | 330 | 54 | 730 | U | 420 | U |
| 2,4,5-TRICHLOROPHENOL | 800 | 83 | 1800 | U | 1000 | U |
| 2-CHLORONAPHTHALENE | 330 | 33 | 730 | U | 420 | U |
| 2-NITROANILINE | 800 | 60 | 1800 | U | 1000 | U |
| DIMETHYL PHTHALATE | 330 | 25 | 730 | U | 420 | U |
| ACENAPHTHYLENE | 330 | 29 | 730 | U | 420 | U |
| 2,6-DINITROTOLUENE | 330 | 39 | 730 | U | 420 | U |
| 3-NITROANILINE | 800 | 164 | 1800 | U | 1000 | U |
| ACENAPHTHENE | 330 | 37 | 730 | U | 420 | U |

CTO 129, NSB NEW LONDON, GROTON, CONNECTICUT
LABORATORY: SOUTHWEST LABORATORY OF OKLAHOMA

| CLIENT ID: | | | T10-B | | QW-1 | |
|---|---|---|---|---|---|---|
| LABORATORY ID: | | | 20748.18 | | 20748.19 | |

TCL SEMIVOLATILE SOILS (UG/KG)

| ANALYTE | CRQL | MDL | | | | |
|---|---|---|---|---|---|---|
| 2,4-DINITROPHENOL | 800 | 87 | 1800 | U | 1000 | U |
| 4-NITROPHENOL | 800 | 68 | 1800 | U | 1000 | U |
| DIBENZOFURAN | 330 | 28 | 730 | U | 420 | U |
| 2,4-DINITROTOLUENE | 330 | 46 | 730 | U | 420 | U |
| DIETHYL PHTHALATE | 330 | 37 | 730 | U | 420 | U |
| 4-CHLOROPHENYL-PHENYLETHER | 330 | 61 | 730 | U | 420 | U |
| FLUORENE | 330 | 30 | 730 | U | 420 | U |
| 4-NITROANILINE | 800 | 89 | 1800 | U | 1000 | U |
| 4,6-DINITRO-2-METHYLPHENOL | 800 | 68 | 1800 | U | 1000 | U |
| N-NITROSODIPHENYLAMINE | 330 | 31 | 730 | U | 420 | U |
| 4-BROMOPHENYL-PHENYLETHER | 330 | 96 | 730 | U | 420 | U |
| HEXACHLOROBENZENE | 330 | 95 | 730 | U | 420 | U |
| PENTACHLOROPHENOL | 800 | 287 | 1800 | U | 1000 | U |
| PHENANTHRENE | 330 | 45 | 79 | J | 190 | J |
| ANTHRACENE | 330 | 56 | 730 | U | 59 | J |
| CARBAZOLE | 330 | 56 | 730 | U | 420 | U |
| DI-N-BUTYL PHTHALATE | 330 | 43 | 730 | U | 420 | U |
| FLUORANTHENE | 330 | 41 | 100 | J | 620 | |
| PYRENE | 330 | 92 | 320 | J | 830 | |
| BUTYLBENZYL PHTHALATE | 330 | 86 | 730 | U | 420 | U |
| 3,3'-DICHLOROBENZIDINE | 330 | 80 | 730 | U | 420 | U |
| BENZO(A)ANTHRACENE | 330 | 29 | 90 | J | 400 | J |
| CHRYSENE | 330 | 27 | 110 | J | 430 | |
| BIS(2-ETHYLHEXYL)PHTHALATE | 330 | 91 | 3500 | J | 420 | U |
| DI-N-OCTYL PHTHALATE | 330 | 43 | 730 | U | 420 | U |
| BENZO(B)FLUORANTHENE | 330 | 142 | 110 | J | 260 | J |
| BENZO(K)FLUORANTHENE | 330 | 166 | 120 | J | 390 | J |
| BENZO(A)PYRENE | 330 | 31 | 110 | J | 410 | J |
| INDENO(1,2,3-CD)PYRENE | 330 | 67 | 86 | J | 290 | J |
| DIBENZ(A,H)ANTHRACENE | 330 | 81 | 730 | U | 420 | U |
| BENZO(G,H,I)PERYLENE | 330 | 66 | 730 | U | 290 | J |
| BENZYL ALCOHOL | 330 | 81 | 730 | U | 420 | U |
| BENZOIC ACID | 1700 | 69 | 3800 | U | 2200 | U |
| % SOLIDS: | | | 45.0 | | 78.0 | |
| DILUTION FACTOR: | | | 1.0 | | 1.0 | |

CTO 129, NSB NEW LONDON, GROTON, CONNECTICUT
LABORATORY: SOUTHWEST LABORATORY OF OKLAHOMA

TCL PESTICIDE/PCB SOILS (UG/KG)

| CLIENT ID: | | | T1-A | | T1-B | | T2-A | | DUP-03 | | T2-B | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LABORATORY ID: | | | 20715.04 | | 20715.05 | | 20715.06 | | 20715.07 | | 20715.08 | |
| ANALYTE | CRQL | MDL | | | | | | | | | | |
| ALPHA-BHC | 1.7 | 0.07 | 2.1 | U | 2.0 | U | 2.7 | U | 2.5 | U | 2.8 | U |
| BETA-BHC | 1.7 | 0.15 | 2.1 | U | 2.0 | U | 2.7 | U | 2.5 | U | 2.8 | U |
| DELTA-BHC | 1.7 | 0.07 | 2.1 | U | 2.0 | U | 2.7 | U | 2.5 | U | 2.8 | U |
| GAMMA-BHC (LINDANE) | 1.7 | 0.07 | 2.1 | U | 2.0 | U | 2.7 | U | 2.5 | U | 2.8 | U |
| HEPTACHLOR | 1.7 | 0.16 | 2.8 | J | 2.0 | U | 2.7 | U | 2.5 | U | 2.8 | U |
| ALDRIN | 1.7 | 0.07 | 2.1 | U | 2.0 | U | 2.7 | U | 2.5 | U | 2.8 | U |
| HEPTACHLOR EPOXIDE | 1.7 | 0.05 | 3.7 | J | 4.5 | | 2.7 | U | 2.5 | U | 3.7 | J |
| ENDOSULFAN I | 1.7 | 0.08 | 2.4 | J | 2.1 | J | 2.7 | U | 2.5 | U | 2.8 | U |
| DIELDRIN | 3.3 | 0.24 | 4.1 | U | 3.8 | U | 5.2 | U | 4.9 | U | 5.5 | U |
| 4,4'-DDE | 3.3 | 0.10 | 4.1 | U | 3.8 | U | 30 | J | 13 | J | 19 | J |
| ENDRIN | 3.3 | 0.15 | 4.1 | U | 3.8 | U | 5.2 | U | 4.9 | U | 5.5 | U |
| ENDOSULFAN II | 3.3 | 0.13 | 4.1 | U | 3.8 | U | 31 | J | 4.9 | UJ | 6.9 | J |
| 4,4'-DDD | 3.3 | 0.09 | 9.0 | J | 12 | R | *650 | J | *250 | J | *210 | J |
| ENDOSULFAN SULFATE | 3.3 | 2.9 | 4.1 | U | 3.8 | U | 5.2 | U | 4.9 | U | 5.5 | U |
| 4,4'-DDT | 3.3 | 0.14 | 15 | R | 45 | | 44 | | 60 | J | *88 | J |
| METHOXYCHLOR | 17 | 0.66 | 21 | U | 20 | U | 27 | U | 25 | U | 28 | U |
| ENDRIN KETONE | 3.3 | 0.12 | 4.1 | U | 3.8 | U | 5.2 | U | 4.9 | U | 5.5 | U |
| ENDRIN ALDEHYDE | 3.3 | 0.10 | 4.1 | U | 5.6 | J | 16 | J | 4.9 | UJ | 5.5 | U |
| ALPHA-CHLORDANE | 1.7 | 0.12 | 4.8 | J | 2.9 | J | 2.7 | U | 2.5 | U | 7.6 | |
| GAMMA-CHLORDANE | 1.7 | 0.09 | 5.7 | J | 3.7 | J | 4.8 | J | 2.5 | UJ | 5.1 | |
| TOXAPHENE | 170 | 1.0 | 210 | U | 200 | U | 270 | U | 250 | U | 280 | U |
| AROCLOR-1016 | 33 | 1.0 | 41 | U | 38 | U | 52 | U | 49 | U | 55 | U |
| AROCLOR-1221 | 67 | 1.3 | 84 | U | 77 | U | 100 | U | 99 | U | 110 | U |
| AROCLOR-1232 | 33 | 0.33 | 41 | U | 38 | U | 52 | U | 49 | U | 55 | U |
| AROCLOR-1242 | 33 | 0.33 | 41 | U | 38 | U | 52 | U | 49 | U | 55 | U |
| AROCLOR-1248 | 33 | 1.3 | 41 | U | 38 | U | 52 | U | 49 | U | 55 | U |
| AROCLOR-1254 | 33 | 1.7 | 41 | U | 38 | U | 52 | U | 49 | U | 55 | U |
| AROCLOR-1260 | 33 | 1.3 | 150 | J | 180 | | 52 | U | 49 | U | 55 | U |
| % SOLIDS: | | | 80.0 | | 87.0 | | 64.0 | | 68.0 | | 60.0 | |
| DILUTION FACTOR: | | | 1.0 | | 1.0 | | 1.0 | | 1.0 | | 1.0 | |

* RESULT FROM DILUTION ANALYSIS

CTO 129, NSB NEW LONDON, GROTON, CONNECTICUT
LABORATORY: SOUTHWEST LABORATORY OF OKLAHOMA

TCL PESTICIDE/PCB SOILS (UG/KG)

| CLIENT ID: | | | T3-A | | T3-B | | T4-A | | T4-B | | T5-A | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LABORATORY ID: | | | 20715.09 | | 20715.10 | | 20730.03 | | 20730.04 | | 20730.05 | |
| ANALYTE | CRQL | MDL | | | | | | | | | | |
| ALPHA-BHC | 1.7 | 0.07 | 20 | U | 26 | U | 2.0 | U | 2.0 | U | 12 | U |
| BETA-BHC | 1.7 | 0.15 | 20 | U | 26 | U | 2.0 | UJ | 2.0 | UJ | 2.7 | J |
| DELTA-BHC | 1.7 | 0.07 | 20 | U | 26 | U | 2.0 | U | 2.0 | U | 4.2 | J |
| GAMMA-BHC (LINDANE) | 1.7 | 0.07 | 20 | U | 26 | U | 2.0 | U | 2.0 | U | 3.5 | J |
| HEPTACHLOR | 1.7 | 0.16 | 20 | U | 26 | U | 2.0 | U | 2.0 | U | 4.5 | J |
| ALDRIN | 1.7 | 0.07 | 20 | U | 26 | U | 2.0 | U | 2.0 | U | 3.2 | J |
| HEPTACHLOR EPOXIDE | 1.7 | 0.05 | 20 | U | 26 | U | 2.0 | U | 2.0 | U | 2.2 | J |
| ENDOSULFAN I | 1.7 | 0.08 | 11 | J | 26 | U | 2.0 | U | 2.0 | U | 12 | U |
| DIELDRIN | 3.3 | 0.24 | 39 | U | 50 | U | 3.8 | U | 4.0 | U | 8.4 | J |
| 4,4'-DDE | 3.3 | 0.10 | 260 | | 330 | | 3.8 | U | 4.0 | U | 57 | J |
| ENDRIN | 3.3 | 0.15 | 39 | U | 50 | U | 3.8 | U | 4.0 | U | 16 | J |
| ENDOSULFAN II | 3.3 | 0.13 | 39 | U | 50 | U | 3.8 | U | 4.0 | U | 24 | U |
| 4,4'-DDD | 3.3 | 0.09 | 390 | | *1400 | | 3.8 | U | 4.5 | J | *1300 | |
| ENDOSULFAN SULFATE | 3.3 | 2.9 | 14 | J | 50 | U | 3.8 | U | 4.0 | U | 6.9 | J |
| 4,4'-DDT | 3.3 | 0.14 | *890 | | *2900 | | 3.8 | U | 4.0 | U | 380 | |
| METHOXYCHLOR | 17 | 0.66 | 200 | U | 260 | U | 20 | U | 20 | U | 38 | J |
| ENDRIN KETONE | 3.3 | 0.12 | 39 | U | 50 | U | 3.8 | U | 4.0 | U | 20 | J |
| ENDRIN ALDEHYDE | 3.3 | 0.10 | 39 | U | 16 | J | 3.8 | UJ | 4.0 | UJ | 10 | J |
| ALPHA-CHLORDANE | 1.7 | 0.12 | 4.4 | J | 12 | J | 2.0 | U | 2.0 | U | 13 | |
| GAMMA-CHLORDANE | 1.7 | 0.09 | 20 | U | 13 | J | 2.0 | U | 2.0 | U | 8.7 | J |
| TOXAPHENE | 170 | 1.0 | 2000 | U | 2600 | U | 200 | U | 200 | U | 1200 | U |
| AROCLOR-1016 | 33 | 1.0 | 390 | U | 500 | U | 38 | U | 40 | U | 240 | U |
| AROCLOR-1221 | 67 | 1.3 | 800 | U | 1000 | U | 78 | U | 81 | U | 490 | U |
| AROCLOR-1232 | 33 | 0.33 | 390 | U | 500 | U | 38 | U | 40 | U | 240 | U |
| AROCLOR-1242 | 33 | 0.33 | 390 | U | 500 | U | 38 | U | 40 | U | 240 | U |
| AROCLOR-1248 | 33 | 1.3 | 390 | U | 500 | U | 38 | U | 40 | U | 240 | U |
| AROCLOR-1254 | 33 | 1.7 | 390 | U | 500 | U | 38 | U | 40 | U | 240 | U |
| AROCLOR-1260 | 33 | 1.3 | 390 | U | 500 | U | 38 | U | 40 | U | 240 | U |
| % SOLIDS: | | | 84.0 | | 66.0 | | 96.0 | | 83.0 | | 69.0 | |
| DILUTION FACTOR: | | | 10.0 | | 10.0 | | 1.0 | | 1.0 | | 5.0 | |

* RESULT FROM DILUTION ANALYSIS

CTO 129, NSB NEW LONDON, GROTON, CONNECTICUT
LABORATORY: SOUTHWEST LABORATORY OF OKLAHOMA

TCL PESTICIDE/PCB SOILS (UG/KG)

| CLIENT ID: | | | T5-B | | T6-A | | DUP-05 | | T6-B | | T7-A | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LABORATORY ID: | | | 20730.06 | | 20730.07 | | 20730.08 | | 20730.09 | | 20730.13 | |
| ANALYTE | CRQL | MDL | | | | | | | | | | |
| ALPHA-BHC | 1.7 | 0.07 | 2.0 | U | 3.2 | U | 3.3 | U | 4.1 | U | 3.2 | U |
| BETA-BHC | 1.7 | 0.15 | 2.0 | UJ | 3.2 | U | 3.3 | U | 4.1 | U | 3.2 | U |
| DELTA-BHC | 1.7 | 0.07 | 2.0 | U | 3.2 | U | 3.3 | U | 4.1 | U | 3.2 | U |
| GAMMA-BHC (LINDANE) | 1.7 | 0.07 | 2.0 | U | 3.2 | U | 3.3 | U | 4.1 | U | 3.2 | U |
| HEPTACHLOR | 1.7 | 0.16 | 2.0 | U | 3.2 | U | 3.3 | U | 4.1 | U | 3.2 | U |
| ALDRIN | 1.7 | 0.07 | 2.0 | U | 3.2 | U | 3.3 | U | 4.1 | U | 3.2 | U |
| HEPTACHLOR EPOXIDE | 1.7 | 0.05 | 2.0 | U | 3.2 | U | 3.3 | U | 4.1 | U | 3.2 | U |
| ENDOSULFAN I | 1.7 | 0.08 | 2.0 | U | 3.2 | U | 3.3 | U | 4.1 | U | 3.2 | U |
| DIELDRIN | 3.3 | 0.24 | 3.8 | U | 26 | | 23 | | 8.0 | U | 6.2 | U |
| 4,4'-DDE | 3.3 | 0.10 | 3.8 | U | 10 | J | 15 | J | 38 | | 6.2 | U |
| ENDRIN | 3.3 | 0.15 | 3.8 | U | 8.2 | J | 7.8 | J | 8.0 | U | 6.2 | U |
| ENDOSULFAN II | 3.3 | 0.13 | 3.8 | U | 48 | R | 50 | R | 17 | R | 6.2 | U |
| 4,4'-DDD | 3.3 | 0.09 | 3.8 | U | 46 | R | 49 | R | *410 | | 6.2 | U |
| ENDOSULFAN SULFATE | 3.3 | 2.9 | 3.8 | U | 9.7 | R | 10 | R | 8.0 | U | 6.2 | U |
| 4,4'-DDT | 3.3 | 0.14 | 4.4 | J | 55 | R | 39 | R | 8.0 | U | 6.2 | U |
| METHOXYCHLOR | 17 | 0.66 | 20 | U | 31 | R | 39 | R | 41 | U | 32 | U |
| ENDRIN KETONE | 3.3 | 0.12 | 3.8 | U | 5.4 | R | 12 | R | 8.0 | U | 6.2 | U |
| ENDRIN ALDEHYDE | 3.3 | 0.10 | 3.8 | UJ | 22 | R | 23 | R | 8.0 | U | 6.2 | U |
| ALPHA-CHLORDANE | 1.7 | 0.12 | 2.0 | U | 29 | | 29 | | 15 | P | 3.2 | U |
| GAMMA-CHLORDANE | 1.7 | 0.09 | 2.0 | U | 21 | J | 23 | J | 11 | J | 3.2 | U |
| TOXAPHENE | 170 | 1.0 | 200 | U | 320 | U | 330 | U | 410 | U | 320 | U |
| AROCLOR-1016 | 33 | 1.0 | 38 | U | 62 | U | 63 | U | 80 | U | 62 | U |
| AROCLOR-1221 | 67 | 1.3 | 78 | U | 130 | U | 130 | U | 160 | U | 130 | U |
| AROCLOR-1232 | 33 | 0.33 | 38 | U | 62 | U | 63 | U | 80 | U | 62 | U |
| AROCLOR-1242 | 33 | 0.33 | 38 | U | 62 | U | 63 | U | 80 | U | 62 | U |
| AROCLOR-1248 | 33 | 1.3 | 38 | U | 62 | U | 63 | U | 80 | U | 62 | U |
| AROCLOR-1254 | 33 | 1.7 | 38 | U | 62 | U | 63 | U | 80 | U | 62 | U |
| AROCLOR-1260 | 33 | 1.3 | 38 | U | 1400 | | 1500 | | 530 | | 82 | J |
| % SOLIDS: | | | 86.0 | | 53.0 | | 52.0 | | 41.0 | | 53.0 | |
| DILUTION FACTOR: | | | 1.0 | | 1.0 | | 1.0 | | 1.0 | | 1.0 | |

* RESULT FROM DILUTION ANALYSIS

CTO 129, NSB NEW LONDON, GROTON, CONNECTICUT
LABORATORY: SOUTHWEST LABORATORY OF OKLAHOMA

CLIENT ID: T7-B
LABORATORY ID: 20730.14

TCL PESTICIDE/PCB SOILS (UG/KG)

| ANALYTE | CRQL | MDL | | |
|---|---|---|---|---|
| ALPHA-BHC | 1.7 | 0.07 | 11 | UR |
| BETA-BHC | 1.7 | 0.15 | 11 | UR |
| DELTA-BHC | 1.7 | 0.07 | 11 | UR |
| GAMMA-BHC (LINDANE) | 1.7 | 0.07 | 11 | UR |
| HEPTACHLOR | 1.7 | 0.16 | 11 | UR |
| ALDRIN | 1.7 | 0.07 | 11 | UR |
| HEPTACHLOR EPOXIDE | 1.7 | 0.05 | 11 | UR |
| ENDOSULFAN I | 1.7 | 0.08 | 11 | UR |
| DIELDRIN | 3.3 | 0.24 | 22 | UR |
| 4,4'-DDE | 3.3 | 0.10 | 140 | J |
| ENDRIN | 3.3 | 0.15 | 22 | UR |
| ENDOSULFAN II | 3.3 | 0.13 | 22 | UR |
| 4,4'-DDD | 3.3 | 0.09 | 22 | UR |
| ENDOSULFAN SULFATE | 3.3 | 2.9 | 22 | UR |
| 4,4'-DDT | 3.3 | 0.14 | 23 | R |
| METHOXYCHLOR | 17 | 0.66 | 110 | UR |
| ENDRIN KETONE | 3.3 | 0.12 | 22 | UR |
| ENDRIN ALDEHYDE | 3.3 | 0.10 | 22 | UR |
| ALPHA-CHLORDANE | 1.7 | 0.12 | 22 | J |
| GAMMA-CHLORDANE | 1.7 | 0.09 | 11 | UR |
| TOXAPHENE | 170 | 1.0 | 1100 | UR |
| AROCLOR-1016 | 33 | 1.0 | 220 | UR |
| AROCLOR-1221 | 67 | 1.3 | 450 | UR |
| AROCLOR-1232 | 33 | 0.33 | 220 | UR |
| AROCLOR-1242 | 33 | 0.33 | 220 | UR |
| AROCLOR-1248 | 33 | 1.3 | 220 | UR |
| AROCLOR-1254 | 33 | 1.7 | 220 | UR |
| AROCLOR-1260 | 33 | 1.3 | 550 | J |

