

N60478.AR.001610  
NWS EARLE  
5090.3a

CONFIRMATORY SOIL SAMPLE RESULTS FOR BUILDING 566 NWS EARLE NJ  
5/29/1998  
FOSTER WHEELER ENVIRONMENTAL CORPORATION

CONTRACTOR DRAWINGS & INFORMATION SUBMITTAL  
NORTHNAVFACENCOM 4335/3 (Rev. 6/80)

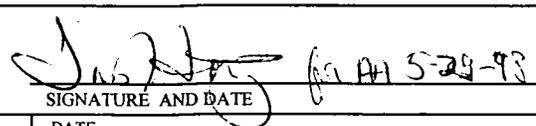
CONTRACT NO. <b>N62472-94-D-0398</b>	DELIVERY ORDER <b>0017 Mod. #8</b>	ACTIVITY LOCATION <b>Naval Weapons Station Earle, Colts Neck, NJ</b>
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PROJECT TITLE:  
**BUILDING 566, UST REMEDIATION**

FROM: <b>Foster Wheeler Environmental Corp. - Program QCM: Akram Aziz</b>	DATE <b>May 29, 1998</b>
TO: <b>COTR: P. BRIEGEL ( 3 COPIES)</b>	DATE <b>MAY 29, 1998</b>

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FOR COMMANDING OFFICER, NORTHERN DIVISION NAVAL FACILITIES ENGINEERING COMMAND		DATE

ITEM NO.	SUBMITTAL DESCRIPTION	PREPARED/ SUBMITTED BY	APPROVED	DISAPPROVED	REMARKS
2	SD-18, Records	J. Hottinger			
	Building 566 Confirmatory Soil	For A. Aziz			
	Sample Results				

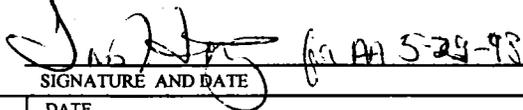
Prepare in quintuplicate (original and 4 copies)  
CONTROL NO. 2

CONTRACTOR DRAWINGS & INFORMATION SUBMITTAL  
NORTHNAVFACENGCOM 4335/3 (Rev. 6/80)

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FROM: DESIGNER	DATE		
TO: ROICC	DATE		

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FROM: ROICC	DATE	
TO: CONTRACTOR	DATE	

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FOR COMMANDING OFFICER, NORTHERN DIVISION NAVAL FACILITIES ENGINEERING COMMAND		

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	Sample Results				

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		SIGNATURE AND DATE
FROM: DESIGNER		DATE
TO: ROICC		DATE

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2. \_\_\_\_\_

COPY TO:

ROICC       DESIGNER

		SIGNATURE AND DATE
FROM: ROICC		DATE
TO: CONTRACTOR		DATE

1. THE SUBMITTALS LISTED BELOW HAVE BEEN REVIEWED AND ARE APPROVED/DISAPPROVED AS SHOWN BELOW AND ON EACH STAMP IMPRINT.

COPY TO:

ROICC       OTHER

\_\_\_\_\_  
 FOR COMMANDING OFFICER, NORTHERN DIVISION NAVAL FACILITIES ENGINEERING COMMAND      DATE

ITEM NO.	SUBMITTAL DESCRIPTION	PREPARED/SUBMITTED BY	APPROVED	DISAPPROVED	REMARKS
2	SD-18, Records	J. Hottinger			
	Building 566 Confirmatory Soil Sample Results	For A. Aziz			

**BUILDING 566 CONFIRMATORY SOIL SAMPLE RESULTS  
NAVAL WEAPONS STATION - EARLE  
COLTS NECK, NEW JERSEY**

*Issued:*

**May 29, 1998**

*Prepared for:*

**Naval Facilities Engineering Command  
10 Industrial Highway  
Lester, PA 19113**

*Prepared by:*

**Foster Wheeler Environmental Corporation  
2300 Lincoln Highway  
One Oxford Valley - Suite 200  
Langhorne, PA 19047 - 1829**

**REMEDIAL ACTION CONTRACT N62472-94-D-0398  
DELIVERY ORDER NO. 0017**

**BUILDING 566 CONFIRMATORY SOIL SAMPLE RESULTS  
NAVAL WEAPONS STATION - EARLE  
COLTS NECK, NEW JERSEY**

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## **1.0 INTRODUCTION**

This report summarizes the analytical results of the confirmatory (post-excitation) soil samples obtained from the seep areas and from the northern corner of the leach field at Building 566 located at the Navy Weapons Station-Earle facility in Colts Neck, New Jersey. Soil was excavated from the seep areas and leach field May 18, 1998 through May 21, 1998. The seep areas were excavated down to a stiff clay layer 2 feet below grade. Confirmatory soil samples were collected on Wednesday May 21, 1998.

