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PHIL-13554

November 8, 1999

Project Number 7603

Mr. Lonnie Monaco
Naval Facilities Engineering Command (NAVFACENGCOM)
Northern Division
Environmental Contracts Branch, Mailstop #82
10 Industrial Highway
Lester, Pennsylvania 19113

Reference: CLEAN Contract No. N642472-90-D-1298
Contract Task Order (CTO) No. 290

Subject: Results from Area A Supplemental Subsurface Soil Investigations
Phase III Remedial Investigation/Feasibility Study (RI/FS)
Former Naval Air Warfare Center (NAWC) Warminster, Pennsylvania

Dear Mr. Monaco:

As requested, the analytical results (Enclosure 1) from the recent Area A soil samples have been evaluated by Tetra Tech NUS (TtNUS). Soil samples were collected from Site 2, Site 3, and the former location of Tank No. 18. The unvalidated analytical results for these subsurface soil samples were compared to results presented in the draft Phase III RI Report (B&R Environmental, 1996), Pennsylvania Department of Environmental Protection (PADEP) Act 2 standards, and EPA Region III risk-based screening concentrations (RBCs). Sample locations are displayed in Figure 1. Enclosure 2 provides test pit and soil boring logs.

Analytical Results

Seven test pits were excavated and ten soil samples were collected in the area north of the former jet fuel storage area and east of the eastern-most concrete lagoon at Site 2, two soil borings were completed and two soil samples collected near the access road at Site 3 south and southwest of existing samples SB-03-17 and SB-03-1707, and three soil borings were completed and six soil samples collected downgradient of the former location of Tank No. 18.

A summary of the sample results that exceeded Act 2 or EPA Region RBC standards under an industrial land use scenario is provided below.

SAMPLE	HAZARDOUS SUBSTANCE	CONCENTRATION	STANDARD EXCEEDED	STANDARD CONCENTRATION
SB-18-02	Arsenic	4.6 mg/kg	EPA RBC	3.8 mg/kg
SB-18-03	Arsenic	3.9 mg/kg	EPA RBC	3.8 mg/kg

SAMPLE	HAZARDOUS SUBSTANCE	CONCENTRATION	STANDARD EXCEEDED	STANDARD CONCENTRATION
SB-18-06	Arsenic	5.9 mg/kg	EPA RBC	3.8 mg/kg
TP10-0207	Benzo(a)pyrene	3.4 mg/kg	EPA RBC	0.78 mg/kg
	Arsenic	7.0 mg/kg	EPA RBC	3.8 mg/kg
TP11-0209	Benzo(a)pyrene	0.98 J mg/kg	EPA RBC	0.78 mg/kg
TP11-0210	Arsenic	3.9 mg/kg	EPA RBC	3.8 mg/kg
TP12-0211	Arsenic	4.6 mg/kg	EPA RBC	3.8 mg/kg
TP14-0212	Benzo(a)pyrene	2.9 mg/kg	EPA RBC	0.78 mg/kg
	Arsenic	5.6 mg/kg	EPA RBC	3.8 mg/kg
TP14-0214	Arsenic	4.0 mg/kg	EPA RBC	3.8 mg/kg
TP15-0216	Benzo(a)pyrene	6.4 mg/kg	EPA RBC	0.78 mg/kg

Site 2 Discussion

Seven test pits were excavated in the area north of the former jet fuel storage area and east of the eastern-most concrete lagoon. Each test pit was approximately 20 feet long, 2.5 feet wide, and 5 feet deep. Soil samples were collected from the test pits based upon field screening for organics and visible evidence of waste. A total of 10 samples and 1 duplicate were collected.

There were no elevated PID readings recorded from any of the test pits. No visible evidence of waste was observed in test pits TP-9, TP-12, TP-13, and TP-15. One sample was collected from the bottom of each of these test pits (except TP-13, from which no sample was collected). The samples from TP-9 and TP-12 were analyzed for TAL metals; the sample from TP-15 was analyzed for PAHs. The sample from TP-12, TP12-0211, contained arsenic at 4.6 mg/kg, which exceeded the RBC of 3.8 mg/kg, and the sample from TP-15, TP15-0216, contained benzo(a)pyrene at 6.4 mg/kg, which exceeded the RBC of 0.78 mg/kg.

Visible evidence of waste was observed in test pits TP-10, TP-11, and TP-14. The debris in all three test pits consisted of fragments of glass, wood, metal, ceramic, plastic, wire, and pockets of a blue-green crystalline material. The samples collected from this debris layer were analyzed for the full suite of TCL and TAL parameters. All other samples, including those collected from the bottom of each test pit, were analyzed for TAL metals only.

In test pit TP-10, the debris was largely confined to the top 2 feet. The sample collected from this layer, TP10-0207, contained two contaminants, benzo(a)pyrene (3.4 mg/kg) and arsenic (7.0 mg/kg), at concentrations above the corresponding RBCs. In test pit TP-11, the debris was observed in the top 4 feet of the northern end. The sample collected from this layer, TP11-0209,

contained arsenic at a concentration of 3.9 mg/kg, which exceeded the RBC of 3.8 mg/kg. In TP-14, the debris was observed in the top 3.5 feet . The sample collected from this layer, TP14-0212/TP16-0215, contained concentrations of benzo(a)pyrene (2.9 mg/kg) and arsenic (5.6 mg/kg), exceeding the corresponding RBCs. Also in test pit TP-14, a layer of gray silt observed from 3.5 to 4 feet in depth was sampled. This sample, TP14-0213, did not contain any contaminants at concentrations exceeding screening criteria. The sample collected from the bottom of the test pit, TP14-0214, contained arsenic at 4.0 mg/kg, which exceeds the RBC of 3.8 mg/kg

Site 3 Discussion

Two soil borings were completed near the access road at Site 3 south and southwest of existing samples SB-03-17 and SB-03-1707. No evidence of waste or elevated PID readings were encountered during the completion of these borings. One sample was collected from each of the borings and analyzed for polycyclic aromatic hydrocarbons (PAHs) and lead. The samples contained trace levels of several PAHs and lead concentrations of 6.3 mg/kg and 5 mg/kg. No concentration was above screening criteria.

Tank No. 18 Discussion

Three soil borings were completed downgradient of the former location of Tank No. 18. PID readings above background and petroleum odors were encountered in all three borings at depths below 4 feet, particularly in boring SB-02, in which oil staining was observed. Two soil samples were collected from each boring, at mid-depth and immediately above bedrock, and were analyzed for the full suite of TCL and TAL parameters. Low concentrations of several volatile organic compounds and semivolatile compounds were detected in the samples from each of the borings. None of these concentrations exceeded the screening criteria. One pesticide, beta-BHC, was contained in a sample from boring SB-02 at a concentration of 7.7 ug/kg. Concentrations of arsenic exceeding the RBC of 3.8 mg/kg were contained in sample SB-18-02 (4.6 mg/kg), collected from 10.5 feet to 11.5 feet in boring SB-01; sample SB-18-03 (3.9 mg/kg), collected from 6 feet to 8 feet in boring SB-02; and sample SB-18-06 (5.9 mg/kg), collected from 8 feet to 10 feet in boring SB-03.

Summary and Conclusions

Based on our review of the supplemental subsurface soil data from the commander's property, the following summary is provided:

- Arsenic concentrations exceeded the RBC in samples from all three borings downgradient from the former location of Tank No. 18.
- Arsenic concentrations and/or benzo(a)pyrene concentrations exceeded the EPA RBC in samples from five of the six test pits at Site 2.
- No screening criteria were exceeded in the samples collected from Site 3.
- No additional soil investigations are necessary in the vicinity of Site 2, Site 3, or Tank No. 18 to determine a potential source of groundwater-related VOC contamination.

- The soil investigation results for Sites 2 and 3 should be included in the final RI report for Area A. Portions of the draft Phase III RI report for NAWC Warminster (B&R Environmental, November 1996) should be revised accordingly.

- The soil investigation results for Tank No. 18 should be referenced in the Navy's storage tank report, which is currently being prepared by EA Engineering.

Please contact me if you have any questions or comments.

Sincerely,

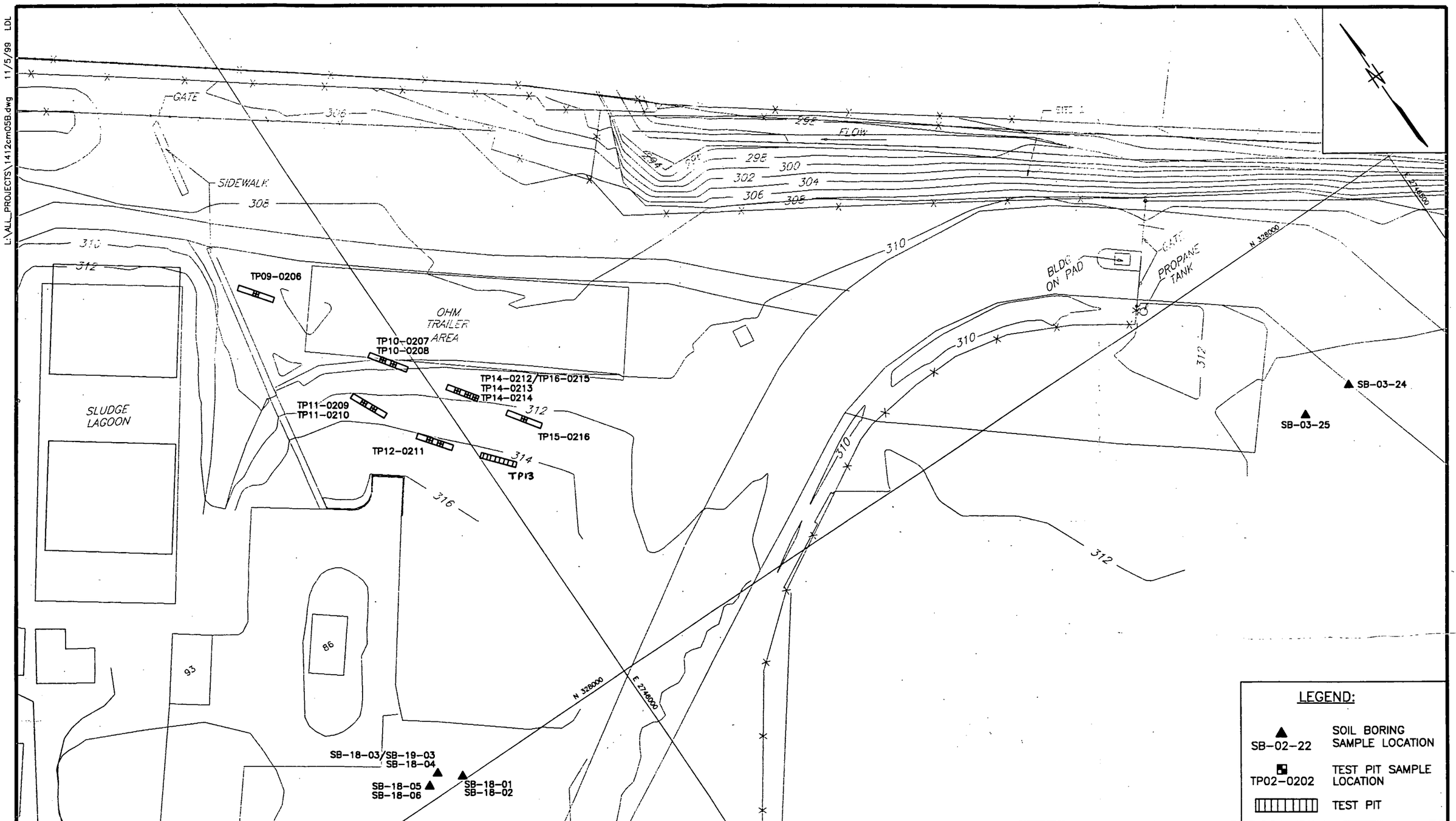
Neil Teamerson

Neil Teamerson
Project Coordinator

ANT/nfs

Enclosures

c: Thomas Ames (NAVFACENGCOM)
Michael Fohner (NAVCFACENGCOM)
Darius Ostrauskas (EPA Region III)
April Flipse (PADEP)
Jeffrey Orient (TtNUS)
Garth Glenn (TtNUS) (without enclosures)



NO.	DATE	REVISIONS	BY	CHKD	APPD
1	11/5/99	REV. FIGURE C-2, UPDATED TITLE & BORDERS	LDL		

DRAWN BY LDL	DATE 11/5/99
CHECKED BY	DATE
REVISED BY	DATE
SCALE AS NOTED	

Tetra Tech NUS, Inc.

SUPPLEMENTAL SOIL INVESTIGATION
AREA A – SITES 2, 3, AND TANK 18
NAWC WARMINSTER, PA

CONTRACT NO. 7603	
OWNER NO.	
APPROVED BY	DATE
DRAWING NO. FIGURE 1	REV. 1

L:\ALL_PROJECTS\1412cm05B.dwg 11/5/99 LDL

FORM CADD NO. 1TNUS-2H.DWG - REV 1 - 9/10/96

ENCLOSURE 1

RAW ANALYTICAL DATA RESULTS

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-18-01

Lab Name: CEIMIC CORP Contract: TETRA_NUS

Lab Code: CEIMIC Case No.: CTO290 SAS No.: SDG No.: 100799

Matrix: (soil/water) SOIL Lab Sample ID: 990877-14B

Sample wt/vol: 5.4 (g/mL) G Lab File ID: L4409

Level: (low/med) LOW Date Received: 10/09/99

% Moisture: not dec. 19 Date Analyzed: 10/12/99

GC Column: DB624 ID: 0.180 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	6	U
74-83-9	Bromomethane	6	U
75-01-4	Vinyl Chloride	6	U
75-00-3	Chloroethane	6	U
75-09-2	Methylene Chloride	14	
67-64-1	Acetone	77	
75-15-0	Carbon Disulfide	4	J
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	2	J
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	1	J
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	17	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-18-02

Lab Name: CEIMIC CORP Contract: TETRA_NUS

Lab Code: CEIMIC Case No.: CTO290 SAS No.: SDG No.: 100799

Matrix: (soil/water) SOIL Lab Sample ID: 990877-15B

Sample wt/vol: 5.4 (g/mL) G Lab File ID: L4410

Level: (low/med) LOW Date Received: 10/09/99

% Moisture: not dec. 20 Date Analyzed: 10/12/99

GC Column: DB624 ID: 0.180 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	6	U
74-83-9	Bromomethane	6	U
75-01-4	Vinyl Chloride	6	U
75-00-3	Chloroethane	6	U
75-09-2	Methylene Chloride	13	
67-64-1	Acetone	56	
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	1	J
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	6	J
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	1	J
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	1	J
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	17	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-18-03

Lab Name: CEIMIC CORP Contract: TETRA_NUS

Lab Code: CEIMIC Case No.: CTO290 SAS No.: SDG No.: 100799

Matrix: (soil/water) SOIL Lab Sample ID: 990877-16B

Sample wt/vol: 5.4 (g/mL) G Lab File ID: L4411

Level: (low/med) LOW Date Received: 10/09/99

% Moisture: not dec. 19 Date Analyzed: 10/12/99

GC Column: DB624 ID: 0.180 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	6	U
74-83-9	Bromomethane	6	U
75-01-4	Vinyl Chloride	6	U
75-00-3	Chloroethane	6	U
75-09-2	Methylene Chloride	12	
67-64-1	Acetone	200	
75-15-0	Carbon Disulfide	8	
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	61	
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	1	J
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	17	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-18-04

Lab Name: CEIMIC CORP Contract: TETRA_NUS

Lab Code: CEIMIC Case No.: CTO290 SAS No.: SDG No.: 100799

Matrix: (soil/water) SOIL Lab Sample ID: 990877-17D

Sample wt/vol: 5.8 (g/mL) G Lab File ID: L4412

Level: (low/med) LOW Date Received: 10/09/99

% Moisture: not dec. 11 Date Analyzed: 10/12/99

GC Column: DB624 ID: 0.180 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl Chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene Chloride	13	
67-64-1	Acetone	86	
75-15-0	Carbon Disulfide	3	J
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	14	
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	1	J
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	14	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-18-05

Lab Name: CEIMIC CORP Contract: TETRA_NUS

Lab Code: CEIMIC Case No.: CTO290 SAS No.: SDG No.: 100799

Matrix: (soil/water) SOIL Lab Sample ID: 990877-18B

Sample wt/vol: 5.8 (g/mL) G Lab File ID: L4413

Level: (low/med) LOW Date Received: 10/09/99

% Moisture: not dec. 18 Date Analyzed: 10/12/99

GC Column: DB624 ID: 0.180 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl Chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene Chloride	13	
67-64-1	Acetone	58	
75-15-0	Carbon Disulfide	2	J
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	190	
108-88-3	Toluene	4	J
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	1	J
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	16	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-18-06

Lab Name: CEIMIC CORP Contract: TETRA_NUS

Lab Code: CEIMIC Case No.: CTO290 SAS No.: SDG No.: 100799

Matrix: (soil/water) SOIL Lab Sample ID: 990877-19B

Sample wt/vol: 6.1 (g/mL) G Lab File ID: L4414

Level: (low/med) LOW Date Received: 10/09/99

% Moisture: not dec. 17 Date Analyzed: 10/12/99

GC Column: DB624 ID: 0.180 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl Chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene Chloride	15	
67-64-1	Acetone	21	
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	2	J
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	2	J
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	1	J
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	15	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-19-03

Lab Name: CEIMIC CORP Contract: TETRA_NUS

Lab Code: CEIMIC Case No.: NAWC SAS No.: SDG No.: SB0325

Matrix: (soil/water) SOIL Lab Sample ID: 990884-03B

Sample wt/vol: 5.7 (g/mL) G Lab File ID: L4423

Level: (low/med) LOW Date Received: 10/09/99

% Moisture: not dec. 17 Date Analyzed: 10/13/99

GC Column: DB624 ID: 0.180 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl Chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene Chloride	21	
67-64-1	Acetone	110	
75-15-0	Carbon Disulfide	8	
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	1	J
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	6	
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	2	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP10-0207

Lab Name: CEIMIC CORP Contract: TETRA_NUS

Lab Code: CEIMIC Case No.: CTO290 SAS No.: SDG No.: 100799

Matrix: (soil/water) SOIL Lab Sample ID: 990877-03B

Sample wt/vol: 5.8 (g/mL) G Lab File ID: L4402

Level: (low/med) LOW Date Received: 10/09/99

% Moisture: not dec. 4 Date Analyzed: 10/12/99

GC Column: DB624 ID: 0.180 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	4	U
74-83-9	Bromomethane	4	U
75-01-4	Vinyl Chloride	4	U
75-00-3	Chloroethane	4	U
75-09-2	Methylene Chloride	8	
67-64-1	Acetone	93	
75-15-0	Carbon Disulfide	4	U
75-35-4	1,1-Dichloroethene	4	U
75-34-3	1,1-Dichloroethane	4	U
540-59-0	1,2-Dichloroethene (total)	9	U
67-66-3	Chloroform	4	J
107-06-2	1,2-Dichloroethane	4	U
78-93-3	2-Butanone	12	
71-55-6	1,1,1-Trichloroethane	4	U
56-23-5	Carbon Tetrachloride	4	U
75-27-4	Bromodichloromethane	4	U
78-87-5	1,2-Dichloropropane	4	U
10061-01-5	cis-1,3-Dichloropropene	4	U
79-01-6	Trichloroethene	6	
124-48-1	Dibromochloromethane	4	U
79-00-5	1,1,2-Trichloroethane	4	U
71-43-2	Benzene	8	
10061-02-6	trans-1,3-Dichloropropene	4	U
75-25-2	Bromoform	4	U
108-10-1	4-Methyl-2-Pentanone	0.9	J
591-78-6	2-Hexanone	1	J
127-18-4	Tetrachloroethene	5	
79-34-5	1,1,2,2-Tetrachloroethane	4	U
108-88-3	Toluene	24	
108-90-7	Chlorobenzene	4	U
100-41-4	Ethylbenzene	4	U
100-42-5	Styrene	4	U
1330-20-7	Xylene (total)	6	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP11-0209