% SOLIDS: 15.0
DILUTION FACTOR: 1.0

* RESULT FROM DILUTION ANALYSIS

CTO 129, NSB NEW LONDON, GROTON, CONNECTICUT
LABORATORY: SOUTHWEST LABORATORY OF OKLAHOMA

| CLIENT ID: | | | T8-A | | T8-B | | T9-A | | T9-B | | T10-A | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LABORATORY ID: | | | 20748.13 | | 20748.14 | | 20748.15 | | 20748.16 | | 20748.17 | |
| TCL PESTICIDE/PCB SOILS (UG/KG) | | | | | | | | | | | | |
| ANALYTE | CRQL | MDL | | | | | | | | | | |
| ALPHA-BHC | 1.7 | 0.07 | 3.5 | U | 3.8 | U | 2.9 | U | 3.6 | U | 2.4 | U |
| BETA-BHC | 1.7 | 0.15 | 3.5 | UJ | 3.8 | UJ | 2.9 | UJ | 3.6 | UJ | 2.4 | UJ |
| DELTA-BHC | 1.7 | 0.07 | 3.5 | U | 3.8 | U | 2.9 | U | 3.6 | U | 2.4 | U |
| GAMMA-BHC (LINDANE) | 1.7 | 0.07 | 3.5 | UJ | 3.8 | UJ | 2.9 | UJ | 3.6 | UJ | 2.4 | UJ |
| HEPTACHLOR | 1.7 | 0.16 | 3.5 | U | 3.8 | U | 2.9 | U | 3.6 | U | 2.4 | U |
| ALDRIN | 1.7 | 0.07 | 3.5 | UJ | 3.8 | UJ | 2.9 | UJ | 3.6 | UJ | 2.4 | UJ |
| HEPTACHLOR EPOXIDE | 1.7 | 0.05 | 3.5 | U | 3.8 | U | 2.9 | U | 3.6 | U | 2.4 | U |
| ENDOSULFAN I | 1.7 | 0.08 | 3.5 | U | 3.8 | U | 2.9 | U | 3.6 | U | 4.8 | J |
| DIELDRIN | 3.3 | 0.24 | 6.9 | U | 7.3 | U | 5.7 | U | 7.0 | U | 4.7 | U |
| 4,4'-DDE | 3.3 | 0.10 | 19 | J | 7.3 | UJ | 49 | J | 7.0 | UJ | 23 | J |
| ENDRIN | 3.3 | 0.15 | 6.9 | U | 7.3 | U | 5.7 | U | 7.0 | U | 4.7 | U |
| ENDOSULFAN II | 3.3 | 0.13 | 6.9 | U | 7.3 | U | 5.7 | U | 7.0 | U | 4.7 | U |
| 4,4'-DDD | 3.3 | 0.09 | 86 | J | 7.3 | UJ | *630 | J | 7.0 | UJ | 190 | J |
| ENDOSULFAN SULFATE | 3.3 | 2.9 | 6.9 | U | 7.3 | U | 5.7 | U | 7.0 | U | 4.7 | U |
| 4,4'-DDT | 3.3 | 0.14 | 6.9 | UR | 7.3 | UJ | 5.7 | UR | 7.0 | UJ | 85 | J |
| METHOXYCHLOR | 17 | 0.66 | 35 | UJ | 38 | UJ | 29 | UJ | 36 | UJ | 24 | UJ |
| ENDRIN KETONE | 3.3 | 0.12 | 6.9 | U | 7.3 | U | 5.7 | U | 7.0 | U | 4.7 | U |
| ENDRIN ALDEHYDE | 3.3 | 0.1 | 6.9 | U | 7.3 | U | 5.7 | U | 7.0 | U | 4.7 | U |
| ALPHA-CHLORDANE | 1.7 | 0.12 | 3.5 | U | 3.8 | U | 6.0 | J | 3.6 | U | 5.5 | J |
| GAMMA-CHLORDANE | 1.7 | 0.09 | 3.5 | U | 3.8 | U | 2.9 | U | 3.6 | U | 4.5 | J |
| TOXAPHENE | 170 | 1.0 | 350 | U | 380 | U | 290 | U | 360 | U | 240 | U |
| AROCLOR-1016 | 33 | 1.0 | 69 | U | 73 | U | 57 | U | 70 | U | 47 | U |
| AROCLOR-1221 | 67 | 1.3 | 140 | U | 150 | U | 120 | U | 140 | U | 96 | U |
| AROCLOR-1232 | 33 | 0.33 | 69 | U | 73 | U | 57 | U | 70 | U | 47 | U |
| AROCLOR-1242 | 33 | 0.33 | 69 | U | 73 | U | 57 | U | 70 | U | 47 | U |
| AROCLOR-1248 | 33 | 1.3 | 69 | U | 73 | U | 57 | U | 70 | U | 47 | U |
| AROCLOR-1254 | 33 | 1.7 | 69 | U | 73 | U | 57 | U | 70 | U | 47 | U |
| AROCLOR-1260 | 33 | 1.3 | 69 | U | 73 | U | 57 | U | 70 | U | 47 | U |
| % SOLIDS: | | | 48.0 | | 45.0 | | 58.0 | | 47.0 | | 70.0 | |
| DILUTION FACTOR: | | | 1.0 | | 1.0 | | 1.0 | | 1.0 | | 1.0 | |

* RESULT FROM DILUTION ANALYSIS

CTO 129, NSB NEW LONDON, GROTON, CONNECTICUT
LABORATORY: SOUTHWEST LABORATORY OF OKLAHOMA

| CLIENT ID: | | | T10-B | | QW-1 | |
|---|---|---|---|---|---|---|
| LABORATORY ID: | | | 20748.18 | | 20748.19 | |
| TCL PESTICIDE/PCB SOILS (UG/KG) | | | | | | |
| ANALYTE | CRQL | MDL | | | | |
| ALPHA-BHC | 1.7 | 0.07 | 3.8 | U | 2.2 | U |
| BETA-BHC | 1.7 | 0.15 | 3.8 | UJ | 2.2 | UJ |
| DELTA-BHC | 1.7 | 0.07 | 3.8 | U | 2.2 | U |
| GAMMA-BHC (LINDANE) | 1.7 | 0.07 | 3.8 | UJ | 2.2 | UJ |
| HEPTACHLOR | 1.7 | 0.16 | 3.8 | U | 2.2 | U |
| ALDRIN | 1.7 | 0.07 | 3.8 | UJ | 2.2 | UJ |
| HEPTACHLOR EPOXIDE | 1.7 | 0.05 | 3.8 | U | 2.2 | U |
| ENDOSULFAN I | 1.7 | 0.08 | 3.8 | U | 2.2 | U |
| DIELDRIN | 3.3 | 0.24 | 7.3 | U | 4.2 | U |
| 4,4'-DDE | 3.3 | 0.10 | 7.4 | J | 4.2 | UJ |
| ENDRIN | 3.3 | 0.15 | 7.3 | U | 6.7 | |
| ENDOSULFAN II | 3.3 | 0.13 | 7.3 | U | 4.2 | U |
| 4,4'-DDD | 3.3 | 0.09 | 35 | J | 4.2 | UJ |
| ENDOSULFAN SULFATE | 3.3 | 2.9 | 7.3 | U | 4.2 | U |
| 4,4'-DDT | 3.3 | 0.14 | 7.3 | UR | 4.2 | UJ |
| METHOXYCHLOR | 17 | 0.66 | 38 | UJ | 22 | UJ |
| ENDRIN KETONE | 3.3 | 0.12 | 7.3 | U | 4.2 | U |
| ENDRIN ALDEHYDE | 3.3 | 0.1 | 7.3 | U | 4.2 | U |
| ALPHA-CHLORDANE | 1.7 | 0.12 | 3.8 | U | 2.2 | U |
| GAMMA-CHLORDANE | 1.7 | 0.09 | 3.8 | U | 2.2 | U |
| TOXAPHENE | 170 | 1.0 | 380 | U | 220 | U |
| AROCLOR-1016 | 33 | 1.0 | 73 | U | 42 | U |
| AROCLOR-1221 | 67 | 1.3 | 150 | U | 86 | U |
| AROCLOR-1232 | 33 | 0.33 | 73 | U | 42 | U |
| AROCLOR-1242 | 33 | 0.33 | 73 | U | 42 | U |
| AROCLOR-1248 | 33 | 1.3 | 73 | U | 42 | U |
| AROCLOR-1254 | 33 | 1.7 | 73 | U | 42 | U |
| AROCLOR-1260 | 33 | 1.3 | 73 | U | 42 | U |
| % SOLIDS: | | | 45.0 | | 78.0 | |
| DILUTION FACTOR: | | | 1.0 | | 1.0 | |

* RESULT FROM DILUTION ANALYSIS

CTO 129, NSB NEW LONDON, GROTON, CONNECTICUT
LABORATORY: SOUTHWEST LABORATORY OF OKLAHOMA

TAL METAL SOILS (MG/KG)

| CLIENT ID: | | | T1-A | | T1-B | | T2-A | | DUP-03 | | T2-B | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LABORATORY ID: | | | 20715.04 | | 20715.05 | | 20715.06 | | 20715.07 | | 20715.08 | |
| ANALYTE | CRQL | IDL | | | | | | | | | | |
| ALUMINUM | 20 | 0.9 | 3530 | | 4240 | | 4470 | | 4700 | | 6020 | |
| ANTIMONY | 6 | 0.4 | 0.48 | J | 0.48 | UJ | 0.72 | J | 0.62 | UJ | 0.62 | UJ |
| ARSENIC | 1 | 0.6 | 1.9 | | 1.6 | | 2.5 | | 2.5 | | 2.2 | |
| BARIUM | 20 | 0.1 | 27.9 | | 33.9 | | 46.7 | | 56.5 | | 73.8 | |
| BERYLLIUM | 0.5 | 0.1 | 0.23 | | 0.24 | | 0.48 | | 0.70 | | 0.32 | |
| BORON | 5 | 0.3 | 0.35 | U | 0.36 | U | 2.2 | U | 7.6 | U | 0.46 | UJ |
| CADMIUM | 0.5 | 0.1 | 0.29 | | 0.12 | J | 0.29 | | 0.46 | | 0.30 | |
| CALCIUM | 500 | 1.1 | 1130 | | 1240 | | 1510 | | 1510 | | 1300 | |
| CHROMIUM | 1 | 0.1 | 8.1 | | 9.6 | | 15.2 | | 16.9 | | 19.5 | |
| COBALT | 5 | 0.1 | 3.6 | | 4.3 | | 6.8 | | 8.4 | | 5.0 | |
| COPPER | 2.5 | 0.2 | 79.6 | | 45.5 | | 104 | | 101 | | 44.9 | |
| IRON | 10 | 0.7 | 5980 | | 7740 | | 10300 | | 15600 | | 12500 | |
| LEAD | 0.3 | 0.2 | 23.9 | | 28.7 | | 123 | | 142 | | 42.0 | |
| MAGNESIUM | 500 | 1.2 | 1750 | | 2120 | | 1940 | | 2000 | | 2860 | |
| MANGANESE | 1.5 | 0.1 | 132 | | 125 | | 78.8 | | 99.7 | | 132 | |
| MERCURY | 0.1 | 0.1 | 0.12 | UR | 0.36 | J | 0.17 | J | 0.24 | J | 0.32 | J |
| NICKEL | 4 | 0.1 | 6.6 | J | 9.1 | J | 61.5 | J | 53.0 | J | 17.0 | J |
| POTASSIUM | 500 | 1.3 | 890 | | 1080 | | 1120 | | 1070 | | 1890 | |
| SELENIUM | 0.5 | 0.5 | 0.58 | UJ | 0.60 | UJ | 0.68 | UJ | 0.77 | UJ | 0.77 | UJ |
| SILVER | 1 | 0.1 | 0.37 | | 0.73 | | 0.17 | J | 0.22 | | 0.15 | U |
| SODIUM | 500 | 0.9 | 114 | | 215 | | 512 | | 556 | | 516 | |
| THALLIUM | 1 | 0.6 | 0.70 | U | 0.72 | U | 0.82 | U | 0.92 | U | 0.92 | U |
| VANADIUM | 5 | 0.1 | 17.2 | J | 13.2 | J | 161 | J | 183 | J | 66.4 | J |
| ZINC | 2 | 0.1 | 63.6 | J | 100 | J | 225 | J | 378 | J | 95.4 | J |
| CYANIDE | 0.5 | 0.5 | | | | | | | | | | |
| % SOLIDS: | | | 85.7 | | 83.7 | | 73.0 | | 65.0 | | 65.0 | |

CTO 129, NSB NEW LONDON, GROTON, CONNECTICUT
LABORATORY: SOUTHWEST LABORATORY OF OKLAHOMA

| CLIENT ID: | | | T3-A | | T3-B | | T4-A | | T4-B | | T5-A | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LABORATORY ID: | | | 20715.09 | | 20715.10 | | 20730.03 | | 20730.04 | | 20730.05 | |
| TAL METAL SOILS (MG/KG) | | | | | | | | | | | | |
| ANALYTE | CRQL | IDL | | | | | | | | | | |
| ALUMINUM | 20 | 0.9 | 3820 | | 5040 | | 3670 | | 2980 | | 5080 | |
| ANTIMONY | 6 | 0.4 | 0.53 | UJ | 0.58 | UJ | 0.47 | UJ | 0.47 | UJ | 0.60 | UJ |
| ARSENIC | 1 | 0.6 | 3.0 | | 2.6 | | 1.4 | | 1.4 | | 2.1 | |
| BARIUM | 20 | 0.1 | 28.8 | | 38.4 | | 29.2 | | 41.1 | | 59.4 | |
| BERYLLIUM | 0.5 | 0.1 | 0.21 | J | 0.33 | | 0.16 | J | 0.14 | J | 0.26 | J |
| BORON | 5 | 0.3 | 0.40 | U | 0.51 | U | 0.35 | U | 0.36 | U | 1.3 | U |
| CADMIUM | 0.5 | 0.1 | 0.26 | | 0.43 | | 0.12 | U | 0.21 | J | 0.15 | U |
| CALCIUM | 500 | 1.1 | 900 | | 868 | | 1060 | | 934 | | 1630 | |
| CHROMIUM | 1 | 0.1 | 8.6 | | 11.1 | | 8.0 | | 7.0 | | 15.0 | |
| COBALT | 5 | 0.1 | 4.4 | | 7.9 | | 3.0 | | 3.2 | | 4.2 | |
| COPPER | 2.5 | 0.2 | 34.5 | | 52.6 | | 14.7 | | 36.7 | | 28.4 | |
| IRON | 10 | 0.7 | 9390 | | 8020 | | 5800 | | 5630 | | 10600 | |
| LEAD | 0.3 | 0.2 | 32.1 | | 61.5 | | 26.5 | | 32.4 | | 40.6 | |
| MAGNESIUM | 500 | 1.2 | 1650 | | 2200 | | 1770 | | 1570 | | 2280 | |
| MANGANESE | 1.5 | 0.1 | 310 | | 99.8 | | 90.1 | | 55.3 | | 101 | |
| MERCURY | 0.1 | 0.1 | 0.15 | J | 0.19 | J | 0.12 | UR | 0.12 | UR | 0.15 | UR |
| NICKEL | 4 | 0.1 | 8.6 | J | 18.9 | J | 6.7 | J | 10.3 | J | 13.8 | J |
| POTASSIUM | 500 | 1.3 | 813 | | 1100 | | 1120 | | 926 | | 1290 | |
| SELENIUM | 0.5 | 0.5 | 0.67 | UJ | 0.73 | UJ | 0.59 | UJ | 0.59 | UJ | 0.75 | UJ |
| SILVER | 1 | 0.1 | 0.13 | U | 0.15 | U | 0.12 | U | 0.12 | U | 0.15 | U |
| SODIUM | 500 | 0.9 | 285 | | 1050 | | 250 | | 462 | | 2480 | |
| THALLIUM | 1 | 0.6 | 0.80 | U | 0.87 | U | 0.71 | U | 0.71 | U | 0.90 | U |
| VANADIUM | 5 | 0.1 | 17.0 | J | 18.5 | J | 12.8 | J | 11.2 | J | 37.4 | J |
| ZINC | 2 | 0.1 | 87.4 | J | 284 | J | 39.2 | J | 45.1 | J | 68.2 | J |
| CYANIDE | 0.5 | 0.5 | | | | | 1.5 | | 0.59 | U | 0.90 | J |
| % SOLIDS: | | | 74.8 | | 68.6 | | 84.6 | | 84.5 | | 66.7 | |

CTO 129, NSB NEW LONDON, GROTON, CONNECTICUT
LABORATORY: SOUTHWEST LABORATORY OF OKLAHOMA

| CLIENT ID: | | | T5-B | | T6-A | | DUP-05 | | T6-B | | T7-A | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LABORATORY ID: | | | 20730.06 | | 20730.07 | | 20730.08 | | 20730.09 | | 20730.13 | |
| TAL METAL SOILS (MG/KG) | | | | | | | | | | | | |
| ANALYTE | CRQL | IDL | | | | | | | | | | |
| ALUMINUM | 20 | 0.9 | 2690 | | 15800 | | 14800 | | 9820 | | 7150 | |
| ANTIMONY | 6 | 0.4 | 0.47 | UJ | 0.85 | UJ | 0.77 | UJ | 1.1 | J | 1.2 | J |
| ARSENIC | 1 | 0.6 | 1.0 | J | 7.2 | | 8.1 | | 4.8 | | 2.5 | |
| BARIUM | 20 | 0.1 | 11.9 | | 113 | | 120 | | 94.1 | | 124 | |
| BERYLLIUM | 0.5 | 0.1 | 0.14 | J | 1.3 | | 1.2 | | 1.3 | | 0.28 | J |
| BORON | 5 | 0.3 | 0.35 | U | 0.64 | UJ | 0.58 | UJ | 0.77 | UJ | 0.90 | U |
| CADMIUM | 0.5 | 0.1 | 0.12 | U | 0.72 | | 0.63 | | 0.68 | | 0.23 | J |
| CALCIUM | 500 | 1.1 | 1220 | | 3290 | | 2960 | | 2230 | | 3350 | |
| CHROMIUM | 1 | 0.1 | 7.7 | | 44.5 | | 49.8 | | 40.2 | | 13.7 | |
| COBALT | 5 | 0.1 | 3.3 | | 10.0 | | 9.2 | | 4.7 | | 8.1 | |
| COPPER | 2.5 | 0.2 | 19.5 | | 133 | | 114 | | 82.0 | | 33.8 | |
| IRON | 10 | 0.7 | 5660 | | 47500 | | 53100 | | 35700 | | 19200 | |
| LEAD | 0.3 | 0.2 | 16.2 | | 141 | | 109 | | 78.4 | | 17.4 | |
| MAGNESIUM | 500 | 1.2 | 1820 | | 5550 | | 4800 | | 2660 | | 4170 | |
| MANGANESE | 1.5 | 0.1 | 89.3 | | 285 | | 271 | | 134 | | 154 | |
| MERCURY | 0.1 | 0.1 | 0.12 | UR | 0.21 | UR | 0.43 | J | 1.2 | J | 0.44 | J |
| NICKEL | 4 | 0.1 | 8.5 | J | 29.0 | J | 26.2 | J | 15.8 | J | 12.2 | J |
| POTASSIUM | 500 | 1.3 | 659 | | 2980 | | 2650 | | 1490 | | 3000 | |
| SELENIUM | 0.5 | 0.5 | 0.58 | UJ | 1.1 | UJ | 2.2 | J | 1.3 | UJ | 1.1 | UJ |
| SILVER | 1 | 0.1 | 0.12 | U | 0.96 | | 0.81 | | 0.85 | | 0.22 | U |
| SODIUM | 500 | 0.9 | 388 | | 1130 | | 966 | | 725 | | 926 | |
| THALLIUM | 1 | 0.6 | 0.70 | U | 1.3 | U | 1.2 | U | 1.5 | U | 1.3 | U |
| VANADIUM | 5 | 0.1 | 8.9 | J | 176 | J | 152 | J | 120 | J | 38.2 | J |
| ZINC | 2 | 0.1 | 35.0 | J | 213 | J | 195 | J | 172 | J | 76.3 | J |
| CYANIDE | 0.5 | 0.5 | 0.90 | J | 2.0 | J | 2.1 | | 1.8 | J | 1.1 | U |
| % SOLIDS: | | | 85.7 | | 46.8 | | 51.8 | | 39.0 | | 46.3 | |

CTO 129, NSB NEW LONDON, GROTON, CONNECTICUT
LABORATORY: SOUTHWEST LABORATORY OF OKLAHOMA

| | | | | |
|---|---|---|---|---|
| CLIENT ID: | | | T7-B | |
| LABORATORY ID: | | | 20730.14 | |

TAL METAL SOILS (MG/KG)

| ANALYTE | CRQL | IDL | | |
|---|---|---|---|---|
| ALUMINUM | 20 | 0.9 | 27100 | J |
| ANTIMONY | 6 | 0.4 | 3.1 | UR |
| ARSENIC | 1 | 0.6 | 8.1 | J |
| BARIUM | 20 | 0.1 | 318 | J |
| BERYLLIUM | 0.5 | 0.1 | 4.1 | J |
| BORON | 5 | 0.3 | 2.3 | UR |
| CADMIUM | 0.5 | 0.1 | 1.6 | J |
| CALCIUM | 500 | 1.1 | 5330 | J |
| CHROMIUM | 1 | 0.1 | 44.3 | J |
| COBALT | 5 | 0.1 | 13.6 | J |
| COPPER | 2.5 | 0.2 | 173 | J |
| IRON | 10 | 0.7 | 198000 | J |
| LEAD | 0.3 | 0.2 | 110 | J |
| MAGNESIUM | 500 | 1.2 | 3900 | J |
| MANGANESE | 1.5 | 0.1 | 269 | J |
| MERCURY | 0.1 | 0.1 | 0.76 | UR |
| NICKEL | 4 | 0.1 | 47.7 | J |
| POTASSIUM | 500 | 1.3 | 2030 | J |
| SELENIUM | 0.5 | 0.5 | 6.8 | J |
| SILVER | 1 | 0.1 | 0.86 | J |
| SODIUM | 500 | 0.9 | 1410 | J |
| THALLIUM | 1 | 0.6 | 4.6 | UR |
| VANADIUM | 5 | 0.1 | 203 | J |
| ZINC | 2 | 0.1 | 702 | J |
| CYANIDE | 0.5 | 0.5 | 6.1 | J |
| % SOLIDS: | | | 13.1 | |

CTO 129, NSB NEW LONDON, GROTON, CONNECTICUT
LABORATORY: SOUTHWEST LABORATORY OF OKLAHOMA

| CLIENT ID: | | | T8-A | | T8-B | | T9-A | | T9-B | | T10-A | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LABORATORY ID: | | | 20748.13 | | 20748.14 | | 20748.15 | | 20748.16 | | 20748.17 | |
| TAL METAL SOILS (MG/KG) | | | | | | | | | | | | |
| ANALYTE | CRDL | IDL | | | | | | | | | | |
| ALUMINUM | 20 | 0.9 | 14200 | | 19900 | | 18100 | | 15100 | | 6700 | |
| ANTIMONY | 6 | 0.4 | 0.84 | U | 0.95 | U | 0.72 | U | 0.85 | U | 0.56 | U |
| ARSENIC | 1 | 0.6 | 11.0 | | 14.1 | | 7.2 | | 10.8 | | 3.4 | |
| BARIUM | 20 | 0.1 | 53.4 | | 77.9 | | 86.8 | | 47.7 | | 57.0 | |
| BERYLLIUM | 0.5 | 0.1 | 0.66 | | 0.98 | | 0.81 | | 0.73 | | 0.24 | J |
| BORON | 5 | 0.3 | 28.7 | | 39.3 | | 14.7 | | 39.6 | | 2.1 | U |
| CADMIUM | 0.5 | 0.1 | 0.41 | J | 0.47 | J | 0.57 | | 0.43 | J | 0.37 | |
| CALCIUM | 500 | 1.1 | 2790 | | 3610 | | 2640 | | 4110 | | 1650 | |
| CHROMIUM | 1 | 0.1 | 80.3 | | 96.8 | | 48.5 | | 59.9 | | 15.4 | |
| COBALT | 5 | 0.1 | 8.1 | | 9.6 | | 8.1 | | 9.0 | | 3.9 | |
| COPPER | 2.5 | 0.2 | 48.4 | | 64.2 | | 48.1 | | 37.2 | | 31.4 | |
| IRON | 10 | 0.7 | 24500 | | 37100 | | 25500 | | 30300 | | 12400 | |
| LEAD | 0.3 | 0.2 | 61.2 | | 66.6 | | 40.6 | | 39.3 | | 71.3 | |
| MAGNESIUM | 500 | 1.2 | 7230 | | 9150 | | 6100 | | 8450 | | 2770 | |
| MANGANESE | 1.5 | 0.1 | 240 | | 338 | | 313 | | 355 | | 121 | |
| MERCURY | 0.1 | 0.1 | 0.40 | U | 0.51 | U | 0.27 | U | 0.21 | UJ | 0.28 | U |
| NICKEL | 4 | 0.1 | 21.7 | | 27.8 | | 20.7 | | 23.8 | | 12.7 | |
| POTASSIUM | 500 | 68.9 | 3880 | J | 5170 | J | 3300 | J | 4410 | J | 1630 | J |
| SELENIUM | 0.5 | 0.5 | 2.2 | J | 3.0 | J | 1.8 | J | 1.9 | J | 0.70 | U |
| SILVER | 1 | 0.1 | 0.33 | J | 0.47 | J | 0.18 | J | 0.21 | U | 0.14 | U |
| SODIUM | 500 | 14.3 | 2980 | | 3320 | | 1930 | | 4980 | | 253 | |
| THALLIUM | 1 | 0.6 | 1.3 | U | 1.4 | U | 1.1 | U | 1.3 | U | 0.84 | U |
| VANADIUM | 5 | 0.1 | 45.3 | | 59.5 | | 49.0 | | 43.8 | | 38.7 | |
| ZINC | 2 | 0.1 | 73.0 | J | 95.5 | J | 132 | J | 82.8 | J | 133 | J |
| CYANIDE | 0.5 | 0.5 | 1.1 | UJ | 1.2 | UJ | 0.90 | UJ | 1.1 | UJ | 0.70 | UJ |
| % SOLIDS: | | | 48.0 | | 42.0 | | 55.0 | | 47.0 | | 71.0 | |