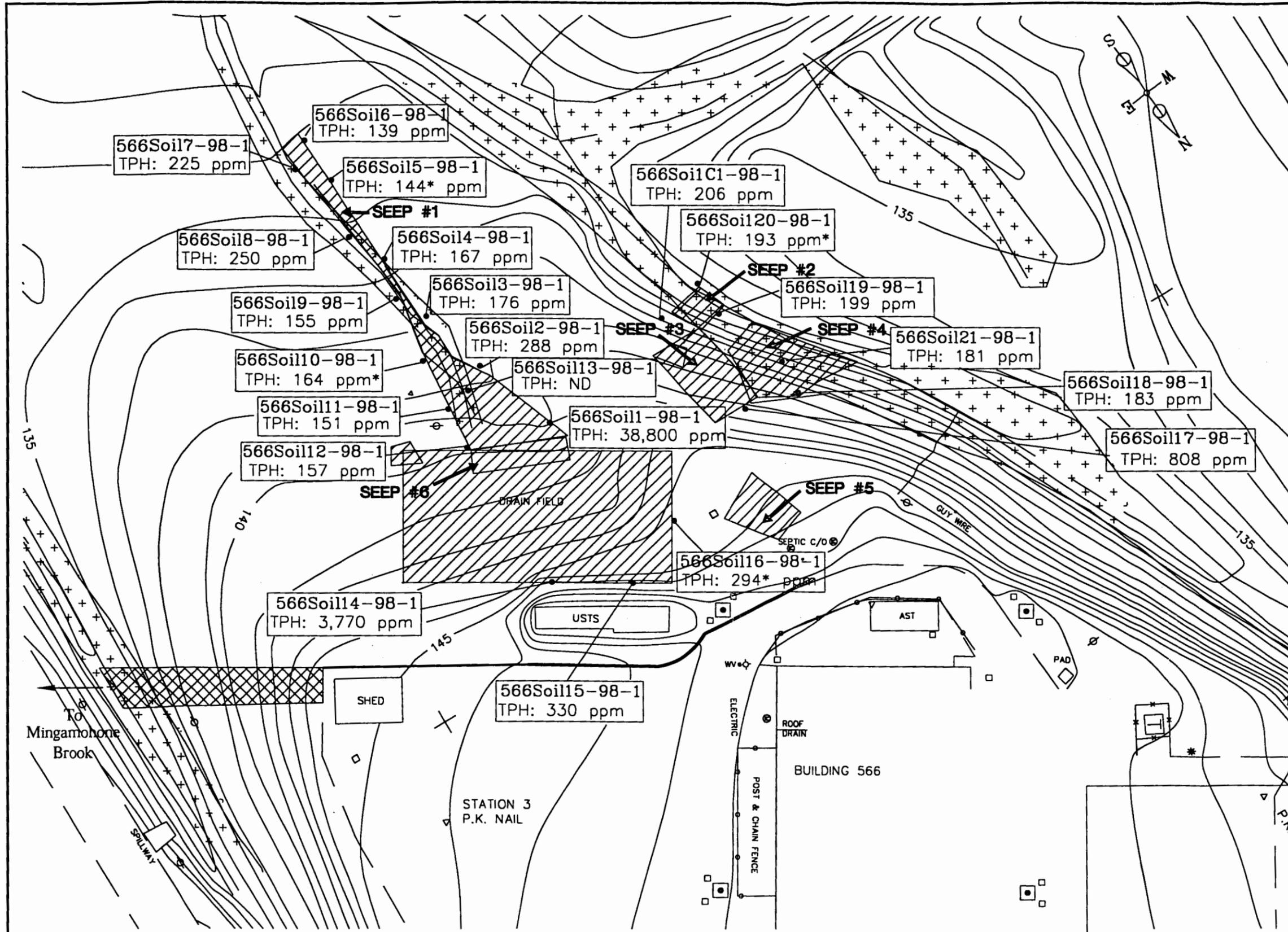
## **2.0 CONFIRMATORY SOIL SAMPLE COLLECTION**

A total of 23 confirmatory soil samples, including a duplicate, were collected from the excavated seep and leach field areas at Building 566. A total of 12 sidewall samples were collected from Seep #1. Figure 1 depicts the locations of the confirmatory soil samples. The sidewall samples were collected every 30 linear feet in accordance with N.J.A.C. 7:26E-6.3. The sidewall samples were collected from the base of the sidewall, 6 to 12 inches into the bank. In addition, one sample was collected from base of Seep #1 on the northern portion of the seep. All the soil samples from Seep #1 were analyzed for total petroleum hydrocarbons (TPH) and two samples (566Soil10-98-1, 566Soil5-98-1) were also analyzed for volatile organics. A total of five confirmatory soil samples were collected from the area of Seeps #2, #3 and #4 to date. Two base, sidewall samples were collected from Seep #2 and analyzed for TPH, and one sample (566Soil20-98-1) was also analyzed for volatile organics. A total of three soil samples were collected from Seep #4, two from the northern base sidewalls, and one from the base on the middle of the seep area. All the soil samples from Seep #4 were analyzed for TPH. Three soil samples were collected from the base of the northern corner of the leach field. All three samples were analyzed for TPH, and one sample (566Soil 16-98-1) was also analyzed for volatile organics.

All soil samples were collected with decontaminated stainless steel trowels and in accordance the New Jersey Department of Environmental Protection (NJDEP) requirements. All soil samples were placed on ice and shipped via Federal Express to Toxikon Laboratory in Bedford, Massachusetts.

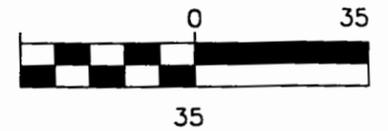
## **3.0 ANALYTICAL RESULTS**

All of the soil samples were analyzed for Total Petroleum Hydrocarbons (TPH) and four of the soil samples were analyzed for Total Compound List (TCL) volatile organics. A rinsate blank was analyzed for TPH, and a trip blank was analyzed for volatile organics.



**LEGEND**

-  Areas to be Excavated
-  Rock Lined Outfall Channel
-  Wetlands
-  Drainage Swale
-  Six-Inch Concrete Berm
-  Water Valve
-  Manhole
-  Utility Pole
-  Guardrail
-  Fire Hydrant
-  Confirmatory Soil Sample
-  Location of Volatile Organic Samples
-  ND - Non-Detection



U.S. Navy RAC  
Naval Weapons Station - Earle

Building 566 -  
Confirmatory Soil Sample Locations

FOSTER WHEELER ENVIRONMENTAL CORPORATION

2	M. Heffran, PG	J. Gorgol, PE
DRAWING NO.	DRAWN BY	APPROVED

Note: Base Map From Brown & Root Environmental RI Report, 1996.  
Topographic Contours Based on New Jersey State Plane Coordinates NAD 83

1"=30'	12/19/97	Final			
SCALE	NO.	DATE	DESCRIPTION	PREP	CHECK
					APPROVED

earle\gwtreatm\earle3.dwg

00618601Z

### Seep #1

Twelve of the thirteen of the confirmatory soil samples collected from Seep #1 had concentrations of TPH less than 1,000 mg/kg, which is the NJDEP cleanup criteria for heating oil spills. Figure 1 depicts the soil sample locations and the TPH concentrations. In accordance with NJDEP, some of the soil samples were analyzed for volatile organics, but no volatile organic compounds were detected. Appendix A contains the laboratory analytical results.

Only one soil sample (566Soil1-98-1) contained TPH concentrations above NJDEP's clean-up criteria. Soil sample 566Soil1-98-1, which was obtained from the northwest corner of the seep, closest to the leach field, had a TPH concentration of 38,800 ppm. At the time of the sampling, there was an earthen berm between Seep #1 and the leach field, in order to remove the free-phase oil from the standing water associated with the leach field excavation. After the leach field has been completely excavated, and all free phase oil pumped off, the soil associated with the earthen berm shall be excavated and removed from the site, and this area shall be re-sampled.

### Seep #2

The two confirmatory soil samples collected from Seep #2 had TPH concentrations less than 1,000 ppm. The volatile organic analyses of one of the soil samples determined that no volatile organics were present at the detection limits. A test pit area was also excavated east of Seep #2 and west of the leach field and Seep #1 to determine if any petroleum impacted soils were located in this area. The soil sample (566SoilC1-98-1) collected from the test pit, at a depth of approximately 2 feet below grade, had a TPH concentration of 193 ppm, indicating no further excavation activities were necessary in this area.