Lab Name: CEIMIC CORP Contract: TETRA_NUS

Lab Code: CEIMIC Case No.: CTO290 SAS No.: SDG No.: 100799

Matrix: (soil/water) SOIL Lab Sample ID: 990877-05D

Sample wt/vol: 5.4 (g/mL) G Lab File ID: L4403

Level: (low/med) LOW Date Received: 10/09/99

% Moisture: not dec. 20 Date Analyzed: 10/12/99

GC Column: DB624 ID: 0.180 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	6	U
74-83-9	Bromomethane	6	U
75-01-4	Vinyl Chloride	6	U
75-00-3	Chloroethane	3	J
75-09-2	Methylene Chloride	10	
67-64-1	Acetone	120	
75-15-0	Carbon Disulfide	2	J
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	1	J
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	20	
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	11	
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	5	J
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	2	J
591-78-6	2-Hexanone	2	J
127-18-4	Tetrachloroethene	9	
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	10	
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	6	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP14-0212

Lab Name: CEIMIC CORP Contract: TETRA_NUS

Lab Code: CEIMIC Case No.: CTO290 SAS No.: SDG No.: 100799

Matrix: (soil/water) SOIL Lab Sample ID: 990877-08B

Sample wt/vol: 5.2 (g/mL) G Lab File ID: L4404

Level: (low/med) LOW Date Received: 10/09/99

% Moisture: not dec. 21 Date Analyzed: 10/12/99

GC Column: DB624 ID: 0.180 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	6	U
74-83-9	Bromomethane	6	U
75-01-4	Vinyl Chloride	6	U
75-00-3	Chloroethane	5	J
75-09-2	Methylene Chloride	10	
67-64-1	Acetone	150	
75-15-0	Carbon Disulfide	1	J
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	3	J
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	24	
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	10	
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	9	
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	1	J
591-78-6	2-Hexanone	3	J
127-18-4	Tetrachloroethene	7	
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	68	
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	11	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP14-0213

Lab Name: CEIMIC CORP Contract: TETRA_NUS

Lab Code: CEIMIC Case No.: CTO290 SAS No.: SDG No.: 100799

Matrix: (soil/water) SOIL Lab Sample ID: 990877-09D

Sample wt/vol: 5.9 (g/mL) G Lab File ID: L4407

Level: (low/med) LOW Date Received: 10/09/99

% Moisture: not dec. 14 Date Analyzed: 10/12/99

GC Column: DB624 ID: 0.180 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl Chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene Chloride	8	
67-64-1	Acetone	120	
75-15-0	Carbon Disulfide	10	
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	24	
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	1	J
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	2	J
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	15	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP16-0215

Lab Name: CEIMIC CORP Contract: TETRA_NUS

Lab Code: CEIMIC Case No.: CTO290 SAS No.: SDG No.: 100799

Matrix: (soil/water) SOIL Lab Sample ID: 990877-12D

Sample wt/vol: 5.4 (g/mL) G Lab File ID: L4408

Level: (low/med) LOW Date Received: 10/09/99

% Moisture: not dec. 21 Date Analyzed: 10/12/99

GC Column: DB624 ID: 0.180 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	6	U
74-83-9	Bromomethane	6	U
75-01-4	Vinyl Chloride	6	U
75-00-3	Chloroethane	6	U
75-09-2	Methylene Chloride	9	
67-64-1	Acetone	100	
75-15-0	Carbon Disulfide	4	J
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	11	J
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	2	J
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	3	J
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	3	J
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	18	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-18-01

Lab Name: CEIMIC CORP Contract: TETRA TECH

Lab Code: CEIMIC Case No.: CTO290 SAS No.: _____ SDG No.: 100799

Matrix: (soil/water) SOIL Lab Sample ID: 990877-14

Sample wt/vol: 30.1 (g/mL) G Lab File ID: JY985

Level: (low/med) LOW Date Received: 10/09/99

% Moisture: 19 decanted: (Y/N) N Date Extracted: 10/12/99

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/29/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	200	U
111-44-4	bis(2-Chloroethyl)Ether	200	U
95-57-8	2-Chlorophenol	200	U
541-73-1	1,3-Dichlorobenzene	200	U
106-46-7	1,4-Dichlorobenzene	200	U
95-50-1	1,2-Dichlorobenzene	200	U
95-48-7	2-Methylphenol	200	U
108-60-1	2,2'-oxybis(1-Chloropropane)	200	U
106-44-5	4-Methylphenol	200	U
621-64-7	N-Nitroso-Di-n-Propylamine	200	U
67-72-1	Hexachloroethane	200	U
98-95-3	Nitrobenzene	200	U
78-59-1	Isophorone	200	U
88-75-5	2-Nitrophenol	200	U
105-67-9	2,4-Dimethylphenol	200	U
111-91-1	bis(2-Chloroethoxy)Methane	200	U
120-83-2	2,4-Dichlorophenol	200	U
120-82-1	1,2,4-Trichlorobenzene	200	U
91-20-3	Naphthalene	200	U
106-47-8	4-Chloroaniline	200	U
87-68-3	Hexachlorobutadiene	200	U
59-50-7	4-Chloro-3-Methylphenol	200	U
91-57-6	2-Methylnaphthalene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	410	U
91-58-7	2-Chloronaphthalene	200	U
88-74-4	2-Nitroaniline	410	U
131-11-3	Dimethyl Phthalate	200	U
208-96-8	Acenaphthylene	200	U
606-20-2	2,6-Dinitrotoluene	200	U
99-09-2	3-Nitroaniline	410	U
83-32-9	Acenaphthene	200	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-18-01

Lab Name: CEIMIC CORP Contract: TETRA TECH

Lab Code: CEIMIC Case No.: CTO290 SAS No.: _____ SDG No.: 100799

Matrix: (soil/water) SOIL Lab Sample ID: 990877-14

Sample wt/vol: 30.1 (g/mL) G Lab File ID: JY985

Level: (low/med) LOW Date Received: 10/09/99

% Moisture: 19 decanted: (Y/N) N Date Extracted: 10/12/99

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/29/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	410	U
100-02-7	4-Nitrophenol	410	U
132-64-9	Dibenzofuran	200	U
121-14-2	2,4-Dinitrotoluene	200	U
84-66-2	Diethylphthalate	200	U
7005-72-3	4-Chlorophenyl-phenylether	200	U
86-73-7	Fluorene	200	U
100-01-6	4-Nitroaniline	410	U
534-52-1	4,6-Dinitro-2-Methylphenol	410	U
86-30-6	N-Nitrosodiphenylamine (1)	200	U
101-55-3	4-Bromophenyl-phenylether	200	U
118-74-1	Hexachlorobenzene	200	U
87-86-5	Pentachlorophenol	410	U
85-01-8	Phenanthrene	200	U
120-12-7	Anthracene	200	U
86-74-8	Carbazole	200	U
84-74-2	Di-n-Butylphthalate	50	J
206-44-0	Fluoranthene	200	U
129-00-0	Pyrene	200	U
85-68-7	Butylbenzylphthalate	200	U
91-94-1	3,3'-Dichlorobenzidine	200	U
56-55-3	Benzo(a)Anthracene	200	U
218-01-9	Chrysene	200	U
117-81-7	bis(2-Ethylhexyl)Phthalate	200	U
117-84-0	Di-n-Octyl Phthalate	200	U
205-99-2	Benzo(b)Fluoranthene	200	U
207-08-9	Benzo(k)Fluoranthene	200	U
50-32-8	Benzo(a)Pyrene	200	U
193-39-5	Indeno(1,2,3-cd)Pyrene	200	U
53-70-3	Dibenzo(a,h)Anthracene	200	U
191-24-2	Benzo(g,h,i)Perylene	200	U

(1) - Cannot be separated from Diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-18-02

Lab Name: CEIMIC CORP Contract: TETRA TECH

Lab Code: CEIMIC Case No.: CTO290 SAS No.: _____ SDG No.: 100799

Matrix: (soil/water) SOIL Lab Sample ID: 990877-15

Sample wt/vol: 30.2 (g/mL) G Lab File ID: JY986

Level: (low/med) LOW Date Received: 10/09/99

% Moisture: 20 decanted: (Y/N) N Date Extracted: 10/12/99

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/29/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	200	U
111-44-4	bis(2-Chloroethyl)Ether	200	U
95-57-8	2-Chlorophenol	200	U
541-73-1	1,3-Dichlorobenzene	200	U
106-46-7	1,4-Dichlorobenzene	200	U
95-50-1	1,2-Dichlorobenzene	200	U
95-48-7	2-Methylphenol	200	U
108-60-1	2,2'-oxybis(1-Chloropropane)	200	U
106-44-5	4-Methylphenol	200	U
621-64-7	N-Nitroso-Di-n-Propylamine	200	U
67-72-1	Hexachloroethane	200	U
98-95-3	Nitrobenzene	200	U
78-59-1	Isophorone	200	U
88-75-5	2-Nitrophenol	200	U
105-67-9	2,4-Dimethylphenol	200	U
111-91-1	bis(2-Chloroethoxy)Methane	200	U
120-83-2	2,4-Dichlorophenol	200	U
120-82-1	1,2,4-Trichlorobenzene	200	U
91-20-3	Naphthalene	200	U
106-47-8	4-Chloroaniline	200	U
87-68-3	Hexachlorobutadiene	200	U
59-50-7	4-Chloro-3-Methylphenol	200	U
91-57-6	2-Methylnaphthalene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	410	U
91-58-7	2-Chloronaphthalene	200	U
88-74-4	2-Nitroaniline	410	U
131-11-3	Dimethyl Phthalate	200	U
208-96-8	Acenaphthylene	200	U
606-20-2	2,6-Dinitrotoluene	200	U
99-09-2	3-Nitroaniline	410	U
83-32-9	Acenaphthene	200	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-18-02

Lab Name: CEIMIC CORP Contract: TETRA TECH

Lab Code: CEIMIC Case No.: CTO290 SAS No.: _____ SDG No.: 100799

Matrix: (soil/water) SOIL Lab Sample ID: 990877-15

Sample wt/vol: 30.2 (g/mL) G Lab File ID: JY986

Level: (low/med) LOW Date Received: 10/09/99

% Moisture: 20 decanted: (Y/N) N Date Extracted: 10/12/99

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/29/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	410	U
100-02-7	4-Nitrophenol	410	U
132-64-9	Dibenzofuran	200	U
121-14-2	2,4-Dinitrotoluene	200	U
84-66-2	Diethylphthalate	200	U
7005-72-3	4-Chlorophenyl-phenylether	200	U
86-73-7	Fluorene	200	U
100-01-6	4-Nitroaniline	410	U
534-52-1	4,6-Dinitro-2-Methylphenol	410	U
86-30-6	N-Nitrosodiphenylamine (1)	200	U
101-55-3	4-Bromophenyl-phenylether	200	U
118-74-1	Hexachlorobenzene	200	U
87-86-5	Pentachlorophenol	410	U
85-01-8	Phenanthrene	200	U
120-12-7	Anthracene	200	U
86-74-8	Carbazole	200	U
84-74-2	Di-n-Butylphthalate	66	J
206-44-0	Fluoranthene	200	U
129-00-0	Pyrene	200	U
85-68-7	Butylbenzylphthalate	200	U
91-94-1	3,3'-Dichlorobenzidine	200	U
56-55-3	Benzo(a)Anthracene	200	U
218-01-9	Chrysene	200	U
117-81-7	bis(2-Ethylhexyl)Phthalate	200	U
117-84-0	Di-n-Octyl Phthalate	200	U
205-99-2	Benzo(b)Fluoranthene	200	U
207-08-9	Benzo(k)Fluoranthene	200	U
50-32-8	Benzo(a)Pyrene	200	U
193-39-5	Indeno(1,2,3-cd)Pyrene	200	U
53-70-3	Dibenzo(a,h)Anthracene	200	U
191-24-2	Benzo(g,h,i)Perylene	200	U

(1) - Cannot be separated from Diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-18-03

Lab Name: CEIMIC CORP Contract: TETRA TECH

Lab Code: CEIMIC Case No.: CTO290 SAS No.: _____ SDG No.: 100799

Matrix: (soil/water) SOIL Lab Sample ID: 990877-16

Sample wt/vol: 30.2 (g/mL) G Lab File ID: JY987

Level: (low/med) LOW Date Received: 10/09/99

% Moisture: 19 decanted: (Y/N) N Date Extracted: 10/12/99

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/29/99

Injection Volume: 2.0 (uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	980	U
111-44-4	bis(2-Chloroethyl)Ether	980	U
95-57-8	2-Chlorophenol	980	U
541-73-1	1,3-Dichlorobenzene	980	U
106-46-7	1,4-Dichlorobenzene	980	U
95-50-1	1,2-Dichlorobenzene	980	U
95-48-7	2-Methylphenol	980	U
108-60-1	2,2'-oxybis(1-Chloropropane)	980	U
106-44-5	4-Methylphenol	980	U
621-64-7	N-Nitroso-Di-n-Propylamine	980	U
67-72-1	Hexachloroethane	980	U
98-95-3	Nitrobenzene	980	U
78-59-1	Isophorone	980	U
88-75-5	2-Nitrophenol	980	U
105-67-9	2,4-Dimethylphenol	980	U
111-91-1	bis(2-Chloroethoxy)Methane	980	U
120-83-2	2,4-Dichlorophenol	980	U
120-82-1	1,2,4-Trichlorobenzene	980	U
91-20-3	Naphthalene	980	U
106-47-8	4-Chloroaniline	980	U
87-68-3	Hexachlorobutadiene	980	U
59-50-7	4-Chloro-3-Methylphenol	980	U
91-57-6	2-Methylnaphthalene	240	J
77-47-4	Hexachlorocyclopentadiene	980	U
88-06-2	2,4,6-Trichlorophenol	980	U
95-95-4	2,4,5-Trichlorophenol	2000	U
91-58-7	2-Chloronaphthalene	980	U
88-74-4	2-Nitroaniline	2000	U
131-11-3	Dimethyl Phthalate	980	U
208-96-8	Acenaphthylene	980	U
606-20-2	2,6-Dinitrotoluene	980	U
99-09-2	3-Nitroaniline	2000	U
83-32-9	Acenaphthene	980	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-18-03

Lab Name: CEIMIC CORP Contract: TETRA TECH

Lab Code: CEIMIC Case No.: CTO290 SAS No.: _____ SDG No.: 100799

Matrix: (soil/water) SOIL Lab Sample ID: 990877-16

Sample wt/vol: 30.2 (g/mL) G Lab File ID: JY987

Level: (low/med) LOW Date Received: 10/09/99

% Moisture: 19 decanted: (Y/N) N Date Extracted: 10/12/99

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/29/99

Injection Volume: 2.0 (uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	2000	U
100-02-7	4-Nitrophenol	2000	U
132-64-9	Dibenzofuran	980	U
121-14-2	2,4-Dinitrotoluene	980	U
84-66-2	Diethylphthalate	980	U
7005-72-3	4-Chlorophenyl-phenylether	980	U
86-73-7	Fluorene	980	U
100-01-6	4-Nitroaniline	2000	U
534-52-1	4,6-Dinitro-2-Methylphenol	2000	U
86-30-6	N-Nitrosodiphenylamine (1)	980	U
101-55-3	4-Bromophenyl-phenylether	980	U
118-74-1	Hexachlorobenzene	980	U
87-86-5	Pentachlorophenol	2000	U
85-01-8	Phenanthrene	980	U
120-12-7	Anthracene	980	U
86-74-8	Carbazole	980	U
84-74-2	Di-n-Butylphthalate	980	U
206-44-0	Fluoranthene	980	U
129-00-0	Pyrene	980	U
85-68-7	Butylbenzylphthalate	980	U
91-94-1	3,3'-Dichlorobenzidine	980	U
56-55-3	Benzo(a)Anthracene	980	U
218-01-9	Chrysene	980	U
117-81-7	bis(2-Ethylhexyl)Phthalate	980	U
117-84-0	Di-n-Octyl Phthalate	980	U
205-99-2	Benzo(b)Fluoranthene	980	U
207-08-9	Benzo(k)Fluoranthene	980	U
50-32-8	Benzo(a)Pyrene	980	U
193-39-5	Indeno(1,2,3-cd)Pyrene	980	U
53-70-3	Dibenzo(a,h)Anthracene	980	U
191-24-2	Benzo(g,h,i)Perylene	980	U

(1) - Cannot be separated from Diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-18-04

Lab Name: CEIMIC CORP Contract: TETRA TECH

Lab Code: CEIMIC Case No.: CTO290 SAS No.: _____ SDG No.: 100799

Matrix: (soil/water) SOIL Lab Sample ID: 990877-17

Sample wt/vol: 30.0 (g/mL) G Lab File ID: JY990

Level: (low/med) LOW Date Received: 10/09/99

% Moisture: 11 decanted: (Y/N) N Date Extracted: 10/12/99

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/29/99

Injection Volume: 2.0 (uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	900	U
111-44-4	bis(2-Chloroethyl)Ether	900	U
95-57-8	2-Chlorophenol	900	U
541-73-1	1,3-Dichlorobenzene	900	U
106-46-7	1,4-Dichlorobenzene	900	U
95-50-1	1,2-Dichlorobenzene	900	U
95-48-7	2-Methylphenol	900	U
108-60-1	2,2'-oxybis(1-Chloropropane)	900	U
106-44-5	4-Methylphenol	900	U
621-64-7	N-Nitroso-Di-n-Propylamine	900	U
67-72-1	Hexachloroethane	900	U
98-95-3	Nitrobenzene	900	U
78-59-1	Isophorone	900	U
88-75-5	2-Nitrophenol	900	U
105-67-9	2,4-Dimethylphenol	900	U
111-91-1	bis(2-Chloroethoxy)Methane	900	U
120-83-2	2,4-Dichlorophenol	900	U
120-82-1	1,2,4-Trichlorobenzene	900	U
91-20-3	Naphthalene	900	U
106-47-8	4-Chloroaniline	900	U
87-68-3	Hexachlorobutadiene	900	U
59-50-7	4-Chloro-3-Methylphenol	900	U
91-57-6	2-Methylnaphthalene	570	J
77-47-4	Hexachlorocyclopentadiene	900	U
88-06-2	2,4,6-Trichlorophenol	900	U
95-95-4	2,4,5-Trichlorophenol	1900	U
91-58-7	2-Chloronaphthalene	900	U
88-74-4	2-Nitroaniline	1900	U
131-11-3	Dimethyl Phthalate	900	U
208-96-8	Acenaphthylene	900	U
606-20-2	2,6-Dinitrotoluene	900	U
99-09-2	3-Nitroaniline	1900	U
83-32-9	Acenaphthene	900	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-18-04