CTO 129, NSB NEW LONDON, GROTON, CONNECTICUT
LABORATORY: SOUTHWEST LABORATORY OF OKLAHOMA

| CLIENT ID: | | | T10-B | | QW-1 | |
|---|---|---|---|---|---|---|
| LABORATORY ID: | | | 20748.18 | | 20748.19 | |

TAL METAL SOILS (MG/KG)

| ANALYTE | CRDL | IDL | | | | |
|---|---|---|---|---|---|---|
| ALUMINUM | 20 | 0.9 | 12800 | | 4060 | |
| ANTIMONY | 6 | 0.4 | 0.81 | U | 1.3 | |
| ARSENIC | 1 | 0.6 | 9.1 | | 2.1 | |
| BARIUM | 20 | 0.1 | 42.9 | | 22.2 | |
| BERYLLIUM | 0.5 | 0.1 | 0.62 | | 0.15 | J |
| BORON | 5 | 0.3 | 29.5 | | 1.3 | U |
| CADMIUM | 0.5 | 0.1 | 0.34 | J | 0.11 | J |
| CALCIUM | 500 | 1.1 | 3330 | | 742 | |
| CHROMIUM | 1 | 0.1 | 39.9 | | 9.1 | |
| COBALT | 5 | 0.1 | 7.7 | | 2.8 | |
| COPPER | 2.5 | 0.2 | 18.8 | | 20.5 | |
| IRON | 10 | 0.7 | 27500 | | 6700 | |
| LEAD | 0.3 | 0.2 | 16.1 | | 1470 | |
| MAGNESIUM | 500 | 1.2 | 7340 | | 1890 | |
| MANGANESE | 1.5 | 0.1 | 323 | | 101 | |
| MERCURY | 0.1 | 0.1 | 0.28 | U | 0.13 | U |
| NICKEL | 4 | 0.1 | 20.8 | | 6.5 | |
| POTASSIUM | 500 | 68.9 | 3770 | J | 1330 | J |
| SELENIUM | 0.5 | 0.5 | 1.5 | J | 0.56 | U |
| SILVER | 1 | 0.1 | 0.20 | U | 0.11 | U |
| SODIUM | 500 | 14.3 | 3870 | | 403 | |
| THALLIUM | 1 | 0.6 | 1.2 | U | 0.67 | U |
| VANADIUM | 5 | 0.1 | 39.1 | | 9.6 | |
| ZINC | 2 | 0.1 | 66.5 | J | 38.6 | J |
| CYANIDE | 0.5 | 0.5 | 1.0 | UJ | NR | |
| % SOLIDS: | | | 50.0 | | 90.0 | |

NEW LONDON NSB

CASE NUS, SDG 20715

**TABLE II. Tentatively Identified Compound Summary**

| TIC | EB-2 | EB-3 | FB-2 | TB-6 | TB-7 | T1-A | T1-B |
|---|---|---|---|---|---|---|---|
| Unknown organic acid | | | X | | | | X |
| Unknown alkane | | | | | | X | X |
| Unknown amide | | | | | | | X |
| Benzaldehyde, 4-hydroxy-3-methoxy | X | | X | | | | |
| Benzo[e]pyrene | | | | | | X | X |
| 28-Nor-17.alpha.(H)-hopane | | | | | | X | |
| 4H-cyclopenta[def]phenanthrene | | | | | | | X |

NEW LONDON NSB

CASE NUS, SDG 20715

**TABLE II. Tentatively Identified Compound Summary**

| TIC | T2-A | DUP-03 | T2-B | T3-A | T3-B | T4-A | T4-B |
|---|---|---|---|---|---|---|---|
| Unknown organic acid | X | X | X | | X | X | |
| Unknown alkane | X | X | X | | X | X | X |
| Unknown cycloalkane | | | | | X | X | |
| Unknown amide | X | X | X | | | | |
| Unknown aldehyde | | | | | | X | |
| Unknown hydrocarbon | | | | | | X | |
| Unknown PAH | | | | | X | | X |
| Anthracene, 2-methyl- | X | | | X | X | | |
| Benzo[e]pyrene | X | X | X | | | | |
| 6H-cyclobuta[JK]- Phenanthrene | X | X | | | | | |
| DDMU | X | | | | | | |
| .gamma. -Sitosterol | X | | X | | X | X | |
| Mitotane | X | X | X | | X | | |
| Naphthalene,1,2,3,4,4a,5,6, 8a-octhydro-4a,8-dimethyl-2 -(1-methylethenyl)- | X | | | | | | |
| Stigmasterol | X | | | | | | |
| 3-Penten-2-one, 4-methyl- | | X | | | | | |
| Phenanthrene, 4-methyl- | | X | | | | | |
| 9,10-Anthracenedione | | X | | | | | |
| 11H-Benzo[b]fluorene | | X | | X | X | | |
| o,p'-DDT | | | X | | X | | |
| Anthracene, 1-methyl- | | | | X | | | |
| Phenanthrene, 3,6-dimethyl- | | | | X | | | |
| Phenanthrene, 2,3-dimethyl- | | | | X | | | |
| Phenanthrene, 2,5-dimethyl- | | | | X | | | |
| Cyclopenta(def)phenanthrene | | | | X | | | |
| p,p'-DDE | | | | X | | | |
| Pyrene, 2-methyl- | | | | X | | | |
| Pyrene, 1,3-dimethyl- | | | | X | | | |
| 7H-Benz[de]anthracen-7-one | | | | X | | | |

NEW LONDON NSB

CASE NUS, SDG 20715

TABLE II. Tentatively Identified Compound Summary

| TIC | T2-A | DUP-03 | T2-B | T3-A | T3-B | T4-A | T4-B |
|---|---|---|---|---|---|---|---|
| Chrysene, 5-methyl- | | | | X | | | |
| Phenanthrene, 4,5-dimethylanthracene | | | | | X | | |
| 2,2-Bis(p-chlorophenyl)ethanol | | | | | X | | |
| Benzo[b]naphtho[1,2-d]thiophene | | | | | X | | |

NEW LONDON NSB

CASE NUS, SDG 20715

**TABLE II. Tentatively Identified Compound Summary**

| TIC | T5-A | T5-B | T6-A | DUP-05 | T6-B | T7-A | T7-B |
|---|---|---|---|---|---|---|---|
| Unknown organic acid | X | X | X | | X | X | X |
| Unknown alkane | X | X | X | X | X | X | X |
| Unknown hydrocarbon | | | X | | | X | |
| Unknown PAH | X | | | | | | |
| 11H-Benzo[b]fluorene | X | | | | | | |
| 1,1-Dichloro-2,2-bis-(p-chlorophenyl)ethane | X | | | | | | |
| Dibenzo[c,h] [2,6]-naphthyridine | X | | | | | | |
| .gamma. -Sitosterol | X | | | | | | |
| Mitotane | X | | | | | | |
| 2-Pentene, 2,3-dimethyl- | | X | | | | | |
| Anthracene, 2-methyl- | | | | X | | | |
| Benzo[e]pyrene | | | | X | | | |
| 28-Nor-17.alpha.(H)-hopane | | | | X | | | |
| 1,2-Benzenediol | | | | | | X | |
| Salicyl alcohol | | | | | | X | |
| Oleic acid | | | | | | X | |
| Cholesterol | | | | | | X | X |
| Cholestan-3-ol, 4-methyl-, (3.beta., 4.alpha., 5.alpha.)- | | | | | | X | |
| Stigmasterol | | | | | | X | |
| Cyclohexane, pentyl- | | | | | | | X |
| Stigmast-4-en-3-one | | | | | | | X |
| Androst-4-en-3-one, 17-hydroxy-(10.alpha., 17.beta.)- | | | | | | | X |

NEW LONDON NSB

CASE NUS, SDG 20748

**TABLE II. Tentatively Identified Compound Summary**

| TIC | EB-4 | EB-5 | T8-A | T8-B | T9-A | T9-B | T10-A |
|---|---|---|---|---|---|---|---|
| VOA | | | | | | | |
| Unknown Hydrocarbon | | | X | | | | |
| 2-Butanol | | | | X | | | |
| SVOA | | | | | | | |
| Unknown Alkane | X | | X | X | X | X | X |
| Unknown Organic Acid | X | | | X | X | X | X |
| Unknown Amide | | | X | | X | | |
| Unknown Hydrocarbon | | | X | | X | X | |
| Unknown PAH | | | X | | | | X |
| Unknown Alcohol | | | | | | X | |
| Phenol, 2-methoxy- | X | X | | | | | |
| Vanillin | X | X | | | | | |
| 6,10,14-Hexadecatrien-1-ol,3,7,11,15-tetramethyl- | | X | | | | | |
| Butanoic Acid | | | X | | | | X |
| Octanoic Acid | | | X | | | | |
| Cyclohexane, Octyl- | | | X | | | | |
| .gamma. -Sitosterol | | | X | X | X | X | X |
| Decahydro-4,4,8,9,10-pentamethylnaphthalene | | | | X | X | | X |
| Phenol, 3-octyl- | | | | X | | | |
| Hexadecanoic acid | | | | X | | | |
| Perylene | | | | X | | X | |
| 1,1'-Biphenyl, 3,3',4,4',5,5'-hexamethyl | | | | | X | | |
| Urs-20-en-16-ol, (16 .beta., 18 .alpha., 19 .alpha.)- | | | | | X | | X |
| Stigmast-4-en-3-one | | | | | X | | X |
| 4H-Cyclopenta[def]phenanthrene | | | | | | | X |
| Squalene | | | | | | | X |
| Benzo[e]pyrene | | | | | | | X |
| Baccharane | | | | | X | | X |

NEW LONDON NSB

CASE NUS, SDG 20748

TABLE II. Tentatively Identified Compound Summary

| TIC | EB-4 | EB-5 | T8-A | T8-B | T9-A | T9-B | T10-A |
|---|---|---|---|---|---|---|---|
| 28-Nor-17 .beta. (H)-hopane | | | | | | | X |
| Stigmasterol | | | | | | | X |
| Ergostanol | | | | | | | X |

NEW LONDON NSB

CASE NUS, SDG 20748

TABLE II. Tentatively Identified Compound Summary

| TIC | T10-B | QW-1 |
|---|---|---|
| Unknown Alkane | X | X |
| Unknown Alkene | X | |
| Unkown Cycloalkane | X | |
| Unknown Hydrocarbon | | X |
| Unknown Organic Acid | X | |
| Benzenepropanoic acid | X | |
| .gamma. -Sitosterol | X | |
| Stigmast-4-en-3-one | X | |
| .alpha. -Pinene | | X |
| Pulegone | | X |
| Naphthalene, decahydro-2-methyl- | | X |
| 1H-Indene, octahydro- 2,2,4,4,7,7-hexamethyl-, trans- | | X |

CTO 129, NSB NEW LONDON, GROTON, CONNECTICUT
LABORATORY: SOUTHWEST LABORATORY OF OKLAHOMA

TCL VOLATILE WATERS (UG/L)

| CLIENT ID: | | | TB-6 | | FB-2 | | EB-2 | | TB-7 | | EB-3 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LABORATORY ID: | | | 20715.01 | | 20715.02 | | 20715.03 | | 20730.01 | | 20730.02 | |
| ANALYTE | CRQL | MDL | | | | | | | | | | |
| CHLOROMETHANE | 10 | 0.4 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| BROMOMETHANE | 10 | 1.0 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| VINYL CHLORIDE | 10 | 0.8 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| CHLOROETHANE | 10 | 1.2 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| METHYLENE CHLORIDE | 10 | 1.0 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| ACETONE | 10 | 1.9 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| CARBON DISULFIDE | 10 | 0.7 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| 1,1-DICHLOROETHENE | 10 | 1.1 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| 1,1-DICHLOROETHANE | 10 | 0.5 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| 1,2-DICHLOROETHENE(TOTAL) | 10 | 1.0 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| CHLOROFORM | 10 | 0.8 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| 1,2-DICHLOROETHANE | 10 | 1.4 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| 2-BUTANONE | 10 | 8.8 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| 1,1,1-TRICHLOROETHANE | 10 | 0.6 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| CARBON TETRACHLORIDE | 10 | 0.5 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| BROMODICHLOROMETHANE | 10 | 2.5 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| 1,2-DICHLOROPROPANE | 10 | 1.3 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| CIS-1,3-DICHLOROPROPENE | 10 | 0.7 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| TRICHLOROETHENE | 10 | 0.4 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| DIBROMOCHLOROMETHANE | 10 | 2.5 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| 1,1,2-TRICHLOROETHANE | 10 | 2.2 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| BENZENE | 10 | 0.8 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| TRANS-1,3-DICHLOROPROPENE | 10 | 1.0 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| BROMOFORM | 10 | 3.7 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| 4-METHYL-2-PENTANONE | 10 | 2.1 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| 2-HEXANONE | 10 | 1.5 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| TETRACHLOROETHENE | 10 | 0.8 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| 1,1,2,2-TETRACHLOROETHANE | 10 | 3.7 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| TOLUENE | 10 | 0.4 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| CHLOROBENZENE | 10 | 0.5 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| ETHYLBENZENE | 10 | 0.6 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| STYRENE | 10 | 0.8 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| XYLENE (TOTAL) | 10 | 0.6 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| VINYL ACETATE | 10 | 2.6 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| DILUTION FACTOR: | | | 1.0 | | 1.0 | | 1.0 | | 1.0 | | 1.0 | |

CTO 129, NSB NEW LONDON, GROTON, CONNECTICUT
LABORATORY: SOUTHWEST LABORATORY OF OKLAHOMA

| CLIENT ID: | | | EB-4 | | EB-5 | |
|---|---|---|---|---|---|---|
| LABORATORY ID: | | | 20748.12 | | 20748.21 | |
| TCL VOLATILE WATERS (UG/L) | | | | | | |
| ANALYTE | | | | | | |
| CHLOROMETHANE | 10 | 0.4 | 10 | U | 10 | U |
| BROMOMETHANE | 10 | 1.0 | 10 | U | 10 | U |
| VINYL CHLORIDE | 10 | 0.8 | 10 | U | 10 | U |
| CHLOROETHANE | 10 | 1.2 | 10 | U | 10 | U |
| METHYLENE CHLORIDE | 10 | 1.0 | 10 | U | 10 | U |
| ACETONE | 10 | 1.9 | 10 | U | 10 | U |
| CARBON DISULFIDE | 10 | 0.7 | 10 | U | 10 | U |
| 1,1-DICHLOROETHENE | 10 | 1.1 | 10 | U | 10 | U |
| 1,1-DICHLOROETHANE | 10 | 0.5 | 10 | U | 10 | U |
| 1,2-DICHLOROETHENE(TOTAL) | 10 | 1.0 | 10 | U | 10 | U |
| CHLOROFORM | 10 | 0.8 | 10 | U | 10 | U |
| 1,2-DICHLOROETHANE | 10 | 1.4 | 10 | U | 10 | U |
| 2-BUTANONE | 10 | 8.8 | 10 | U | 10 | U |
| 1,1,1-TRICHLOROETHANE | 10 | 0.6 | 10 | U | 10 | U |
| CARBON TETRACHLORIDE | 10 | 0.5 | 10 | U | 10 | U |
| BROMODICHLOROMETHANE | 10 | 2.5 | 10 | U | 10 | U |
| 1,2-DICHLOROPROPANE | 10 | 1.3 | 10 | U | 10 | U |
| CIS-1,3-DICHLOROPROPENE | 10 | 0.7 | 10 | U | 10 | U |
| TRICHLOROETHENE | 10 | 0.4 | 10 | U | 10 | U |
| DIBROMOCHLOROMETHANE | 10 | 2.5 | 10 | U | 10 | U |
| 1,1,2-TRICHLOROETHANE | 10 | 2.2 | 10 | U | 10 | U |
| BENZENE | 10 | 0.8 | 10 | U | 10 | U |
| TRANS-1,3-DICHLOROPROPENE | 10 | 1.0 | 10 | U | 10 | U |
| BROMOFORM | 10 | 3.7 | 10 | U | 10 | U |
| 4-METHYL-2-PENTANONE | 10 | 2.1 | 10 | U | 10 | U |
| 2-HEXANONE | 10 | 1.5 | 10 | U | 10 | U |
| TETRACHLOROETHENE | 10 | 0.8 | 10 | U | 10 | U |
| 1,1,2,2-TETRACHLOROETHANE | 10 | 3.7 | 10 | U | 10 | U |
| TOLUENE | 10 | 0.4 | 10 | U | 10 | U |
| CHLOROBENZENE | 10 | 0.5 | 10 | U | 10 | U |
| ETHYLBENZENE | 10 | 0.6 | 10 | U | 10 | U |
| STYRENE | 10 | 0.8 | 10 | U | 10 | U |
| XYLENE (TOTAL) | 10 | 0.6 | 10 | U | 10 | U |
| VINYL ACETATE | 10 | 2.6 | 10 | U | 10 | U |
| DILUTION FACTOR: | | | 1.0 | | 1.0 | |

CTO 129, NSB NEW LONDON, GROTON, CONNECTICUT
LABORATORY: SOUTHWEST LABORATORY OF OKLAHOMA

TCL SEMIVOLATILE WATERS (UG/L)

| CLIENT ID: | | | FB-2 | | EB-2 | | EB-3 | |
|---|---|---|---|---|---|---|---|---|
| LABORATORY ID: | | | 20715.02 | | 20715.03 | | 20730.02 | |
| ANALYTE | CRQL | MDL | | | | | | |
| PHENOL | 10 | 3.7 | 1 | J | 1 | J | 10 | U |
| BIS(2-CHLOROETHYL)ETHER | 10 | 4.0 | 10 | U | 10 | U | 10 | U |
| 2-CHLOROPHENOL | 10 | 4.0 | 10 | U | 10 | U | 10 | U |
| 1,3-DICHLOROBENZENE | 10 | 3.0 | 10 | U | 10 | U | 10 | U |
| 1,4-DICHLOROBENZENE | 10 | 3.1 | 10 | U | 10 | U | 10 | U |
| 1,2-DICHLOROBENZENE | 10 | 3.6 | 10 | U | 10 | U | 10 | U |
| 2-METHYLPHENOL | 10 | 4.3 | 10 | U | 10 | U | 10 | U |
| BIS(2-CHLOROISOPROPYL)ETHER | 10 | 4.6 | 10 | U | 10 | U | 10 | U |
| 4-METHYLPHENOL | 10 | 4.0 | 10 | U | 10 | U | 10 | U |
| N-NITROSO-DI-N-PROPYLAMINE | 10 | 3.0 | 10 | U | 10 | U | 10 | U |
| HEXACHLOROETHANE | 10 | 2.8 | 10 | U | 10 | U | 10 | U |
| NITROBENZENE | 10 | 3.6 | 10 | U | 10 | U | 10 | U |
| ISOPHORONE | 10 | 3.0 | 10 | U | 10 | U | 10 | U |
| 2-NITROPHENOL | 10 | 3.5 | 10 | U | 10 | U | 10 | U |
| 2,4-DIMETHYLPHENOL | 10 | 4.8 | 10 | U | 10 | U | 10 | U |
| 2,4-DICHLOROPHENOL | 10 | 3.7 | 10 | U | 10 | U | 10 | U |
| 1,2,4-TRICHLOROBENZENE | 10 | 2.9 | 10 | U | 10 | U | 10 | U |
| NAPHTHALENE | 10 | 3.7 | 10 | U | 10 | U | 10 | U |
| 4-CHLOROANILINE | 10 | 9.8 | 10 | U | 10 | U | 10 | U |
| BIS(2-CHLOROETHOXY)METHANE | 10 | 3.3 | 10 | U | 10 | U | 10 | U |
| HEXACHLOROBUTADIENE | 10 | 3.0 | 10 | U | 10 | U | 10 | U |
| 4-CHLORO-3-METHYLPHENOL | 10 | 3.2 | 10 | U | 10 | U | 10 | U |
| 2-METHYLNAPHTHALENE | 10 | 3.3 | 10 | U | 10 | U | 10 | U |
| HEXACHLOROCYCLOPENTADIENE | 10 | NA | 10 | U | 10 | U | 10 | U |
| 2,4,6-TRICHLOROPHENOL | 10 | 3.5 | 10 | U | 10 | U | 10 | U |
| 2,4,5-TRICHLOROPHENOL | 25 | 3.4 | 25 | U | 25 | U | 25 | U |
| 2-CHLORONAPHTHALENE | 10 | 3.2 | 10 | U | 10 | U | 10 | U |
| 2-NITROANILINE | 25 | 3.0 | 25 | U | 25 | U | 25 | U |
| DIMETHYL PHTHALATE | 10 | 2.44 | 10 | U | 10 | U | 10 | U |
| ACENAPHTHYLENE | 10 | 3.3 | 10 | U | 10 | U | 10 | U |
| 2,6-DINITROTOLUENE | 10 | 2.9 | 10 | U | 10 | U | 10 | U |
| 3-NITROANILINE | 25 | 2.5 | 25 | U | 25 | U | 25 | U |
| ACENAPHTHENE | 10 | 3.3 | 10 | U | 10 | U | 10 | U |