### Seep #4

Seep #4, located topographically downgradient of the western corner of the leach field, appeared to be the main seep area associated with the petroleum migration from the leach field. Once the western portion of Seep #4 was excavated down to the clay layer, at a depth of 2 feet below grade, it was apparent that the soils immediately above the clay layer were stained or saturated with petroleum product. The visible staining associated with Seep #4 was excavated to the north and two confirmatory sidewall samples were collected from the base of the sidewall. These two samples had TPH concentrations less than 1,000 ppm, therefore delineating the northern extent of the seep area excavation. One base sample was collected from the central base portion of Seep #4. The base sample of the clay in the base of Seep #4 had TPH concentrations less than 1,000 ppm, delineating the vertical extent of impact in this area.

Upon exposing the eastern sidewall of the Seep #4 area, it was apparent that the impacted soils probably extended from the surface expression of the seep, where the clay layer surfaces, back towards the leach field. This area also includes the Seep #3 area. The petroleum product, along with perched water, apparently migrated in the soils atop the clay layer, from the leach field to Seep #4. Since Seep #4 was located on a steep bank, it was necessary to excavate one portion at a time in order to prevent slope failure and the migration of petroleum impacted soils towards the small stream located immediately downslope. An approximately 40 foot wide by 20 foot long area was excavated at the bottom portion of Seep #4, down to the clay. The area upslope of the excavated area was bermed with soil to prevent slope failure upgradient. Since the analytical results of the soil samples collected from the downslope area of Seep #4 were below the cleanup standards, it is proposed that this area be backfilled and the soil removal continue upslope towards the leach field, terracing the excavations to prevent slope failure. Once the additional soil is removed, additional confirmatory soil samples shall be collected from this area.

Because of the steep slope at Seep #4, it will be necessary to place gravel rip-rap atop the clay layer prior to placing the topsoil, in order to prevent slope failure. Perched water in this area migrates along the top of the clay, and has a good potential to wash off any soil in a heavy rain event prior to the vegetation taking seed. The Seep #4 area will be backfilled with stone rip-rap, geotextile placed atop the stone, and then topsoil and revegetation in accordance with the Wetlands Permit. The placement of stone will allow the migration of the perched water without washing away the topsoil.

### Leach Field

Only the northern corner of the leach field was excavated at the time of confirmatory soil sample collection. Three sidewall samples were collected from the northern corner of the leach field at 30 linear foot intervals. The sample collected from the northwest sidewall contained TPH concentrations less than 1,000 ppm, thus delineating the northwestern edge of the leach field. This sample, which was also analyzed for volatile organics, did not contain any volatile organics above the detection limits. The sample collected from the northern corner of the leach field excavation, adjacent to the USTs, had a TPH concentration less than 1,000 ppm delineating the northern corner of the leach field. The soil sample (566Soil14-98-1) collected along the northeastern sidewall of the leach field, between the leach field and the USTs, had a TPH concentration of 3,770 ppm, which is over the NJDEP cleanup criteria. During the initial excavation activities in the leach field, it was noted that some free-phase product and water entered the excavation from the northeast area, around the USTs. Some free-phase product in the leach field may have preferentially migrated to more porous pea gravel which was backfilled around the new USTs. Since the intention of this removal action is to leave the leach field excavation open and remove any free phase product which enters the excavation, this shall be performed and the 566Soil14-98-1 area shall be re-sampled.

#### **4.0 CONCLUSIONS**

Based on the analytical results of the confirmatory (post-excavation) soil sampling conducted after the excavation activities at Building 566, Seep #1, Seep #2, and portions of Seep #3/Seep #4 are ready for backfilling. Additional soil excavation shall continue in the Seep #3/Seep #4 areas, as well as the leach field.

Additional confirmatory soil samples shall be collected upon the excavation of the additional soils

Page 1

TOXIKON CORP.

REPORT

Work Order # 98-05-485

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05/28/98 15:24:47

REPORT FOSTER & WHEELER  
TO 1 OXFORD VALLEY, SUITE 200  
LANGHORNE, PA, 19047  
215-702-4007 FAX: 4045  
ATTEN MICHAEL NEFFRON

PREPARED TOXIKON CORPORATION  
BY 15 WIGGINS AVE  
BEDFORD, MA 01730  
ATTEN PAUL LEZBERG  
PHONE (617)275-3330



CERTIFIED BY

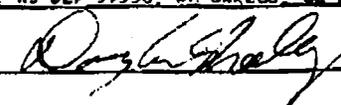
CONTACT CHUCKC

CLIENT FOSTER SAMPLES 29

COMPANY FOSTER & WHEELER  
FACILITY 1 OXFORD VALLEY, SUITE 200  
LANGHORNE, PA. 19047

MA CERT # M-MA064: TRACE METALS, SULFATE, CYANIDE, RES. FREE  
CHLORINE, Ca, TOTAL ALK., TDS, pH, THMs, VOC, PEST., NUTRIENTS,  
DEMAND, OSG, PHENOLICS, PCBs . CT DHS #PH-0563, NY #10778  
FL HRG E87143, NJ DEP 59538, NC DWR286, SC BB002, MN 204091-C.

WORK ID NAVY WEAPONS STATION  
TAKEN 5/21/98  
TRANS \_\_\_\_\_  
TYPE SOIL  
P.O. # \_\_\_\_\_  
INVOICE under separate cover

VERIFIED BY: 

SAMPLE IDENTIFICATION

TEST CODES and NAMES used on this workorder

- 01 566 SOIL 1-98-1
- 02 566 SOIL 2-98-1
- 03 566 SOIL 3-98-1
- 04 566 SOIL 4-98-1
- 05 566 SOIL 5-98-1
- 06 566 SOIL 5-98-1
- 07 566 SOIL 6-98-1
- 08 566 SOIL 7-98-1
- 09 566 SOIL 8-98-1
- 10 566 SOIL 9-98-1
- 11 566 SOIL 10-98-1
- 12 566 SOIL 10-98-1
- 13 566 SOIL 11-98-1
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- 20 566 SOIL 17-98-1
- 21 566 SOIL 18-98-1
- 22 566 SOIL 19-98-1
- 23 566 SOIL 20-98-1
- 24 566 SOIL 20-98-1
- 25 566 SOIL 200-98-1
- 26 566 TRIP BLANK 1