Lab Name: CEIMIC CORP Contract: TETRA TECH

Lab Code: CEIMIC Case No.: CTO290 SAS No.: _____ SDG No.: 100799

Matrix: (soil/water) SOIL Lab Sample ID: 990877-17

Sample wt/vol: 30.0 (g/mL) G Lab File ID: JY990

Level: (low/med) LOW Date Received: 10/09/99

% Moisture: 11 decanted: (Y/N) N Date Extracted: 10/12/99

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/29/99

Injection Volume: 2.0 (uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1900	U
100-02-7	4-Nitrophenol	1900	U
132-64-9	Dibenzofuran	900	U
121-14-2	2,4-Dinitrotoluene	900	U
84-66-2	Diethylphthalate	900	U
7005-72-3	4-Chlorophenyl-phenylether	900	U
86-73-7	Fluorene	900	U
100-01-6	4-Nitroaniline	1900	U
534-52-1	4,6-Dinitro-2-Methylphenol	1900	U
86-30-6	N-Nitrosodiphenylamine (1)	900	U
101-55-3	4-Bromophenyl-phenylether	900	U
118-74-1	Hexachlorobenzene	900	U
87-86-5	Pentachlorophenol	1900	U
85-01-8	Phenanthrene	900	U
120-12-7	Anthracene	900	U
86-74-8	Carbazole	900	U
84-74-2	Di-n-Butylphthalate	900	U
206-44-0	Fluoranthene	900	U
129-00-0	Pyrene	900	U
85-68-7	Butylbenzylphthalate	900	U
91-94-1	3,3'-Dichlorobenzidine	900	U
56-55-3	Benzo(a)Anthracene	900	U
218-01-9	Chrysene	900	U
117-81-7	bis(2-Ethylhexyl)Phthalate	900	U
117-84-0	Di-n-Octyl Phthalate	900	U
205-99-2	Benzo(b)Fluoranthene	900	U
207-08-9	Benzo(k)Fluoranthene	900	U
50-32-8	Benzo(a)Pyrene	900	U
193-39-5	Indeno(1,2,3-cd)Pyrene	900	U
53-70-3	Dibenzo(a,h)Anthracene	900	U
191-24-2	Benzo(g,h,i)Perylene	900	U

(1) - Cannot be separated from Diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-18-05

Lab Name: CEIMIC CORP Contract: TETRA TECH

Lab Code: CEIMIC Case No.: CTO290 SAS No.: _____ SDG No.: 100799

Matrix: (soil/water) SOIL Lab Sample ID: 990877-18

Sample wt/vol: 30.2 (g/mL) G Lab File ID: JY991

Level: (low/med) LOW Date Received: 10/09/99

% Moisture: 18 decanted: (Y/N) N Date Extracted: 10/12/99

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/30/99

Injection Volume: 2.0 (uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	970	U
111-44-4	bis(2-Chloroethyl)Ether	970	U
95-57-8	2-Chlorophenol	970	U
541-73-1	1,3-Dichlorobenzene	970	U
106-46-7	1,4-Dichlorobenzene	970	U
95-50-1	1,2-Dichlorobenzene	970	U
95-48-7	2-Methylphenol	970	U
108-60-1	2,2'-oxybis(1-Chloropropane)	970	U
106-44-5	4-Methylphenol	970	U
621-64-7	N-Nitroso-Di-n-Propylamine	970	U
67-72-1	Hexachloroethane	970	U
98-95-3	Nitrobenzene	970	U
78-59-1	Isophorone	970	U
88-75-5	2-Nitrophenol	970	U
105-67-9	2,4-Dimethylphenol	970	U
111-91-1	bis(2-Chloroethoxy)Methane	970	U
120-83-2	2,4-Dichlorophenol	970	U
120-82-1	1,2,4-Trichlorobenzene	970	U
91-20-3	Naphthalene	970	U
106-47-8	4-Chloroaniline	970	U
87-68-3	Hexachlorobutadiene	970	U
59-50-7	4-Chloro-3-Methylphenol	970	U
91-57-6	2-Methylnaphthalene	970	U
77-47-4	Hexachlorocyclopentadiene	970	U
88-06-2	2,4,6-Trichlorophenol	970	U
95-95-4	2,4,5-Trichlorophenol	2000	U
91-58-7	2-Chloronaphthalene	970	U
88-74-4	2-Nitroaniline	2000	U
131-11-3	Dimethyl Phthalate	970	U
208-96-8	Acenaphthylene	970	U
606-20-2	2,6-Dinitrotoluene	970	U
99-09-2	3-Nitroaniline	2000	U
83-32-9	Acenaphthene	970	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-18-05

Lab Name: CEIMIC CORP Contract: TETRA TECH

Lab Code: CEIMIC Case No.: CTO290 SAS No.: _____ SDG No.: 100799

Matrix: (soil/water) SOIL Lab Sample ID: 990877-18

Sample wt/vol: 30.2 (g/mL) G Lab File ID: JY991

Level: (low/med) LOW Date Received: 10/09/99

% Moisture: 18 decanted: (Y/N) N Date Extracted: 10/12/99

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/30/99

Injection Volume: 2.0 (uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	2000	U
100-02-7	4-Nitrophenol	2000	U
132-64-9	Dibenzofuran	970	U
121-14-2	2,4-Dinitrotoluene	970	U
84-66-2	Diethylphthalate	970	U
7005-72-3	4-Chlorophenyl-phenylether	970	U
86-73-7	Fluorene	970	U
100-01-6	4-Nitroaniline	2000	U
534-52-1	4,6-Dinitro-2-Methylphenol	2000	U
86-30-6	N-Nitrosodiphenylamine (1)	970	U
101-55-3	4-Bromophenyl-phenylether	970	U
118-74-1	Hexachlorobenzene	970	U
87-86-5	Pentachlorophenol	2000	U
85-01-8	Phenanthrene	970	U
120-12-7	Anthracene	970	U
86-74-8	Carbazole	970	U
84-74-2	Di-n-Butylphthalate	970	U
206-44-0	Fluoranthene	970	U
129-00-0	Pyrene	970	U
85-68-7	Butylbenzylphthalate	970	U
91-94-1	3,3'-Dichlorobenzidine	970	U
56-55-3	Benzo(a)Anthracene	970	U
218-01-9	Chrysene	970	U
117-81-7	bis(2-Ethylhexyl)Phthalate	970	U
117-84-0	Di-n-Octyl Phthalate	970	U
205-99-2	Benzo(b)Fluoranthene	970	U
207-08-9	Benzo(k)Fluoranthene	970	U
50-32-8	Benzo(a)Pyrene	970	U
193-39-5	Indeno(1,2,3-cd)Pyrene	970	U
53-70-3	Dibenzo(a,h)Anthracene	970	U
191-24-2	Benzo(g,h,i)Perylene	970	U

(1) - Cannot be separated from Diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-18-06

Lab Name: CEIMIC CORP Contract: TETRA TECH

Lab Code: CEIMIC Case No.: CTO290 SAS No.: _____ SDG No.: 100799

Matrix: (soil/water) SOIL Lab Sample ID: 990877-19

Sample wt/vol: 30.0 (g/mL) G Lab File ID: JY992

Level: (low/med) LOW Date Received: 10/09/99

% Moisture: 17 decanted: (Y/N) N Date Extracted: 10/12/99

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/30/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	190	U
111-44-4	bis(2-Chloroethyl)Ether	190	U
95-57-8	2-Chlorophenol	190	U
541-73-1	1,3-Dichlorobenzene	190	U
106-46-7	1,4-Dichlorobenzene	190	U
95-50-1	1,2-Dichlorobenzene	190	U
95-48-7	2-Methylphenol	190	U
108-60-1	2,2'-oxybis(1-Chloropropane)	190	U
106-44-5	4-Methylphenol	190	U
621-64-7	N-Nitroso-Di-n-Propylamine	190	U
67-72-1	Hexachloroethane	190	U
98-95-3	Nitrobenzene	190	U
78-59-1	Isophorone	190	U
88-75-5	2-Nitrophenol	190	U
105-67-9	2,4-Dimethylphenol	190	U
111-91-1	bis(2-Chloroethoxy)Methane	190	U
120-83-2	2,4-Dichlorophenol	190	U
120-82-1	1,2,4-Trichlorobenzene	190	U
91-20-3	Naphthalene	190	U
106-47-8	4-Chloroaniline	190	U
87-68-3	Hexachlorobutadiene	190	U
59-50-7	4-Chloro-3-Methylphenol	190	U
91-57-6	2-Methylnaphthalene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	400	U
91-58-7	2-Chloronaphthalene	190	U
88-74-4	2-Nitroaniline	400	U
131-11-3	Dimethyl Phthalate	190	U
208-96-8	Acenaphthylene	190	U
606-20-2	2,6-Dinitrotoluene	190	U
99-09-2	3-Nitroaniline	400	U
83-32-9	Acenaphthene	190	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-18-06

Lab Name: CEIMIC CORP Contract: TETRA_TECH

Lab Code: CEIMIC Case No.: CTO290 SAS No.: _____ SDG No.: 100799

Matrix: (soil/water) SOIL Lab Sample ID: 990877-19

Sample wt/vol: 30.0 (g/mL) G Lab File ID: JY992

Level: (low/med) LOW Date Received: 10/09/99

% Moisture: 17 decanted: (Y/N) N Date Extracted: 10/12/99

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/30/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	400	U
100-02-7	4-Nitrophenol	400	U
132-64-9	Dibenzofuran	190	U
121-14-2	2,4-Dinitrotoluene	190	U
84-66-2	Diethylphthalate	190	U
7005-72-3	4-Chlorophenyl-phenylether	190	U
86-73-7	Fluorene	190	U
100-01-6	4-Nitroaniline	400	U
534-52-1	4,6-Dinitro-2-Methylphenol	400	U
86-30-6	N-Nitrosodiphenylamine (1)	190	U
101-55-3	4-Bromophenyl-phenylether	190	U
118-74-1	Hexachlorobenzene	190	U
87-86-5	Pentachlorophenol	400	U
85-01-8	Phenanthrene	190	U
120-12-7	Anthracene	190	U
86-74-8	Carbazole	190	U
84-74-2	Di-n-Butylphthalate	63	J
206-44-0	Fluoranthene	190	U
129-00-0	Pyrene	190	U
85-68-7	Butylbenzylphthalate	190	U
91-94-1	3,3'-Dichlorobenzidine	190	U
56-55-3	Benzo(a)Anthracene	190	U
218-01-9	Chrysene	190	U
117-81-7	bis(2-Ethylhexyl)Phthalate	60	J
117-84-0	Di-n-Octyl Phthalate	190	U
205-99-2	Benzo(b)Fluoranthene	190	U
207-08-9	Benzo(k)Fluoranthene	190	U
50-32-8	Benzo(a)Pyrene	190	U
193-39-5	Indeno(1,2,3-cd)Pyrene	190	U
53-70-3	Dibenzo(a,h)Anthracene	190	U
191-24-2	Benzo(g,h,i)Perylene	190	U

(1) - Cannot be separated from Diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-19-03

Lab Name: CEIMIC CORP Contract: TETRA TECH

Lab Code: CEIMIC Case No.: NAWC SAS No.: _____ SDG No.: SB0325

Matrix: (soil/water) SOIL Lab Sample ID: 990884-03

Sample wt/vol: 30.2 (g/mL) G Lab File ID: JY984

Level: (low/med) LOW Date Received: 10/09/99

% Moisture: 17 decanted: (Y/N) N Date Extracted: 10/11/99

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/29/99

Injection Volume: 2.0 (uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: ____

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
108-95-2	Phenol	960	U
111-44-4	bis(2-Chloroethyl)Ether	960	U
95-57-8	2-Chlorophenol	960	U
541-73-1	1,3-Dichlorobenzene	960	U
106-46-7	1,4-Dichlorobenzene	960	U
95-50-1	1,2-Dichlorobenzene	960	U
95-48-7	2-Methylphenol	960	U
108-60-1	2,2'-oxybis(1-Chloropropane)	960	U
106-44-5	4-Methylphenol	960	U
621-64-7	N-Nitroso-Di-n-Propylamine	960	U
67-72-1	Hexachloroethane	960	U
98-95-3	Nitrobenzene	960	U
78-59-1	Isophorone	960	U
88-75-5	2-Nitrophenol	960	U
105-67-9	2,4-Dimethylphenol	960	U
111-91-1	bis(2-Chloroethoxy)Methane	960	U
120-83-2	2,4-Dichlorophenol	960	U
120-82-1	1,2,4-Trichlorobenzene	960	U
91-20-3	Naphthalene	960	U
106-47-8	4-Chloroaniline	960	U
87-68-3	Hexachlorobutadiene	960	U
59-50-7	4-Chloro-3-Methylphenol	960	U
91-57-6	2-Methylnaphthalene	630	J
77-47-4	Hexachlorocyclopentadiene	960	U
88-06-2	2,4,6-Trichlorophenol	960	U
95-95-4	2,4,5-Trichlorophenol	2000	U
91-58-7	2-Chloronaphthalene	960	U
88-74-4	2-Nitroaniline	2000	U
131-11-3	Dimethyl Phthalate	960	U
208-96-8	Acenaphthylene	960	U
606-20-2	2,6-Dinitrotoluene	960	U
99-09-2	3-Nitroaniline	2000	U
83-32-9	Acenaphthene	960	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-19-03

Lab Name: CEIMIC CORP Contract: TETRA TECH

Lab Code: CEIMIC Case No.: NAWC SAS No.: _____ SDG No.: SB0325

Matrix: (soil/water) SOIL Lab Sample ID: 990884-03

Sample wt/vol: 30.2 (g/mL) G Lab File ID: JY984

Level: (low/med) LOW Date Received: 10/09/99

% Moisture: 17 decanted: (Y/N) N Date Extracted: 10/11/99

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/29/99

Injection Volume: 2.0 (uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	2000	U
100-02-7	4-Nitrophenol	2000	U
132-64-9	Dibenzofuran	960	U
121-14-2	2,4-Dinitrotoluene	960	U
84-66-2	Diethylphthalate	960	U
7005-72-3	4-Chlorophenyl-phenylether	960	U
86-73-7	Fluorene	960	U
100-01-6	4-Nitroaniline	2000	U
534-52-1	4,6-Dinitro-2-Methylphenol	2000	U
86-30-6	N-Nitrosodiphenylamine (1)	960	U
101-55-3	4-Bromophenyl-phenylether	960	U
118-74-1	Hexachlorobenzene	960	U
87-86-5	Pentachlorophenol	2000	U
85-01-8	Phenanthrene	960	U
120-12-7	Anthracene	960	U
86-74-8	Carbazole	960	U
84-74-2	Di-n-Butylphthalate	960	U
206-44-0	Fluoranthene	960	U
129-00-0	Pyrene	960	U
85-68-7	Butylbenzylphthalate	960	U
91-94-1	3,3'-Dichlorobenzidine	960	U
56-55-3	Benzo(a)Anthracene	960	U
218-01-9	Chrysene	960	U
117-81-7	bis(2-Ethylhexyl)Phthalate	960	U
117-84-0	Di-n-Octyl Phthalate	960	U
205-99-2	Benzo(b)Fluoranthene	960	U
207-08-9	Benzo(k)Fluoranthene	960	U
50-32-8	Benzo(a)Pyrene	960	U
193-39-5	Indeno(1,2,3-cd)Pyrene	960	U
53-70-3	Dibenzo(a,h)Anthracene	960	U
191-24-2	Benzo(g,h,i)Perylene	960	U

(1) - Cannot be separated from Diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP10-0207

Lab Name: CEIMIC CORP Contract: TETRA TECH

Lab Code: CEIMIC Case No.: CTO290 SAS No.: _____ SDG No.: 100799

Matrix: (soil/water) SOIL Lab Sample ID: 990877-03

Sample wt/vol: 30.1 (g/mL) G Lab File ID: IX249

Level: (low/med) LOW Date Received: 10/08/99

% Moisture: 4 decanted: (Y/N) N Date Extracted: 10/11/99

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/02/99

Injection Volume: 2.0 (uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	830	U
111-44-4	bis(2-Chloroethyl)Ether	830	U
95-57-8	2-Chlorophenol	830	U
541-73-1	1,3-Dichlorobenzene	830	U
106-46-7	1,4-Dichlorobenzene	830	U
95-50-1	1,2-Dichlorobenzene	830	U
95-48-7	2-Methylphenol	830	U
108-60-1	2,2'-oxybis(1-Chloropropane)	830	U
106-44-5	4-Methylphenol	830	U
621-64-7	N-Nitroso-Di-n-Propylamine	830	U
67-72-1	Hexachloroethane	830	U
98-95-3	Nitrobenzene	830	U
78-59-1	Isophorone	830	U
88-75-5	2-Nitrophenol	830	U
105-67-9	2,4-Dimethylphenol	830	U
111-91-1	bis(2-Chloroethoxy)Methane	830	U
120-83-2	2,4-Dichlorophenol	830	U
120-82-1	1,2,4-Trichlorobenzene	830	U
91-20-3	Naphthalene	830	U
106-47-8	4-Chloroaniline	830	U
87-68-3	Hexachlorobutadiene	830	U
59-50-7	4-Chloro-3-Methylphenol	830	U
91-57-6	2-Methylnaphthalene	830	U
77-47-4	Hexachlorocyclopentadiene	830	U
88-06-2	2,4,6-Trichlorophenol	830	U
95-95-4	2,4,5-Trichlorophenol	1700	U
91-58-7	2-Chloronaphthalene	830	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethyl Phthalate	830	U
208-96-8	Acenaphthylene	830	U
606-20-2	2,6-Dinitrotoluene	830	U
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	260	J

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. -

TP10-0207

Lab Name: CEIMIC CORP Contract: TETRA_TECH

Lab Code: CEIMIC Case No.: CTO290 SAS No.: _____ SDG No.: 100799

Matrix: (soil/water) SOIL Lab Sample ID: 990877-03

Sample wt/vol: 30.1 (g/mL) G Lab File ID: IX249

Level: (low/med) LOW Date Received: 10/08/99

% Moisture: 4 decanted: (Y/N) N Date Extracted: 10/11/99

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/02/99

Injection Volume: 2.0 (uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	190	J
121-14-2	2,4-Dinitrotoluene	830	U
84-66-2	Diethylphthalate	830	U
7005-72-3	4-Chlorophenyl-phenylether	830	U
86-73-7	Fluorene	470	J
100-01-6	4-Nitroaniline	1700	U
534-52-1	4,6-Dinitro-2-Methylphenol	1700	U
86-30-6	N-Nitrosodiphenylamine (1)	830	U
101-55-3	4-Bromophenyl-phenylether	830	U
118-74-1	Hexachlorobenzene	830	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	4000	
120-12-7	Anthracene	730	J
86-74-8	Carbazole	740	J
84-74-2	Di-n-Butylphthalate	860	B
206-44-0	Fluoranthene	7000	
129-00-0	Pyrene	6400	
85-68-7	Butylbenzylphthalate	830	U
91-94-1	3,3'-Dichlorobenzidine	830	U
56-55-3	Benzo(a)Anthracene	3100	
218-01-9	Chrysene	3000	
117-81-7	bis(2-Ethylhexyl)Phthalate	830	U
117-84-0	Di-n-Octyl Phthalate	830	U
205-99-2	Benzo(b)Fluoranthene	3200	
207-08-9	Benzo(k)Fluoranthene	2200	
50-32-8	Benzo(a)Pyrene	3400	
193-39-5	Indeno(1,2,3-cd)Pyrene	2500	
53-70-3	Dibenzo(a,h)Anthracene	830	U
191-24-2	Benzo(g,h,i)Perylene	2100	

(1) - Cannot be separated from Diphenylamine

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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP11-0209