CTO 129, NSB NEW LONDON, GROTON, CONNECTICUT
LABORATORY: SOUTHWEST LABORATORY OF OKLAHOMA

TCL SEMIVOLATILE WATERS (UG/L)

| CLIENT ID: | | | FB-2 | | EB-2 | | EB-3 | |
|---|---|---|---|---|---|---|---|---|
| LABORATORY ID: | | | 20715.02 | | 20715.03 | | 20730.02 | |
| ANALYTE | CRQL | MDL | | | | | | |
| 2,4-DINITROPHENOL | 25 | 2.6 | 25 | U | 25 | U | 25 | U |
| 4-NITROPHENOL | 25 | 2.3 | 25 | U | 25 | U | 25 | U |
| DIBENZOFURAN | 10 | 3.2 | 10 | U | 10 | U | 10 | U |
| 2,4-DINITROTOLUENE | 10 | 2.1 | 10 | U | 10 | U | 10 | U |
| DIETHYLPHTHALATE | 10 | 2.9 | 10 | U | 10 | U | 10 | U |
| 4-CHLOROPHENYL-PHENYL ETHER | 10 | 3.6 | 10 | U | 10 | U | 10 | U |
| FLUORENE | 10 | 3.0 | 10 | U | 10 | U | 10 | U |
| 4-NITROANILINE | 25 | 2.1 | 25 | U | 25 | U | 25 | U |
| 4,6-DINITRO-2-METHYLPHENOL | 25 | 2.5 | 25 | U | 25 | U | 25 | U |
| N-NITROSODIPHENYLAMINE | 10 | 2.0 | 10 | U | 10 | U | 10 | U |
| 4-BROMOPHENYL-PHENYL ETHER | 10 | 2.8 | 10 | U | 10 | U | 10 | U |
| HEXACHLOROBENZENE | 10 | 2.2 | 10 | U | 10 | U | 10 | U |
| PENTACHLOROPHENOL | 25 | 2.0 | 25 | U | 25 | U | 25 | U |
| PHENANTHRENE | 10 | 2.3 | 10 | U | 10 | U | 10 | U |
| ANTHRACENE | 10 | 2.4 | 10 | U | 10 | U | 10 | U |
| CARBAZOLE | 10 | 2.2 | 10 | U | 10 | U | 10 | U |
| DI-N-BUTYL PHTHALATE | 10 | 2.8 | 10 | U | 10 | U | 10 | U |
| FLUORANTHENE | 10 | 1.2 | 10 | U | 10 | U | 10 | U |
| PYRENE | 10 | 1.6 | 10 | U | 10 | U | 10 | U |
| 3,3'-DICHLOROBENZIDINE | 10 | 1.8 | 10 | U | 10 | U | 10 | U |
| BUTYLBENZYL PHTHALATE | 10 | 0.7 | 10 | U | 10 | U | 10 | U |
| BENZO(A)ANTHRACENE | 10 | 1.4 | 10 | U | 10 | U | 10 | U |
| CHRYSENE | 10 | 1.7 | 10 | U | 10 | U | 10 | U |
| BIS(2-ETHYLHEXYL)PHTHALATE | 10 | 1.5 | 2 | J | 0.6 | J | 10 | U |
| DI-N-OCTYL PHTHALATE | 10 | 2.0 | 10 | U | 10 | U | 10 | U |
| BENZO(B)FLUORANTHENE | 10 | 1.4 | 10 | U | 10 | U | 10 | U |
| BENZO(K)FLUORANTHENE | 10 | 2.2 | 10 | U | 10 | U | 10 | U |
| BENZO(A)PYRENE | 10 | 0.9 | 10 | U | 10 | U | 10 | U |
| INDENO(1,2,3-CD)PYRENE | 10 | 1.5 | 10 | U | 10 | U | 10 | U |
| DIBENZ(A,H)ANTHRACENE | 10 | 2.0 | 10 | U | 10 | U | 10 | U |
| BENZO(G,H,I)PERYLENE | 10 | 1.6 | 10 | U | 10 | U | 10 | U |
| BENZYL ALCOHOL | 10 | 3.9 | 2 | J | 1 | J | 10 | U |
| BENZOIC ACID | 50 | 6.6 | 11 | J | 8 | J | 7 | J |
| DILUTION FACTOR: | | | 1.0 | | 1.0 | | 1.0 | |

CTO 129, NSB NEW LONDON, GROTON, CONNECTICUT
LABORATORY: SOUTHWEST LABORATORY OF OKLAHOMA

| CLIENT ID: | | | EB-4 | | EB-5 | |
|---|---|---|---|---|---|---|
| LABORATORY ID: | | | 20748.12 | | 20748.21 | |

TCL SEMIVOLATILE WATERS (UG/L)

| ANALYTE | CRQL | MDL | | | | |
|---|---|---|---|---|---|---|
| PHENOL | 10 | 3.7 | 10 | U | 10 | U |
| BIS(2-CHLOROETHYL)ETHER | 10 | 4.0 | 10 | U | 10 | U |
| 2-CHLOROPHENOL | 10 | 4.0 | 10 | U | 10 | U |
| 1,3-DICHLOROBENZENE | 10 | 3.0 | 10 | U | 10 | U |
| 1,4-DICHLOROBENZENE | 10 | 3.1 | 10 | U | 10 | U |
| 1,2-DICHLOROBENZENE | 10 | 3.6 | 10 | U | 10 | U |
| 2-METHYLPHENOL | 10 | 4.3 | 10 | U | 10 | U |
| 2,2'-OXYBIS(1-CHLOROPROPANE) | 10 | 4.6 | 10 | U | 10 | U |
| 4-METHYLPHENOL | 10 | 4.0 | 10 | U | 10 | U |
| N-NITROSO-DI-N-PROPYLAMINE | 10 | 3.0 | 10 | U | 10 | U |
| HEXACHLOROETHANE | 10 | 2.8 | 10 | U | 10 | U |
| NITROBENZENE | 10 | 3.6 | 10 | U | 10 | U |
| ISOPHORONE | 10 | 3.0 | 10 | U | 10 | U |
| 2-NITROPHENOL | 10 | 3.5 | 10 | U | 10 | U |
| 2,4-DIMETHYLPHENOL | 10 | 4.8 | 10 | U | 10 | U |
| 2,4-DICHLOROPHENOL | 10 | 3.7 | 10 | U | 10 | U |
| 1,2,4-TRICHLOROBENZENE | 10 | 2.9 | 10 | U | 10 | U |
| NAPHTHALENE | 10 | 3.7 | 10 | U | 10 | U |
| 4-CHLOROANILINE | 10 | 9.8 | 10 | U | 10 | U |
| BIS(2-CHLOROETHOXY)METHANE | 10 | 3.3 | 10 | U | 10 | U |
| HEXACHLOROBUTADIENE | 10 | 3.0 | 10 | U | 10 | U |
| 4-CHLORO-3-METHYLPHENOL | 10 | 3.2 | 10 | U | 10 | U |
| 2-METHYLNAPHTHALENE | 10 | 3.3 | 10 | U | 10 | U |
| HEXACHLOROCYCLOPENTADIENE | 10 | NA | 10 | U | 10 | U |
| 2,4,6-TRICHLOROPHENOL | 10 | 3.5 | 10 | U | 10 | U |
| 2,4,5-TRICHLOROPHENOL | 25 | 3.4 | 25 | U | 25 | U |
| 2-CHLORONAPHTHALENE | 10 | 3.2 | 10 | U | 10 | U |
| 2-NITROANILINE | 25 | 3.0 | 25 | U | 25 | U |
| DIMETHYL PHTHALATE | 10 | 2.44 | 10 | U | 10 | U |
| ACENAPHTHYLENE | 10 | 3.3 | 10 | U | 10 | U |
| 2,6-DINITROTOLUENE | 10 | 2.9 | 10 | U | 10 | U |
| 3-NITROANILINE | 25 | 2.5 | 25 | U | 25 | U |
| ACENAPHTHENE | 10 | 3.3 | 10 | U | 10 | U |

CTO 129, NSB NEW LONDON, GROTON, CONNECTICUT
LABORATORY: SOUTHWEST LABORATORY OF OKLAHOMA

| CLIENT ID: | | | EB-4 | | EB-5 | |
|---|---|---|---|---|---|---|
| LABORATORY ID: | | | 20748.12 | | 20748.21 | |

TCL SEMIVOLATILE WATERS (UG/L)

| ANALYTE | CRQL | MDL | | | | |
|---|---|---|---|---|---|---|
| 2,4-DINITROPHENOL | 25 | 2.6 | 25 | U | 25 | U |
| 4-NITROPHENOL | 25 | 2.3 | 25 | U | 25 | U |
| DIBENZOFURAN | 10 | 3.2 | 10 | U | 10 | U |
| 2,4-DINITROTOLUENE | 10 | 2.1 | 10 | U | 10 | U |
| DIETHYL PHTHALATE | 10 | 2.9 | 10 | U | 10 | U |
| 4-CHLOROPHENYL-PHENYLETHER | 10 | 3.6 | 10 | U | 10 | U |
| FLUORENE | 10 | 3.0 | 10 | U | 10 | U |
| 4-NITROANILINE | 25 | 2.1 | 25 | U | 25 | U |
| 4,6-DINITRO-2-METHYLPHENOL | 25 | 2.5 | 25 | U | 25 | U |
| N-NITROSODIPHENYLAMINE | 10 | 2.0 | 10 | U | 10 | U |
| 4-BROMOPHENYL-PHENYLETHER | 10 | 2.8 | 10 | U | 10 | U |
| HEXACHLOROBENZENE | 10 | 2.2 | 10 | U | 10 | U |
| PENTACHLOROPHENOL | 25 | 2.0 | 25 | U | 25 | U |
| PHENANTHRENE | 10 | 2.3 | 10 | U | 10 | U |
| ANTHRACENE | 10 | 2.4 | 10 | U | 10 | U |
| CARBAZOLE | 10 | 2.2 | 10 | U | 10 | U |
| DI-N-BUTYL PHTHALATE | 10 | 2.8 | 10 | U | 10 | U |
| FLUORANTHENE | 10 | 1.2 | 10 | U | 10 | U |
| PYRENE | 10 | 1.6 | 10 | U | 10 | U |
| BUTYLBENZYL PHTHALATE | 10 | 1.8 | 10 | U | 10 | U |
| 3,3'-DICHLOROBENZIDINE | 10 | 0.7 | 10 | U | 10 | U |
| BENZO(A)ANTHRACENE | 10 | 1.4 | 10 | U | 10 | U |
| CHRYSENE | 10 | 1.7 | 10 | U | 10 | U |
| BIS(2-ETHYLHEXYL)PHTHALATE | 10 | 1.5 | 10 | U | 10 | U |
| DI-N-OCTYL PHTHALATE | 10 | 2.0 | 10 | U | 10 | U |
| BENZO(B)FLUORANTHENE | 10 | 1.4 | 10 | U | 10 | U |
| BENZO(K)FLUORANTHENE | 10 | 2.2 | 10 | U | 10 | U |
| BENZO(A)PYRENE | 10 | 0.9 | 10 | U | 10 | U |
| INDENO(1,2,3-CD)PYRENE | 10 | 1.5 | 10 | U | 10 | U |
| DIBENZ(A,H)ANTHRACENE | 10 | 2.0 | 10 | U | 10 | U |
| BENZO(G,H,I)PERYLENE | 10 | 1.6 | 10 | U | 10 | U |
| BENZYL ALCOHOL | 10 | 3.9 | 10 | U | 10 | U |
| BENZOIC ACID | 50 | 6.6 | 1 | J | 4 | J |
| DILUTION FACTOR: | | | 1.0 | | 1.0 | |

CTO 129, NSB NEW LONDON, GROTON, CONNECTICUT
LABORATORY: SOUTHWEST LABORATORY OF OKLAHOMA

| CLIENT ID: | | | FB-2 | | EB-2 | | EB-3 | |
|---|---|---|---|---|---|---|---|---|
| LABORATORY ID: | | | 20715.02 | | 20715.03 | | 20730.02 | |

TCL PESTICIDE/PCB WATERS (UG/L)

| ANALYTE | CRQL | MDL | | | | | | |
|---|---|---|---|---|---|---|---|---|
| ALPHA-BHC | 0.05 | 0.002 | 0.05 | U | 0.05 | U | 0.05 | U |
| BETA-BHC | 0.05 | 0.004 | 0.05 | U | 0.05 | U | 0.05 | U |
| DELTA-BHC | 0.05 | 0.002 | 0.05 | U | 0.05 | U | 0.05 | U |
| GAMMA-BHC (LINDANE) | 0.05 | 0.002 | 0.05 | U | 0.05 | U | 0.05 | U |
| HEPTACHLOR | 0.05 | 0.005 | 0.05 | U | 0.05 | U | 0.05 | U |
| ALDRIN | 0.05 | 0.002 | 0.05 | U | 0.05 | U | 0.05 | U |
| HEPTACHLOR EPOXIDE | 0.05 | 0.002 | 0.05 | U | 0.05 | U | 0.05 | U |
| ENDOSULFAN I | 0.05 | 0.002 | 0.05 | U | 0.05 | U | 0.05 | U |
| DIELDRIN | 0.1 | 0.007 | 0.1 | U | 0.1 | U | 0.1 | U |
| 4,4'-DDE | 0.1 | 0.003 | 0.1 | U | 0.1 | U | 0.1 | U |
| ENDRIN | 0.1 | 0.005 | 0.1 | U | 0.1 | U | 0.1 | U |
| ENDOSULFAN II | 0.1 | 0.004 | 0.1 | U | 0.1 | U | 0.1 | U |
| 4,4'-DDD | 0.1 | 0.003 | 0.1 | U | 0.1 | U | 0.1 | U |
| ENDOSULFAN SULFATE | 0.1 | 0.089 | 0.1 | U | 0.1 | U | 0.1 | U |
| 4,4'-DDT | 0.1 | 0.004 | 0.1 | U | 0.1 | U | 0.1 | U |
| METHOXYCHLOR | 0.5 | 0.020 | 0.5 | U | 0.5 | U | 0.5 | U |
| ENDRIN KETONE | 0.1 | 0.004 | 0.1 | U | 0.1 | U | 0.1 | U |
| ENDRIN ALDEHYDE | 0.1 | 0.003 | 0.1 | U | 0.1 | U | 0.1 | U |
| ALPHA-CHLORDANE | 0.05 | 0.004 | 0.05 | U | 0.05 | U | 0.05 | U |
| GAMMA-CHLORDANE | 0.05 | 0.003 | 0.05 | U | 0.05 | U | 0.05 | U |
| TOXAPHENE | 5 | 0.030 | 5 | U | 5 | U | 5 | U |
| AROCLOR-1016 | 1 | 0.030 | 1 | U | 1 | U | 1 | U |
| AROCLOR-1221 | 2 | 0.040 | 2 | U | 2 | U | 2 | U |
| AROCLOR-1232 | 1 | 0.010 | 1 | U | 1 | U | 1 | U |
| AROCLOR-1242 | 1 | 0.010 | 1 | U | 1 | U | 1 | U |
| AROCLOR-1248 | 1 | 0.040 | 1 | U | 1 | U | 1 | U |
| AROCLOR-1254 | 1 | 0.050 | 1 | U | 1 | U | 1 | U |
| AROCLOR-1260 | 1 | 0.040 | 1 | U | 1 | U | 1 | U |
| DILUTION FACTOR: | | | 1.0 | | 1.0 | | 1.0 | |

CTO 129, NSB NEW LONDON, GROTON, CONNECTICUT
LABORATORY: SOUTHWEST LABORATORY OF OKLAHOMA

| CLIENT ID: | | | EB-4 | | EB-5 | |
|---|---|---|---|---|---|---|
| LABORATORY ID: | | | 20748.12 | | 20748.21 | |
| TCL PESTICIDE/PCB WATERS (UG/L) | | | | | | |
| ANALYTE | CRQL | MDL | | | | |
| ALPHA-BHC | 0.05 | 0.002 | 0.05 | U | 0.05 | U |
| BETA-BHC | 0.05 | 0.004 | 0.05 | U | 0.05 | U |
| DELTA-BHC | 0.05 | 0.002 | 0.05 | U | 0.05 | U |
| GAMMA-BHC (LINDANE) | 0.05 | 0.002 | 0.05 | U | 0.05 | U |
| HEPTACHLOR | 0.05 | 0.005 | 0.05 | U | 0.05 | U |
| ALDRIN | 0.05 | 0.002 | 0.05 | U | 0.05 | U |
| HEPTACHLOR EPOXIDE | 0.05 | 0.002 | 0.05 | U | 0.05 | U |
| ENDOSULFAN I | 0.05 | 0.002 | 0.05 | U | 0.05 | U |
| DIELDRIN | 0.1 | 0.007 | 0.1 | U | 0.1 | U |
| 4,4'-DDE | 0.1 | 0.003 | 0.1 | U | 0.1 | U |
| ENDRIN | 0.1 | 0.005 | 0.1 | U | 0.1 | U |
| ENDOSULFAN II | 0.1 | 0.004 | 0.1 | U | 0.1 | U |
| 4,4'-DDD | 0.1 | 0.003 | 0.1 | U | 0.1 | U |
| ENDOSULFAN SULFATE | 0.1 | 0.089 | 0.1 | U | 0.1 | U |
| 4,4'-DDT | 0.1 | 0.004 | 0.1 | UJ | 0.1 | UJ |
| METHOXYCHLOR | 0.5 | 0.020 | 0.5 | U | 0.5 | U |
| ENDRIN KETONE | 0.1 | 0.004 | 0.1 | U | 0.1 | U |
| ENDRIN ALDEHYDE | 0.1 | 0.003 | 0.1 | U | 0.1 | U |
| ALPHA-CHLORDANE | 0.05 | 0.004 | 0.05 | U | 0.05 | U |
| GAMMA-CHLORDANE | 0.05 | 0.003 | 0.05 | U | 0.05 | U |
| TOXAPHENE | 5 | 0.030 | 5 | U | 5 | U |
| AROCLOR-1016 | 1 | 0.030 | 1 | U | 1 | U |
| AROCLOR-1221 | 2 | 0.040 | 2 | U | 2 | U |
| AROCLOR-1232 | 1 | 0.010 | 1 | U | 1 | U |
| AROCLOR-1242 | 1 | 0.010 | 1 | U | 1 | U |
| AROCLOR-1248 | 1 | 0.040 | 1 | U | 1 | U |
| AROCLOR-1254 | 1 | 0.050 | 1 | U | 1 | U |
| AROCLOR-1260 | 1 | 0.040 | 1 | U | 1 | U |
| DILUTION FACTOR: | | | 1.0 | | 1.0 | |

CTO 129, NSB NEW LONDON, GROTON, CONNECTICUT
LABORATORY: SOUTHWEST LABORATORY OF OKLAHOMA

| CLIENT ID: | | | FB-2 | | EB-2 | | EB-3 | |
|---|---|---|---|---|---|---|---|---|
| LABORATORY ID: | | | 20715.02 | | 20715.03 | | 20730.02 | |
| TAL METAL WATERS (UG/L) | | | | | | | | |
| ANALYTE | CRQL | IDL | | | | | | |
| ALUMINUM | 200 | 9 | 20.0 | U | 11.1 | U | 28.7 | U |
| ANTIMONY | 60 | 4 | 4.0 | U | 4.0 | U | 4.0 | U |
| ARSENIC | 10 | 6 | 6.0 | U | 6.0 | U | 6.0 | U |
| BARIUM | 200 | 1 | 1.0 | U | 1.0 | U | 1.0 | U |
| BERYLLIUM | 50 | 1 | 1.0 | U | 1.0 | U | 1.0 | U |
| BORON | 50 | 3 | 14.1 | | 17.2 | | 11.5 | |
| CADMIUM | 5 | 1 | 1.0 | U | 1.0 | U | 1.0 | U |
| CALCIUM | 5000 | 11 | 21.8 | U | 14.6 | U | 11.0 | U |
| CHROMIUM | 10 | 1 | 1.0 | U | 1.0 | U | 1.0 | U |
| COBALT | 50 | 1 | 1.0 | U | 1.0 | U | 1.0 | U |
| COPPER | 25 | 2 | 2.0 | U | 2.0 | U | 2.0 | U |
| IRON | 100 | 7 | 7.0 | U | 7.0 | U | 7.0 | U |
| LEAD | 3 | 2 | 2.0 | U | 2.0 | U | 2.0 | U |
| MAGNESIUM | 5000 | 12 | 12.0 | U | 14.9 | U | 12.0 | U |
| MANGANESE | 15 | 1 | 1.0 | U | 1.0 | U | 1.0 | U |
| MERCURY | 0.2 | 0.2 | 0.21 | J | 0.20 | J | 0.20 | U |
| NICKEL | 40 | 1 | 1.0 | U | 1.0 | U | 1.0 | U |
| POTASSIUM | 5000 | 13 | 13.0 | U | 34.3 | U | 27.1 | U |
| SELENIUM | 5 | 5 | 5.0 | UJ | 5.0 | UJ | 5.0 | UJ |
| SILVER | 10 | 1 | 1.0 | U | 1.0 | U | 1.0 | U |
| SODIUM | 5000 | 9 | 89.9 | | 69.2 | | 52.8 | |
| THALLIUM | 10 | 6 | 6.0 | U | 6.5 | J | 6.0 | U |
| VANADIUM | 50 | 1 | 1.0 | U | 1.0 | U | 1.0 | U |
| ZINC | 20 | 1 | 11.8 | J | 8.0 | J | 1.0 | UJ |
| CYANIDE | 10 | 10 | 10.0 | U | 10.0 | U | 10.0 | U |

CTO 129, NSB NEW LONDON, GROTON, CONNECTICUT
LABORATORY: SOUTHWEST LABORATORY OF OKLAHOMA

| CLIENT ID: | | | EB-4 | | EB-5 | |
|---|---|---|---|---|---|---|
| LABORATORY ID: | | | 20748.12 | | 20748.21 | |

TAL METAL WATERS (UG/L)

| ANALYTE | CRDL | IDL | | | | |
|---|---|---|---|---|---|---|
| ALUMINUM | 200 | 9 | 9.0 | UR | 9.0 | UR |
| ANTIMONY | 60 | 4 | 4.0 | U | 4.0 | U |
| ARSENIC | 10 | 6 | 6.0 | U | 6.0 | U |
| BARIUM | 200 | 1 | 1.0 | U | 1.0 | U |
| BERYLLIUM | 5 | 1 | 1.0 | U | 1.0 | U |
| BORON | 50 | 3 | 5.9 | U | 6.7 | U |
| CADMIUM | 5 | 1 | 1.0 | U | 1.0 | U |
| CALCIUM | 5000 | 11 | 35.5 | U | 24.5 | U |
| CHROMIUM | 10 | 1 | 1.0 | U | 1.0 | U |
| COBALT | 50 | 1 | 1.0 | U | 1.0 | U |
| COPPER | 25 | 2 | 2.0 | U | 2.0 | U |
| IRON | 100 | 7 | 7.0 | UJ | 7.0 | UJ |
| LEAD | 3 | 2 | 2.0 | U | 2.0 | U |
| MANGANESE | 5000 | 1 | 1.0 | U | 1.0 | U |
| MAGNESIUM | 15 | 12 | 12.0 | U | 12.0 | U |
| MERCURY | 0.2 | 0.2 | 0.27 | J | 0.26 | J |
| NICKEL | 40 | 1 | 1.0 | U | 1.0 | U |
| POTASSIUM | 5000 | 689 | 689 | UJ | 689 | UJ |
| SELENIUM | 5 | 5 | 5.0 | U | 5.0 | U |
| SILVER | 10 | 1 | 1.0 | UJ | 1.0 | UJ |
| SODIUM | 5000 | 143 | 143 | U | 143 | U |
| THALLIUM | 10 | 6 | 6.0 | J | 6.0 | U |
| VANADIUM | 50 | 1 | 1.0 | U | 1.0 | U |
| ZINC | 20 | 1 | 2.6 | U | 2.4 | U |
| CYANIDE | 10 | 10 | 10.0 | UJ | NR | |