- 8260 PURGEABLE ORGANICS VOA
- TPH IR TPH BY IR

Page 2

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Received: 05/22/98

05/28/98 15:24:47

**SAMPLE IDENTIFICATION**

27 566 SOIL 21-98-1

28 566 RINSAIE BLANK-1

29 566 SOIL C1-98-1

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REPORT

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Results by Sample

SAMPLE ID 566 SOIL 1-98-1 SAMPLE # 01 FRACTIONS: A  
 Date & Time Collected 05/21/98 10:59:00 Category SOIL  
 TPH\_IR 38800  
 mg/Kg DL=40.0

SAMPLE ID 566 SOIL 2-98-1 SAMPLE # 02 FRACTIONS: A  
 Date & Time Collected 05/21/98 11:02:00 Category SOIL  
 TPH\_IR 208  
 mg/Kg DL=40.0

SAMPLE ID 566 SOIL 3-98-1 SAMPLE # 03 FRACTIONS: A  
 Date & Time Collected 05/21/98 11:05:00 Category SOIL  
 TPH\_IR 176  
 mg/Kg DL=40.0

SAMPLE ID 566 SOIL 4-98-1 SAMPLE # 04 FRACTIONS: A  
 Date & Time Collected 05/21/98 11:10:00 Category SOIL  
 TPH\_IR 167  
 mg/Kg DL=40.0

SAMPLE ID 566 SOIL 5-98-1 SAMPLE # 05 FRACTIONS: A  
 Date & Time Collected 05/21/98 11:22:00 Category SOIL  
 TPH\_IR 144  
 mg/Kg DL=40.0

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REPORT

Work Order # 98-05-485

Received: 05/22/98

Results by Sample

SAMPLE ID 566 SOIL 5-98-1FRACTION 06ATEST CODE 8260NAME PURGEABLE ORGANICS VOADate & Time Collected 05/21/98 11:24:00Category SOIL**EPA 8260 PURGEABLE ORGANICS**

	RESULT	LIMIT		RESULT	LIMIT
Chloromethane	ND	500	o-Xylene	ND	250
Bromomethane	ND	250	m,p-Xylene	ND	250
Vinyl Chloride	ND	100	1,2-Dichlorobenzene	ND	250
Chloroethane	ND	500	1,3-Dichlorobenzene	ND	250
Methylene Chloride	ND	500	1,4-Dichlorobenzene	ND	250
1,1-Dichloroethene	ND	250	Naphthalene	ND	500
Trichlorofluoromethane	ND	500	n-Propylbenzene	ND	500
1,1-Dichloroethane	ND	250	Bromobenzene	ND	250
Trans-1,2-Dichloroethene	ND	250	Bromochloromethane	ND	250
Chloroform	ND	250	n-Butylbenzene	ND	500
1,2-Dichloroethane	ND	250	sec-Butylbenzene	ND	500
1,1,1-Trichloroethane	ND	250	tert-Butylbenzene	ND	500
Carbon Tetrachloride	ND	250	2-Chlorotoluene	ND	250
Bromodichloromethane	ND	250	4-Chlorotoluene	ND	250
1,2-Dichloropropane	ND	250	1,2-Dibromo-3-chloropropane	ND	250
Trichloroethene	ND	250	1,2-Dibromomethane	ND	250
Dibromochloromethane	ND	250	Dibromomethane	ND	250
1,1,2-Trichloroethane	ND	250	Dichlorodifluoromethane	ND	500
Benzene	ND	250	cis-1,2-Dichloroethene	ND	250
1,1-Dichloropropene	ND	250	1,3-Dichloropropane	ND	250
2,2-Dichloropropane	ND	250	1,1,1,2-Tetrachloroethane	ND	250
Bromoform	ND	250	1,2,3-Trichlorobenzene	ND	250
Hexachlorobutadiene	ND	500	1,1,2,2-Tetrachloroethane	ND	250
Isopropylbenzene	ND	500	1,2,4-Trichlorobenzene	ND	250
Tetrachloroethene	ND	250	1,2,3-Trichloropropane	ND	250
Methyl tertiary butyl ether	ND	250	1,2,4-Trimethylbenzene	ND	500
Toluene	ND	250	1,3,5-Trimethylbenzene	ND	500
Chlorobenzene	ND	250	cis-1,3-Dichloropropene	ND	250
Ethyl Benzene	ND	250	trans-1,3-Dichloropropene	ND	250
p-Isopropyltoluene	ND	500	Styrene	ND	250

## Notes and definitions for this report:

DATE RUN 05/26/98

ANALYST JPM

INSTRUMENT \_\_\_\_\_ D

DIL. FACTOR 1

UNITS ug/Kg

COMMENTS \_\_\_\_\_

ND = Not detected at detection limit

Page 5  
Received: 05/22/98TOXIKON CORP. REPORT  
Results by Sample

Work Order # 98-05-405

SAMPLE ID <u>566 SOIL 6-98-1</u>	SAMPLE # <u>07</u> FRACTIONS: <u>A</u>
	Date & Time Collected <u>05/21/98 12:03:00</u> Category <u>SOIL</u>
TPH_IR <u>139</u>	
mg/Kg DL=40.0	
SAMPLE ID <u>566 SOIL 7-98-1</u>	SAMPLE # <u>08</u> FRACTIONS: <u>A</u>
	Date & Time Collected <u>05/21/98 12:07:00</u> Category <u>SOIL</u>
TPH_IR <u>225</u>	
mg/Kg DL=40.0	
SAMPLE ID <u>566 SOIL 8-98-1</u>	SAMPLE # <u>09</u> FRACTIONS: <u>A</u>
	Date & Time Collected <u>05/21/98 12:09:00</u> Category <u>SOIL</u>
TPH_IR <u>250</u>	
mg/Kg DL=40.0	
SAMPLE ID <u>566 SOIL 9-98-1</u>	SAMPLE # <u>10</u> FRACTIONS: <u>A</u>
	Date & Time Collected <u>05/21/98 12:10:00</u> Category <u>SOIL</u>
TPH_IR <u>155</u>	
mg/Kg DL=40.0	
SAMPLE ID <u>566 SOIL 10-98-1</u>	SAMPLE # <u>11</u> FRACTIONS: <u>A</u>
	Date & Time Collected <u>05/21/98 12:14:00</u> Category <u>SOIL</u>
TPH_IR <u>164</u>	
mg/Kg DL=40.0	

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Received: 05/22/98

Results by Sample

SAMPLE ID 566 SOIL 10-98-1FRACTION 12ATEST CODE B260NAME PURGEABLE ORGANICS VOADate & Time Collected 05/21/98 12:14:00Category SOIL**EPA 8260 PURGEABLE ORGANICS**