Lab Name: CEIMIC CORP Contract: TETRA TECH

Lab Code: CEIMIC Case No.: CTO290 SAS No.: _____ SDG No.: 100799

Matrix: (soil/water) SOIL Lab Sample ID: 990877-05

Sample wt/vol: 30.3 (g/mL) G Lab File ID: JY993

Level: (low/med) LOW Date Received: 10/08/99

% Moisture: 20 decanted: (Y/N) N Date Extracted: 10/11/99

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/30/99

Injection Volume: 2.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	2000	U
111-44-4	bis(2-Chloroethyl)Ether	2000	U
95-57-8	2-Chlorophenol	2000	U
541-73-1	1,3-Dichlorobenzene	2000	U
106-46-7	1,4-Dichlorobenzene	2000	U
95-50-1	1,2-Dichlorobenzene	2000	U
95-48-7	2-Methylphenol	2000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	2000	U
106-44-5	4-Methylphenol	2000	U
621-64-7	N-Nitroso-Di-n-Propylamine	2000	U
67-72-1	Hexachloroethane	2000	U
98-95-3	Nitrobenzene	2000	U
78-59-1	Isophorone	2000	U
88-75-5	2-Nitrophenol	2000	U
105-67-9	2,4-Dimethylphenol	2000	U
111-91-1	bis(2-Chloroethoxy)Methane	2000	U
120-83-2	2,4-Dichlorophenol	2000	U
120-82-1	1,2,4-Trichlorobenzene	2000	U
91-20-3	Naphthalene	2000	U
106-47-8	4-Chloroaniline	2000	U
87-68-3	Hexachlorobutadiene	2000	U
59-50-7	4-Chloro-3-Methylphenol	2000	U
91-57-6	2-Methylnaphthalene	2000	U
77-47-4	Hexachlorocyclopentadiene	2000	U
88-06-2	2,4,6-Trichlorophenol	2000	U
95-95-4	2,4,5-Trichlorophenol	4100	U
91-58-7	2-Chloronaphthalene	2000	U
88-74-4	2-Nitroaniline	4100	U
131-11-3	Dimethyl Phthalate	2000	U
208-96-8	Acenaphthylene	2000	U
606-20-2	2,6-Dinitrotoluene	2000	U
99-09-2	3-Nitroaniline	4100	U
83-32-9	Acenaphthene	2000	U

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1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP11-0209

Lab Name: CEIMIC CORP Contract: TETRA_TECH

Lab Code: CEIMIC Case No.: CTO290 SAS No.: _____ SDG No.: 100799

Matrix: (soil/water) SOIL Lab Sample ID: 990877-05

Sample wt/vol: 30.3 (g/mL) G Lab File ID: JY993

Level: (low/med) LOW Date Received: 10/08/99

% Moisture: 20 decanted: (Y/N) N Date Extracted: 10/11/99

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/30/99

Injection Volume: 2.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	4100	U
100-02-7	4-Nitrophenol	4100	U
132-64-9	Dibenzofuran	2000	U
121-14-2	2,4-Dinitrotoluene	2000	U
84-66-2	Diethylphthalate	2000	U
7005-72-3	4-Chlorophenyl-phenylether	2000	U
86-73-7	Fluorene	2000	U
100-01-6	4-Nitroaniline	4100	U
534-52-1	4,6-Dinitro-2-Methylphenol	4100	U
86-30-6	N-Nitrosodiphenylamine (1)	2000	U
101-55-3	4-Bromophenyl-phenylether	2000	U
118-74-1	Hexachlorobenzene	2000	U
87-86-5	Pentachlorophenol	4100	U
85-01-8	Phenanthrene	690	J
120-12-7	Anthracene	2000	U
86-74-8	Carbazole	2000	U
84-74-2	Di-n-Butylphthalate	2000	U
206-44-0	Fluoranthene	1900	J
129-00-0	Pyrene	2000	
85-68-7	Butylbenzylphthalate	2000	U
91-94-1	3,3'-Dichlorobenzidine	2000	U
56-55-3	Benzo(a)Anthracene	980	J
218-01-9	Chrysene	1100	J
117-81-7	bis(2-Ethylhexyl)Phthalate	640	BJ
117-84-0	Di-n-Octyl Phthalate	2000	U
205-99-2	Benzo(b)Fluoranthene	950	J
207-08-9	Benzo(k)Fluoranthene	940	J
50-32-8	Benzo(a)Pyrene	980	J
193-39-5	Indeno(1,2,3-cd)Pyrene	740	J
53-70-3	Dibenzo(a,h)Anthracene	2000	U
191-24-2	Benzo(g,h,i)Perylene	730	J

(1) - Cannot be separated from Diphenylamine

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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP14-0212

Lab Name: CEIMIC CORP Contract: TETRA TECH

Lab Code: CEIMIC Case No.: CTO290 SAS No.: _____ SDG No.: 100799

Matrix: (soil/water) SOIL Lab Sample ID: 990877-08

Sample wt/vol: 30.3 (g/mL) G Lab File ID: JY994

Level: (low/med) LOW Date Received: 10/08/99

% Moisture: 21 decanted: (Y/N) N Date Extracted: 10/11/99

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/30/99

Injection Volume: 2.0 (uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	1000	U
111-44-4	bis(2-Chloroethyl)Ether	1000	U
95-57-8	2-Chlorophenol	1000	U
541-73-1	1,3-Dichlorobenzene	1000	U
106-46-7	1,4-Dichlorobenzene	1000	U
95-50-1	1,2-Dichlorobenzene	1000	U
95-48-7	2-Methylphenol	1000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	1000	U
106-44-5	4-Methylphenol	1000	U
621-64-7	N-Nitroso-Di-n-Propylamine	1000	U
67-72-1	Hexachloroethane	1000	U
98-95-3	Nitrobenzene	1000	U
78-59-1	Isophorone	1000	U
88-75-5	2-Nitrophenol	1000	U
105-67-9	2,4-Dimethylphenol	1000	U
111-91-1	bis(2-Chloroethoxy)Methane	1000	U
120-83-2	2,4-Dichlorophenol	1000	U
120-82-1	1,2,4-Trichlorobenzene	1000	U
91-20-3	Naphthalene	1000	U
106-47-8	4-Chloroaniline	1000	U
87-68-3	Hexachlorobutadiene	1000	U
59-50-7	4-Chloro-3-Methylphenol	1000	U
91-57-6	2-Methylnaphthalene	1000	U
77-47-4	Hexachlorocyclopentadiene	1000	U
88-06-2	2,4,6-Trichlorophenol	1000	U
95-95-4	2,4,5-Trichlorophenol	2100	U
91-58-7	2-Chloronaphthalene	1000	U
88-74-4	2-Nitroaniline	2100	U
131-11-3	Dimethyl Phthalate	1000	U
208-96-8	Acenaphthylene	1000	U
606-20-2	2,6-Dinitrotoluene	1000	U
99-09-2	3-Nitroaniline	2100	U
83-32-9	Acenaphthene	1000	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP14-0212

Lab Name: CEIMIC CORP Contract: TETRA TECH

Lab Code: CEIMIC Case No.: CTO290 SAS No.: _____ SDG No.: 100799

Matrix: (soil/water) SOIL Lab Sample ID: 990877-08

Sample wt/vol: 30.3 (g/mL) G Lab File ID: JY994

Level: (low/med) LOW Date Received: 10/08/99

% Moisture: 21 decanted: (Y/N) N Date Extracted: 10/11/99

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/30/99

Injection Volume: 2.0 (uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	2100	U
100-02-7	4-Nitrophenol	2100	U
132-64-9	Dibenzofuran	1000	U
121-14-2	2,4-Dinitrotoluene	1000	U
84-66-2	Diethylphthalate	1000	U
7005-72-3	4-Chlorophenyl-phenylether	1000	U
86-73-7	Fluorene	1000	U
100-01-6	4-Nitroaniline	2100	U
534-52-1	4,6-Dinitro-2-Methylphenol	2100	U
86-30-6	N-Nitrosodiphenylamine (1)	1000	U
101-55-3	4-Bromophenyl-phenylether	1000	U
118-74-1	Hexachlorobenzene	1000	U
87-86-5	Pentachlorophenol	2100	U
85-01-8	Phenanthrene	2300	
120-12-7	Anthracene	510	J
86-74-8	Carbazole	210	J
84-74-2	Di-n-Butylphthalate	1000	U
206-44-0	Fluoranthene	4800	
129-00-0	Pyrene	4800	
85-68-7	Butylbenzylphthalate	1000	U
91-94-1	3,3'-Dichlorobenzidine	1000	U
56-55-3	Benzo(a)Anthracene	2600	
218-01-9	Chrysene	2800	
117-81-7	bis(2-Ethylhexyl)Phthalate	910	BJ
117-84-0	Di-n-Octyl Phthalate	1000	U
205-99-2	Benzo(b)Fluoranthene	2500	
207-08-9	Benzo(k)Fluoranthene	2600	
50-32-8	Benzo(a)Pyrene	2900	
193-39-5	Indeno(1,2,3-cd)Pyrene	2100	
53-70-3	Dibenzo(a,h)Anthracene	1000	U
191-24-2	Benzo(g,h,i)Perylene	2000	

(1) - Cannot be separated from Diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP14-0213

Lab Name: CEIMIC CORP Contract: TETRA TECH

Lab Code: CEIMIC Case No.: CTO290 SAS No.: _____ SDG No.: 100799

Matrix: (soil/water) SOIL Lab Sample ID: 990877-09

Sample wt/vol: 30.1 (g/mL) G Lab File ID: JY982

Level: (low/med) LOW Date Received: 10/08/99

% Moisture: 14 decanted: (Y/N) N Date Extracted: 10/11/99

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/29/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	190	U
111-44-4	bis(2-Chloroethyl)Ether	190	U
95-57-8	2-Chlorophenol	190	U
541-73-1	1,3-Dichlorobenzene	190	U
106-46-7	1,4-Dichlorobenzene	190	U
95-50-1	1,2-Dichlorobenzene	190	U
95-48-7	2-Methylphenol	190	U
108-60-1	2,2'-oxybis(1-Chloropropane)	190	U
106-44-5	4-Methylphenol	190	U
621-64-7	N-Nitroso-Di-n-Propylamine	190	U
67-72-1	Hexachloroethane	190	U
98-95-3	Nitrobenzene	190	U
78-59-1	Isophorone	190	U
88-75-5	2-Nitrophenol	190	U
105-67-9	2,4-Dimethylphenol	190	U
111-91-1	bis(2-Chloroethoxy)Methane	190	U
120-83-2	2,4-Dichlorophenol	190	U
120-82-1	1,2,4-Trichlorobenzene	190	U
91-20-3	Naphthalene	190	U
106-47-8	4-Chloroaniline	190	U
87-68-3	Hexachlorobutadiene	190	U
59-50-7	4-Chloro-3-Methylphenol	190	U
91-57-6	2-Methylnaphthalene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	380	U
91-58-7	2-Chloronaphthalene	190	U
88-74-4	2-Nitroaniline	380	U
131-11-3	Dimethyl Phthalate	190	U
208-96-8	Acenaphthylene	190	U
606-20-2	2,6-Dinitrotoluene	190	U
99-09-2	3-Nitroaniline	380	U
83-32-9	Acenaphthene	190	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP14-0213

Lab Name: CEIMIC CORP Contract: TETRA TECH

Lab Code: CEIMIC Case No.: CTO290 SAS No.: _____ SDG No.: 100799

Matrix: (soil/water) SOIL Lab Sample ID: 990877-09

Sample wt/vol: 30.1 (g/mL) G Lab File ID: JY982

Level: (low/med) LOW Date Received: 10/08/99

% Moisture: 14 decanted: (Y/N) N Date Extracted: 10/11/99

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/29/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	380	U
100-02-7	4-Nitrophenol	380	U
132-64-9	Dibenzofuran	190	U
121-14-2	2,4-Dinitrotoluene	190	U
84-66-2	Diethylphthalate	190	U
7005-72-3	4-Chlorophenyl-phenylether	190	U
86-73-7	Fluorene	190	U
100-01-6	4-Nitroaniline	380	U
534-52-1	4,6-Dinitro-2-Methylphenol	380	U
86-30-6	N-Nitrosodiphenylamine (1)	190	U
101-55-3	4-Bromophenyl-phenylether	190	U
118-74-1	Hexachlorobenzene	190	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	190	U
120-12-7	Anthracene	190	U
86-74-8	Carbazole	190	U
84-74-2	Di-n-Butylphthalate	51	BJ
206-44-0	Fluoranthene	190	U
129-00-0	Pyrene	190	U
85-68-7	Butylbenzylphthalate	190	U
91-94-1	3,3'-Dichlorobenzidine	190	U
56-55-3	Benzo(a)Anthracene	190	U
218-01-9	Chrysene	190	U
117-81-7	bis(2-Ethylhexyl)Phthalate	190	U
117-84-0	Di-n-Octyl Phthalate	190	U
205-99-2	Benzo(b)Fluoranthene	190	U
207-08-9	Benzo(k)Fluoranthene	190	U
50-32-8	Benzo(a)Pyrene	190	U
193-39-5	Indeno(1,2,3-cd)Pyrene	190	U
53-70-3	Dibenzo(a,h)Anthracene	190	U
191-24-2	Benzo(g,h,i)Perylene	190	U

(1) - Cannot be separated from Diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP16-0215

Lab Name: CEIMIC CORP Contract: TETRA TECH

Lab Code: CEIMIC Case No.: CTO290 SAS No.: _____ SDG No.: 100799

Matrix: (soil/water) SOIL Lab Sample ID: 990877-12

Sample wt/vol: 30.4 (g/mL) G Lab File ID: JY997

Level: (low/med) LOW Date Received: 10/08/99

% Moisture: 21 decanted: (Y/N) N Date Extracted: 10/11/99

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/30/99

Injection Volume: 2.0 (uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	1000	U
111-44-4	bis(2-Chloroethyl)Ether	1000	U
95-57-8	2-Chlorophenol	1000	U
541-73-1	1,3-Dichlorobenzene	1000	U
106-46-7	1,4-Dichlorobenzene	1000	U
95-50-1	1,2-Dichlorobenzene	1000	U
95-48-7	2-Methylphenol	1000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	1000	U
106-44-5	4-Methylphenol	1000	U
621-64-7	N-Nitroso-Di-n-Propylamine	1000	U
67-72-1	Hexachloroethane	1000	U
98-95-3	Nitrobenzene	1000	U
78-59-1	Isophorone	1000	U
88-75-5	2-Nitrophenol	1000	U
105-67-9	2,4-Dimethylphenol	1000	U
111-91-1	bis(2-Chloroethoxy)Methane	1000	U
120-83-2	2,4-Dichlorophenol	1000	U
120-82-1	1,2,4-Trichlorobenzene	1000	U
91-20-3	Naphthalene	1000	U
106-47-8	4-Chloroaniline	1000	U
87-68-3	Hexachlorobutadiene	1000	U
59-50-7	4-Chloro-3-Methylphenol	1000	U
91-57-6	2-Methylnaphthalene	1000	U
77-47-4	Hexachlorocyclopentadiene	1000	U
88-06-2	2,4,6-Trichlorophenol	1000	U
95-95-4	2,4,5-Trichlorophenol	2100	U
91-58-7	2-Chloronaphthalene	1000	U
88-74-4	2-Nitroaniline	2100	U
131-11-3	Dimethyl Phthalate	1000	U
208-96-8	Acenaphthylene	240	J
606-20-2	2,6-Dinitrotoluene	1000	U
99-09-2	3-Nitroaniline	2100	U
83-32-9	Acenaphthene	1000	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP16-0215

Lab Name: CEIMIC CORP Contract: TETRA TECH

Lab Code: CEIMIC Case No.: CTO290 SAS No.: _____ SDG No.: 100799

Matrix: (soil/water) SOIL Lab Sample ID: 990877-12

Sample wt/vol: 30.4 (g/mL) G Lab File ID: JY997

Level: (low/med) LOW Date Received: 10/08/99

% Moisture: - 21 decanted: (Y/N) N Date Extracted: 10/11/99

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/30/99

Injection Volume: 2.0 (uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	2100	U
100-02-7	4-Nitrophenol	2100	U
132-64-9	Dibenzofuran	1000	U
121-14-2	2,4-Dinitrotoluene	1000	U
84-66-2	Diethylphthalate	1000	U
7005-72-3	4-Chlorophenyl-phenylether	1000	U
86-73-7	Fluorene	270	J
100-01-6	4-Nitroaniline	2100	U
534-52-1	4,6-Dinitro-2-Methylphenol	2100	U
86-30-6	N-Nitrosodiphenylamine (1)	1000	U
101-55-3	4-Bromophenyl-phenylether	1000	U
118-74-1	Hexachlorobenzene	1000	U
87-86-5	Pentachlorophenol	2100	U
85-01-8	Phenanthrene	4300	
120-12-7	Anthracene	650	J
86-74-8	Carbazole	250	J
84-74-2	Di-n-Butylphthalate	220	BJ
206-44-0	Fluoranthene	6600	
129-00-0	Pyrene	6000	
85-68-7	Butylbenzylphthalate	1000	U
91-94-1	3,3'-Dichlorobenzidine	1000	U
56-55-3	Benzo(a)Anthracene	3500	
218-01-9	Chrysene	3600	
117-81-7	bis(2-Ethylhexyl)Phthalate	1000	U
117-84-0	Di-n-Octyl Phthalate	1000	U
205-99-2	Benzo(b)Fluoranthene	2400	
207-08-9	Benzo(k)Fluoranthene	3500	
50-32-8	Benzo(a)Pyrene	3100	
193-39-5	Indeno(1,2,3-cd)Pyrene	2100	
53-70-3	Dibenzo(a,h)Anthracene	1000	U
191-24-2	Benzo(g,h,i)Perylene	1800	

(1) - Cannot be separated from Diphenylamine

136

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-18-01

Lab Name: CEIMIC CORP Contract: TETRA TECH

Lab Code: CEIMIC Case No.: CTO290 SAS No.: _____ SDG No.: 100799

Matrix: (soil/water) SOIL Lab Sample ID: 990877-14

Sample wt/vol: 30.1 (g/mL) G Lab File ID: _____

% Moisture: 19 decanted: (Y/N) N Date Received: 10/09/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 10/12/99

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/20/99

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.1	U
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	2.1	U
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	4.1	U
72-55-9	4,4'-DDE	4.1	U
72-20-8	Endrin	4.1	U
33213-65-9	Endosulfan II	4.1	U
72-54-8	4,4'-DDD	4.1	U
1031-07-8	Endosulfan sulfate	4.1	U
50-29-3	4,4'-DDT	4.1	U
72-43-5	Methoxychlor	21	U
53494-70-5	Endrin ketone	4.1	U
7421-93-4	Endrin aldehyde	4.1	U
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	2.1	U
8001-35-2	Toxaphene	210	U

FORM I PEST

OLM03.0

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-18-02

Lab Name: CEIMIC CORP Contract: TETRA TECH

Lab Code: CEIMIC Case No.: CTO290 SAS No.: _____ SDG No.: 100799

Matrix: (soil/water) SOIL Lab Sample ID: 990877-15

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 20 decanted: (Y/N) N Date Received: 10/09/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 10/12/99

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/20/99

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.1	U
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	2.1	U
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	4.1	U
72-55-9	4,4'-DDE	4.1	U
72-20-8	Endrin	4.1	U
33213-65-9	Endosulfan II	4.1	U
72-54-8	4,4'-DDD	4.1	U
1031-07-8	Endosulfan sulfate	4.1	U
50-29-3	4,4'-DDT	4.1	U
72-43-5	Methoxychlor	21	U
53494-70-5	Endrin ketone	4.1	U
7421-93-4	Endrin aldehyde	4.1	U
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	2.1	U
8001-35-2	Toxaphene	210	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-18-03

Lab Name: CEIMIC CORP Contract: TETRA TECH

Lab Code: CEIMIC Case No.: CTO290 SAS No.: _____ SDG No.: 100799

Matrix: (soil/water) SOIL Lab Sample ID: 990877-16

Sample wt./vol: 30.1 (g/mL) G Lab File ID: _____

% Moisture: 19 decanted: (Y/N) N Date Received: 10/09/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 10/12/99