# Total Organic Carbon by EPA 9060

| Sample ID | Total Organic Carbon, mg/kg |
|---|---|
| T1-A | 32,100 |
| T1-B | 24,500 |
| T2-A | 39,000 |
| T2-B | 63,400 |
| T3-A | 31,100 |
| T3-B | 33,500 |
| D-03 | 47,500 |
| T4-A | 9,960 |
| T4-B | 8,420 |
| T5-A | 16,900 |
| T5-B | 9,410 |
| T6-A | 11,200 |
| T6-B | 25,000 |
| T7-A | 54,800 |
| T7-B | 63,000 |
| D-05 | 32,600 |
| T8-A | 84,100 |
| T8-B | 79,600 |
| T9-A | 34,700 |
| T9-B | 61,600 |
| T10-A | 52,400 |
| T10-B | 68,300 |
| SD-01 | 84,100 |
| SD-02 | 79,600 |

# GEOTECHNICAL LABORATORY TEST DATA

Project : Naval Submarine Base
Project No. : GTX-682
Boring No. : ---
Sample No. : T1-A
Location : Groton, CT
Soil Description : Saturated brown silty sand
Remarks : ---

Depth : ---
Test Date : 12/09/94
Test Method : ASTM D422

Filename : T1A
Elevation : ---
Tested by : gph
Checked by : gtt

## HYDROMETER

Hydrometer ID : hy1
Weight of air-dried soil = 50.61 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

| Elapsed Time (min) | Reading | Temperature (deg. C) | Corrected Reading | Particle Size (mm) | Percent Finer (%) | Adjusted Particle Size |
|---|---|---|---|---|---|---|
| 1.00 | 10.90 | 17.40 | 4.32 | 0.054 | 8 | 0.054 |
| 2.00 | 9.10 | 17.40 | 2.52 | 0.038 | 4 | 0.038 |
| 4.00 | 8.00 | 17.50 | 1.46 | 0.027 | 3 | 0.027 |
| 8.00 | 7.20 | 17.50 | 0.66 | 0.019 | 1 | 0.019 |
| 15.00 | 6.60 | 17.50 | 0.06 | 0.014 | 0 | 0.014 |

## FINE SIEVE SET

| Sieve Mesh | Sieve Openings Inches | Millimeters | Weight Retained (gm) | Cumulative Weight Retained (gm) | Percent Finer (%) |
|---|---|---|---|---|---|
| 0.375" | 0.374 | 9.51 | 0.00 | 0.00 | 100 |
| #4 | 0.187 | 4.75 | 5.74 | 5.74 | 94 |
| #10 | 0.079 | 2.00 | 6.76 | 12.50 | 88 |
| #20 | 0.033 | 0.84 | 14.07 | 26.57 | 74 |
| #40 | 0.017 | 0.42 | 16.69 | 43.26 | 58 |
| #60 | 0.010 | 0.25 | 16.02 | 59.28 | 42 |
| #100 | 0.006 | 0.15 | 13.05 | 72.33 | 29 |
| #200 | 0.003 | 0.07 | 12.05 | 84.38 | 17 |
| Pan | | | 17.42 | 101.80 | 0 |

Total Dry Weight of Sample = 110.09

D85 : 1.6864 mm
D60 : 0.4668 mm
D50 : 0.3279 mm
D30 : 0.1555 mm
D15 : 0.0690 mm
D10 : 0.0584 mm

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-2-4(0)
AASHTO Group Name : Silty Gravel and Sand

# GEOTECHNICAL LABORATORY TEST DATA

Project : Naval Submarine Base
Project No. : GTX-682
Boring No. : ---
Sample No. : T2-A
Location : Groton, CT
Soil Description : Black saturated sand with some silt
Remarks : Hydrometer not required, fines < 10%

Depth : ---
Test Date : 12/06/94
Test Method : ASTM D422

Filename : T2A
Elevation : ---
Tested by : gph
Checked by : gtt

## FINE SIEVE SET

| Sieve Mesh | Sieve Openings Inches | Sieve Openings Millimeters | Weight Retained (gm) | Cumulative Weight Retained (gm) | Percent Finer (%) |
|---|---|---|---|---|---|
| 0.375" | 0.374 | 9.51 | 0.00 | 0.00 | 100 |
| #4 | 0.187 | 4.75 | 5.38 | 5.38 | 96 |
| #10 | 0.079 | 2.00 | 15.83 | 21.21 | 84 |
| #20 | 0.033 | 0.84 | 24.14 | 45.35 | 65 |
| #40 | 0.017 | 0.42 | 25.05 | 70.40 | 46 |
| #60 | 0.010 | 0.25 | 22.70 | 93.10 | 28 |
| #100 | 0.006 | 0.15 | 15.52 | 108.62 | 16 |
| #200 | 0.003 | 0.07 | 9.84 | 118.46 | 9 |
| Pan | | | 11.39 | 129.85 | 0 |

Total Dry Weight of Sample = 137.89

D85 : 2.1986 mm
D60 : 0.7006 mm
D50 : 0.4888 mm
D30 : 0.2629 mm
D15 : 0.1315 mm
D10 : 0.0829 mm

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-1-b(0)
AASHTO Group Name : Stone Fragments, Gravel and Sand

# GEOTECHNICAL LABORATORY TEST DATA

Project : Naval Submarine Base
Project No. : GTX-682
Boring No. : ---
Sample No. : D-03
Location : Groton, CT
Soil Description : Saturated dark brown silty sand with organics
Remarks : ---

Depth : ---
Test Date : 12/08/94
Test Method : ASTM D422

Filename : D03
Elevation : ---
Tested by : gph
Checked by : gtt

## HYDROMETER

Hydrometer ID : hy1
Weight of air-dried soil = 50.14 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

| Elapsed Time (min) | Reading | Temperature (deg. C) | Corrected Reading | Particle Size (mm) | Percent Finer (%) | Adjusted Particle Size |
|---|---|---|---|---|---|---|
| 1.00 | 10.20 | 16.50 | 3.31 | 0.055 | 6 | 0.055 |
| 2.00 | 9.30 | 16.50 | 2.41 | 0.039 | 4 | 0.039 |
| 4.00 | 8.90 | 16.50 | 2.01 | 0.028 | 3 | 0.028 |
| 8.00 | 8.10 | 16.50 | 1.21 | 0.020 | 2 | 0.020 |
| 15.00 | 7.90 | 16.50 | 1.01 | 0.014 | 2 | 0.014 |
| 30.00 | 7.10 | 16.60 | 0.25 | 0.010 | 0 | 0.010 |
| 61.00 | 6.80 | 16.90 | 0.05 | 0.007 | 0 | 0.007 |

## FINE SIEVE SET

| Sieve Mesh | Sieve Openings Inches | Millimeters | Weight Retained (gm) | Cumulative Weight Retained (gm) | Percent Finer (%) |
|---|---|---|---|---|---|
| 0.375" | 0.374 | 9.51 | 0.00 | 0.00 | 100 |
| #4 | 0.187 | 4.75 | 1.11 | 1.11 | 99 |
| #10 | 0.079 | 2.00 | 9.98 | 11.09 | 87 |
| #20 | 0.033 | 0.84 | 14.24 | 25.33 | 70 |
| #40 | 0.017 | 0.42 | 15.78 | 41.11 | 51 |
| #60 | 0.010 | 0.25 | 15.55 | 56.66 | 32 |
| #100 | 0.006 | 0.15 | 10.70 | 67.36 | 19 |
| #200 | 0.003 | 0.07 | 7.07 | 74.43 | 11 |
| Pan | | | 8.76 | 83.19 | 0 |

Total Dry Weight of Sample = 91.48

D85 : 1.8380 mm
D60 : 0.5929 mm
D50 : 0.4133 mm
D30 : 0.2317 mm
D15 : 0.1069 mm
D10 : 0.0716 mm

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-2-4(0)
AASHTO Group Name : Silty Gravel and Sand

# GEOTECHNICAL LABORATORY TEST DATA

Project : Naval Submarine Base
Project No. : GTX-682
Boring No. : ---
Sample No. : T3-A
Location : Groton, CT
Soil Description : Moist brown sand with some silt
Remarks : ---

Depth : ---
Test Date : 12/09/94
Test Method : ASTM D422

Filename : T3A
Elevation : ---
Tested by : gph
Checked by : gtt

## HYDROMETER

Hydrometer ID : hy1
Weight of air-dried soil = 102.46 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

| Elapsed Time (min) | Reading | Temperature (deg. C) | Corrected Reading | Particle Size (mm) | Percent Finer (%) | Adjusted Particle Size |
|---|---|---|---|---|---|---|
| 1.00 | 13.30 | 16.20 | 6.31 | 0.054 | 5 | 0.054 |
| 2.00 | 12.00 | 16.20 | 5.01 | 0.038 | 4 | 0.038 |
| 4.00 | 11.00 | 16.20 | 4.01 | 0.027 | 3 | 0.027 |
| 8.00 | 10.10 | 16.20 | 3.11 | 0.019 | 2 | 0.019 |
| 15.00 | 9.20 | 16.30 | 2.25 | 0.014 | 2 | 0.014 |
| 30.00 | 8.10 | 16.50 | 1.21 | 0.010 | 1 | 0.010 |
| 62.00 | 7.90 | 16.90 | 1.15 | 0.007 | 1 | 0.007 |
| 120.00 | 7.00 | 16.70 | 0.18 | 0.005 | 0 | 0.005 |

## FINE SIEVE SET

| Sieve Mesh | Sieve Openings Inches | Millimeters | Weight Retained (gm) | Cumulative Weight Retained (gm) | Percent Finer (%) |
|---|---|---|---|---|---|
| 0.75" | 0.748 | 19.00 | 0.00 | 0.00 | 100 |
| 0.5" | 0.500 | 12.70 | 5.44 | 5.44 | 96 |
| #4 | 0.187 | 4.75 | 9.53 | 14.97 | 90 |
| #10 | 0.079 | 2.00 | 16.18 | 31.15 | 80 |
| #20 | 0.033 | 0.84 | 29.64 | 60.79 | 60 |
| #40 | 0.017 | 0.42 | 31.83 | 92.62 | 40 |
| #60 | 0.010 | 0.25 | 25.26 | 117.88 | 23 |
| #100 | 0.006 | 0.15 | 13.59 | 131.47 | 14 |
| #200 | 0.003 | 0.07 | 9.23 | 140.70 | 8 |
| Pan | | | 13.06 | 153.76 | 0 |

Total Dry Weight of Sample = 163.15

D85 : 3.0815 mm
D60 : 0.8280 mm
D50 : 0.5921 mm
D30 : 0.3086 mm
D15 : 0.1535 mm
D10 : 0.0882 mm

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-1-b(0)
AASHTO Group Name : Stone Fragments, Gravel and Sand

# GEOTECHNICAL LABORATORY TEST DATA

Project : Naval Submarine Base
Project No. : GTX-682
Boring No. : ---
Sample No. : T4-A
Location : Groton, CT
Soil Description : Brown silty sand with some organics
Remarks : Hydrometer not required, fines < 10%

Depth : ---
Test Date : 12/06/94
Test Method : ASTM D422

Filename : T4A
Elevation : ---
Tested by : jdt
Checked by : gtt

FINE SIEVE SET

| Sieve Mesh | Sieve Openings Inches | Millimeters | Weight Retained (gm) | Cumulative Weight Retained (gm) | Percent Finer (%) |
|---|---|---|---|---|---|
| 0.375" | 0.374 | 9.51 | 0.00 | 0.00 | 100 |
| #4 | 0.187 | 4.75 | 2.96 | 2.96 | 98 |
| #10 | 0.079 | 2.00 | 18.73 | 21.69 | 83 |
| #20 | 0.033 | 0.84 | 24.56 | 46.25 | 64 |
| #40 | 0.017 | 0.42 | 23.07 | 69.32 | 47 |
| #60 | 0.010 | 0.25 | 21.79 | 91.11 | 30 |
| #100 | 0.006 | 0.15 | 15.27 | 106.38 | 18 |
| #200 | 0.003 | 0.07 | 11.63 | 118.01 | 9 |
| Pan | | | 11.84 | 129.85 | 0 |

Total Dry Weight of Sample = 138.11

D85 : 2.2152 mm
D60 : 0.7086 mm
D50 : 0.4794 mm
D30 : 0.2513 mm
D15 : 0.1172 mm
D10 : 0.0793 mm

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-1-b(0)
AASHTO Group Name : Stone Fragments, Gravel and Sand

# GEOTECHNICAL LABORATORY TEST DATA

Project : Naval Submarine Base
Project No. : GTX-682
Boring No. : ---
Sample No. : T5-A
Location : Groton, CT
Soil Description : Moist, black silty sand with some organics
Remarks : ---

Depth : ---
Test Date : 12/09/94
Test Method : ASTM D422

Filename : T5A
Elevation : ---
Tested by : jdt
Checked by : gtt

## HYDROMETER

Hydrometer ID : hy1-2
Weight of air-dried soil = 124.14 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

| Elapsed Time (min) | Reading | Temperature (deg. C) | Corrected Reading | Particle Size (mm) | Percent Finer (%) | Adjusted Particle Size |
|---|---|---|---|---|---|---|
| 1.00 | 27.60 | 17.80 | 17.40 | 0.048 | 13 | 0.048 |
| 2.00 | 23.90 | 17.80 | 13.70 | 0.035 | 10 | 0.035 |
| 4.00 | 21.20 | 17.80 | 11.00 | 0.025 | 8 | 0.025 |
| 8.00 | 19.20 | 17.90 | 9.01 | 0.018 | 7 | 0.018 |
| 15.00 | 18.10 | 17.70 | 7.89 | 0.013 | 6 | 0.013 |
| 31.00 | 16.00 | 17.50 | 5.76 | 0.009 | 4 | 0.009 |
| 60.00 | 14.20 | 17.20 | 3.92 | 0.007 | 3 | 0.007 |
| 123.00 | 14.00 | 17.00 | 3.70 | 0.005 | 3 | 0.005 |
| 240.00 | 12.80 | 17.80 | 2.60 | 0.003 | 2 | 0.003 |
| 320.00 | 11.60 | 18.30 | 1.46 | 0.003 | 1 | 0.003 |
| 955.00 | 11.20 | 16.80 | 0.88 | 0.002 | 1 | 0.002 |

## FINE SIEVE SET

| Sieve Mesh | Sieve Openings Inches | Millimeters | Weight Retained (gm) | Cumulative Weight Retained (gm) | Percent Finer (%) |
|---|---|---|---|---|---|
| 0.375" | 0.374 | 9.51 | 0.00 | 0.00 | 100 |
| #4 | 0.187 | 4.75 | 1.63 | 1.63 | 99 |
| #10 | 0.079 | 2.00 | 10.56 | 12.19 | 92 |
| #20 | 0.033 | 0.84 | 27.33 | 39.52 | 73 |
| #40 | 0.017 | 0.42 | 31.04 | 70.56 | 52 |
| #60 | 0.010 | 0.25 | 24.33 | 94.89 | 36 |
| #100 | 0.006 | 0.15 | 13.46 | 108.35 | 27 |
| #200 | 0.003 | 0.07 | 11.67 | 120.02 | 19 |
| Pan | | | 27.80 | 147.82 | 0 |

Total Dry Weight of Sample = 157

D85 : 1.4575 mm
D60 : 0.5424 mm
D50 : 0.3910 mm
D30 : 0.1797 mm
D15 : 0.0562 mm
D10 : 0.0341 mm

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-2-4(0)
AASHTO Group Name : Silty Gravel and Sand

# GEOTECHNICAL LABORATORY TEST DATA

Project : Naval Submarine Base
Project No. : GTX-682
Boring No. : ---
Sample No. : T6-A
Location : Groton, CT
Soil Description : Brown silty, clayey sand with organics
Remarks : ---

Depth : ---
Test Date : 12/09/94
Test Method : ASTM D422

Filename : T6A
Elevation : ---
Tested by : jdt
Checked by : gtt

## HYDROMETER

Hydrometer ID : hy1
Weight of air-dried soil = 29.33 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

| Elapsed Time (min) | Reading | Temperature (deg. C) | Corrected Reading | Particle Size (mm) | Percent Finer (%) | Adjusted Particle Size |
|---|---|---|---|---|---|---|
| 1.00 | 13.20 | 16.70 | 6.38 | 0.054 | 20 | 0.054 |
| 2.00 | 11.30 | 16.70 | 4.48 | 0.038 | 14 | 0.038 |
| 4.00 | 10.40 | 16.70 | 3.58 | 0.027 | 11 | 0.027 |
| 8.00 | 10.00 | 16.70 | 3.18 | 0.019 | 10 | 0.019 |
| 15.00 | 9.10 | 16.80 | 2.32 | 0.014 | 7 | 0.014 |
| 30.00 | 8.00 | 17.00 | 1.29 | 0.010 | 4 | 0.010 |

## FINE SIEVE SET

| Sieve Mesh | Sieve Openings Inches | Sieve Openings Millimeters | Weight Retained (gm) | Cumulative Weight Retained (gm) | Percent Finer (%) |
|---|---|---|---|---|---|
| 0.375" | 0.374 | 9.51 | 0.00 | 0.00 | 100 |
| #4 | 0.187 | 4.75 | 0.94 | 0.94 | 98 |
| #10 | 0.079 | 2.00 | 2.46 | 3.40 | 91 |
| #20 | 0.033 | 0.84 | 3.91 | 7.31 | 82 |
| #40 | 0.017 | 0.42 | 3.75 | 11.06 | 72 |
| #60 | 0.010 | 0.25 | 4.02 | 15.08 | 62 |
| #100 | 0.006 | 0.15 | 4.43 | 19.51 | 51 |
| #200 | 0.003 | 0.07 | 6.05 | 25.56 | 35 |
| Pan | | | 14.02 | 39.58 | 0 |

Total Dry Weight of Sample = 47.36

D85 : 1.1400 mm
D60 : 0.2290 mm
D50 : 0.1443 mm
D30 : 0.0661 mm
D15 : 0.0405 mm
D10 : 0.0196 mm

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-4(0)
AASHTO Group Name : Silty Soils

# GEOTECHNICAL LABORATORY TEST DATA

Project : Naval Submarine Base
Project No. : GTX-682
Boring No. : ---
Sample No. : D-05
Location : Groton, CT
Soil Description : Saturated, red/brwn sandy, clayey silt w/ organics
Remarks : ---

Depth : ---
Test Date : 12/08/94
Test Method : ASTM D422

Filename : D05
Elevation : ---
Tested by : jdt
Checked by : gtt

## HYDROMETER

Hydrometer ID : hy1
Weight of air-dried soil = 38.84 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

| Elapsed Time (min) | Reading | Temperature (deg. C) | Corrected Reading | Particle Size (mm) | Percent Finer (%) | Adjusted Particle Size |
|---|---|---|---|---|---|---|
| 1.00 | 20.50 | 16.50 | 13.61 | 0.051 | 34 | 0.051 |
| 2.00 | 18.10 | 16.50 | 11.21 | 0.037 | 28 | 0.037 |
| 4.00 | 17.00 | 16.50 | 10.11 | 0.026 | 25 | 0.026 |
| 8.00 | 15.30 | 16.50 | 8.41 | 0.019 | 21 | 0.019 |
| 15.00 | 14.00 | 16.50 | 7.11 | 0.014 | 18 | 0.014 |
| 30.00 | 12.20 | 16.60 | 5.35 | 0.010 | 13 | 0.010 |
| 60.00 | 10.00 | 16.90 | 3.25 | 0.007 | 8 | 0.007 |
| 120.00 | 9.00 | 17.40 | 2.42 | 0.005 | 6 | 0.005 |
| 240.00 | 7.90 | 17.10 | 1.22 | 0.004 | 3 | 0.004 |

## FINE SIEVE SET

| Sieve Mesh | Sieve Openings Inches | Millimeters | Weight Retained (gm) | Cumulative Weight Retained (gm) | Percent Finer (%) |
|---|---|---|---|---|---|
| 0.375" | 0.374 | 9.51 | 0.00 | 0.00 | 100 |
| #4 | 0.187 | 4.75 | 0.12 | 0.12 | 100 |
| #10 | 0.079 | 2.00 | 2.33 | 2.45 | 96 |
| #20 | 0.033 | 0.84 | 4.12 | 6.57 | 88 |
| #40 | 0.017 | 0.42 | 4.08 | 10.65 | 81 |
| #60 | 0.010 | 0.25 | 4.51 | 15.16 | 73 |
| #100 | 0.006 | 0.15 | 5.64 | 20.80 | 63 |
| #200 | 0.003 | 0.07 | 6.89 | 27.69 | 51 |
| Pan | | | 28.55 | 56.24 | 0 |

Total Dry Weight of Sample = 64.31

D85 : 0.6122 mm
D60 : 0.1254 mm
D50 : 0.0728 mm
D30 : 0.0421 mm
D15 : 0.0113 mm
D10 : 0.0080 mm

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-4(0)
AASHTO Group Name : Silty Soils

# GEOTECHNICAL LABORATORY TEST DATA

Project : Naval Submarine Base
Project No. : GTX-682
Boring No. : ---
Sample No. : T7-A
Location : Groton, CT
Soil Description : Moist, black silty sand with organics
Remarks : ---

Depth : ---
Test Date : 12/08/94
Test Method : ASTM D422

Filename : T7A
Elevation : ---
Tested by : jdt
Checked by : gtt

## HYDROMETER

Hydrometer ID : hyl-2
Weight of air-dried soil = 43.84 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

| Elapsed Time (min) | Reading | Temperature (deg. C) | Corrected Reading | Particle Size (mm) | Percent Finer (%) | Adjusted Particle Size |
|---|---|---|---|---|---|---|
| 1.00 | 16.20 | 16.20 | 5.80 | 0.053 | 11 | 0.053 |
| 2.00 | 13.60 | 16.20 | 3.20 | 0.038 | 6 | 0.038 |
| 4.00 | 13.00 | 16.20 | 2.60 | 0.027 | 5 | 0.027 |
| 8.00 | 12.70 | 16.20 | 2.30 | 0.019 | 4 | 0.019 |
| 15.00 | 12.30 | 16.20 | 1.90 | 0.014 | 3 | 0.014 |
| 30.00 | 11.90 | 16.20 | 1.50 | 0.010 | 3 | 0.010 |
| 60.00 | 11.60 | 16.20 | 1.20 | 0.007 | 2 | 0.007 |