	RESULT	LIMIT		RESULT	LIMIT
Chloromethane	ND	500	o-Xylene	ND	250
Bromomethane	ND	250	m+p-Xylene	ND	250
Vinyl Chloride	ND	100	1,2-Dichlorobenzene	ND	250
Chloroethane	ND	500	1,3-Dichlorobenzene	ND	250
Methylene Chloride	ND	500	1,4-Dichlorobenzene	ND	250
1,1-Dichloroethene	ND	250	Naphthalene	ND	500
Trichlorofluoromethane	ND	500	n-Propylbenzene	ND	500
1,1-Dichloroethane	ND	250	Bromobenzene	ND	250
Trans-1,2-Dichloroethene	ND	250	Bromochloromethane	ND	250
Chloroform	ND	250	n-Butylbenzene	ND	500
1,2-Dichloroethane	ND	250	sec-Butylbenzene	ND	500
1,1,1-Trichloroethane	ND	250	tert-Butylbenzene	ND	500
Carbon Tetrachloride	ND	250	2-Chlorotoluene	ND	250
Bromodichloromethane	ND	250	4-Chlorotoluene	ND	250
1,2-Dichloropropane	ND	250	1,2-Dibromo-3-chloropropane	ND	250
Trichloroethene	ND	250	1,2-Dibromomethane	ND	250
Dibromochloromethane	ND	250	Dibromomethane	ND	250
1,1,2-Trichloroethane	ND	250	Dichlorodifluoromethane	ND	500
Benzene	ND	250	cis-1,2-Dichloroethene	ND	250
1,1-Dichloropropene	ND	250	1,3-Dichloropropene	ND	250
2,2-Dichloropropane	ND	250	1,1,1,2-Tetrachloroethane	ND	250
Bromoform	ND	250	1,2,3-Trichlorobenzene	ND	250
Hexachlorobutadiene	ND	500	1,1,2,2-Tetrachloroethane	ND	250
Isopropylbenzene	ND	500	1,2,4-Trichlorobenzene	ND	250
Tetrachloroethene	ND	250	1,2,3-Trichloropropane	ND	250
Methyl tertiary butyl ether	ND	250	1,2,4-Trimethylbenzene	ND	500
Toluene	ND	250	1,3,5-Trimethylbenzene	ND	500
Chlorobenzene	ND	250	cis-1,3-Dichloropropene	ND	250
Ethyl Benzene	ND	250	trans-1,3-Dichloropropene	ND	250
p-Isopropyltoluene	ND	500	Styrene	ND	250

## Notes and definitions for this report:

DATE RUN 05/26/98

ANALYST JPM

INSTRUMENT \_\_\_\_\_ D

DIL. FACTOR 1

UNITS ug/Kg

COMMENTS \_\_\_\_\_

ND = Not detected at detection limit

Page 7

TOXIKON CORP.

REPORT

Work Order # 98-05-485

Received: 05/22/98

Results by Sample

SAMPLE ID <u>566 SOIL 11-98-1</u>	SAMPLE # <u>13</u> FRACTIONS: <u>A</u>
	Date & Time Collected <u>05/21/98 12:18:00</u> Category <u>SOIL</u>
TPH_IR <u>151</u>	
mg/Kg DL=40.0	
SAMPLE ID <u>566 SOIL 12-98-1</u>	SAMPLE # <u>14</u> FRACTIONS: <u>A</u>
	Date & Time Collected <u>05/21/98 12:20:00</u> Category <u>SOIL</u>
TPH_IR <u>137</u>	
mg/Kg DL=40.0	
SAMPLE ID <u>566 SOIL 13-98-1</u>	SAMPLE # <u>15</u> FRACTIONS: <u>A</u>
	Date & Time Collected <u>05/21/98 13:00:00</u> Category <u>SOIL</u>
TPH_IR <u>ND</u>	
mg/Kg DL=40.0	
SAMPLE ID <u>566 SOIL 14-98-1</u>	SAMPLE # <u>16</u> FRACTIONS: <u>A</u>
	Date & Time Collected <u>05/21/98 13:32:00</u> Category <u>SOIL</u>
TPH_IR <u>3770</u>	
mg/Kg DL=40.0	
SAMPLE ID <u>566 SOIL 15-98-1</u>	SAMPLE # <u>17</u> FRACTIONS: <u>A</u>
	Date & Time Collected <u>05/21/98 13:29:00</u> Category <u>SOIL</u>
TPH_IR <u>330</u>	
mg/Kg DL=40.0	
SAMPLE ID <u>566 SOIL 16-98-1</u>	SAMPLE # <u>18</u> FRACTIONS: <u>A</u>
	Date & Time Collected <u>05/21/98 13:22:00</u> Category <u>SOIL</u>
TPH_IR <u>294</u>	
mg/Kg DL=40.0	

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TOXIKON CORP.

REPORT

Work Order # 98-05-485

Received: 05/22/98

Results by Sample

SAMPLE ID 566 SOIL 16-98-1 FRACTION 19A TEST CODE 8260 NAME PURGEABLE ORGANICS VQADate & Time Collected 05/21/98 13:22:00 Category SOIL**EPA 8260 PURGEABLE ORGANICS**