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/20/99

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.1	U
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	2.1	U
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	4.1	U
72-55-9	4,4'-DDE	4.1	U
72-20-8	Endrin	4.1	U
33213-65-9	Endosulfan II	4.1	U
72-54-8	4,4'-DDD	4.1	U
1031-07-8	Endosulfan sulfate	4.1	U
50-29-3	4,4'-DDT	4.1	U
72-43-5	Methoxychlor	21	U
53494-70-5	Endrin ketone	4.1	U
7421-93-4	Endrin aldehyde	4.1	U
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	2.1	U
8001-35-2	Toxaphene	210	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-18-04

Lab Name: CEIMIC CORP Contract: TETRA TECH

Lab Code: CEIMIC Case No.: CTO290 SAS No.: _____ SDG No.: 100799

Matrix: (soil/water) SOIL Lab Sample ID: 990877-17

Sample wt/vol: 30.1 (g/mL) G Lab File ID: _____

% Moisture: 11 decanted: (Y/N) N Date Received: 10/09/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 10/12/99

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/20/99

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	7.7	
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	1.9	U
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	3.7	U
72-55-9	4,4'-DDE	3.7	U
72-20-8	Endrin	3.7	U
33213-65-9	Endosulfan II	3.7	U
72-54-8	4,4'-DDD	3.7	U
1031-07-8	Endosulfan sulfate	3.7	U
50-29-3	4,4'-DDT	3.7	U
72-43-5	Methoxychlor	19	U
53494-70-5	Endrin ketone	3.7	U
7421-93-4	Endrin aldehyde	3.7	U
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	1.9	U
8001-35-2	Toxaphene	190	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-18-05

Lab Name: CEIMIC CORP Contract: TETRA TECH

Lab Code: CEIMIC Case No.: CTO290 SAS No.: _____ SDG No.: 100799

Matrix: (soil/water) SOIL Lab Sample ID: 990877-18

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 18 decanted: (Y/N) N Date Received: 10/09/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 10/12/99

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/20/99

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.1	U
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	2.1	U
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	4.0	U
72-55-9	4,4'-DDE	4.0	U
72-20-8	Endrin	4.0	U
33213-65-9	Endosulfan II	4.0	U
72-54-8	4,4'-DDD	4.0	U
1031-07-8	Endosulfan sulfate	4.0	U
50-29-3	4,4'-DDT	4.0	U
72-43-5	Methoxychlor	21	U
53494-70-5	Endrin ketone	4.0	U
7421-93-4	Endrin aldehyde	4.0	U
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	2.1	U
8001-35-2	Toxaphene	210	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-18-06

Lab Name: CEIMIC CORP Contract: TETRA TECH

Lab Code: CEIMIC Case No.: CTO290 SAS No.: _____ SDG No.: 100799

Matrix: (soil/water) SOIL Lab Sample ID: 990877-19

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 17 decanted: (Y/N) N Date Received: 10/09/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 10/12/99

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/20/99

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	4.0	U
72-55-9	4,4'-DDE	4.0	U
72-20-8	Endrin	4.0	U
33213-65-9	Endosulfan II	4.0	U
72-54-8	4,4'-DDD	4.0	U
1031-07-8	Endosulfan sulfate	4.0	U
50-29-3	4,4'-DDT	4.0	U
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	4.0	U
7421-93-4	Endrin aldehyde	4.0	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-19-03

Lab Name: CEIMIC CORP Contract: TETRA TECH

Lab Code: CEIMIC Case No.: NAWC SAS No.: _____ SDG No.: SB0325

Matrix: (soil/water) SOIL Lab Sample ID: 990884-03

Sample wt/vol: 30.5 (g/mL) G Lab File ID: _____

% Moisture: 17 decanted: (Y/N) N Date Received: 10/09/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 10/11/99

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/19/99

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	3.9	U
72-55-9	4,4'-DDE	3.9	U
72-20-8	Endrin	3.9	U
33213-65-9	Endosulfan II	3.9	U
72-54-8	4,4'-DDD	3.9	U
1031-07-8	Endosulfan sulfate	3.9	U
50-29-3	4,4'-DDT	3.9	U
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	3.9	U
7421-93-4	Endrin aldehyde	3.9	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP10-0207

Lab Name: CEIMIC CORP Contract: TETRA TECH

Lab Code: CEIMIC Case No.: CTO290 SAS No.: _____ SDG No.: 100799

Matrix: (soil/water) SOIL Lab Sample ID: 990877-03

Sample wt/vol: 30.4 (g/mL) G Lab File ID: _____

% Moisture: 4 decanted: (Y/N) N Date Received: 10/08/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 10/11/99

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/20/99

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.4	U
72-55-9	4,4'-DDE	3.4	U
72-20-8	Endrin	3.4	U
33213-65-9	Endosulfan II	3.4	U
72-54-8	4,4'-DDD	3.4	U
1031-07-8	Endosulfan sulfate	3.4	U
50-29-3	4,4'-DDT	12	P
72-43-5	Methoxychlor	38	P
53494-70-5	Endrin ketone	3.4	U
7421-93-4	Endrin aldehyde	3.4	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	4.6	P
8001-35-2	Toxaphene	170	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP11-0209

Lab Name: CEIMIC CORP Contract: TETRA TECH

Lab Code: CEIMIC Case No.: CTO290 SAS No.: _____ SDG No.: 100799

Matrix: (soil/water) SOIL Lab Sample ID: 990877-05

Sample wt/vol: 30.1 (g/mL) G Lab File ID: _____

% Moisture: 20 decanted: (Y/N) N Date Received: 10/08/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 10/11/99

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/20/99

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.1	U
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	2.1	U
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.3	P
60-57-1	Dieldrin	4.1	U
72-55-9	4,4'-DDE	4.1	U
72-20-8	Endrin	4.1	U
33213-65-9	Endosulfan II	4.1	U
72-54-8	4,4'-DDD	4.1	U
1031-07-8	Endosulfan sulfate	9.3	P
50-29-3	4,4'-DDT	11	P
72-43-5	Methoxychlor	21	U
53494-70-5	Endrin ketone	4.1	U
7421-93-4	Endrin aldehyde	4.1	U
5103-71-9	alpha-Chlordane	2.9	P
5103-74-2	gamma-Chlordane	20	P
8001-35-2	Toxaphene	210	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP14-0212

Lab Name: CEIMIC CORP Contract: TETRA TECH

Lab Code: CEIMIC Case No.: CTO290 SAS No.: _____ SDG No.: 100799

Matrix: (soil/water) SOIL Lab Sample ID: 990877-08

Sample wt/vol: 30.2 (g/mL) G Lab File ID: _____

% Moisture: 21 decanted: (Y/N) N Date Received: 10/08/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 10/11/99

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/20/99

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.1	U
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	2.1	U
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	4.1	U
72-55-9	4,4'-DDE	4.1	U
72-20-8	Endrin	4.1	U
33213-65-9	Endosulfan II	14	P
72-54-8	4,4'-DDD	4.1	U
1031-07-8	Endosulfan sulfate	4.5	P
50-29-3	4,4'-DDT	5.5	
72-43-5	Methoxychlor	21	U
53494-70-5	Endrin ketone	4.1	U
7421-93-4	Endrin aldehyde	4.1	U
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	6.1	P
8001-35-2	Toxaphene	210	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP14-0213

Lab Name: CEIMIC CORP Contract: TETRA TECH

Lab Code: CEIMIC Case No.: CTO290 SAS No.: _____ SDG No.: 100799

Matrix: (soil/water) SOIL Lab Sample ID: 990877-09

Sample wt/vol: 30.5 (g/mL) G Lab File ID: _____

% Moisture: 14 decanted: (Y/N) N Date Received: 10/08/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 10/11/99

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/20/99

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	1.9	U
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	3.8	U
72-55-9	4,4'-DDE	3.8	U
72-20-8	Endrin	3.8	U
33213-65-9	Endosulfan II	3.8	U
72-54-8	4,4'-DDD	3.8	U
1031-07-8	Endosulfan sulfate	3.8	U
50-29-3	4,4'-DDT	3.8	U
72-43-5	Methoxychlor	19	U
53494-70-5	Endrin ketone	3.8	U
7421-93-4	Endrin aldehyde	3.8	U
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	1.9	U
8001-35-2	Toxaphene	190	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP16-0215

Lab Name: CEIMIC CORP Contract: TETRA TECH

Lab Code: CEIMIC Case No.: CTO290 SAS No.: _____ SDG No.: 100799

Matrix: (soil/water) SOIL Lab Sample ID: 990877-12

Sample wt/vol: 30.5 (g/mL) G Lab File ID: _____

% Moisture: 21 decanted: (Y/N) N Date Received: 10/08/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 10/11/99

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/20/99

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.1	U
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	2.1	U
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	4.1	U
72-55-9	4,4'-DDE	4.1	U
72-20-8	Endrin	4.1	U
33213-65-9	Endosulfan II	4.1	U
72-54-8	4,4'-DDD	4.1	U
1031-07-8	Endosulfan sulfate	6.6	P
50-29-3	4,4'-DDT	7.6	P
72-43-5	Methoxychlor	21	U
53494-70-5	Endrin ketone	4.1	U
7421-93-4	Endrin aldehyde	4.1	U
5103-71-9	alpha-Chlordane	3.4	P
5103-74-2	gamma-Chlordane	13	P
8001-35-2	Toxaphene	210	U

CEIMIC

TOTAL METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SB-18-01

Contract: NAWC Warminster, PA

Lab Code: CEIMIC Case No.: 990877 SAS No.: SDG NO.: 100799

Matrix (soil/water): SOIL Lab Sample ID: 990877-14

Level (low/med): LOW Date Received: 10/09/99

% Solids: 83.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	13100			P
7440-36-0	Antimony	0.81	B	N	P
7440-38-2	Arsenic	0.39	U	N	P
7440-39-3	Barium	115			P
7440-41-7	Beryllium	2.1			P
7440-43-9	Cadmium	1.2	U	N	P
7440-70-2	Calcium	1810			P
7440-47-3	Chromium	20.5			P
7440-48-4	Cobalt	16.4			P
7440-50-8	Copper	4.2			P
7439-89-6	Iron	37800			P
7439-92-1	Lead	10.9			P
7439-95-4	Magnesium	4970			P
7439-96-5	Manganese	727			P
7439-97-6	Mercury	0.03	U	N	AV
7440-02-0	Nickel	18.3			P
7440-09-7	Potassium	4430			P
7782-49-2	Selenium	5.7	U	N	P
7440-22-4	Silver	0.40	U		P
7440-23-5	Sodium	130	B		P
7440-28-0	Thallium	0.48	U	N	P
7440-62-2	Vanadium	21.6			P
7440-66-6	Zinc	55.7			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

TOTAL METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SB-18-02

Contract: NAWC Warminster, PA

Lab Code: CEIMIC Case No.: 990877 SAS No.: SDG NO.: 100799

Matrix (soil/water): SOIL Lab Sample ID: 990877-15

Level (low/med): LOW Date Received: 10/09/99

% Solids: 81.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12500			P
7440-36-0	Antimony	0.29	B	N	P
7440-38-2	Arsenic	4.6		N	P
7440-39-3	Barium	31.3			P
7440-41-7	Beryllium	0.51			P
7440-43-9	Cadmium	0.42	U	N	P
7440-70-2	Calcium	561			P
7440-47-3	Chromium	20.2			P
7440-48-4	Cobalt	7.3			P
7440-50-8	Copper	16.1			P
7439-89-6	Iron	20600			P
7439-92-1	Lead	7.6			P
7439-95-4	Magnesium	2260			P
7439-96-5	Manganese	268			P
7439-97-6	Mercury	0.03	U	N	AV
7440-02-0	Nickel	10.2			P
7440-09-7	Potassium	619			P
7782-49-2	Selenium	2.1	U	N	P
7440-22-4	Silver	0.36	U		P
7440-23-5	Sodium	56.0	B		P
7440-28-0	Thallium	0.43	U	N	P
7440-62-2	Vanadium	33.9			P
7440-66-6	Zinc	32.1			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

CEIMIC

TOTAL METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SB-18-03

Contract: NAWC Warminster, PA

Lab Code: CEIMIC Case No.: 990877 SAS No.: SDG NO.: 100799

Matrix (soil/water): SOIL Lab Sample ID: 990877-16

Level (low/med): LOW Date Received: 10/09/99

% Solids: 81.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	17000			P
7440-36-0	Antimony	0.70	B	N	P
7440-38-2	Arsenic	3.9		N	P
7440-39-3	Barium	66.0			P
7440-41-7	Beryllium	0.88			P
7440-43-9	Cadmium	0.41	U	N	P
7440-70-2	Calcium	973			P
7440-47-3	Chromium	24.7			P
7440-48-4	Cobalt	9.4			P
7440-50-8	Copper	11.9			P
7439-89-6	Iron	26600			P
7439-92-1	Lead	13.7			P
7439-95-4	Magnesium	2700			P
7439-96-5	Manganese	430			P
7439-97-6	Mercury	0.03	B	N	AV
7440-02-0	Nickel	12.8			P
7440-09-7	Potassium	1160			P
7782-49-2	Selenium	2.0	U	N	P
7440-22-4	Silver	0.46	B		P
7440-23-5	Sodium	55.7	B		P
7440-28-0	Thallium	0.42	U	N	P
7440-62-2	Vanadium	38.1			P
7440-66-6	Zinc	35.1			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

CEIMIC

TOTAL METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SB-18-04

Contract: NAWC Warminster, PA

Lab Code: CEIMIC Case No.: 990877 SAS No.: SDG NO.: 100799

Matrix (soil/water): SOIL Lab Sample ID: 990877-17

Level (low/med): LOW Date Received: 10/09/99

% Solids: 91.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7490			P
7440-36-0	Antimony	0.28	U	N	P
7440-38-2	Arsenic	1.5		N	P
7440-39-3	Barium	37.8			P
7440-41-7	Beryllium	0.65			P
7440-43-9	Cadmium	0.05	U	N	P
7440-70-2	Calcium	382	B		P
7440-47-3	Chromium	13.4			P
7440-48-4	Cobalt	7.6			P
7440-50-8	Copper	7.5			P
7439-89-6	Iron	13200			P
7439-92-1	Lead	3.7			P
7439-95-4	Magnesium	1730			P
7439-96-5	Manganese	656			P
7439-97-6	Mercury	0.02	U	N	AV
7440-02-0	Nickel	14.0			P
7440-09-7	Potassium	419	B		P
7782-49-2	Selenium	2.2	U	N	P
7440-22-4	Silver	0.40	U		P
7440-23-5	Sodium	84.4	B		P
7440-28-0	Thallium	0.47	U	N	P
7440-62-2	Vanadium	19.7			P
7440-66-6	Zinc	17.4			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

CEIMIC

TOTAL METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.
SB-18-05

Contract: NAWC Warminster, PA

Lab Code: CEIMIC Case No.: 990877 SAS No.: SDG NO.: 100799

Matrix (soil/water): SOIL Lab Sample ID: 990877-18

Level (low/med): LOW Date Received: 10/09/99

% Solids: 82.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	17300			P
7440-36-0	Antimony	0.57	B	N	P
7440-38-2	Arsenic	3.7		N	P
7440-39-3	Barium	97.6			P
7440-41-7	Beryllium	1.3			P
7440-43-9	Cadmium	0.49	U	N	P
7440-70-2	Calcium	3300			P
7440-47-3	Chromium	23.9			P
7440-48-4	Cobalt	10.1			P
7440-50-8	Copper	14.4			P
7439-89-6	Iron	21900			P
7439-92-1	Lead	19.1			P
7439-95-4	Magnesium	3430			P
7439-96-5	Manganese	513			P
7439-97-6	Mercury	0.06		N	AV
7440-02-0	Nickel	14.2			P
7440-09-7	Potassium	875			P
7782-49-2	Selenium	2.4	U	N	P
7440-22-4	Silver	0.44	B		P
7440-23-5	Sodium	64.7	B		P
7440-28-0	Thallium	0.50	U	N	P
7440-62-2	Vanadium	36.3			P
7440-66-6	Zinc	35.1			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

CEIMIC

TOTAL METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SB-18-06

Contract: NAWC Warminster, PA

Lab Code: CEIMIC Case No.: 990877 SAS No.: SDG NO.: 100799

Matrix (soil/water): SOIL Lab Sample ID: 990877-19

Level (low/med): LOW Date Received: 10/09/99

% Solids: 81.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	16200			P
7440-36-0	Antimony	0.50	B	N	P
7440-38-2	Arsenic	5.9		N	P
7440-39-3	Barium	31.9			P
7440-41-7	Beryllium	0.61			P
7440-43-9	Cadmium	0.95	U	N	P
7440-70-2	Calcium	650			P
7440-47-3	Chromium	24.2			P
7440-48-4	Cobalt	9.9			P
7440-50-8	Copper	14.1			P
7439-89-6	Iron	26300			P
7439-92-1	Lead	9.2			P
7439-95-4	Magnesium	2650			P
7439-96-5	Manganese	547			P
7439-97-6	Mercury	0.03	U	N	AV
7440-02-0	Nickel	12.0			P
7440-09-7	Potassium	933			P
7782-49-2	Selenium	4.7	U	N	P
7440-22-4	Silver	0.58	B		P
7440-23-5	Sodium	39.3	B		P
7440-28-0	Thallium	0.49	U	N	P
7440-62-2	Vanadium	41.9			P
7440-66-6	Zinc	38.5			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

CEIMIC

TOTAL METALS AND TOTAL LEAD

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SB-19-03

Contract: NAWC Warminster, PA

Lab Code: CEIMIC Case No.: 990884 SAS No.: SDG NO.: SB0325

Matrix (soil/water): SOIL Lab Sample ID: 990884-03

Level (low/med): LOW Date Received: 10/09/99

% Solids: 80.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	16600			P
7440-36-0	Antimony	0.39	B		P
7440-38-2	Arsenic	4.2			P
7440-39-3	Barium	53.1			P
7440-41-7	Beryllium	0.78			P
7440-43-9	Cadmium	0.04	U		P
7440-70-2	Calcium	775			P
7440-47-3	Chromium	26.0			P
7440-48-4	Cobalt	10.9			P
7440-50-8	Copper	12.3			P
7439-89-6	Iron	26800			P
7439-92-1	Lead	12.9			P
7439-95-4	Magnesium	2700			P
7439-96-5	Manganese	330			P
7439-97-6	Mercury	0.03	B		AV
7440-02-0	Nickel	14.5			P
7440-09-7	Potassium	970			P
7782-49-2	Selenium	1.9	U		P
7440-22-4	Silver	1.3			P
7440-23-5	Sodium	56.7	B		P
7440-28-0	Thallium	0.41	U		P
7440-62-2	Vanadium	41.8			P
7440-66-6	Zinc	36.2			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

CEIMIC

TOTAL METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

TP09-0206

Contract: NAWC Warminster, PA

Lab Code: CEIMIC Case No.: 990877 SAS No.: SDG NO.: 100799

Matrix (soil/water): SOIL Lab Sample ID: 990877-02

Level (low/med): LOW Date Received: 10/08/99

% Solids: 85.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12200			P
7440-36-0	Antimony	0.69	B	N	P
7440-38-2	Arsenic	0.36	U	N	P
7440-39-3	Barium	71.3			P
7440-41-7	Beryllium	2.0			P
7440-43-9	Cadmium	1.1	U	N	P
7440-70-2	Calcium	1310			P
7440-47-3	Chromium	20.0			P
7440-48-4	Cobalt	16.8			P
7440-50-8	Copper	17.5			P
7439-89-6	Iron	29600			P
7439-92-1	Lead	15.2			P
7439-95-4	Magnesium	4900			P
7439-96-5	Manganese	278			P
7439-97-6	Mercury	0.03	U	N	AV
7440-02-0	Nickel	17.7			P
7440-09-7	Potassium	3250			P
7782-49-2	Selenium	5.2	U	N	P
7440-22-4	Silver	0.37	U		P
7440-23-5	Sodium	67.4	B		P
7440-28-0	Thallium	0.44	U	N	P
7440-62-2	Vanadium	21.5			P
7440-66-6	Zinc	29.4			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