## FINE SIEVE SET

| Sieve Mesh | Sieve Openings Inches | Millimeters | Weight Retained (gm) | Cumulative Weight Retained (gm) | Percent Finer (%) |
|---|---|---|---|---|---|
| 0.375" | 0.374 | 9.51 | 0.00 | 0.00 | 100 |
| #4 | 0.187 | 4.75 | 1.54 | 1.54 | 96 |
| #10 | 0.079 | 2.00 | 6.45 | 7.99 | 80 |
| #20 | 0.033 | 0.84 | 7.87 | 15.86 | 60 |
| #40 | 0.017 | 0.42 | 6.37 | 22.23 | 44 |
| #60 | 0.010 | 0.25 | 5.10 | 27.33 | 32 |
| #100 | 0.006 | 0.15 | 3.59 | 30.92 | 23 |
| #200 | 0.003 | 0.07 | 3.21 | 34.13 | 15 |
| Pan | | | 5.80 | 39.93 | 0 |

Total Dry Weight of Sample = 47.92

D85 : 2.6154 mm
D60 : 0.8308 mm
D50 : 0.5376 mm
D30 : 0.2286 mm
D15 : 0.0771 mm
D10 : 0.0508 mm

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-1-b(0)
AASHTO Group Name : Stone Fragments, Gravel and Sand

# GEOTECHNICAL LABORATORY TEST DATA

Project : Naval Submarine Base
Project No. : GTX-682
Boring No. : ---
Sample No. : T8-A
Location : Groton, CT
Soil Description : Gray/brown silt
Remarks : ---

Depth : ---
Test Date : 12/08/94
Test Method : ASTM D422

Filename : T8A
Elevation : ---
Tested by : jdt
Checked by : gtt

## HYDROMETER

Hydrometer ID : hy1-2
Weight of air-dried soil = 47.29 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

| Elapsed Time (min) | Reading | Temperature (deg. C) | Corrected Reading | Particle Size (mm) | Percent Finer (%) | Adjusted Particle Size |
|---|---|---|---|---|---|---|
| 1.00 | 41.00 | 17.70 | 30.79 | 0.044 | 65 | 0.044 |
| 2.00 | 37.10 | 17.70 | 26.89 | 0.032 | 57 | 0.032 |
| 4.00 | 36.00 | 17.70 | 25.79 | 0.023 | 55 | 0.023 |
| 8.00 | 33.10 | 17.70 | 22.89 | 0.016 | 48 | 0.016 |
| 15.00 | 30.90 | 17.70 | 20.69 | 0.012 | 44 | 0.012 |
| 30.00 | 27.20 | 17.80 | 17.00 | 0.009 | 36 | 0.009 |
| 60.00 | 24.00 | 17.90 | 13.81 | 0.006 | 29 | 0.006 |
| 130.00 | 21.40 | 18.20 | 11.25 | 0.004 | 24 | 0.004 |
| 245.00 | 20.10 | 18.60 | 10.00 | 0.003 | 21 | 0.003 |
| 966.00 | 16.90 | 17.30 | 6.64 | 0.002 | 14 | 0.002 |

## FINE SIEVE SET

| Sieve Mesh | Sieve Openings Inches | Millimeters | Weight Retained (gm) | Cumulative Weight Retained (gm) | Percent Finer (%) |
|---|---|---|---|---|---|
| #4 | 0.187 | 4.75 | 0.00 | 0.00 | 100 |
| #10 | 0.079 | 2.00 | 0.06 | 0.06 | 100 |
| #20 | 0.033 | 0.84 | 0.15 | 0.21 | 99 |
| #40 | 0.017 | 0.42 | 0.12 | 0.33 | 99 |
| #60 | 0.010 | 0.25 | 0.10 | 0.43 | 99 |
| #100 | 0.006 | 0.15 | 0.20 | 0.63 | 98 |
| #200 | 0.003 | 0.07 | 1.31 | 1.94 | 95 |
| Pan | | | 35.76 | 37.70 | 0 |

Total Dry Weight of Sample = 45.71

D85 : 0.0621 mm
D60 : 0.0358 mm
D50 : 0.0179 mm
D30 : 0.0066 mm
D15 : 0.0018 mm
D10 : 0.0012 mm

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-4(0)
AASHTO Group Name : Silty Soils

# GEOTECHNICAL LABORATORY TEST DATA

Project : Naval Submarine Base
Project No. : GTX-682
Boring No. : ---
Sample No. : T9-A
Location : Groton, CT
Soil Description : Brown sandy silt
Remarks : ---

Depth : ---
Test Date : 12/08/94
Test Method : ASTM D422

Filename : T9A
Elevation : ---
Tested by : jdt
Checked by : gtt

## HYDROMETER

Hydrometer ID : hyl-2
Weight of air-dried soil = 47.72 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

| Elapsed Time (min) | Reading | Temperature (deg. C) | Corrected Reading | Particle Size (mm) | Percent Finer (%) | Adjusted Particle Size |
|---|---|---|---|---|---|---|
| 1.00 | 33.50 | 20.50 | 23.79 | 0.045 | 47 | 0.045 |
| 2.00 | 27.30 | 20.50 | 17.59 | 0.033 | 34 | 0.033 |
| 4.00 | 25.00 | 20.50 | 15.29 | 0.024 | 30 | 0.024 |
| 8.00 | 22.00 | 20.40 | 12.26 | 0.017 | 24 | 0.017 |
| 18.00 | 19.00 | 20.10 | 9.19 | 0.012 | 18 | 0.012 |
| 31.00 | 16.80 | 19.80 | 6.91 | 0.009 | 14 | 0.009 |
| 60.00 | 15.00 | 19.30 | 4.99 | 0.007 | 10 | 0.007 |
| 121.00 | 13.40 | 18.30 | 3.26 | 0.005 | 6 | 0.005 |
| 240.00 | 13.00 | 17.50 | 2.76 | 0.003 | 5 | 0.003 |
| 1239.00 | 12.00 | 16.20 | 1.60 | 0.002 | 3 | 0.002 |

## FINE SIEVE SET

| Sieve Mesh | Sieve Openings Inches | Millimeters | Weight Retained (gm) | Cumulative Weight Retained (gm) | Percent Finer (%) |
|---|---|---|---|---|---|
| 0.375" | 0.374 | 9.51 | 0.00 | 0.00 | 100 |
| #4 | 0.187 | 4.75 | 1.62 | 1.62 | 97 |
| #10 | 0.079 | 2.00 | 2.55 | 4.17 | 93 |
| #20 | 0.033 | 0.84 | 3.06 | 7.23 | 88 |
| #40 | 0.017 | 0.42 | 3.16 | 10.39 | 83 |
| #60 | 0.010 | 0.25 | 3.26 | 13.65 | 78 |
| #100 | 0.006 | 0.15 | 2.98 | 16.63 | 73 |
| #200 | 0.003 | 0.07 | 4.60 | 21.23 | 65 |
| Pan | | | 39.85 | 61.08 | 0 |

Total Dry Weight of Sample = 69.61

D85 : 0.5501 mm
D60 : 0.0642 mm
D50 : 0.0490 mm
D30 : 0.0239 mm
D15 : 0.0098 mm
D10 : 0.0067 mm

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-4(0)
AASHTO Group Name : Silty Soils

# GEOTECHNICAL LABORATORY TEST DATA

Project : Naval Submarine Base
Project No. : GTX-682
Boring No. : ---
Sample No. : T10-A
Location : Groton, CT
Soil Description : Brown silty sand with organics
Remarks : ---

Depth : ---
Test Date : 12/08/94
Test Method : ASTM D422

Filename : T10A
Elevation : ---
Tested by : jdt
Checked by : gtt

## HYDROMETER

Hydrometer ID : hy1-2
Weight of air-dried soil = 142.98 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

| Elapsed Time (min) | Reading | Temperature (deg. C) | Corrected Reading | Particle Size (mm) | Percent Finer (%) | Adjusted Particle Size |
|---|---|---|---|---|---|---|
| 1.00 | 36.60 | 16.20 | 26.20 | 0.046 | 18 | 0.046 |
| 2.00 | 31.20 | 16.20 | 20.80 | 0.034 | 14 | 0.034 |
| 4.00 | 27.00 | 16.20 | 16.60 | 0.025 | 11 | 0.025 |
| 8.00 | 22.60 | 16.20 | 12.20 | 0.018 | 8 | 0.018 |
| 15.00 | 18.50 | 16.20 | 8.10 | 0.013 | 5 | 0.013 |
| 38.00 | 15.80 | 16.20 | 5.40 | 0.009 | 4 | 0.009 |
| 60.00 | 15.00 | 16.40 | 4.63 | 0.007 | 3 | 0.007 |
| 120.00 | 14.00 | 16.80 | 3.68 | 0.005 | 2 | 0.005 |
| 257.00 | 13.00 | 16.90 | 2.69 | 0.003 | 2 | 0.003 |
| 1369.00 | 12.00 | 16.20 | 1.60 | 0.001 | 1 | 0.001 |

## FINE SIEVE SET

| Sieve Mesh | Sieve Openings Inches | Sieve Openings Millimeters | Weight Retained (gm) | Cumulative Weight Retained (gm) | Percent Finer (%) |
|---|---|---|---|---|---|
| 0.375" | 0.374 | 9.51 | 0.00 | 0.00 | 100 |
| #4 | 0.187 | 4.75 | 0.39 | 0.39 | 99 |
| #10 | 0.079 | 2.00 | 1.78 | 2.17 | 96 |
| #20 | 0.033 | 0.84 | 6.86 | 9.03 | 83 |
| #40 | 0.017 | 0.42 | 10.93 | 19.96 | 63 |
| #60 | 0.010 | 0.25 | 11.43 | 31.39 | 41 |
| #100 | 0.006 | 0.15 | 6.58 | 37.97 | 29 |
| #200 | 0.003 | 0.07 | 4.64 | 42.61 | 21 |
| Pan | | | 11.01 | 53.62 | 0 |

Total Dry Weight of Sample = 61.58

D85 : 0.9526 mm
D60 : 0.3926 mm
D50 : 0.3078 mm
D30 : 0.1542 mm
D15 : 0.0370 mm
D10 : 0.0218 mm

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-2-4(0)
AASHTO Group Name : Silty Gravel and Sand

# GEOTECHNICAL LABORATORY TEST DATA

Project : Naval Submarine Base
Project No. : GTX-682
Boring No. : ---
Sample No. : T1-B
Location : Groton, CT
Soil Description : Saturated brown silty sand
Remarks : ---

Depth : ---
Test Date : 12/09/94
Test Method : ASTM D422

Filename : T1B
Elevation : ---
Tested by : gph
Checked by : gtt

## HYDROMETER

Hydrometer ID : hy1
Weight of air-dried soil = 84.49 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

| Elapsed Time (min) | Reading | Temperature (deg. C) | Corrected Reading | Particle Size (mm) | Percent Finer (%) | Adjusted Particle Size |
|---|---|---|---|---|---|---|
| 1.00 | 19.40 | 18.10 | 13.06 | 0.051 | 12 | 0.051 |
| 2.00 | 16.00 | 18.10 | 9.66 | 0.037 | 9 | 0.037 |
| 4.00 | 12.30 | 18.10 | 5.96 | 0.026 | 6 | 0.026 |
| 8.00 | 10.20 | 18.10 | 3.86 | 0.019 | 4 | 0.019 |
| 16.00 | 9.00 | 18.20 | 2.70 | 0.013 | 3 | 0.013 |
| 31.00 | 7.60 | 17.70 | 1.13 | 0.010 | 1 | 0.010 |

## FINE SIEVE SET

| Sieve Mesh | Sieve Openings Inches | Millimeters | Weight Retained (gm) | Cumulative Weight Retained (gm) | Percent Finer (%) |
|---|---|---|---|---|---|
| 0.375" | 0.374 | 9.51 | 0.00 | 0.00 | 100 |
| #4 | 0.187 | 4.75 | 8.32 | 8.32 | 94 |
| #10 | 0.079 | 2.00 | 22.94 | 31.26 | 79 |
| #20 | 0.033 | 0.84 | 22.61 | 53.87 | 64 |
| #40 | 0.017 | 0.42 | 18.00 | 71.87 | 52 |
| #60 | 0.010 | 0.25 | 18.66 | 90.53 | 40 |
| #100 | 0.006 | 0.15 | 13.59 | 104.12 | 31 |
| #200 | 0.003 | 0.07 | 13.59 | 117.71 | 22 |
| Pan | | | 33.20 | 150.91 | 0 |

Total Dry Weight of Sample = 159.85

D85 : 2.7685 mm
D60 : 0.6546 mm
D50 : 0.3802 mm
D30 : 0.1378 mm
D15 : 0.0563 mm
D10 : 0.0401 mm

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-2-4(0)
AASHTO Group Name : Silty Gravel and Sand

# GEOTECHNICAL LABORATORY TEST DATA

Project : Naval Submarine Base
Project No. : GTX-682
Boring No. : ---
Sample No. : T2-B
Location : Groton, CT
Soil Description : Black saturated silty sand with organics
Remarks : ---

Depth : ---
Test Date : 12/08/94
Test Method : ASTM D422

Filename : T2B
Elevation : ---
Tested by : gph
Checked by : gtt

## HYDROMETER

Hydrometer ID : hy1-2
Weight of air-dried soil = 92.63 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

| Elapsed Time (min) | Reading | Temperature (deg. C) | Corrected Reading | Particle Size (mm) | Percent Finer (%) | Adjusted Particle Size |
|---|---|---|---|---|---|---|
| 1.00 | 27.90 | 16.20 | 17.50 | 0.049 | 18 | 0.049 |
| 2.00 | 26.50 | 16.20 | 16.10 | 0.035 | 17 | 0.035 |
| 4.00 | 25.20 | 16.20 | 14.80 | 0.025 | 15 | 0.025 |
| 8.00 | 23.00 | 16.20 | 12.60 | 0.018 | 13 | 0.018 |
| 15.00 | 21.00 | 16.20 | 10.60 | 0.013 | 11 | 0.013 |
| 30.00 | 19.00 | 16.20 | 8.60 | 0.010 | 9 | 0.010 |
| 60.00 | 17.00 | 16.20 | 6.60 | 0.007 | 7 | 0.007 |
| 120.00 | 15.20 | 16.20 | 4.80 | 0.005 | 5 | 0.005 |
| 240.00 | 14.60 | 16.60 | 4.25 | 0.003 | 4 | 0.003 |
| 960.00 | 13.00 | 16.20 | 2.60 | 0.002 | 3 | 0.002 |

## FINE SIEVE SET

| Sieve Mesh | Sieve Openings Inches | Millimeters | Weight Retained (gm) | Cumulative Weight Retained (gm) | Percent Finer (%) |
|---|---|---|---|---|---|
| 0.375" | 0.374 | 9.51 | 0.00 | 0.00 | 100 |
| #4 | 0.187 | 4.75 | 0.24 | 0.24 | 100 |
| #10 | 0.079 | 2.00 | 4.33 | 4.57 | 96 |
| #20 | 0.033 | 0.84 | 19.63 | 24.20 | 80 |
| #40 | 0.017 | 0.42 | 25.04 | 49.24 | 60 |
| #60 | 0.010 | 0.25 | 19.81 | 69.05 | 44 |
| #100 | 0.006 | 0.15 | 10.37 | 79.42 | 36 |
| #200 | 0.003 | 0.07 | 9.21 | 88.63 | 29 |
| Pan | | | 35.37 | 124.00 | 0 |

Total Dry Weight of Sample = 131.93

D85 : 1.0768 mm
D60 : 0.4161 mm
D50 : 0.3007 mm
D30 : 0.0850 mm
D15 : 0.0236 mm
D10 : 0.0112 mm

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-2-4(0)
AASHTO Group Name : Silty Gravel and Sand

# GEOTECHNICAL LABORATORY TEST DATA

Project : Naval Submarine Base
Project No. : GTX-682
Boring No. : ---
Sample No. : T3-B
Location : Groton, CT
Soil Description : Saturated black silty sand with organics
Remarks : ---

Depth : ---
Test Date : 12/08/94
Test Method : ASTM D422

Filename : T3B
Elevation : ---
Tested by : gph
Checked by : gtt

## HYDROMETER

Hydrometer ID : hyl-2
Weight of air-dried soil = 88.95 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

| Elapsed Time (min) | Reading | Temperature (deg. C) | Corrected Reading | Particle Size (mm) | Percent Finer (%) | Adjusted Particle Size |
|---|---|---|---|---|---|---|
| 1.00 | 22.40 | 16.20 | 12.00 | 0.051 | 11 | 0.051 |
| 2.00 | 20.10 | 16.20 | 9.70 | 0.037 | 9 | 0.037 |
| 4.00 | 19.00 | 16.20 | 8.60 | 0.026 | 8 | 0.026 |
| 8.00 | 17.90 | 16.20 | 7.50 | 0.019 | 7 | 0.019 |
| 15.00 | 16.10 | 16.20 | 5.70 | 0.014 | 5 | 0.014 |
| 30.00 | 15.10 | 16.20 | 4.70 | 0.010 | 4 | 0.010 |
| 60.00 | 14.00 | 16.20 | 3.60 | 0.007 | 3 | 0.007 |
| 122.00 | 12.20 | 16.20 | 1.80 | 0.005 | 2 | 0.005 |
| 240.00 | 11.80 | 16.60 | 1.45 | 0.003 | 1 | 0.003 |
| 960.00 | 11.20 | 16.20 | 0.80 | 0.002 | 1 | 0.002 |

## FINE SIEVE SET

| Sieve Mesh | Sieve Openings Inches | Millimeters | Weight Retained (gm) | Cumulative Weight Retained (gm) | Percent Finer (%) |
|---|---|---|---|---|---|
| 0.375" | 0.374 | 9.51 | 0.00 | 0.00 | 100 |
| #4 | 0.187 | 4.75 | 4.22 | 4.22 | 96 |
| #10 | 0.079 | 2.00 | 14.82 | 19.04 | 83 |
| #20 | 0.033 | 0.84 | 26.06 | 45.10 | 61 |
| #40 | 0.017 | 0.42 | 20.70 | 65.80 | 42 |
| #60 | 0.010 | 0.25 | 14.33 | 80.13 | 30 |
| #100 | 0.006 | 0.15 | 9.07 | 89.20 | 22 |
| #200 | 0.003 | 0.07 | 7.45 | 96.65 | 16 |
| Pan | | | 17.74 | 114.39 | 0 |

Total Dry Weight of Sample = 122.52

D85 : 2.2321 mm
D60 : 0.8227 mm
D50 : 0.5605 mm
D30 : 0.2505 mm
D15 : 0.0708 mm
D10 : 0.0420 mm

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-1-b(0)
AASHTO Group Name : Stone Fragments, Gravel and Sand

# GEOTECHNICAL LABORATORY TEST DATA

Project : Naval Submarine Base
Project No. : GTX-682
Boring No. : ---
Sample No. : T4-B
Location : Groton, CT

Depth : ---
Test Date : 12/09/94
Test Method : ASTM D422

Filename : T4B
Elevation : ---
Tested by : jdt
Checked by : gtt

Soil Description : Moist, brown silty sand with some organics
Remarks : Hydrometer not required, fines < 10%

FINE SIEVE SET

| Sieve Mesh | Sieve Openings Inches | Sieve Openings Millimeters | Weight Retained (gm) | Cumulative Weight Retained (gm) | Percent Finer (%) |
|---|---|---|---|---|---|
| 0.5" | 0.500 | 12.70 | 0.00 | 0.00 | 100 |
| 0.375" | 0.374 | 9.51 | 4.18 | 4.18 | 98 |
| #4 | 0.187 | 4.75 | 8.90 | 13.08 | 94 |
| #10 | 0.079 | 2.00 | 38.99 | 52.07 | 76 |
| #20 | 0.033 | 0.84 | 38.30 | 90.37 | 59 |
| #40 | 0.017 | 0.42 | 34.59 | 124.96 | 43 |
| #60 | 0.010 | 0.25 | 36.77 | 161.73 | 26 |
| #100 | 0.006 | 0.15 | 25.12 | 186.85 | 14 |
| #200 | 0.003 | 0.07 | 19.30 | 206.15 | 5 |
| Pan | | | 11.82 | 217.97 | 0 |

Total Dry Weight of Sample = 225.9

D85 : 3.0740 mm
D60 : 0.9038 mm
D50 : 0.5788 mm
D30 : 0.2845 mm
D15 : 0.1539 mm
D10 : 0.1063 mm

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-1-b(0)
AASHTO Group Name : Stone Fragments, Gravel and Sand

# GEOTECHNICAL LABORATORY TEST DATA

Project : Naval Submarine Base
Project No. : GTX-682
Boring No. : ---
Sample No. : T5-B
Location : Groton, CT
Soil Description : Moist, brown silty sand
Remarks : Hydrometer not required, fines < 10%

Depth : ---
Test Date : 12/09/94
Test Method : ASTM D422

Filename : T5B
Elevation : ---
Tested by : jdt
Checked by : gtt

FINE SIEVE SET

| Sieve Mesh | Sieve Openings Inches | Sieve Openings Millimeters | Weight Retained (gm) | Cumulative Weight Retained (gm) | Percent Finer (%) |
|---|---|---|---|---|---|
| 0.5" | 0.500 | 12.70 | 0.00 | 0.00 | 100 |
| 0.375" | 0.374 | 9.51 | 1.24 | 1.24 | 99 |
| #4 | 0.187 | 4.75 | 11.29 | 12.53 | 94 |
| #10 | 0.079 | 2.00 | 34.19 | 46.72 | 79 |
| #20 | 0.033 | 0.84 | 39.35 | 86.07 | 61 |
| #40 | 0.017 | 0.42 | 35.14 | 121.21 | 45 |
| #60 | 0.010 | 0.25 | 36.99 | 158.20 | 28 |
| #100 | 0.006 | 0.15 | 27.91 | 186.11 | 15 |
| #200 | 0.003 | 0.07 | 18.89 | 205.00 | 7 |
| Pan | | | 14.48 | 219.48 | 0 |

Total Dry Weight of Sample = 227.37

D85 : 2.8355 mm
D60 : 0.8129 mm
D50 : 0.5268 mm
D30 : 0.2665 mm
D15 : 0.1465 mm
D10 : 0.0976 mm

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-1-b(0)
AASHTO Group Name : Stone Fragments, Gravel and Sand

## GEOTECHNICAL LABORATORY TEST DATA

Project : Naval Submarine Base
Project No. : GTX-682
Boring No. : ---
Sample No. : T6-B
Location : Groton, CT
Soil Description : Saturated, dark brown silty, organic sand w/ odor
Remarks : ---