	RESULT	LIMIT		RESULT	LIMIT
Chloromethane	ND	500	o-Xylene	ND	250
Bromomethane	ND	250	m-p-Xylene	ND	250
Vinyl Chloride	ND	100	1,2-Dichlorobenzene	ND	250
Chloroethane	ND	500	1,3-Dichlorobenzene	ND	250
Methylene Chloride	ND	500	1,4-Dichlorobenzene	ND	250
1,1-Dichloroethene	ND	250	Naphthalene	ND	500
Trichlorofluoromethane	ND	500	n-Propylbenzene	ND	500
1,1-Dichloroethane	ND	250	Bromobenzene	ND	250
Trans-1,2-Dichloroethene	ND	250	Bromochloromethane	ND	250
Chloroform	ND	250	n-Butylbenzene	ND	500
1,2-Dichloroethane	ND	250	sec-Butylbenzene	ND	500
1,1,1-Trichloroethane	ND	250	tert-Butylbenzene	ND	500
Carbon Tetrachloride	ND	250	2-Chlorotoluene	ND	250
Bromodichloromethane	ND	250	4-Chlorotoluene	ND	250
1,2-Dichloropropane	ND	250	1,2-Dibromo-3-chloropropane	ND	250
Trichloroethene	ND	250	1,2-Dibromomethane	ND	250
Dibromochloromethane	ND	250	Dibromomethane	ND	250
1,1,2-Trichloroethane	ND	250	Dichlorodifluoromethane	ND	500
Benzene	ND	250	cis-1,2-Dichloroethene	ND	250
1,1-Dichloropropene	ND	250	1,3-Dichloropropane	ND	250
2,2-Dichloropropane	ND	250	1,1,1,2-Tetrachloroethane	ND	250
Bromoform	ND	250	1,2,3-Trichlorobenzene	ND	250
Hexachlorobutadiene	ND	500	1,1,2,2-Tetrachloroethane	ND	250
Isopropylbenzene	ND	500	1,2,4-Trichlorobenzene	ND	250
Tetrachloroethene	ND	250	1,2,3-Trichloropropane	ND	250
Methyl tertiary butyl ether	ND	250	1,2,4-Trimethylbenzene	ND	500
Toluene	ND	250	1,3,5-Trimethylbenzene	ND	500
Chlorobenzene	ND	250	cis-1,3-Dichloropropene	ND	250
Ethyl Benzene	ND	250	trans-1,3-Dichloropropene	ND	250
p-Isopropyltoluene	ND	500	Styrene	ND	250

## Notes and definitions for this report:

DATE RUN 05/26/98

ANALYST JPM

INSTRUMENT \_\_\_\_\_ D

DIL. FACTOR 1

UNITS ug/Kg

COMMENTS \_\_\_\_\_

ND = Not detected at detection limit

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TOXIKON CORP.

REPORT

Work Order # 98-05-485

Received: 05/22/98

Results by Sample

SAMPLE ID 566 SOIL 17-98-1 SAMPLE # 20 FRACTIONS: A  
Date & Time Collected 05/21/98 13:40:00 Category SOIL  
TPH IR 808  
mg/Kg DL=40.0

SAMPLE ID 566 SOIL 18-98-1 SAMPLE # 21 FRACTIONS: A  
Date & Time Collected 05/21/98 13:50:00 Category SOIL  
TPH IR 183  
mg/Kg DL=40.0

SAMPLE ID 566 SOIL 19-98-1 SAMPLE # 22 FRACTIONS: A  
Date & Time Collected 05/21/98 14:05:00 Category SOIL  
TPH IR 192  
mg/Kg DL=40.0

SAMPLE ID 566 SOIL 20-98-1 SAMPLE # 23 FRACTIONS: A  
Date & Time Collected 05/21/98 14:07:00 Category SOIL  
TPH IR 193  
mg/Kg DL=40.0

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TOXIKON CORP.

REPORT

Work Order # 98-05-485

Received: 05/22/98

Results by Sample

SAMPLE ID 566 SOIL 20-98-1FRACTION 24ATEST CODE 8260NAME PURGEABLE ORGANICS VOADate & Time Collected 05/21/98 14:07:00Category SOIL**EPA 8260 PURGEABLE ORGANICS**

	RESULT	LIMIT		RESULT	LIMIT
Chloromethane	ND	500	o-Xylene	ND	250
Bromomethane	ND	250	m+p-Xylene	ND	250
Vinyl Chloride	ND	100	1,2-Dichlorobenzene	ND	250
Chloroethane	ND	500	1,3-Dichlorobenzene	ND	250
Methylene Chloride	ND	500	1,4-Dichlorobenzene	ND	250
1,1-Dichloroethane	ND	250	Naphthalene	ND	500
Trichlorofluoromethane	ND	500	n-Propylbenzene	ND	500
1,1-Dichloroethane	ND	250	Bromobenzene	ND	250
Trans-1,2-Dichloroethane	ND	250	Bromochloromethane	ND	250
Chloroform	ND	250	n-Butylbenzene	ND	500
1,2-Dichloroethane	ND	250	sec-Butylbenzene	ND	500
1,1,1-Trichloroethane	ND	250	tert-Butylbenzene	ND	500
Carbon Tetrachloride	ND	250	2-Chlorotoluene	ND	250
Bromodichloromethane	ND	250	4-Chlorotoluene	ND	250
1,2-Dichloropropane	ND	250	1,2-Dibromo-3-chloropropane	ND	250
Trichloroethene	ND	250	1,2-Dibromomethane	ND	250
Dibromochloromethane	ND	250	Dibromomethane	ND	250
1,1,2-Trichloroethane	ND	250	Dichlorodifluoromethane	ND	500
Benzene	ND	250	cis-1,2-Dichloroethene	ND	250
1,1-Dichloropropane	ND	250	1,3-Dichloropropane	ND	250
2,2-Dichloropropane	ND	250	1,1,1,2-Tetrachloroethane	ND	250
Bromoform	ND	250	1,2,3-Trichlorobenzene	ND	250
Hexachlorobutadiene	ND	500	1,1,2,2-Tetrachloroethane	ND	250
Isopropylbenzene	ND	500	1,2,4-Trichlorobenzene	ND	250
Tetrachloroethene	ND	250	1,2,3-Trichloropropane	ND	250
Methyl tertiary butyl ether	ND	250	1,2,4-Trimethylbenzene	ND	500
Toluene	ND	250	1,3,5-Trimethylbenzene	ND	500
Chlorobenzene	ND	250	cis-1,3-Dichloropropene	ND	250
Ethyl Benzene	ND	250	trans-1,3-Dichloropropene	ND	250
p-Isopropyltoluene	ND	500	Styrene	ND	250

## Notes and definitions for this report:

DATE RUN 05/26/98

ANALYST JPM

INSTRUMENT \_\_\_\_\_ D

DIL. FACTOR 1

UNITS ug/Kg

COMMENTS \_\_\_\_\_

ND = Not detected at detection limit

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TOXIKON CORP.