CEIMIC

TOTAL METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

TP10-0207

Contract: NAWC Warminster, PA

Lab Code: CEIMIC Case No.: 990877 SAS No.: SDG NO.: 100799

Matrix (soil/water): SOIL Lab Sample ID: 990877-03

Level (low/med): LOW Date Received: 10/08/99

% Solids: 76.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	133000			P
7440-36-0	Antimony	8.5		N	P
7440-38-2	Arsenic	7.0		N	P
7440-39-3	Barium	223			P
7440-41-7	Beryllium	0.92			P
7440-43-9	Cadmium	10.3		N	P
7440-70-2	Calcium	6290			P
7440-47-3	Chromium	51.3			P
7440-48-4	Cobalt	7.1			P
7440-50-8	Copper	5450			P
7439-89-6	Iron	13100			P
7439-92-1	Lead	241			P
7439-95-4	Magnesium	2490			P
7439-96-5	Manganese	996			P
7439-97-6	Mercury	0.37		N	AV
7440-02-0	Nickel	26.4			P
7440-09-7	Potassium	439	B		P
7782-49-2	Selenium	7.3		N	P
7440-22-4	Silver	13.3			P
7440-23-5	Sodium	67.0	B		P
7440-28-0	Thallium	0.69	B	N	P
7440-62-2	Vanadium	32.2			P
7440-66-6	Zinc	674			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

CEIMIC

TOTAL METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

TP10-0208

Contract: NAWC Warminster, PA

Lab Code: CEIMIC Case No.: 990877 SAS No.: SDG NO.: 100799

Matrix (soil/water): SOIL Lab Sample ID: 990877-04

Level (low/med): LOW Date Received: 10/08/99

% Solids: 84.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	18200			P
7440-36-0	Antimony	0.51	B	N	P
7440-38-2	Arsenic	3.4		N	P
7440-39-3	Barium	32.4			P
7440-41-7	Beryllium	0.71			P
7440-43-9	Cadmium	0.46	U	N	P
7440-70-2	Calcium	773			P
7440-47-3	Chromium	21.5			P
7440-48-4	Cobalt	12.2			P
7440-50-8	Copper	15.1			P
7439-89-6	Iron	24100			P
7439-92-1	Lead	8.1			P
7439-95-4	Magnesium	2680			P
7439-96-5	Manganese	409			P
7439-97-6	Mercury	0.03	U	N	AV
7440-02-0	Nickel	12.5			P
7440-09-7	Potassium	975			P
7782-49-2	Selenium	2.3	U	N	P
7440-22-4	Silver	0.40	U		P
7440-23-5	Sodium	44.5	B		P
7440-28-0	Thallium	0.47	U	N	P
7440-62-2	Vanadium	38.7			P
7440-66-6	Zinc	29.6			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

CEIMIC

TOTAL METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

TP11-0209

Contract: NAWC Warminster, PA

Lab Code: CEIMIC Case No.: 990877 SAS No.: SDG NO.: 100799

Matrix (soil/water): SOIL Lab Sample ID: 990877-05

Level (low/med): LOW Date Received: 10/08/99

% Solids: 78.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	19600			P
7440-36-0	Antimony	8.0		N	P
7440-38-2	Arsenic	3.6		N	P
7440-39-3	Barium	221			P
7440-41-7	Beryllium	0.84			P
7440-43-9	Cadmium	8.4		N	P
7440-70-2	Calcium	7460			P
7440-47-3	Chromium	62.4			P
7440-48-4	Cobalt	9.9			P
7440-50-8	Copper	7050			P
7439-89-6	Iron	81200			P
7439-92-1	Lead	699			P
7439-95-4	Magnesium	5250			P
7439-96-5	Manganese	782			P
7439-97-6	Mercury	0.47		N	AV
7440-02-0	Nickel	49.9			P
7440-09-7	Potassium	749			P
7782-49-2	Selenium	6.2	U	N	P
7440-22-4	Silver	14.4			P
7440-23-5	Sodium	66.5	B		P
7440-28-0	Thallium	12.9	U	N	P
7440-62-2	Vanadium	33.5			P
7440-66-6	Zinc	679			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

CEIMIC

TOTAL METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

TP11-0210

Contract: NAWC Warminster, PA

Lab Code: CEIMIC Case No.: 990877 SAS No.: SDG NO.: 100799

Matrix (soil/water): SOIL Lab Sample ID: 990877-06

Level (low/med): LOW Date Received: 10/08/99

% Solids: 85.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	15300			P
7440-36-0	Antimony	0.50	B	N	P
7440-38-2	Arsenic	3.9		N	P
7440-39-3	Barium	90.5			P
7440-41-7	Beryllium	0.65			P
7440-43-9	Cadmium	0.41	U	N	P
7440-70-2	Calcium	892			P
7440-47-3	Chromium	23.2			P
7440-48-4	Cobalt	6.3			P
7440-50-8	Copper	12.1			P
7439-89-6	Iron	21700			P
7439-92-1	Lead	8.6			P
7439-95-4	Magnesium	1920			P
7439-96-5	Manganese	217			P
7439-97-6	Mercury	0.03	U	N	AV
7440-02-0	Nickel	9.4			P
7440-09-7	Potassium	576			P
7782-49-2	Selenium	2.0	U	N	P
7440-22-4	Silver	0.35	U		P
7440-23-5	Sodium	53.2	B		P
7440-28-0	Thallium	0.42	U	N	P
7440-62-2	Vanadium	36.8			P
7440-66-6	Zinc	26.1			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

CEIMIC

TOTAL METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

TP12-0211

Contract: NAWC Warminster, PA

Lab Code: CEIMIC Case No.: 990877 SAS No.: SDG NO.: 100799

Matrix (soil/water): SOIL Lab Sample ID: 990877-07

Level (low/med): LOW Date Received: 10/08/99

% Solids: 81.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	17100			P
7440-36-0	Antimony	0.38	B	N	P
7440-38-2	Arsenic	4.6		N	P
7440-39-3	Barium	113			P
7440-41-7	Beryllium	0.89			P
7440-43-9	Cadmium	0.38	U	N	P
7440-70-2	Calcium	1650			P
7440-47-3	Chromium	22.8			P
7440-48-4	Cobalt	5.5			P
7440-50-8	Copper	11.3			P
7439-89-6	Iron	18500			P
7439-92-1	Lead	11.3			P
7439-95-4	Magnesium	2240			P
7439-96-5	Manganese	260			P
7439-97-6	Mercury	0.04		N	AV
7440-02-0	Nickel	10.5			P
7440-09-7	Potassium	635			P
7782-49-2	Selenium	1.8	U	N	P
7440-22-4	Silver	0.32	U		P
7440-23-5	Sodium	43.1	B		P
7440-28-0	Thallium	0.38	U	N	P
7440-62-2	Vanadium	34.8			P
7440-66-6	Zinc	31.7			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

CEIMIC

TOTAL METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

TP14-0212

Contract: NAWC Warminster, PA

Lab Code: CEIMIC Case No.: 990877 SAS No.: SDG NO.: 100799

Matrix (soil/water): SOIL Lab Sample ID: 990877-08

Level (low/med): LOW Date Received: 10/08/99

% Solids: 80.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	17700			P
7440-36-0	Antimony	7.3		N	P
7440-38-2	Arsenic	5.6		N	P
7440-39-3	Barium	263			P
7440-41-7	Beryllium	0.87			P
7440-43-9	Cadmium	11.6		N	P
7440-70-2	Calcium	26600			P
7440-47-3	Chromium	86.2			P
7440-48-4	Cobalt	14.0			P
7440-50-8	Copper	831			P
7439-89-6	Iron	24000			P
7439-92-1	Lead	780			P
7439-95-4	Magnesium	15900			P
7439-96-5	Manganese	996			P
7439-97-6	Mercury	0.58		N	AV
7440-02-0	Nickel	487			P
7440-09-7	Potassium	799			P
7782-49-2	Selenium	2.2	U	N	P
7440-22-4	Silver	30.5			P
7440-23-5	Sodium	111	B		P
7440-28-0	Thallium	0.47	U	N	P
7440-62-2	Vanadium	38.7			P
7440-66-6	Zinc	1120			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

CEIMIC

TOTAL METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

TP14-0213

Contract: NAWC Warminster, PA

Lab Code: CEIMIC Case No.: 990877 SAS No.: SDG NO.: 100799

Matrix (soil/water): SOIL Lab Sample ID: 990877-09

Level (low/med): LOW Date Received: 10/08/99

% Solids: 85.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	17700			P
7440-36-0	Antimony	0.41	B	N	P
7440-38-2	Arsenic	3.7		N	P
7440-39-3	Barium	87.1			P
7440-41-7	Beryllium	1.0			P
7440-43-9	Cadmium	0.05	U	N	P
7440-70-2	Calcium	935			P
7440-47-3	Chromium	21.6			P
7440-48-4	Cobalt	9.3			P
7440-50-8	Copper	7.8			P
7439-89-6	Iron	18000			P
7439-92-1	Lead	9.6			P
7439-95-4	Magnesium	2150			P
7439-96-5	Manganese	505			P
7439-97-6	Mercury	0.03	U	N	AV
7440-02-0	Nickel	11.9			P
7440-09-7	Potassium	615			P
7782-49-2	Selenium	2.4	U	N	P
7440-22-4	Silver	0.42	U		P
7440-23-5	Sodium	50.8	B		P
7440-28-0	Thallium	0.50	U	N	P
7440-62-2	Vanadium	33.6			P
7440-66-6	Zinc	32.8			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

TOTAL METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.
TP14-0214

Contract: NAWC Warminster, PA

Lab Code: CEIMIC Case No.: 990877 SAS No.: SDG NO.: 100799

Matrix (soil/water): SOIL Lab Sample ID: 990877-10

Level (low/med): LOW Date Received: 10/08/99

% Solids: 81.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	17600			P
7440-36-0	Antimony	0.50	B	N	P
7440-38-2	Arsenic	4.0		N	P
7440-39-3	Barium	33.9			P
7440-41-7	Beryllium	0.67			P
7440-43-9	Cadmium	0.88	U	N	P
7440-70-2	Calcium	366	B		P
7440-47-3	Chromium	24.0			P
7440-48-4	Cobalt	9.5			P
7440-50-8	Copper	13.1			P
7439-89-6	Iron	25000			P
7439-92-1	Lead	7.9			P
7439-95-4	Magnesium	2850			P
7439-96-5	Manganese	279			P
7439-97-6	Mercury	0.03	U	N	AV
7440-02-0	Nickel	12.3			P
7440-09-7	Potassium	1080			P
7782-49-2	Selenium	4.3	U	N	P
7440-22-4	Silver	0.41	B		P
7440-23-5	Sodium	31.0	B		P
7440-28-0	Thallium	0.45	U	N	P
7440-62-2	Vanadium	44.0			P
7440-66-6	Zinc	30.9			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

CEIMIC

TOTAL METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

TP16-0215

Contract: NAWC Warminster, PA

Lab Code: CEIMIC Case No.: 990877 SAS No.: SDG NO.: 100799

Matrix (soil/water): SOIL Lab Sample ID: 990877-12

Level (low/med): LOW Date Received: 10/08/99

% Solids: 81.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	14900			P
7440-36-0	Antimony	12.9		N	P
7440-38-2	Arsenic	4.9		N	P
7440-39-3	Barium	386			P
7440-41-7	Beryllium	0.88			P
7440-43-9	Cadmium	17.1		N	P
7440-70-2	Calcium	5470			P
7440-47-3	Chromium	81.7			P
7440-48-4	Cobalt	12.7			P
7440-50-8	Copper	839			P
7439-89-6	Iron	49500			P
7439-92-1	Lead	924			P
7439-95-4	Magnesium	3920			P
7439-96-5	Manganese	824			P
7439-97-6	Mercury	0.50		N	AV
7440-02-0	Nickel	63.1			P
7440-09-7	Potassium	1030			P
7782-49-2	Selenium	6.4	U	N	P
7440-22-4	Silver	33.9			P
7440-23-5	Sodium	110	B		P
7440-28-0	Thallium	0.53	U	N	P
7440-62-2	Vanadium	39.4			P
7440-66-6	Zinc	1430			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

CEIMIC

TOTAL METALS AND TOTAL LEAD

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SB-03-25

Contract: NAWC Warminster, PA

Lab Code: CEIMIC Case No.: 990884 SAS No.: SDG NO.: SB0325

Matrix (soil/water): SOIL Lab Sample ID: 990884-01

Level (low/med): LOW Date Received: 10/09/99

% Solids: 86.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	5.0			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

CEIMIC

TOTAL METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SB-03-24

Contract: NAWC Warminster, PA

Lab Code: CEIMIC Case No.: 990877 SAS No.: SDG NO.: 100799

Matrix (soil/water): SOIL Lab Sample ID: 990877-20

Level (low/med): LOW Date Received: 10/09/99

% Solids: 85.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	6.3		*	P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

TARGET COMPOUND LIST (TCL)
POLYNUCLEAR AROMATIC HYDROCARBON
SW846 METHOD 8310

Client: Tetra Tech NUS

Client Sample ID: SB-03-24

Date Sampled: 10/08/99

Date Sample Received: 10/09/99

Matrix: Soil

Percent Solids: 84

Laboratory ID: 990877-20

Date Sample Extracted: 10/11/99

Date Sample Analyzed: 10/16/99

Associated Method Blank: PA1011-B1

Final Extract Volume (mL): 1.0

Dilution Factor: 1

Concentration in: μg/Kg (ppb)+

Target Analyte	Sample Concentration	Quantitation Limit
Naphthalene	ND	20
Acenaphthylene	ND	39
Acenaphthene	ND	20
Fluorene	ND	3.9
Phenanthrene	13	2.0
Anthracene	3.6	2.0
Fluoranthene	25	3.9
Pyrene	17	2.0
Benzo(a)anthracene	10	2.0
Chrysene	9.4	2.0
Benzo(b)fluoranthene	12	3.9
Benzo(k)fluoranthene	3.0	2.0
Benzo(a)pyrene	11	2.0
Dibenzo(a,h)anthracene	ND	3.9
Benzo(g,h,i)perylene	ND	3.9
Indeno(1,2,3-cd)pyrene	10	2.0

ND = Not detected
+ Dry weight basis.

Surrogate Spike Recovery

Surrogate Compound	Recovery(%)	QC Limits(%)*
Carbazole	62	22 - 167

* for advisory purposes only

1531

Reported by: TS

Approved by: RL

TARGET COMPOUND LIST (TCL)
POLYNUCLEAR AROMATIC HYDROCARBON
SW846 METHOD 8310

Client: Tetra Tech NUS

Client Sample ID: SB-03-25

Date Sampled: 10/08/99

Date Sample Received: 10/09/99

Matrix: Soil

Percent Solids: 84

Laboratory ID: 990884-01

Date Sample Extracted: 10/11/99

Date Sample Analyzed: 10/16/99

Associated Method Blank: PA1011-B1

Final Extract Volume (mL):1.0

Dilution Factor: 1

Concentration in: μg/Kg (ppb)+

Target Analyte	Sample Concentration	Quantitation Limit
Naphthalene	ND	20
Acenaphthylene	ND	40
Acenaphthene	ND	20
Fluorene	ND	4.0
Phenanthrene	1.80J	2.0
Anthracene	ND	2.0
Fluoranthene	1.90J	4.0
Pyrene	3.3	2.0
Benzo(a)anthracene	1.20J	2.0
Chrysene	1.10J	2.0
Benzo(b)fluoranthene	1.70J	4.0
Benzo(k)fluoranthene	ND	2.0
Benzo(a)pyrene	3.0	2.0
Dibenzo(a,h)anthracene	ND	4.0
Benzo(g,h,i)perylene	ND	4.0
Indeno(1,2,3-cd)pyrene	3.2	2.0

ND = Not detected
+ Dry weight basis.

Surrogate Spike Recovery

Surrogate Compound	Recovery(%)	QC Limits(%)*
Carbazole	53	22 - 167

* for advisory purposes only

767

Reported by: TS

Approved by: KL

TARGET COMPOUND LIST (TCL)
POLYNUCLEAR AROMATIC HYDROCARBON
SW846 METHOD 8310

Client: Tetra Tech NUS

Client Sample ID: TP15-0216

Date Sampled: 10/07/99

Date Sample Received: 10/08/99

Matrix: Soil

Percent Solids: 83

Laboratory ID: 990877-11

Date Sample Extracted: 10/11/99

Date Sample Analyzed: 10/19/99

Associated Method Blank: PA1011-B1

Final Extract Volume (mL):1.0

Dilution Factor: 100

Concentration in: μg/Kg (ppb)+

Target Analyte	Sample Concentration	Quantitation Limit
Naphthalene	ND	2000
Acenaphthylene	ND	4000
Acenaphthene	ND	2000
Fluorene	2200	400
Phenanthrene	14000	200
Anthracene	4000	200
Fluoranthene	27000	400
Pyrene	17000	200
Benzo(a)anthracene	7000	200
Chrysene	6200	200
Benzo(b)fluoranthene	5700	400
Benzo(k)fluoranthene	2700	200
Benzo(a)pyrene	6400	200
Dibenzo(a,h)anthracene	250J	400
Benzo(g,h,i)perylene	4600	400
Indeno(1,2,3-cd)pyrene	3400	200

ND = Not detected
+ Dry weight basis.

Surrogate Spike Recovery

Surrogate Compound	Recovery(%)	QC Limits(%)*
Carbazole	~~2400~~ *	22 - 167

* for advisory purposes only

* = CARBAZOLE in Sample

1515

Reported by: TS

Approved by: KU

ENCLOSURE 2

TEST PIT AND/OR SOIL BORING LOGS

TEST PIT LOG

Tetra Tech NUS, Inc.

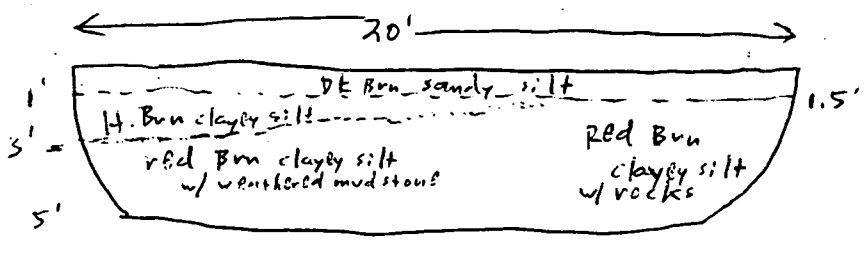
Pag ___ of ___

PROJECT NAME: NAWC Warminster
PROJECT NUMBER: CTO 290
LOCATION: Area A

TEST PIT No.: (TP-A) TP-09
DATE: 10/7/99
GEOLOGIST: D. Whalen

Depth (Ft.)	Lithology Change (Depth/Ft.)	MATERIAL DESCRIPTION: Soil/Waste Characteristics (lithology, density, color, etc.)	USCS	Remarks	PID/FID READING: Source (ppm)	PID/FID READING: BZ (ppm)
		Dark Brn silt topsoil, grass roots		Damp no odors	0	
1		Brn sandy silt			0	0
					0	
2		Lt. Brn. clayey silt			0	0
		2 pieces of metal wire			0	
3					0	0
		Red Brn clayey silt			0	
4		w/ mudstone fragments			0	0
					0	
5					0	0
		red Brn weathered mudstone Bedrock				

TEST PIT CROSS SECTION AND / OR PLAN VIEW



REMARKS: 1050 Collect sample TP09-0206; depth 5'

PHOTO LOG:

TEST PIT LOG

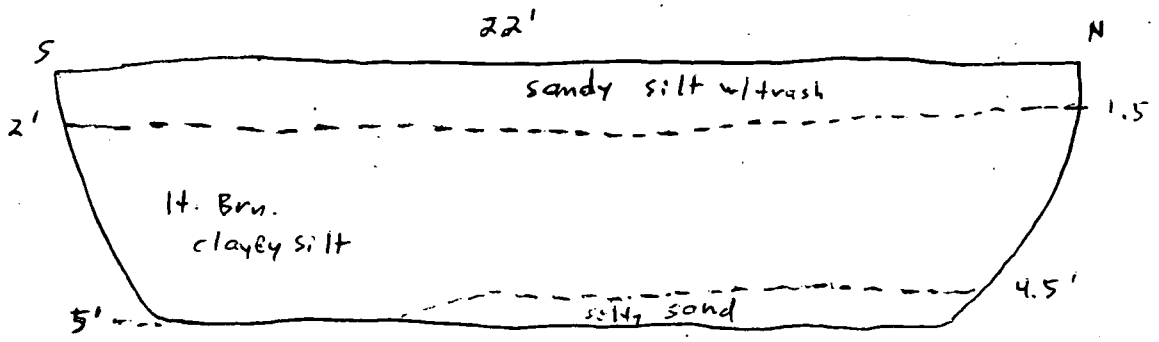
Tetra Tech NUS, Inc.