Depth : ---
Test Date : 12/08/94
Test Method : ASTM D422

Filename : T6B
Elevation : ---
Tested by : jdt
Checked by : gtt

### HYDROMETER

Hydrometer ID : hy1-2
Weight of air-dried soil = 57.21 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

| Elapsed Time (min) | Reading | Temperature (deg. C) | Corrected Reading | Particle Size (mm) | Percent Finer (%) | Adjusted Particle Size |
|---|---|---|---|---|---|---|
| 1.00 | 24.70 | 16.20 | 14.30 | 0.050 | 23 | 0.050 |
| 2.00 | 23.80 | 16.20 | 13.40 | 0.036 | 22 | 0.036 |
| 4.00 | 23.20 | 16.20 | 12.80 | 0.025 | 21 | 0.025 |
| 8.00 | 22.90 | 16.20 | 12.50 | 0.018 | 21 | 0.018 |
| 15.00 | 22.00 | 16.20 | 11.60 | 0.013 | 19 | 0.013 |
| 30.00 | 21.00 | 16.20 | 10.60 | 0.009 | 17 | 0.009 |
| 67.00 | 19.90 | 16.20 | 9.50 | 0.006 | 16 | 0.006 |
| 125.00 | 18.20 | 16.40 | 7.82 | 0.005 | 13 | 0.005 |
| 240.00 | 17.20 | 17.50 | 6.96 | 0.003 | 11 | 0.003 |
| 980.00 | 17.00 | 16.20 | 6.60 | 0.002 | 11 | 0.002 |

### FINE SIEVE SET

| Sieve Mesh | Sieve Openings Inches | Millimeters | Weight Retained (gm) | Cumulative Weight Retained (gm) | Percent Finer (%) |
|---|---|---|---|---|---|
| 0.375" | 0.374 | 9.51 | 0.00 | 0.00 | 100 |
| #4 | 0.187 | 4.75 | 0.36 | 0.36 | 99 |
| #10 | 0.079 | 2.00 | 3.14 | 3.50 | 94 |
| #20 | 0.033 | 0.84 | 9.75 | 13.25 | 76 |
| #40 | 0.017 | 0.42 | 10.07 | 23.32 | 58 |
| #60 | 0.010 | 0.25 | 8.20 | 31.52 | 44 |
| #100 | 0.006 | 0.15 | 5.27 | 36.79 | 34 |
| #200 | 0.003 | 0.07 | 4.90 | 41.69 | 26 |
| Pan | | | 14.27 | 55.96 | 0 |

Total Dry Weight of Sample = 64.06

D85 : 1.2947 mm
D60 : 0.4480 mm
D50 : 0.3128 mm
D30 : 0.1060 mm
D15 : 0.0059 mm
D10 : 0.0006 mm

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-2-4(0)
AASHTO Group Name : Silty Gravel and Sand

GEOTECHNICAL LABORATORY TEST DATA

Project : Naval Submarine Base
Project No. : GTX-682
Boring No. : ---
Sample No. : T7-B
Location : Groton, CT
Soil Description : Saturated, brown silty organic sand
Remarks : ---

Depth : ---
Test Date : 12/09/94
Test Method : ASTM D422

Filename : T7B
Elevation : ---
Tested by : jdt
Checked by : gtt

HYDROMETER

Hydrometer ID : hy1-2
Weight of air-dried soil = 17.02 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

| Elapsed Time (min) | Reading | Temperature (deg. C) | Corrected Reading | Particle Size (mm) | Percent Finer (%) | Adjusted Particle Size |
|---|---|---|---|---|---|---|
| 1.00 | 15.40 | 16.20 | 5.00 | 0.053 | 18 | 0.053 |
| 2.00 | 14.20 | 16.20 | 3.80 | 0.038 | 13 | 0.038 |
| 4.00 | 13.80 | 16.20 | 3.40 | 0.027 | 12 | 0.027 |
| 8.00 | 13.10 | 16.20 | 2.70 | 0.019 | 10 | 0.019 |
| 15.00 | 12.80 | 16.20 | 2.40 | 0.014 | 9 | 0.014 |
| 30.00 | 12.40 | 16.20 | 2.00 | 0.010 | 7 | 0.010 |
| 60.00 | 11.90 | 16.20 | 1.50 | 0.007 | 5 | 0.007 |
| 120.00 | 11.20 | 16.20 | 0.80 | 0.005 | 3 | 0.005 |
| 250.00 | 10.40 | 16.50 | 0.04 | 0.003 | 0 | 0.003 |

FINE SIEVE SET

| Sieve Mesh | Sieve Openings Inches | Sieve Openings Millimeters | Weight Retained (gm) | Cumulative Weight Retained (gm) | Percent Finer (%) |
|---|---|---|---|---|---|
| 0.375" | 0.374 | 9.51 | 0.00 | 0.00 | 100 |
| #4 | 0.187 | 4.75 | 6.73 | 6.73 | 76 |
| #10 | 0.079 | 2.00 | 4.44 | 11.17 | 60 |
| #20 | 0.033 | 0.84 | 4.12 | 15.29 | 46 |
| #40 | 0.017 | 0.42 | 2.44 | 17.73 | 37 |
| #60 | 0.010 | 0.25 | 1.77 | 19.50 | 31 |
| #100 | 0.006 | 0.15 | 1.30 | 20.80 | 26 |
| #200 | 0.003 | 0.07 | 1.22 | 22.02 | 22 |
| Pan | | | 6.15 | 28.17 | 0 |

Total Dry Weight of Sample = 37.41

D85 : 6.1502 mm
D60 : 1.9592 mm
D50 : 1.0835 mm
D30 : 0.2291 mm
D15 : 0.0427 mm
D10 : 0.0202 mm

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-1-b(0)
AASHTO Group Name : Stone Fragments, Gravel and Sand

# GEOTECHNICAL LABORATORY TEST DATA

Project : Naval Submarine Base
Project No. : GTX-682
Boring No. : ---
Sample No. : T8-B
Location : Groton, CT
Soil Description : Gray silty fine sand
Remarks : ---

Depth : ---
Test Date : 12/01/94
Test Method : ASTM D422

Filename : T8B
Elevation : ---
Tested by : jdt
Checked by : gtt

## HYDROMETER

Hydrometer ID : hy1-2
Weight of air-dried soil = 40.36 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

| Elapsed Time (min) | Reading | Temperature (deg. C) | Corrected Reading | Particle Size (mm) | Percent Finer (%) | Adjusted Particle Size |
|---|---|---|---|---|---|---|
| 1.00 | 35.80 | 19.30 | 25.79 | 0.044 | 64 | 0.044 |
| 2.00 | 32.20 | 19.30 | 22.19 | 0.032 | 55 | 0.032 |
| 4.00 | 30.70 | 19.20 | 20.68 | 0.023 | 51 | 0.023 |
| 8.00 | 28.10 | 19.00 | 18.05 | 0.017 | 45 | 0.017 |
| 15.00 | 26.00 | 19.00 | 15.95 | 0.012 | 40 | 0.012 |
| 30.00 | 22.00 | 18.80 | 11.93 | 0.009 | 30 | 0.009 |
| 60.00 | 19.10 | 18.20 | 8.95 | 0.007 | 22 | 0.007 |
| 120.00 | 17.20 | 17.80 | 7.00 | 0.005 | 17 | 0.005 |
| 245.00 | 16.10 | 17.20 | 5.83 | 0.003 | 14 | 0.003 |
| 1221.00 | 14.10 | 16.20 | 3.70 | 0.002 | 9 | 0.002 |

## FINE SIEVE SET

| Sieve Mesh | Sieve Openings Inches | Millimeters | Weight Retained (gm) | Cumulative Weight Retained (gm) | Percent Finer (%) |
|---|---|---|---|---|---|
| #4 | 0.187 | 4.75 | 0.00 | 0.00 | 100 |
| #10 | 0.079 | 2.00 | 0.04 | 0.04 | 100 |
| #20 | 0.033 | 0.84 | 0.15 | 0.19 | 99 |
| #40 | 0.017 | 0.42 | 0.14 | 0.33 | 99 |
| #60 | 0.010 | 0.25 | 0.11 | 0.44 | 99 |
| #100 | 0.006 | 0.15 | 0.16 | 0.60 | 98 |
| #200 | 0.003 | 0.07 | 0.44 | 1.04 | 97 |
| Pan | | | 33.28 | 34.32 | 0 |

Total Dry Weight of Sample = 42.47

D85 : 0.0615 mm
D60 : 0.0387 mm
D50 : 0.0218 mm
D30 : 0.0091 mm
D15 : 0.0036 mm
D10 : 0.0017 mm

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-4(0)
AASHTO Group Name : Silty Soils

# GEOTECHNICAL LABORATORY TEST DATA

Project : Naval Submarine Base
Project No. : GTX-682
Boring No. : ---
Sample No. : T9-B
Location : Groton, CT
Soil Description : Brown silt
Remarks : ---

Depth : ---
Test Date : 12/08/94
Test Method : ASTM D422

Filename : T9B
Elevation : ---
Tested by : jdt
Checked by : gtt

## HYDROMETER

Hydrometer ID : hy1-2
Weight of air-dried soil = 40.15 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

| Elapsed Time (min) | Reading | Temperature (deg. C) | Corrected Reading | Particle Size (mm) | Percent Finer (%) | Adjusted Particle Size |
|---|---|---|---|---|---|---|
| 1.00 | 33.50 | 21.80 | 24.14 | 0.044 | 60 | 0.044 |
| 2.00 | 30.00 | 21.80 | 20.64 | 0.032 | 51 | 0.032 |
| 4.00 | 28.10 | 21.70 | 18.71 | 0.023 | 47 | 0.023 |
| 8.00 | 25.80 | 21.60 | 16.38 | 0.016 | 41 | 0.016 |
| 15.00 | 23.90 | 21.20 | 14.38 | 0.012 | 36 | 0.012 |
| 31.00 | 21.20 | 20.80 | 11.57 | 0.009 | 29 | 0.009 |
| 60.00 | 19.00 | 20.20 | 9.21 | 0.006 | 23 | 0.006 |
| 130.00 | 17.00 | 18.60 | 6.90 | 0.004 | 17 | 0.004 |
| 249.00 | 16.10 | 17.60 | 5.88 | 0.003 | 15 | 0.003 |
| 1243.00 | 14.00 | 16.20 | 3.60 | 0.002 | 9 | 0.002 |

## FINE SIEVE SET

| Sieve Mesh | Sieve Openings Inches | Sieve Openings Millimeters | Weight Retained (gm) | Cumulative Weight Retained (gm) | Percent Finer (%) |
|---|---|---|---|---|---|
| #4 | 0.187 | 4.75 | 0.00 | 0.00 | 100 |
| #10 | 0.079 | 2.00 | 0.06 | 0.06 | 100 |
| #20 | 0.033 | 0.84 | 0.15 | 0.21 | 99 |
| #40 | 0.017 | 0.42 | 0.13 | 0.34 | 99 |
| #60 | 0.010 | 0.25 | 0.10 | 0.44 | 99 |
| #100 | 0.006 | 0.15 | 0.25 | 0.69 | 98 |
| #200 | 0.003 | 0.07 | 1.41 | 2.10 | 94 |
| Pan | | | 35.62 | 37.72 | 0 |

Total Dry Weight of Sample = 45.73

D85 : 0.0641 mm
D60 : 0.0437 mm
D50 : 0.0289 mm
D30 : 0.0092 mm
D15 : 0.0034 mm
D10 : 0.0018 mm

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-4(0)
AASHTO Group Name : Silty Soils

# GEOTECHNICAL LABORATORY TEST DATA

Project : Naval Submarine Base
Project No. : GTX-682
Boring No. : ---
Sample No. : T10-B
Location : Groton, CT
Soil Description : Brown silt with organics
Remarks : ---

Depth : ---
Test Date : 12/08/94
Test Method : ASTM D422

Filename : T10B
Elevation : ---
Tested by : jdt
Checked by : gtt

## HYDROMETER

Hydrometer ID : hy1-2
Weight of air-dried soil = 42.82 gm
Specific Gravity = 2.65

Hydroscopic Moisture Content :
Weight of Wet Soil = 0 gm
Weight of Dry Soil = 0 gm
Moisture Content = 0

| Elapsed Time (min) | Reading | Temperature (deg. C) | Corrected Reading | Particle Size (mm) | Percent Finer (%) | Adjusted Particle Size |
|---|---|---|---|---|---|---|
| 1.00 | 38.60 | 20.00 | 28.76 | 0.043 | 67 | 0.043 |
| 2.00 | 34.90 | 20.00 | 25.06 | 0.031 | 59 | 0.031 |
| 4.00 | 33.00 | 20.00 | 23.16 | 0.023 | 54 | 0.023 |
| 8.00 | 30.80 | 20.00 | 20.96 | 0.016 | 49 | 0.016 |
| 15.00 | 28.00 | 19.90 | 18.13 | 0.012 | 42 | 0.012 |
| 30.00 | 25.20 | 19.50 | 15.23 | 0.009 | 36 | 0.009 |
| 60.00 | 22.40 | 19.10 | 12.36 | 0.006 | 29 | 0.006 |
| 138.00 | 19.20 | 18.00 | 9.02 | 0.004 | 21 | 0.004 |
| 255.00 | 18.30 | 17.40 | 8.05 | 0.003 | 19 | 0.003 |
| 1249.00 | 15.90 | 16.20 | 5.50 | 0.002 | 13 | 0.002 |

## FINE SIEVE SET

| Sieve Mesh | Sieve Openings Inches | Millimeters | Weight Retained (gm) | Cumulative Weight Retained (gm) | Percent Finer (%) |
|---|---|---|---|---|---|
| 0.375" | 0.374 | 9.51 | 0.00 | 0.00 | 100 |
| #4 | 0.187 | 4.75 | 0.04 | 0.04 | 100 |
| #10 | 0.079 | 2.00 | 0.02 | 0.06 | 100 |
| #20 | 0.033 | 0.84 | 0.14 | 0.20 | 99 |
| #40 | 0.017 | 0.42 | 0.19 | 0.39 | 99 |
| #60 | 0.010 | 0.25 | 0.18 | 0.57 | 98 |
| #100 | 0.006 | 0.15 | 0.19 | 0.76 | 98 |
| #200 | 0.003 | 0.07 | 1.15 | 1.91 | 95 |
| Pan | | | 35.78 | 37.69 | 0 |

Total Dry Weight of Sample = 45.69

D85 : 0.0610 mm
D60 : 0.0332 mm
D50 : 0.0173 mm
D30 : 0.0067 mm
D15 : 0.0020 mm
D10 : 0.0010 mm

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-4(0)
AASHTO Group Name : Silty Soils

## ATTACHMENT A.4
## LANDFILL/WETLAND INTERFACE SAMPLE CHAIN OF CUSTODY FORMS

# CHAIN OF CUSTODY RECORD

715

PROJECT NO.: 9594

SITE NAME: NSB - NLON

SAMPLERS (SIGNATURE): [signature]

| STATION NO. | DATE | TIME | COMP | GRAB | STATION LOCATION | NO. OF CONTAINERS | 40 ML VOA | 1 L TCL VOCS | 1 L AMBER TCL SVOC'S | 1 L AMBER TCL PEST/PCB | 1 L PE TOTAL METALS + BORON + HARDNESS | 60 ML TCL GLASS | 250 ML TCL SVOC'S PESTICIDES | 1 L PE TOTAL METALS + BORON | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TRIP BLANK | 11/26/94 | 0940 | | ✓ | TB-6 | 2 | 2 | | | | | | | | |
| AREA A WETLANDS | 11/28/94 | 0745 | | ✓ | FB-2 | 8 | 2 | 2 | 2 | 1 | | | 1 | ✓ | |
| | | 0912 | | ✓ | EB-2 | 8 | 2 | 2 | 2 | 1 | | | 1 | ✓ | |
| | | 1257 | | ✓ | T1-A | | | | | | 2 | 1 | | | |
| | | 1311 | | ✓ | T1-B | | | | | | 2 | 1 | | | |
| | | 1333 | | ✓ | T2-A | | | | | | 2 | 1 | | | |
| | | — | | ✓ | DUPLICATE-03 | | | | | | 2 | 1 | | | |
| | | 1455 | | ✓ | T2-B | | | | | | 2 | 1 | | | |
| | | 1515 | | ✓ | T3-A | | | | | | 2 | 1 | | | |
| | | 1540 | | ✓ | T3-B | | | | | | 2 | 1 | | | |

TRANSECTS STIV 1115

| RELINQUISHED BY (SIGNATURE): | DATE / TIME: | RECEIVED BY (SIGNATURE): | RELINQUISHED BY (SIGNATURE): | DATE / TIME: | RECEIVED BY (SIGNATURE): |
|---|---|---|---|---|---|
| [signature] | 11/28/94 1630 | FED EX | | | |
| RELINQUISHED BY (SIGNATURE): | DATE / TIME: | RECEIVED BY (SIGNATURE): | RELINQUISHED BY (SIGNATURE): | DATE / TIME: | RECEIVED BY (SIGNATURE): |
| | | | | | |
| RELINQUISHED BY (SIGNATURE): | DATE / TIME: | RECEIVED FOR LABORATORY BY (SIGNATURE): | DATE / TIME: | REMARKS: SHIPPED TO SU CAB | |
| | | [signature] | 11-29-94 1000 | AB# 169790413 | |

Order No 70440 (0693)

9544/1200

# CHAIN OF CUSTODY RECORD

730

PROJECT NO.: 9594

SITE NAME: NSB - NCON

SAMPLERS (SIGNATURE): [signature] Anthony F Colombo Jr.

| STATION NO. | DATE | TIME | COMP | GRAB | STATION LOCATION | NO. OF CONTAINERS | TCL 40ml vials | TCL SVOCs 1L Amber | TCL PEST/PCB 1L Amber | TAL metals + Total Hardness Aluminum 1L PE | CN, 1L PE | TCL VOCs 2oz jars | TCL SVOCs PEST, PCB 8082 for TAL metals, CN, Boron | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Trip Blank | 11/29/94 | 0940 | | — | TB-7 | 2 | 2 | | | | | | | |
| Area A wetlands | 11/29/94 | 0710 | | / | EB-3 | 8 | 2 | 2 | 2 | 1 | 1 | | | |
| | | 0828 | | / | T4-A | 3 | | | | | | 2 | 1 | |
| | | 0850 | | — | T4-B | 3 | | | | | | 2 | 1 | |
| | | 0920 | | — | T5-A | 3 | | | | | | 2 | 1 | |
| | | 0950 | | — | T5-B | 3 | | | | | | 2 | 1 | |
| | | 1005 | | — | T6-A | 3 | | | | | | 2 | 1 | |
| | | 0000 | | — | Duplicate - 05 | 3 | | | | | | 2 | 1 | |
| | | 1322 | | — | T6-B | 6 | | | | | | 4 | 2 | MS/MSD |
| | | 1403 | | — | T7-A | 3 | | | | | | 2 | 1 | |
| | | 1420 | | — | T7-B | 3 | | | | | | 2 | 1 | |

| RELINQUISHED BY (SIGNATURE): | DATE / TIME: | RECEIVED BY (SIGNATURE): | RELINQUISHED BY (SIGNATURE): | DATE / TIME: | RECEIVED BY (SIGNATURE): |
|---|---|---|---|---|---|
| [signature] Anthony F Colombo Jr. | 11/29/94 1630 | | | | |
| RELINQUISHED BY (SIGNATURE): | DATE / TIME: | RECEIVED BY (SIGNATURE): | RELINQUISHED BY (SIGNATURE): | DATE / TIME: | RECEIVED BY (SIGNATURE): |
| | | | | | |
| RELINQUISHED BY (SIGNATURE): | DATE / TIME: | RECEIVED FOR LABORATORY BY (SIGNATURE): [signature] | DATE / TIME: 11/30/94 1000 | REMARKS: Air Bill # 1699904183 SouthWest Labs | |

Order No 70440 (0693)

PROJECT NO.: 9594/1200

SITE NAME: NSB/NLON

SAMPLERS (SIGNATURE): Tony Calmore

| STATION NO. | DATE | TIME | COMP | GRAB | STATION LOCATION | NO. OF CONTAINERS | TCL VOCs 40ml vials | TCL SVOC + Aroclors | TCL PESTICIDES + Aroclors | TAL metals, Hg, Boron + Arsenic | CN | 1 L PE | TCL VOCs 2 oz jar | TCL SVOCs, PESTICIDES, TAL metals, CN & Boron | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Area A wetland | 11/30/94 | 0730 | | — | EB-4 ✓ | 8 | 2 | 2 | 2 | 1 | 1 | | | | |
| | | 0919 | | — | T8-A ✓ | 3 | | | | | | 2 | 1 | | |
| | | 0950 | | — | T8-B ✓ | 3 | | | | | | 2 | 1 | | |
| | | 1010 | | — | T9-A ✓ | 3 | | | | | | 2 | 1 | | |
| | | 1343 | | | T9-B ✓ | 3 | | | | | | 2 | 1 | | |
| | | 1426 | | | T10-A ✓ | 3 | | | | | | 2 | 1 | | |
| | | 1450 | | | T10-B ✓ | 3 | | | | | | 2 | 1 | | |

| RELINQUISHED BY (SIGNATURE): | DATE / TIME: | RECEIVED BY (SIGNATURE): | RELINQUISHED BY (SIGNATURE): | DATE / TIME: | RECEIVED BY (SIGNATURE): |
|---|---|---|---|---|---|
| Tony Calmore | 11/30/94 1630 | | | | |
| RELINQUISHED BY (SIGNATURE): | DATE / TIME: | RECEIVED BY (SIGNATURE): | RELINQUISHED BY (SIGNATURE): | DATE / TIME: | RECEIVED BY (SIGNATURE): |
| | | | | | |
| RELINQUISHED BY (SIGNATURE): | DATE / TIME: | RECEIVED FOR LABORATORY BY (SIGNATURE): | DATE / TIME: | REMARKS: | |
| | | [illegible] | 12/1/94 1000 | Air Bill No: 1699904124 Southwest Labs | |

Order No. 70440 (0693)

9594/1300

# CHAIN OF CUSTODY RECORD

PROJECT NO.: 9594

SITE NAME: NSB-NLON

SAMPLERS (SIGNATURE): Andrew Kendrick

| STATION NO. | DATE | TIME | COMP | GRAB | STATION LOCATION | NO. OF CONTAINERS | 2 oz glass TCL VOAs | 4 oz glass TPH | 8 oz glass TCL SVOC, Pest/PCB | 8 oz glass TCL & TAL Metals | 40 ml vial TCL VOA | 1 L Amber TCL SVOC | 1 L Amber TCL Pest/PCB | 1 L Amber TAL Metals + Boron | 1 L Amber TPH | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lower Basin | 11/30/94 | 1530 | | ✓ | QW-1 ✓ | 6 | 2 | 1 | 1 | 2 | | | | | | |
| ↓ | ↓ | 1640 | | ✓ | EB-5 ✓ | 9 | | | | ~~1~~ 2 | 2 | 2 | 2 | 1 | 2 | Equip Blank |

| RELINQUISHED BY (SIGNATURE): | DATE / TIME: | RECEIVED BY (SIGNATURE): | RELINQUISHED BY (SIGNATURE): | DATE / TIME: | RECEIVED BY (SIGNATURE): |
|---|---|---|---|---|---|
| Timothy [illegible] | 11-30-94 1800 | | | | |
| RELINQUISHED BY (SIGNATURE): | DATE / TIME: | RECEIVED BY (SIGNATURE): | RELINQUISHED BY (SIGNATURE): | DATE / TIME: | RECEIVED BY (SIGNATURE): |
| | | | | | |
| RELINQUISHED BY (SIGNATURE): | DATE / TIME: | RECEIVED FOR LABORATORY BY (SIGNATURE): | DATE / TIME: | REMARKS: | |
| | | [illegible] | 12/1/94 1000 | Air Bill No. 169990 4124 South West Labs | |