REPORT

Work Order # 98-05-485

Received: 05/22/98

Results by Sample

SAMPLE ID <u>566 SOIL 200-98-1</u>	SAMPLE # <u>25</u> FRACTIONS: <u>A</u>
	Date & Time Collected <u>05/21/98</u> Category <u>SOIL</u>
TPH IR <u>226</u>	
mg/Kg DL=40.0	

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Received: 05/22/98

TOXIKON CORP. REPORT  
Results by Sample

Work Order # 98-05-485

SAMPLE ID 566 TRIP BLANK 1 FRACTION 26A TEST CODE 8260 NAME PURGEABLE ORGANICS VOA  
Date & Time Collected 05/21/98 Category METANOL

### EPA 8260 PURGEABLE ORGANICS

	RESULT	LIMIT		RESULT	LIMIT
Chloromethane	ND	500	o-Xylene	ND	250
Bromomethane	ND	250	m-p-Xylene	ND	250
Vinyl Chloride	ND	100	1,2-Dichlorobenzene	ND	250
Chloroethane	ND	500	1,3-Dichlorobenzene	ND	250
Methylene Chloride	ND	500	1,4-Dichlorobenzene	ND	250
1,1-Dichloroethene	ND	250	Naphthalene	ND	500
Trichlorofluoromethane	ND	500	n-Propylbenzene	ND	500
1,1-Dichloroethane	ND	250	Bromobenzene	ND	250
Trans-1,2-Dichloroethene	ND	250	Bromochloromethane	ND	250
Chloroform	ND	250	n-Butylbenzene	ND	500
1,2-Dichloroethane	ND	250	sec-Butylbenzene	ND	500
1,1,1-Trichloroethane	ND	250	tert-Butylbenzene	ND	500
Carbon Tetrachloride	ND	250	2-Chlorotoluene	ND	250
Bromodichloromethane	ND	250	4-Chlorotoluene	ND	250
1,2-Dichloropropane	ND	250	1,2-Dibromo-3-chloropropane	ND	250
Trichloroethene	ND	250	1,2-Dibromomethane	ND	250
Dibromochloromethane	ND	250	Dibromomethane	ND	250
1,1,2-Trichloroethane	ND	250	Dichlorodifluoromethane	ND	500
Benzene	ND	250	cis-1,2-Dichloroethene	ND	250
1,1-Dichloropropene	ND	250	1,3-Dichloropropene	ND	250
2,2-Dichloropropane	ND	250	1,1,1,2-Tetrachloroethane	ND	250
Bromoform	ND	250	1,2,3-Trichlorobenzene	ND	250
Hexachlorobutadiene	ND	500	1,1,2,2-Tetrachloroethane	ND	250
Isopropylbenzene	ND	500	1,2,4-Trichlorobenzene	ND	250
Tetrachloroethene	ND	250	1,2,3-Trichloropropane	ND	250
Methyl tertiary butyl ether	ND	250	1,2,4-Trimethylbenzene	ND	500
Toluene	ND	250	1,3,5-Trimethylbenzene	ND	500
Chlorobenzene	ND	250	cis-1,3-Dichloropropene	ND	250
Ethyl benzene	ND	250	trans-1,3-Dichloropropene	ND	250
p-Isopropyltoluene	ND	500	Styrene	ND	250

Notes and definitions for this report:

DATE RUN 05/26/98

ANALYST JPM

INSTRUMENT \_\_\_\_\_ D

DIL. FACTOR 1

UNITS ug/Kg

COMMENTS \_\_\_\_\_

ND = Not detected at detection limit

Page 13  
Received: 05/22/98

TOXIKON CORP. REPORT  
Results by Sample

Work Order # 98-05-485

SAMPLE ID 566 SOIL 21-98-1 SAMPLE # 27 FRACTIONS: A  
Date & Time Collected 05/21/98 14:19:00 Category SOIL  
TPH\_IR 181  
mg/Kg DL=40.0

SAMPLE ID 566 RINSATE BLANK-1 SAMPLE # 28 FRACTIONS: A  
Date & Time Collected 05/21/98 15:00:00 Category SOIL  
TPH\_IR ND  
mg/L DL=1.0

SAMPLE ID 566 SOIL C1-98-1 SAMPLE # 29 FRACTIONS: A  
Date & Time Collected 05/21/98 11:34:00 Category SOIL  
TPH\_IR 206  
mg/Kg DL=40.0

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TOXIKON CORP.

REPORT

Work Order # 98-05-485

Received: 05/22/98

Test Methodology

TEST CODE 8260 NAME PURGEABLE ORGANICS YOA

EPA METHOD: 82608: Gas Chromatography/Mass Spectrometry for Volatile Organics.

Reference: Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods.  
EPA SW-846 Final Update III, 1996. Office of Solid Waste, USEPA.

SOIL RESULTS ARE REPORTED ON A DRY WEIGHT BASIS.

TEST CODE YPH IR NAME YPH BY IR

EPA METHOD: 418.1 for water sample.

Reference: Methods for Chemical Analysis of Water and Wastes.  
EPA 600/4-79-020 (Revised, March 1983). EPA/EHSL, Cincinnati, OH.

EPA METHOD: 9071/9073

Reference: Test Methods for Evaluating Solid Waste: Physical/Chemical Methods.  
EPA SW-846 (Third Edition) 1986. Office of Solid Waste, USEPA.



Wiggins Ave., Bedford, MA 01730  
 Telephone: (781) 275-3330  
 Fax: (761) 275-7478

# CHAIN OF CUSTODY RECORD

1-OF-3

WORK ORDER #: 46-00-40

DUE DATE: 05-28-98

05-28-98 03:16PM FROM TOXIKON

FO 12157024045

P016

COMPANY: Foster Wheeler Environmental  
 ADDRESS: One Oxford Valley Suite 200  
Langhorne PA 19047  
 PHONE #: (215) 702-4045 FAX #: (215) 702-4045  
 PROJECT MANAGER: Mike Hefter  
 PROJECT ID/LOCATION: Navy Weapons Station - Fall

SAMPLE TYPE CONTAINER TYPE  
 1. WASTEWATER P - PLASTIC  
 2. SOLID Q - GLASS  
 3. SLUDGE V - VOA  
 4. OIL  
 5. DRINKING WATER  
 6. WATER (GW/RAIN/SW)  
 7. OTHER (SPECIFY)

ANALYSES

TPH  
 Volatile Organics  
 Metals  
 PCBs  
 M. H. H. H. H.  
 7-28-98  
 (NO)

CON	SAMPLE IDENTIFICATION	SAMPLE TYPE	CONTAINER			SAMPLING		PRESERVATIVE	PREPARED BY	ANALYSES	SPECIAL INSTRUCTIONS/COMMENTS
			SIZE	TYPE	#	DATE	TIME				
1	566-S-1-1-98-1	2	82	G	1	5/18/98	10:59	N/A	X		
	566-S-1-2-98-1						11:02		X		
	566-S-1-3-98-1						11:05		X		
	566-S-1-4-98-1						11:10		X		
	566-S-1-5-98-1						11:22		X		
	566-S-1-6-98-1		82				11:24	Vol. 1	X		
	566-S-1-7-98-1						12:03		X		
	566-S-1-8-98-1						12:07		X		
	566-S-1-9-98-1						12:09		X		
	566-S-1-10-98-1						12:10		X		
	566-S-1-11-98-1						12:14		X		
	566-S-1-10-98-1		202				12:14		X		