PROJECT NAME: NAWC Warminster
PROJECT NUMBER: CTO 290
LOCATION: Area A

TEST PIT No.: (TP-B) TP-10
DATE: 10/7/99
GEOLOGIST: D. Whalen

Depth (Ft.)	Lithology Change (Depth/Ft.)	MATERIAL DESCRIPTION: Soil/Waste Characteristics (lithology, density, color, etc.)	USCS	Remarks	PID/FID READING: Source (ppm)	PID/FID READING: BZ (ppm)
		Dk Brn sandy silt topsoil, grass roots		damp	0	
		sandy silt				
1.0		glass fragments, rusted metal fragments			0	0
		ceramic fragments, blue green material				
1.5		wood pieces, wire, stainless steel piece,			0	
		charred wood, plastic, S.S. spoon				
2		lt. Brn. clayey silt			0	0
		piece of glass			0	
3					0	0
					0	
4					0	0
		red-Brn sandy silt/silty sand		moist	0	
5					0	0

TEST PIT CROSS SECTION AND / OR PLAN VIEW



REMARKS: 1115 collect sample TP10-0207 depth: 0-1.5'
1133 collect sample TP10-0208 depth: 5'

PHOTO LOG:

Tetra Tech NUS, Inc.

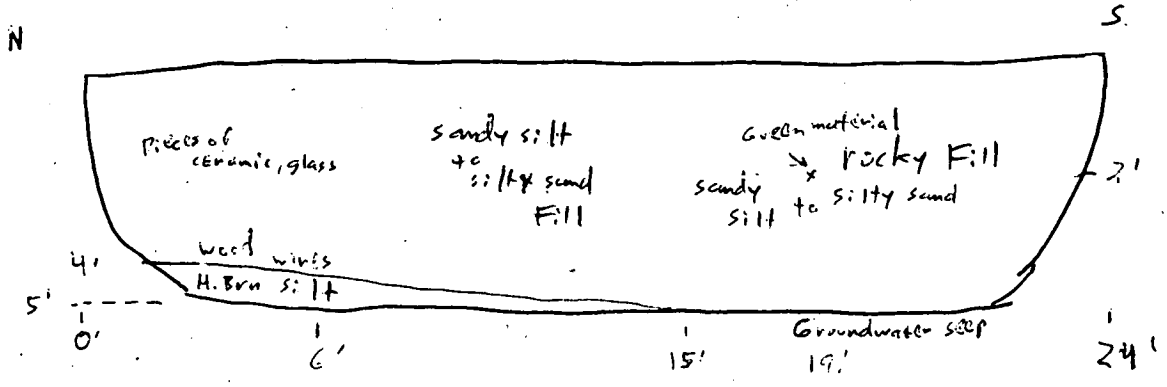
TEST PIT LOG

PROJECT NAME: NAWC Warminster
PROJECT NUMBER: CTO 290
LOCATION: Area A

TEST PIT No.: (TP-C) TP-11
DATE: 10/7/99
GEOLOGIST: D. Whalen

Depth (Ft.)	Lithology Change (Depth/Ft.)	MATERIAL DESCRIPTION: Soil/Waste Characteristics (lithology, density, color, etc.)	USCS	Remarks	PID/FID READING: Source (ppm)	PID/FID READING: BZ (ppm)
		Brn sandy silt		Damp	0	
1		V. rocky cobbles to Boulders, sandstone		rocky fill	0	0
		in red Brn sandy silt		Damp	0	
2					0	0
		2 pockets of Blue green material			0	
3		dk. Brn sandy silt/silty sand Fill			0	0
		rocky			0	
4				moist	0	0
		H. Brown silt; compact (old topsoil)			0	
5.0		w/ plant roots		wet	0	0

TEST PIT CROSS SECTION AND / OR PLAN VIEW



REMARKS: pick up more debris towards N. end of test pit

PHOTO LOG:

Tetra Tech NUS, Inc.

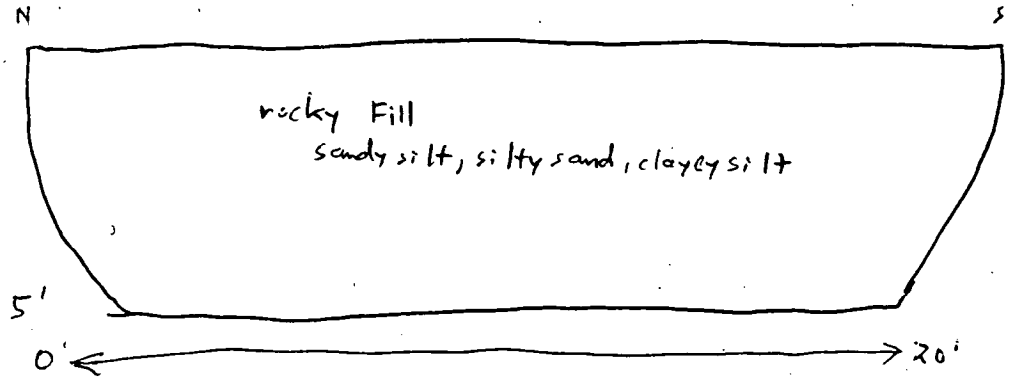
TEST PIT LOG

PROJECT NAME: NAWC Warminster
PROJECT NUMBER: CTO 290
LOCATION: Area A

TEST PIT No.: (TP-D) TP-12
DATE: 10/7/99
GEOLOGIST: D. Whalen

Depth (Ft.)	Lithology Change (Depth/Ft.)	MATERIAL DESCRIPTION: Soil/Waste Characteristics (lithology, density, color, etc.)	USCS	Remarks	PID/FID READING: Source (ppm)	PID/FID READING: BZ (ppm)
		Dk Brn sandy silt topsoil		Damp		
1		sandy silt to silty			0	0
		sand, very rocky				
2		sandy silt, silty sand, clayey silt			0	0
		Fill				
3					0	0
4					0	0
5					0	0

TEST PIT CROSS SECTION AND / OR PLAN VIEW



REMARKS: No trash observed

PHOTO LOG:

Tetra Tech NUS, Inc.

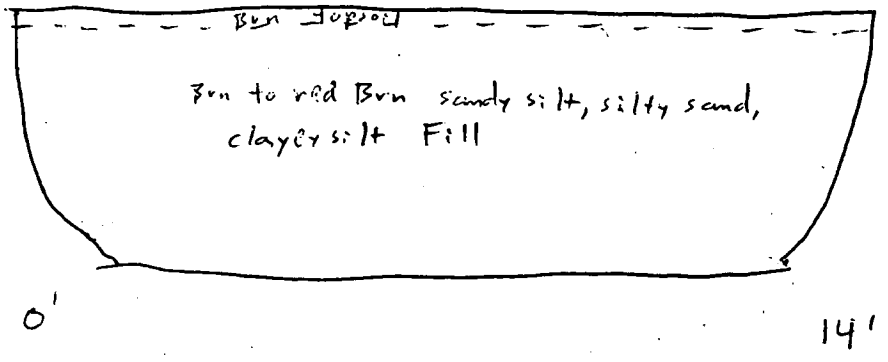
TEST PIT LOG

PROJECT NAME: NAWC Warminster
PROJECT NUMBER: CTO 290
LOCATION: Area A

TEST PIT No.: (TP-E) TP-13
DATE: 10/7/99
GEOLOGIST: D. Whalen

Depth (Ft.)	Lithology Change (Depth/Ft.)	MATERIAL DESCRIPTION: Soil/Waste Characteristics (lithology, density, color, etc.)	USCS	Remarks	PID/FID READING: Source (ppm)	PID/FID READING: BZ (ppm)
	------	Dk. Brn. sandy silt topsoil		damp	0	0
1		Brn to red/Brn sandy silt/silty				
		sand / clayey silt Fill			0	0
2		occasional piece of ceramic,				
		metal			0	0
3		large chunck of concrete				
					0	0
4						
					0	0
5						

TEST PIT CROSS SECTION AND / OR PLAN VIEW



REMARKS: No sample collected

PHOTO LOG:

Tetra Tech NUS, Inc.

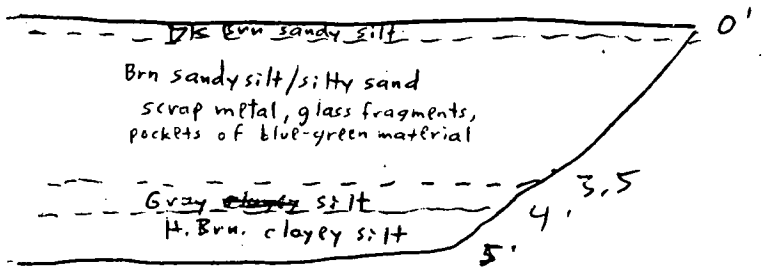
TEST PIT LOG

PROJECT NAME: NAWC Warminster
PROJECT NUMBER: CTO 290
LOCATION: Area A

TEST PIT No.: (TP-F) TP-14
DATE: 10/7/99
GEOLOGIST: D. Whalen

Depth (Ft.)	Lithology Change (Depth/Ft.)	MATERIAL DESCRIPTION: Soil/Waste Characteristics (lithology, density, color, etc.)	USCS	Remarks	PID/FID READIN: Source (ppm)	PID/FID READIN: BZ (ppm)
		Dk. Brn sandy silt topsoil		Damp		
1		Brn sandy silt/silty sand			0	0
		scrap metal, glass fragments				
2		pockets of Blue/green material			0	0
3					0	0
		Gray silt, compacted				
4		↓			0	0
		lt. Brn. clayey silt				
5				↓	0	0

TEST PIT CROSS SECTION AND / OR PLAN VIEW



REMARKS: samples collected:

PHOTO LOG:

Tetra Tech NUS, Inc.

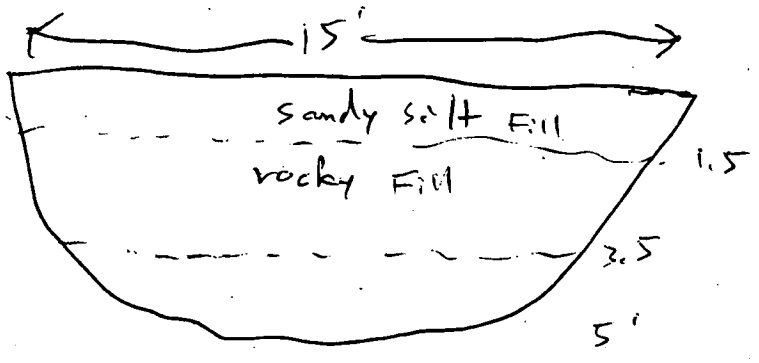
TEST PIT LOG

PROJECT NAME: NAWC Warminster
PROJECT NUMBER: CTO 290
LOCATION: Area A

TEST PIT No.: (TP-G) TP-15
DATE: 10/7/99
GEOLOGIST: D. whalen

Depth (Ft.)	Lithology Change (Depth/Ft.)	MATERIAL DESCRIPTION: Soil/Waste Characteristics (lithology, density, color, etc.)	USCS	Remarks	PID/FID READING: Source (ppm)	PID/FID READING: BZ (ppm)
		DK Brn sandy silt topsoil		damp	0	
1		Brn Sandy silt			0	0
		rocky Fill silty Brn sand			0	
2		large chunks of sandstone			0	0
		in Brn sandy silt/silty sand			0	
3					0	0
					0	
4		red Brn/Brn gray/tan mottled clayey silt, sand ~~clay~~			0	0
					0	
5					0	0

TEST PIT CROSS SECTION AND / OR PLAN VIEW



REMARKS: no trash observed
sample collected from 3.5' TP15-0216

PHOTO LOG:

Tetra Tech NUS, Inc.

BORING LOG

Page ___ of ___

PROJECT NAME: NAWC Warminster
PROJECT NUMBER: CTO 290
DRILLING COMPANY: Raab
DRILLING RIG:

BORING NUMBER: T18-SB-01
DATE: 10/8/99
GEOLOGIST: D. Whalen
DRILLER:

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS*	Remarks	PID/FID Reading (ppm) Sample	Sampler BZ	Borehole**	Driller BZ**
S-1		5/5	14/			BRN to	sandy silt Fill		Damp	0			
@ 1010	2.0	6/6	/24			Red-Brn	some gravel						
S-2		6/6	12/							0			
@ 1012	4.0	5/5	/24										
S-3		6/6	16/						petroleum odor	98	0		0
@ 1016	6.0	5/5	/24			Red Brn	clayey silt w/siltstone fragments						
S-4		6/6	18/			BRN	clayey silt Fill		slight petroleum odor	7.4			
@ 1020	8.0	5/5	/24			Rusty-BRN				7.5			
S-5		6/5	20/			Gray-BRN				0			
@ 1057	10.0	7/7	/24			Light BRN				0	0		0
S-6		5/9	24/							0			
@ 1102	12.0	14/25	/24			Gray BRN	weathered sandstone			0			
		50/		E.O.B.									

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks: 2" x 24" split spoon, 140 lb. hammer, no auger
1025 collect sample SB-18-01 5-7'
1112 collect sample SB-18-02 10.5-11.5'

Drilling Area Background (ppm): 0

Tetra Tech NUS, Inc.

BORING LOG

Page ___ of ___

PROJECT NAME: NAWC Warminster
PROJECT NUMBER: CTO 290
DRILLING COMPANY: Raab
DRILLING RIG:

BORING NUMBER: T18-SB-02
DATE: 10/8/99
GEOLOGIST: D. Whalen
DRILLER:

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
S-1		4/3	17/			BRN to	clayey silt to sandy silt fill		Damp	0			
@ 1125	2.0	3/4	/24			RED BRN	↓			0			
S-2		3/4	16/			Lt. BRN	clayey silt fill			0			
@ 1129	4.0	5/6	/24			RED BRN				0			
S-3		4/5	18/							2	0		0
@ 1135	6.0	6/5	/24							0			
S-4		5/5	24/			↓			oil stain at 7'	95			
@ 1138	8.0	6/8	/24			GRAY BRN			oil odor	270			
S-5		7/8	20/			BRN			occasional oil staining	411			
@ 1145	10.0	7/8	/24			↓	↓			344	0		0
S-6	11.0	10/30	13/13			BRN-GRAY	weathered FGR sandstone and silty sand			183			
@ 1158		50		E.O.B						89			

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks: 2" x 24" split spoons; 140 lb. hammer; no auger
1200 collect sample SB-18-03 MS/MSD 6'-8'; Duplicate SB-19-03
1210 collect sample SB-18-04 10'-11'

Tetra Tech NUS, Inc.

BORING LOG

Page ___ of ___

PROJECT NAME: NAWC Warminster
PROJECT NUMBER: CTO 290
DRILLING COMPANY: Raab
DRILLING RIG:

BORING NUMBER: T18-SB-03
DATE: 10/8/99
GEOLOGIST: D. Whalen
DRILLER:

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS*	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
S-1		8/8	12/			Black BRN	asphalt pavement						
@ 1232	2.0	4/5	/24			to Red-BRN	clayey silt fill		Damp	0	0		0
S-2		4/4	14/										
@ 1235	4.0	5/8	/24							0	0		0
S-3		5/5	12/										
@ 1237	6.0	4/5	/24						Moist slight oil odor	27	0		0
S-4		7/9	18/			Gray-BRN	clayey silt		Damp	0			
@ 1243	8.0	9/9	/24			Lt. BRN			Moist	0	0		0
S-5		13/17	24/							0			
@ 1254	10.0	25/26	/24			BRN-GRAY	sandy silt weathered sandstone		Damp	0	0		0
				E.O.B.									

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks: 2" x 24" split spoons, 140 lb. hammer; no auger
1210 collect sample SB-18-05, 5'-6'
1256 collect sample SB-18-06, 8'-10'

Tetra Tech NUS, Inc.

BORING LOG

Pag ___ of ___

PROJECT NAME: NAWC Warminst r
PROJECT NUMBER: CTO 290
DRILLING COMPANY: Rabb
DRILLING RIG:

BORING No.: S3-SB-01
DATE: 10/8/99
GEOLOGIST: Don Whalen
DRILLER:

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS*	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
S-1 @		18/15	18/				pavement crushed stone						
1348	2.0	8/16	/24			red Brn	clayey silt Fill		Damp	0			
S-2 @		7/5	17/			Brn	↓		↓	0	0		0
1352	4.0	4/7	/24			↓	↓		↓	0			
S-3 @		14/14	24/			Brn and	~~clayey sandy~~ silt and weathered sandstone frags		damp/moist	0	0		0
1358	6.0	20/26	/24			red gray	↓		Damp	0			
X		31/40				—	—			0	0		0
X	8.0	42/44				—	—		unable to retrieve spoon - STUCK IN HOLE				
				E.O.B									

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks: 1358 collect sample SB-03-24 3'-5'

Drilling Area Background (ppm): 0

Converted to Well: Yes _____ No _____ Well I.D. #: _____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAWC Warminster
PROJECT NUMBER: CTO 290
DRILLING COMPANY: Rabb
DRILLING RIG:

BORING No.: S3-SB02
DATE: 10/8/99
GEOLOGIST: Don Whalen
DRILLER:

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS*	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
S-1 @		19/14	18/24			Black gray	pavement crushed stone			0			
1508	2.0	15/18				Dk Brn/Gray	Gravel/silt			0	0		0
S-2 @		10/11	20/24			red Brn	silty clay/clayey silt		damp	0			
1512	4.0	11/11				Gray Brn	clayey silt			0	0		0
S-3 @		9/9	22/24			Brn				0			
1515	6.0	12/14					some weathered sandstone			0	0		0
S-4 @		13/23				Brn and	sandy silt and			0			
1525	8.0	31/31				red gray	weathered sandstone			0	0		0
				EOB									

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks: 1525 collect sample SB-03-25 6'-8'

Drilling Area Background (ppm): 0

Converted to Well: Yes _____ No _____ Well I.D. #: _____

Tetra Tech NUS, Inc.