Order No 70440 (069 1)

# ATTACHMENT A.5
# LANDFILL/WETLAND INTERFACE SAMPLE LOGSHEETS

# L..LIBURTON NUS Environmental Corporation

## SAMPLE LC SHEET

PA ___ OF ___

[X] SURFACE SOIL
[ ] SUBSURFACE SOIL
[ ] SEDIMENT
[ ] LAGOON/POND
[ ] OTHER

SAMPLERS SIGNATURE _____

SITE NAME NSB NLON/Area A Wetlands

SITE NUMBER 9594

| SAMPLE No. | SAMPLE METHOD | DEPTH (FT) | DATE | TIME | SAMPLED BY | CONCENTRATION (L)LOW (H)HIGH | (G)GRAB (C)COMPOSITE | ANALYSES: 60 mL glass TCL VOC | 250 mL glass TCL SVOC, P/P TAL Metals+B | 8oz glass TOC | 8oz glass Grain size | 8oz glass TCL SVOC, DIP + CN TAL Metals+B + Hard | | | No. OF CONT TOTAL | SOIL DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T1-A | HA | 0-1 | 11-28-94 | 1257 | TE/TC | L | G | 2 | 1 | 1 | 1 | | | | 5 | F-M Gr Silty Sand (D Brn) |
| T3-A | HA | 0-1 | 11-28-94 | 1515 | TE/TC | L | G | 2 | 1 | 1 | 1 | | | | 5 | F-M Gr Silty Sand Tr Org * |
| T4-A | HA | 0-1 | 11-29-94 | 0828 | TE/KS | L | G | 2 | 1 | 1 | 1 | 1 | | | 5 | M Gr Sand Tr Silt |
| T5-A | HA | 0-1 | 11-29-94 | 0900 | TE/KS | L | G | 2 | 1 | 1 | 1 | 1 | | | 5 | Silty Sand |
| T6-A | HA | 0-1 | 11-29-94 | 1000 | TE/KS | L | G | 2 | 1 | 1 | 1 | 1 | | | 5 | FGr Silty Sand |
| Duplicate-05 | HA | 0-1 | 11-29-94 | 0000 | TE/KS | L | G | 2 | 1 | 1 | 1 | 1 | | | 5 | Duplicate of T6-A |

REMARKS: HA : Hand Auger
* : Split sample w/ TRC

LAB: Chemical : Southwest Labs of OK
Geotech : Geotesting

ACAD: FORMS\LOG DWG 2/11/93 MB

**HALLIBURTON NUS**
*Environmental Corporation*

# SAMPLE LOG SHEET

☐ SURFACE SOIL
☐ SUBSURFACE SOIL
☒ SEDIMENT
☐ LAGOON/POND
☐ OTHER

SAMPLERS SIGNATURE _____

SITE NAME NSB NLON / Area A Wetlands

SITE NUMBER 9594

| SAMPLE No. | SAMPLE METHOD | DEPTH (FT) | DATE | TIME | SAMPLED BY | CONCENTRATION (L)LOW (H)HIGH | (G)GRAB (C)COMPOSITE | ANALYSES: 40 mL glass TCL VOC | 250 mL glass TCL SVOC, P/P TAL Metals + B | 8 oz glass TOC | 8 oz glass Grain Size | 8 oz glass TCL SVOC, P/P + CN TAL Metals + Alcohol + Hand | | | No. OF CONT TOTAL | SOIL DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T1-B | HA | 0-1' | 11-28-94 | 1311 | TE/TC | L | G | 2 | 1 | 1 | 1 | | | | 5 | M-C Gr Silty Sand Tr Org |
| T2-A | HA | 0-1' | 11-28-94 | 1333 | TE/TC | L | G | 2 | 1 | 1 | 1 | | | | 5 | VC Gr Silty Sand Tr Org ★ |
| Duplicate-Ø3 | HA | 0-1' | 11-28-94 | 0000 | TE/TC | L | G | 2 | 1 | 1 | 1 | | | | 5 | Duplicate of T2-A |
| T2-B | HA | 0-1' | 11-28-94 | 1455 | TE/TC | L | G | 2 | 1 | 1 | 1 | | | | 5 | M-C Gr Silty Sand Some Org |
| T3-B | HA | 0-1' | 11-28-94 | 1540 | TE/TC | L | G | 2 | 1 | 1 | 1 | | | | 5 | FM Gr Silty Sand / Sand Silt Tr Org D Brn |
| T4-B | HA | 0-1' | 11-29-94 | 0850 | TC/KS | L | G | 2 | 4 | 1 | 1 | 1 | | | 5 | M Gr Sand Tr Silt |
| T5-B | HA | 0-1' | 11-29-94 | 0953 | TC/KS | L | G | 2 | 4 | 1 | 1 | 1 | | | 5 | M-C Gr Sand Tr Silt |
| T6-B | HA | 0-1' | 11-29-94 | 1322 | TC/KS | L | G | 2 | 4 | 1 | 1 | 1 | | | 5 | Silty Sand Tr Org + ~~Silt~~ ★ |
| T7-A | HA | 0-8" | 11-29-94 | 1403 | TC/KS | L | G | 2 | | 1 | 1 | 1 | | | 5 | Sandy Silt Tr Roots ★ |
| T7-B | HA | 0-1' | 11-29-94 | 1420 | TC/KS | L | G | 2 | | 1 | 1 | 1 | | | 5 | Silt w/ Org D Brn |
| T8-A | HA | 0-1' | 11-30-94 | 0919 | TE/TC | L | G | 2 | | 1 | 1 | 1 | | | 5 | Clayey Silt Petrole odor |
| T8-B | HA | 0-1' | 11-30-94 | 0950 | TE/TC | L | G | 2 | | 1 | 1 | 1 | | | 5 | Silty Clay Oily odor |
| T9-A | HA | 0-1' | 11-30-94 | 1020 | TE/TC | L | G | 2 | | 1 | 1 | 1 | | | 5 | Silty Clay Oily odor |
| T9-B | HA | 0-1' | 11-30-94 | 1343 | TE/TC | L | G | 2 | | 1 | 1 | 1 | | | 5 | Silty Clay $H_2S$ odor |
| T10-A | HA | 0-1' | 11-30-94 | 1426 | TE/TC | L | G | 2 | | 1 | 1 | 1 | | | 5 | Silty Sand $H_2S$ o |
| T10-B | HA | 0-1' | 11-30-94 | 1450 | TE/TC | L | G | 2 | | 1 | 1 | 1 | | | 5 | Silty Clay $H_2S$ o |

REMARKS: HA: Hand Auger
★ : Split Sample w/ TRC

LAB: Chemical: South West Labs of Oc
Geotech · Geotesting

ACAD: FORMS\LOG.DWG 2/11/93

# SAMPLE LOG SHEET

**HALLIBURTON NUS**
*Environmental Corporation*

☐ Monitoring Well Data
☐ Domestic Well Data
☒ Other Equipment Blank

Page ____ of ____
Case # ____
By ____

Project Site Name: NSB - NLON  Project Site Number: 9594
NUS Source No.: ER-2  Source Location: Area A Wetlands

| | Purge Data | | | | |
|---|---|---|---|---|---|
| Total Well Depth: | | | | | |
| Well Casing Size & Depth: | Volume | pH | S.C. | Temp. (°C) | Color & Turbidity |
| Static Water Level: | | | | | |
| One Casing Volume: | | | | | |
| Start Purge (hrs.): | | | | | |
| End Purge (hrs.): | | | | | |
| Total Purge Time (min.): | | | | | |
| Total Amount Purged (gal.): | | | | | |
| Monitor Reading: | | | | | |
| Purge Method: | | | | | |
| Sample Method: | | | | | |
| Depth Sampled: | | | | | |

| Sample Date & Time: | Sample Data | | | |
|---|---|---|---|---|
| 11-28-94 0812 | pH | S.C. | Temp. (°C) | Color & Turbidity |
| Sampled By: TC NK | | | | |

Signature(s):

Observations / Notes:

Equipment Blank on Stainless Steel Bucket Auger

Type of Sample
- ☒ Low Concentration
- ☐ High Concentration
- ☒ Grab
- ☐ Composite
- ☐ Grab - Composite

| | Analysis: | Preservative | |
|---|---|---|---|
| | TCL VOC | HCl | 4°C |
| | TCL SVOC | — | 4°C |
| | TCL Pest/PCB | — | 4°C |
| Total | TAL Metals + | $HNO_3$ | 4°C |
| | CN + Boron | | |
| Diss | TAL Metals + | $HNO_3$ | 4°C |
| | CN + Boron | | |

# SAMPLE LOG SHEET

**HALLIBURTON NUS**
*Environmental Corporation*

Page ____ of ____

☐ Monitoring Well Data
☐ Domestic Well Data
☒ Other Equipment Blank

Case # ____

By ____

Project Site Name: VSB - NLON
Project Site Number: 9594
NUS Source No.: EB-3
Source Location: Area A Wetlands

| | Purge Data | | | | |
|---|---|---|---|---|---|
| Total Well Depth: | | | | | |
| Well Casing Size & Depth: | Volume | pH | S.C. | Temp. (°C) | Color & Turbidity |
| Static Water Level: | | | | | |
| One Casing Volume: | | | | | |
| Start Purge (hrs.): | | | | | |
| End Purge (hrs.): | | | | | |
| Total Purge Time (min.): | | | | | |
| Total Amount Purged (gal.): | | | | | |
| Monitor Reading: | | | | | |
| Purge Method: | | | | | |
| Sample Method: | | | | | |
| Depth Sampled: | | | | | |

| Sample Date & Time: | Sample Data | | | |
|---|---|---|---|---|
| 11-29-94 0710 | pH | S.C. | Temp. (°C) | Color & Turbidity |
| Sampled By: TC | | | | |

Signature(s):

Observations / Notes:

Equipment Blank of decon of SS trowel

Type of Sample
☒ Low Concentration
☐ High Concentration
☐ Grab
☐ Composite
☐ Grab - Composite

| Analysis: | Preservative |
|---|---|
| TCL VOC | HCl pH<2 4°C |
| TCL SVOC | 4°C |
| TCL Pest/PCB | 4°C |
| Total TAL Metals + B+ | $HNO_3$ pH<2 4°C |
| CN - Hard | NaOH pH>12 4°C |

# SAMPLE LOG SHEET

**HALLIBURTON NUS**
*Environmental Corporation*

☐ Monitoring Well Data
☐ Domestic Well Data
☒ Other Equipment Blank

Page ____ of ____
Case # ____
By ____

Project Site Name: NSB NLON
Project Site Number: 9594
NUS Source No.: EB-4
Source Location: Area A Wetlands

| | Purge Data | | | | |
|---|---|---|---|---|---|
| Total Well Depth: | | | | | |
| Well Casing Size & Depth: | Volume | pH | S.C. | Temp. (°C) | Color & Turbidity |
| Static Water Level: | | | | | |
| One Casing Volume: | | | | | |
| Start Purge (hrs.): | | | | | |
| End Purge (hrs.): | | | | | |
| Total Purge Time (min.): | | | | | |
| Total Amount Purged (gal.): | | | | | |
| Monitor Reading: | | | | | |
| Purge Method: | | | | | |
| Sample Method: | | | | | |
| Depth Sampled: | | | | | |

| Sample Date & Time: 11-30-94 0750 | Sample Data | | | |
|---|---|---|---|---|
| | pH | S.C. | Temp. (°C) | Color & Turbidity |
| Sampled By: TC | | | | |

Signature(s):

Observations / Notes:

Equipment Rinsate Blank of Stainless Steel Bowl

Type of Sample
- ☒ Low Concentration
- ☐ High Concentration
- ☐ Grab
- ☐ Composite
- ☐ Grab - Composite

| Analysis: | Preservative | | | | |
|---|---|---|---|---|---|
| TCL VOC | HCl pH<2 4°C | | | | |
| TCL SVOC | 4°C | | | | |
| TCL P/P | 4°C | | | | |
| TAL Metals + Hard | $HNO_3$ pH<2 4°C | | | | |
| CN | NaOH pH>12 4°C | | | | |

HALLIBURTON NUS
Environmental Corporation

# SAMPLE LOG SHEET

Page ____ of ____

☐ Monitoring Well Data
☐ Domestic Well Data
☒ Other Field Blank

Case # ____

By ____

Project Site Name NSB-NLON  Project Site Number 9594

NUS Source No. FB-2  Source Location Area A wetlands

| | Purge Data | | | | |
|---|---|---|---|---|---|
| Total Well Depth: | | | | | |
| Well Casing Size & Depth: | Volume | pH | S.C. | Temp. (°C) | Color & Turbidity |
| Static Water Level: | | | | | |
| One Casing Volume: | | | | | |
| Start Purge (hrs.): | | | | | |
| End Purge (hrs.): | | | | | |
| Total Purge Time (min.): | | | | | |
| Total Amount Purged (gal.): | | | | | |
| Monitor Reading: | | | | | |
| Purge Method: | | | | | |
| Sample Method: | | | | | |
| Depth Sampled: | | | | | |

| Sample Date & Time: 11-28-94 0745 | Sample Data | | | |
|---|---|---|---|---|
| | pH | S.C. | Temp. (°C) | Color & Turbidity |
| Sampled By: NK TC | | | | |

Signature(s):

Observations / Notes:

Field Blank of Decon DI $H_2O$

Type of Sample
- ☒ Low Concentration
- ☐ High Concentration
- ☒ Grab
- ☐ Composite
- ☐ Grab - Composite

| | Analysis: | Preservative | | | | |
|---|---|---|---|---|---|---|
| | TCL VOC | HCl 4°C | | | | |
| | TCL SVOC | — 4°C | | | | |
| | TCL Pest/PCB | — 4°C | | | | |
| Total | TAL Metals + CN + Boron | $HNO_3$ 4°C | | | | |
| Diss | TAL Metals + CN + Boron | $HNO_3$ 4°C | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

# SAMPLE LOG SHEET

**HALLIBURTON NUS**
*Environmental Corporation*

☐ Monitoring Well Data
☐ Domestic Well Data
☒ Other Trip Blank

Page ____ of ____
Case # ____
By ____

Project Site Name NSB-NLON Project Site Number 9594
NUS Source No. TB-6 Source Location Area A wetlands

| | Purge Data | | | | |
|---|---|---|---|---|---|
| Total Well Depth: | | | | | |
| Well Casing Size & Depth: | Volume | pH | S.C. | Temp. (°C) | Color & Turbidity |
| Static Water Level: | | | | | |
| One Casing Volume: | | | | | |
| Start Purge (hrs.): | | | | | |
| End Purge (hrs.): | | | | | |
| Total Purge Time (min.): | | | | | |
| Total Amount Purged (gal.): | | | | | |
| Monitor Reading: | | | | | |
| Purge Method: | | | | | |
| Sample Method: | | | | | |
| Depth Sampled: | | | | | |

| Sample Date & Time: 10-26-94 0940 | Sample Data | | | |
|---|---|---|---|---|
| | pH | S.C. | Temp. (°C) | Color & Turbidity |
| Sampled By: SW Labs of OK | | | | |

Signature(s):

Type of Sample
☒ Low Concentration
☐ High Concentration
☒ Grab
☐ Composite
☐ Grab - Composite

Observations / Notes:

Trip Blank

Lab Prepared

* For samples sent 11/28/94 (FedEx AB# 16999 0413)

| Analysis: | Preservative |
|---|---|
| TCL VOCs | HCl 4°C |

HALLIBURTON NUS
Environmental Corporation

# SAMPLE LOG SHEET

☐ Monitoring Well Data
☐ Domestic Well Data
☒ Other Trip Blank

Page 1 of 1
Case # _____
By _____

Project Site Name NSB NLON
Project Site Number 9594
NUS Source No. TB-7
Source Location B-325 / Area A wetlands

| | Purge Data | | | | |
|---|---|---|---|---|---|
| Total Well Depth: | | | | | |
| Well Casing Size & Depth: | Volume | pH | S.C. | Temp. (°C) | Color & Turbidity |
| Static Water Level: | | | | | |
| One Casing Volume: | | | | | |
| Start Purge (hrs.): | | | | | |
| End Purge (hrs.): | | | | | |
| Total Purge Time (min.): | | | | | |
| Total Amount Purged (gal.): | | | | | |
| Monitor Reading: | | | | | |
| Purge Method: | | | | | |
| Sample Method: | | | | | |
| Depth Sampled: | | | | | |

| Sample Date & Time: | Sample Data | | | |
|---|---|---|---|---|
| 10-26-94 0940 | pH | S.C. | Temp. (°C) | Color & Turbidity |
| Sampled By: SW Labs of OK | | | | |

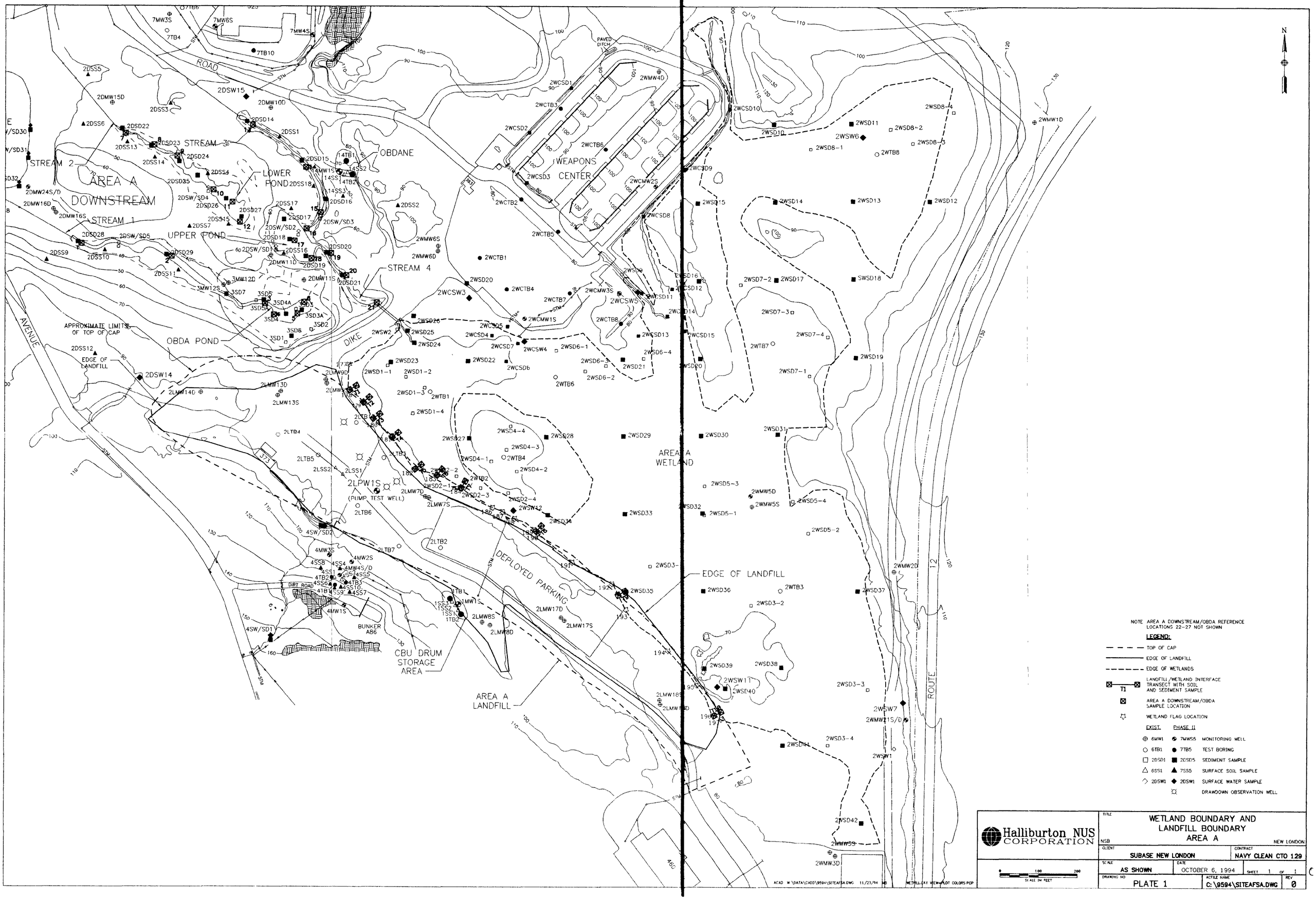
Signature(s):

Type of Sample
☐ Low Concentration
☐ High Concentration
☒ Grab
☐ Composite
☐ Grab - Composite

Observations / Notes:

Labs prepared Trip Blank
For samples sent 11/29/94
FedEx AB# 1699904183

| Analysis: | Preservative |
|---|---|
| TCL VOC | HCl pH<2 4°C |


N
AREA A DOWNSTREAM
STREAM 1
STREAM 2
STREAM 3
STREAM 4
UPPER POND
LOWER POND
OBDA POND
OBDANE
WEAPONS CENTER
PAVED DITCH
ROAD
AVENUE
DIKE
APPROXIMATE LIMITS OF TOP OF CAP
EDGE OF LANDFILL
(PUMP TEST WELL)
DIRT ROAD
BUNKER A86
CBU DRUM STORAGE AREA
AREA A LANDFILL
DEPLOYED PARKING
AREA A WETLAND
ROUTE 12
NOTE AREA A DOWNSTREAM/OBDA REFERENCE LOCATIONS 22-27 NOT SHOWN
LEGEND:
TOP OF CAP
EDGE OF LANDFILL
EDGE OF WETLANDS
LANDFILL/WETLAND INTERFACE TRANSECT WITH SOIL AND SEDIMENT SAMPLE
AREA A DOWNSTREAM/OBDA SAMPLE LOCATION
WETLAND FLAG LOCATION
EXIST. PHASE II
6MW1 7MWS5 MONITORING WELL
6TB1 7TB5 TEST BORING
2DSD1 2DSD5 SEDIMENT SAMPLE
6SS1 7SS5 SURFACE SOIL SAMPLE
2DSW1 2DSW1 SURFACE WATER SAMPLE
DRAWDOWN OBSERVATION WELL
Halliburton NUS CORPORATION
TITLE
WETLAND BOUNDARY AND LANDFILL BOUNDARY AREA A
NSB
NEW LONDON
CLIENT
SUBASE NEW LONDON
CONTRACT
NAVY CLEAN CTO 129
SCALE
AS SHOWN
DATE
OCTOBER 6, 1994
SHEET 1 OF 1
DRAWING NO
PLATE 1
ACFILE NAME
C:\8594\SITEAFSA.DWG
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SCALE IN FEET