ORDERED BY: [Signature] DATE: 5-21-98 QUOTATION #:  
 TIME: - -  
 ORDERED BY: 2 DATE: 5-21-98 RECEIVED BY: DATE: - -  
 TIME: - -  
 ORDERED BY: DATE: - - RECEIVED FOR LAB BY: DATE: - -  
 TIME: - -  
 METHOD OF SHIPMENT: COOLER TEMPERATURE

72 hr. Turn-Around  
 RUSH ..... BUSINESS DAY TURN AROUND  
 ROUTINE  
 Sample disposal information  
 Are there any other known or suspected contaminants in these samples other than those listed above?  
 Yes No If Yes, list Known



15 Wiggins Ave., Bedford, MA 01730  
 Telephone: (781) 275-3330  
 Fax: (781) 275-7478

# CHAIN OF CUSTODY RECORD

2-OF-3

WORK ORDER #: 48-w-705  
 DUE DATE: 05-28-98

COMPANY: Foster Wheeler Fenwick  
 ADDRESS: One Oxford Valley Suite 200  
Langhorne PA 19047  
 PHONE #: (215) 702-4045 FAX #: (215) 702-4045  
 P.O. #: \_\_\_\_\_  
 PROJECT MANAGER: Mike Hoffman  
 PROJECT ID/LOCATION: NWS- Euro

- SAMPLE TYPE CONTAINER TYPE
- 1. WASTEWATER P - PLASTIC
  - 2. SOIL G - GLASS
  - 3. SLUDGE V - VQA
  - 4. OIL
  - 5. DRINKING WATER
  - 6. WATER (GWAV/SW)
  - 7. OTHER (SPECIFY)

## ANALYSES

*Handwritten notes:*  
 TPH  
 volatile  
 400000's  
 5-26-98  
 (10)

IKON #	SAMPLE IDENTIFICATION	SAMPLE TYPE	CONTAINER			SAMPLING		PRESERVATIVE	ANALYSES												SPECIAL INSTRUCTIONS/ COMMENTS				
			SIZE	TYPE	#	DATE	TIME																		
3	56650.111-98-1	2	9oz	G	1	5/11/97	12:18	N/A	X																
14	8650.112-98-1				1		12:20		X																
15	8650.113-98-1				1		13:00		X																
16	5665.114-98-1				1		13:32		X																
17	5665.115-98-1				1		13:49		X																
18	5665.116-98-1				1		13:22		X																
19	5665.118-98-1		2oz	G	1		13:22	Methanol		X															
20	5665.117-98-1		9oz		1		13:47	N/A		X															
21	5665.118-98-1				1		13:50			X															
22	5665.119-98-1				1		14:05			X															
23	5665.120-98-1				1		14:07			X															
24	5665.120-98-1		2oz	G	1		14:07	Methanol		X															
25	5665.120-98-1		3oz	G	1			N/A		X															

EMPLED BY: \_\_\_\_\_

DATE: 5-21-98 QUOTATION #: \_\_\_\_\_

TIME: \_\_\_\_\_

RELINQUISHED BY: \_\_\_\_\_

DATE: 5-21-98 RECEIVED BY: \_\_\_\_\_

TIME: \_\_\_\_\_

RELINQUISHED BY: \_\_\_\_\_

DATE: \_\_\_\_\_ RECEIVED FOR LAB BY: \_\_\_\_\_

TIME: \_\_\_\_\_

METHOD OF SHIPMENT \_\_\_\_\_ COOLER TEMPERATURE \_\_\_\_\_

72 hr. Turn Around

RUSH ..... BUSINESS DAY TURN AROUND

ROUTINE

Sample disposal information

Are there any other known or suspected contaminants in these samples other than those listed above?

Yes No If Yes, 1st Known

05-28-98 03:16PM FROM TOXIKON TO 12157024045 P017



15 Wiggins Ave., Bedford, MA 01730  
 Telephone: (781) 275-3330  
 Fax: (781) 275-7478

# CHAIN OF CUSTODY RECORD

3-OF-3

WORK ORDER #: 98-05-485  
 DUE DATE: 05-28-98

05-28-98 03:16PM FROM TOXIKON P018 NO 12157024045

COMPANY: Foster Wheeler Environ  
 ADDRESS: One Oxford Valley Suite 200  
Laghiore PA 19647  
 PHONE #: (215) 702-4045 FAX #: (215) 702-4045  
 P.O. #: \_\_\_\_\_  
 PROJECT MANAGER: Mike Heffrin  
 PROJECT ID/LOCATION: NW5-Earle

- SAMPLE TYPE CONTAINER TYPE
1. WASTEWATER P - PLASTIC
  2. SOIL G - GLASS
  3. SLUDGE V - VOA
  4. OIL
  5. DRINKING WATER
  6. WATER (GWMW/SW)
  7. OTHER (SPECIFY)

## ANALYSES

*Volatiles organic  
4000's  
TPH*

TOXIKON	SAMPLE IDENTIFICATION	SAMPLE TYPE	CONTAINER			SAMPLING		PRESERVATIVE	ANALYSES										SPECIAL INSTRUCTIONS/ COMMENTS						
			SIZE	TYPE	#	DATE	TIME		1	2	3	4	5	6	7	8	9	10		11	12				
26	566-Trip Blank-1	-	2oz	G	1	5/21/98		None	X	ML															
27	566-5/21-98-1	2	8oz	G	1	5/21/98	11:19	N/A		X															
28	566-Rinsal Blank-1	6	1L	G	1	5/21/98	15:00	H <sub>2</sub> SO <sub>4</sub>		X															
29	566-5/21-98-1	2	8oz	G	1	5/21/98	11:54	N/A		X															

SAMPLED BY: <i>[Signature]</i>	DATE: <u>5-21-98</u>	QUOTATION #:
	TIME: _____	
RELINQUISHED BY: <i>[Signature]</i>	DATE: <u>5-21-98</u>	RECEIVED BY:
	TIME: _____	
RELINQUISHED BY:	DATE: _____	RECEIVED FOR LAB BY:
	TIME: _____	
MODE OF SHIPMENT	COOLER TEMPERATURE	

72 hr. Turn around  
 RUSH ..... BUSINESS DAY TURN AROUND  
 ROUTINE  
 Sample disposal information  
 Are there any other known or suspected contaminants in these samples other than those listed above?  
 Yes No If Yes 1st Known