BORING LOG

Pag ___ of ___

PROJECT NAME: NAWC Warminster
PROJECT NUMBER: CTO 290
DRILLING COMPANY: Rabb
DRILLING RIG:

BORING No.: S3-SB-03
DATE:
GEOLOGIST: Don Whalen
DRILLER:

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS*	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
S-1 @		13/15	8/			Brn and	Fine gravel in sandy			0			
1532	7.0	9/7	/24			yld Brn	to clayey silt			0			
S-2 @		8/9	10/							0			
1541	4.0	7/3	/24							0	0		0
				EOB.					Hit water line at ~5' stop boring				

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks: 2"x24" split spoons, 140 lb. hammer, no auger
No samples collected

Drilling Area Background (ppm): 0

Converted to Well: Yes _____ No _____ Well I.D. #: _____

T tra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ f___

Project Site Name: NAWC Warminster
Project No.: CTO 290

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: TP09-0206
Sample Location:
Sampled By:
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 10/7/99	5'	red Brown to Brown	silty clay
Time: 1050			
Method:			
Monitor Reading (ppm): 0			

COMPOSITE SAMPLE DATA:

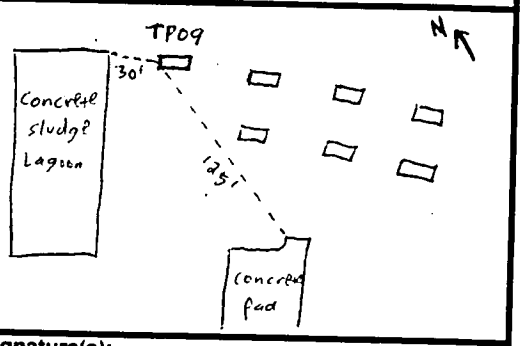
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):			NA	

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TAL metals	8 oz Jar		

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Donald W Kuber

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NAWC Warminster
Project No.: CTO 290

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: TP10-0207
Sample Location:
Sampled By:
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 10/7/99	0'-1.5'	Blue-green and red-brown	crystalline material and silty clay
Time: 1115			
Method:			
Monitor Reading (ppm): 0			

COMPOSITE SAMPLE DATA:

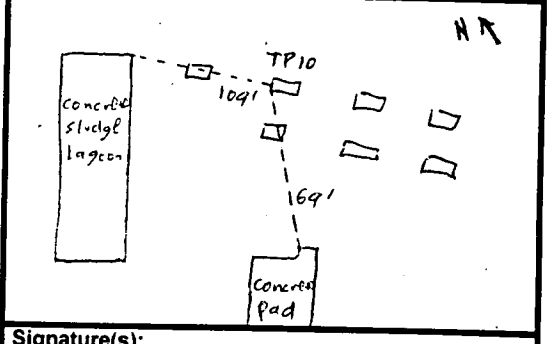
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):			NA	

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOC			
TCL SVOC, Pest/PCB			
TAL metals			

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Donald Whalen

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NAWC Warminster
Project No.: CTO 290

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: TP10-0208
Sample Location:
Sampled By:
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 10/7/99			
Time: 1133			
Method:	5'	Brown	clayey silt
Monitor Reading (ppm): 0			

COMPOSITE SAMPLE DATA:

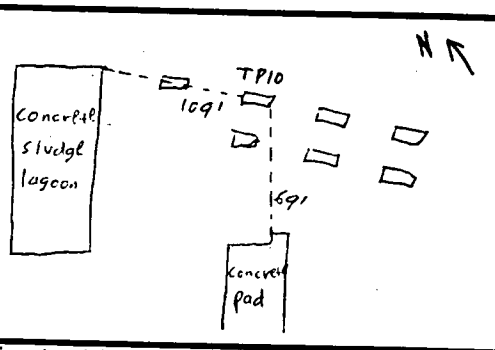
	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date:				
Method:				
Monitor Readings (Range in ppm):			NA	

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TAL metals	8 oz Jar		

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Donald Whalen

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ f___

Project Site Name: NAWC Warminster
Project No.: CTO 290

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: TP11-0209
Sample Location:
Sampled By:
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 10/7/99 Time: 1250 Method: Monitor Reading (ppm):	3'-4'	Dark Brown	sandy silt with pieces of wood, glass, ceramic, small amount of blue-green material

COMPOSITE SAMPLE DATA:

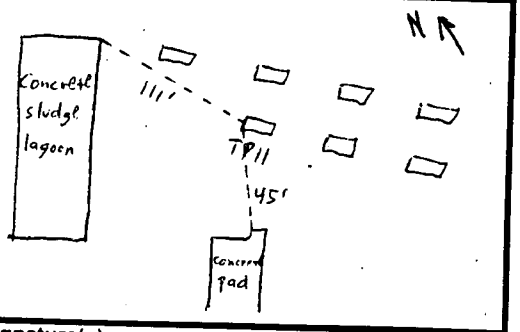
	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date:				
Method:				
Monitor Readings (Range in ppm):			NA	

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TAL Metals			
TCL VOC			
TCL SVOC			
TCL Pest/PCB			

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Donald W Kaler

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ f___

Project Site Name: NAWC Warminster
Project No.: CTO 290

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: TP11-0210
Sample Location:
Sampled By:
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 10/7/99 Time: 1305 Method: Monitor Reading (ppm): 0	5'	light Brown	silt

COMPOSITE SAMPLE DATA:

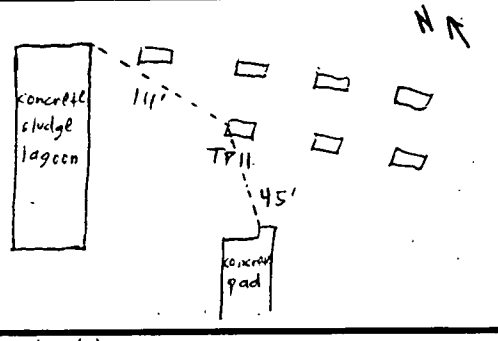
	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date:				
Method:				
Monitor Readings (Range in ppm):			NA	

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TAL metals			

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Donald W Kalen

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ f___

Project Site Name: NAWC Warminster
Project No.: CTO 290

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: TP12-0211
Sample Location:
Sampled By:
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 10/7/99	5'	Light Brown	silty clay
Time: 1345			
Method:			
Monitor Reading (ppm): 0			

COMPOSITE SAMPLE DATA:

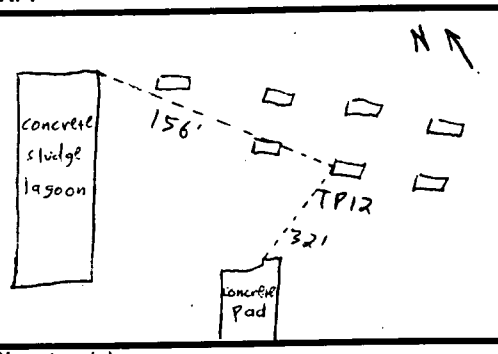
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				
			NA	

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TAL metals			

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Donald Whalen

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ f___

Project Site Name: NAWC Warminster
Project No.: CTO 290

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: TP14-0212
Sample Location:
Sampled By:
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 10/7/99 Time: 1500 Method: Monitor Reading (ppm): 0	0'-2'	Brown	sandy silt

COMPOSITE SAMPLE DATA:

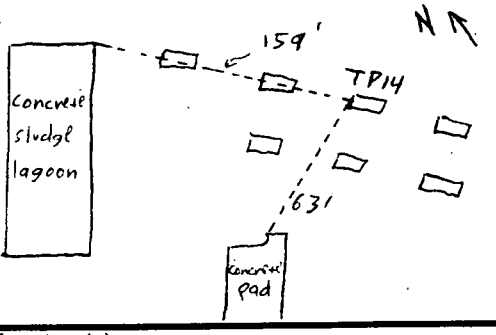
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):			NA	

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOC			
TCL SVOC			
TCL Pest/PCB			
TAL metals			

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:

MS/MSD

Duplicate ID No.: TP16-0215 (1610)

Signature(s): Donald Whalen

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NAWC Warminster
Project No.: CTO 290

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: TP14-0213
Sample Location:
Sampled By:
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 10/7/99 Time: 1530 Method: Monitor Reading (ppm): 0	3.5'-4'	Gray	silt; damp

COMPOSITE SAMPLE DATA:

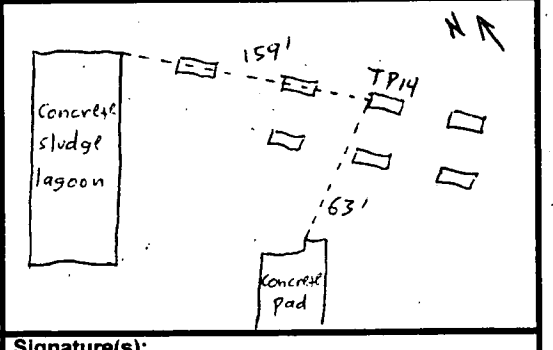
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):			NA	

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TAL metals			

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Donald Whalen

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

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Project Site Name: NAWC Warminster
Project No.: CTO 290

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: TP14-0214
Sample Location:
Sampled By:
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 10/7/99	4'-5'	light Brown	clayey silt, damp
Time: 1530			
Method:			
Monitor Reading (ppm): 0			

COMPOSITE SAMPLE DATA:

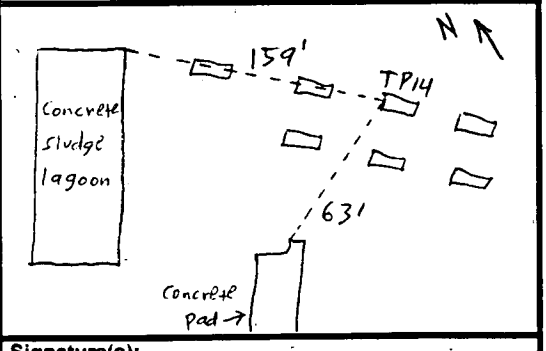
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):			NA	

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TAL metals			

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Donald Whalen

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

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Project Site Name: NAWC Warminster
Project No.: CTO 290

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: TP15-0216
Sample Location:
Sampled By:
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 10/7/99 Time: 1550 Method: Monitor Reading (ppm): 0	2-4'	Red-Brown, Brown-Gray, TAN mottled	clayey silt

COMPOSITE SAMPLE DATA:

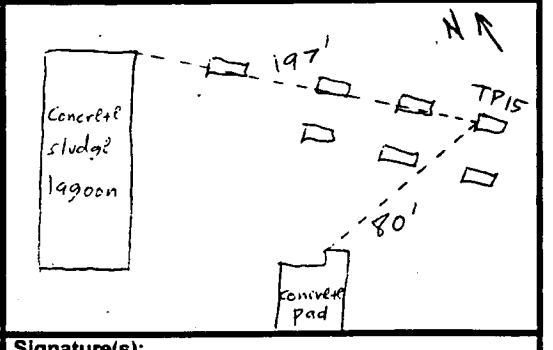
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):			NA	

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PAH			

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Donald W Kaler

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SOIL & SEDIMENT SAMPLE LOG SHEET

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Project Site Name: NAWC Warminster
Project No.: CTO 290

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: SB-03-24
Sample Location: site 3
Sampled By:
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 10/8/99 Time: 1358 Method: split spoon Monitor Reading (ppm): 0	3'-5'	Brown	clayey silt, damp

COMPOSITE SAMPLE DATA:

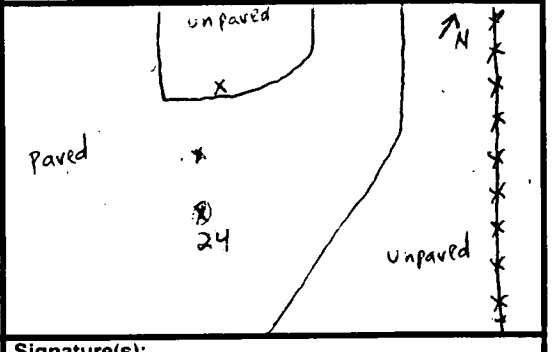
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):			NA	

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PAH and lead	1 x 16 oz		

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Donald Nkalin

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SOIL & SEDIMENT SAMPLE LOG SHEET

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Project Site Name: NAWC Warminster
Project No.: CTO 290

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: SB-03-25
Sample Location: Site 3
Sampled By:
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 10/8/99 Time: 1525 Method: split spoon Monitor Reading (ppm): 0	6'-8'	Brown	sandy silt, damp

COMPOSITE SAMPLE DATA:

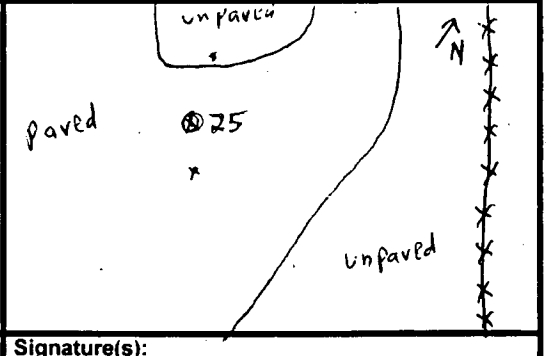
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):			NA	

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PAH and Lead	1x 16 oz Jar		

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Donald W Kaber

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SOIL & SEDIMENT SAMPLE LOG SHEET

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Project Site Name: NAWC Warminster
Project No.: CTO 290

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: SB-18-01
Sample Location: Tank 18
Sampled By:
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 10/8/99 Time: 1025 Method: split spoon Monitor Reading (ppm): 98	5'-7'	reddish Brown	clayey silt, damp petroleum odor

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):			NA	

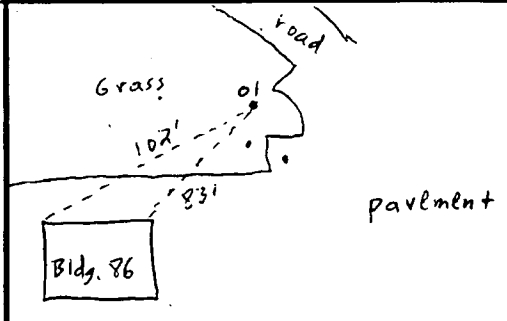
SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOC	2 x 5g Encore		
Pest / PCB	8 oz Jar		
TAL metals / SVOC	8 oz Jar		

OBSERVATIONS / NOTES:

Boring T18-SB01

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Donald Whalen

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

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Project Site Name: NAWC Warminster
Project No.: CTO 290

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: SB-18-02
Sample Location: Tank 18
Sampled By:
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 10/8/99 Time: 1112 Method: split spoon Monitor Reading (ppm): 0	10.5'-11.5'	Light Brown	clayey silt, damp

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):			NA	

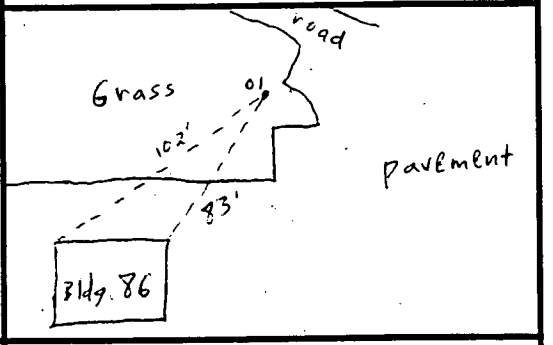
SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOC	2 x 5g Encore		
Pest / PCB	8 oz Jar		
TAL metals, SVOC	8 oz Jar		

OBSERVATIONS / NOTES:

Boring T18-SB01

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Donald Wikaler

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SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ f___

Project Site Name: NAWC Warminster
Project No.: CTO 290

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: SB-18-03
Sample Location: Tank 18
Sampled By:
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 10/8/99 Time: 1200 Method: split spoon Monitor Reading (ppm): 270	6'-8'	Gray-Brown	clayey silt, damp oil odor

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):			NA	

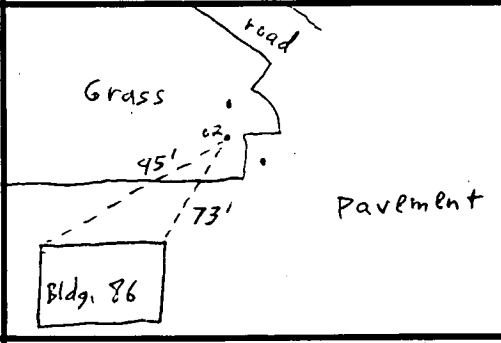
SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOC	6 x 5g Encore		
Pest / PCB	3 x 8 oz Jar		
TAL metals, SVOC	3 x 8 oz Jar		

OBSERVATIONS / NOTES:

Boring T18-SB02

MAP:



Circle if Applicable:

MS/MSD

Duplicate ID No.: SB-19-03

Signature(s):

Donald Kahn

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

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Project Site Name: NAWC Warminster
Project No.: CTO 290

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: SB-18-04
Sample Location: Tank 18
Sampled By:
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 10/8/99 Time: 1210 Method: split spoon Monitor Reading (ppm): 183	10'-11'	Brown-Gray	silty sand, damp

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):			NA	

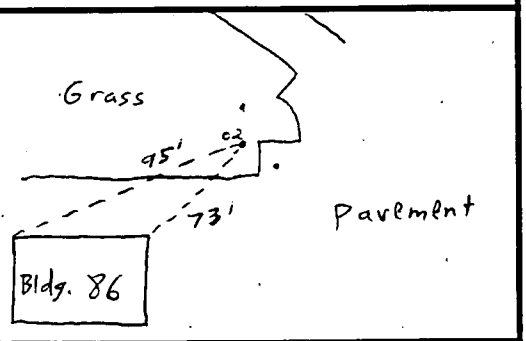
SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOC	2 X 5g Encore		
Pest / PCB	1 X 8 oz Jar		
TAL metals, SVOC	1 X 8 oz Jar		

OBSERVATIONS / NOTES:

Boring T18-SB02

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Donald Wilson

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SOIL & SEDIMENT SAMPLE LOG SHEET

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Project Site Name: NAWC Warminster
Project No.: CTO 290

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: SB-18-05
Sample Location: Tank 18
Sampled By:
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 10/8/99 Time: 1210 Method: split spoon Monitor Reading (ppm): 27	5-6'	Brown to reddish Brown	clayey silt, moist. slight oil odor

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):			NA	

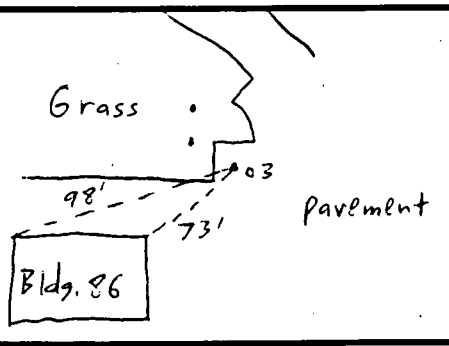
SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOC	2 x 5g Encore		
Pest/PCB	1 x 8oz Jar		
TAL metals, SVOC	1 x 8oz Jar		

OBSERVATIONS / NOTES:

Boring T18-SB03

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Donald Whalen

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SOIL & SEDIMENT SAMPLE LOG SHEET

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Project Site Name: NAWC Warminster
Project No.: CTO 290

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: SB-18-06
Sample Location: Tank 18
Sampled By:
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 10/8/99 Time: 1256 Method: split spoon Monitor Reading (ppm): 0	8'-10'	Brown-Gray	sandy silt, damp

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):			NA	

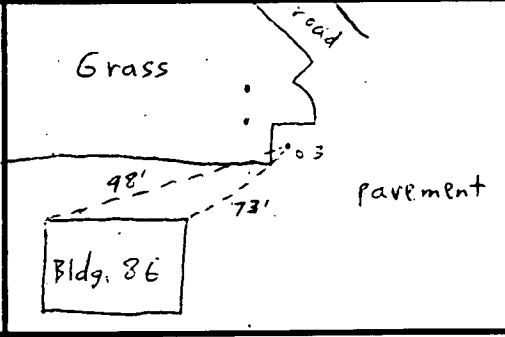
SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOC	2x 5g Encore		
Pest/PCB	1x 8 oz Jar		
TAL metals, SVOC	1x 8 oz Jar		

OBSERVATIONS / NOTES:

Boring T18-SB03

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Donald W Kaba