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NAVSTA NEWPORT RI
5090 3a

ID-00237
OUT #236

FOSTER WHEELER ENVIRONMENTAL CORPORATION

March 16, 1999

RECEIVED
APR - 5 1999

James Shaffer, Remedial Project Manager
U.S. Department of the Navy
Northern Division
Naval Facilities Engineering Command
10 Industrial Highway
Code 1823-Mail Stop 82
Lester, PA 19113-2090

45779

7368-4.11
RDADY-INFO&14
C: Parker

RE: Miscellaneous Investigations, Derecktor Shipyard, Naval Station (NAVSTA), Newport, Rhode Island

During a site walk of the former Derecktor Shipyard, held on January 21, 1999, with NORTDIV, RIDEM, NAVSTA, and Foster Wheeler in attendance, it was determined that further investigation activities would be required. The following is a summary of the investigation activities and their findings:

The investigation activities consisted of exposing a sump pit, S42-5 associated with Building 42 to determine the origins of inlet piping and if outlet piping exists, where does it discharge to. Exploratory trenching was done in an area northeast of Building 42 which was suspected to be the area of former disposal pits for bilge water. A test pit was excavated 7 foot south of monitoring well 09 where suspect reddish soils were located and soil samples were taken and analyzed for PCBs adjacent to a transformer pad south of Pier 1 and up-gradient and down-gradient from the Building 54, Substation 16 transformer pad.

The investigation of the Building 42 S42-5 sump pit was interrupted by high water elevation within the sump pit and the intrusion of that water into the excavation to expose the pit. This investigation is currently on hold while a plan is being developed to remove the water, inspect the interior, and send a transmitter through the piping to verify direction. This work plan will be submitted for review.

The exploratory trenching was completed on February 18, 1999. A total of 220 linear feet of trench was excavated within the suspected area. Monitoring was conducted through out the trenching searching for evidence of contamination. Four soil samples were collected from suspect areas and analyzed for VOCs 8260, SVOCs 8270, and TPH 8015. Of the four samples analyzed one sample exceeded the RIDEM Residential Direct Exposure Criteria for TPH and both had exceedances of the Residential standards for SVOCs. The TPH detection of 1,600 ppm exceeded the Residential Standard for TPH of 500 ppm. The disturbed area has been backfilled, seeded, and mulched.

A test pit was excavated 7 foot south of monitoring well 09. Between 6 inches to 1 foot below the ground surface, a layer of reddish soils was encountered. A jar headspace sample was taken and screened with an OVA. The OVA did not detect any volatile organic compounds above background. A sample was collected from these reddish soils and analyzed for VOCs 8260, SVOCs 8270, TPH, PCB 8082, Pesticides 8081, and Target Analyte List of 23 Metals 6010/7471. There were exceedances of the residential standards for metals.

A soil sample was collected adjacent to the transformer pad south of Pier 1 in the location identified during the January site walk. The sample was analyzed for PCBs 8082. Aroclor-1254 was detected at .1 ppm. The Residential standard is 10 ppm for PCBs. There was no exceedance of the Residential Standards.

Two soil samples were collected from the soils adjacent to the transformer pad associated with Building 54 Substation 16. The samples were analyzed for PCBs 8082. The down-gradient sample was non-detect for PCBs. The up-gradient sample had a detection of .039 ppm for Aroclor-1254, which did not exceed the 10 ppm Residential Standard.

Sincerely,

Jon Cary

Jon Cary
FWENC Site Manager

cc: Melissa Griffin, NAVSTA
Robert Krivinskas, NORTHDIV
Tom Gibison, NORTDIV
Art Holcomb, FWENC

NORTHDIV RAC INFORMATION SUBMITTAL

Prepare in quintuplicate (original and 4 copies)

CONTROL NO. 28

CONTRACT NO.	DELIVERY ORDER NO.	ACTIVITY LOCATION
N62472-D-0398	0013 C	NETC NEWPORT, RI

PROJECT TITLE: DERECKTOR SHIPYARD MISC. INVESTIGATIONS (TRANSFORMER PAD & BLDG #54, SUBSTA. #16

FROM: FOSTER WHEELER ENVIRONMENTAL / SQCM R. BEAUREGARD	DATE 2-23-99
TO: R. Krivinskas, ROICC	DATE 2-23-99

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COPY TO: [X] NETC M. GRIFFIN

[X] ROICC R. KRIVINSKAS [X] NTR T. GIBISON J. SHAFFER [X] COTR C. DAVIS

SIGNATURE AND DATE Roger F. Beauregard 2/23/99

FROM APPROVING AUTHORITY (#3 ABOVE)	DATE
TO R. Krivinskas, ROICC	DATE

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[ ] ROICC [ ] DESIGNER [ ] OTHER

SIGNATURE AND DATE

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TO FOSTER WHEELER ENVIRONMENTAL CORPORATION CONTRACTOR	DATE

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FOR COMMANDING OFFICER, NORTHERN DIVISION NAVAL FACILITIES ENGINEERING COMMAND — DATE

ITEM NO.	SUBMITTAL DESCRIPTION	PREPARED/SUBMITTED BY	APPROVED	DISAPPROVED	REMARKS
1	XMFR PAD & BLDG	R. BEAUREGARD			
	#54, SUBSTATION #16				
	SOIL ANALYSIS				
	(3 SAMPLES) & 3 DETECT TABLES				

ND96-078 11-24-98

* MITKEM REPORT #60208, 5 PAGES

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"Environmental Testing Into The Next Century"

175 Metro Center Boulevard
Warwick, Rhode Island 02886-1755
Phone: (401)-732-3400 Fax: (401)-732-3499

FACSIMILE COVER SHEET

TO: Andrew Prophete

FROM: Melissa

COMPANY: Foster Wheeler

DATE: 2/23/99

FAX NUMBER: 842-6970

NUMBER OF PAGES: 5
(Including cover sheet)

Enclosed are the analytical results for your project Task Force 5 Bldgs 6 + 179, NUWC.

Hard copies of the report will follow upon completion of final QA/QC review.

Please do not hesitate to call me if you should have any questions.

U.S. SBA 1997 MINORITY ENTERPRISE SPECIAL ACHIEVEMENT AWARD

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Warwick, Rhode Island 02886-1755
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email: mitkem@worldnet.att.net

CHAIN-OF-CUSTODY RECORD

REPORT TO		INVOICE TO		
COMPANY: Foster Wheeler	PHONE: 842-6940	COMPANY	PHONE	LAB PROJECT #: 60208
NAME: Andrew Prophete	FAX: 842-6970	NAME	FAX	
ADDRESS: 98 Defense Hwy		ADDRESS		TURNAROUND TIME: 72 hr
CITY/ST/ZIP: Middletown RI 02842		CITY/ST/ZIP		

CLIENT PROJECT NAME: D013 - DSY
CLIENT PROJECT #: D013
CLIENT P.O.#:

REQUESTED ANALYSES: PCB 8082

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE	GRAB	WATER	SOIL	OTHER	LAB ID	# OF CONTAINERS	PCB 8082	COMMENTS
TPSOIL01	2/16/99 1340				X		01	2	X	Transformer Pad
S16SOIL01	2/16/99 1400				X		02	2	X	Substation - up
S16SOIL02	2/16/99 1415				X		03	2	X	Substation - down

#	RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME
	Andrew Prophete	2/16/99 15:00	Gail Gaudet	2/16/99 15:30
			Nathan Reynolds	2/16/99 9:15

ADDITIONAL REMARKS:

COOLER TEMP:

WHITE: LABORATORY COPY YELLOW: REPORT COPY PINK: CLIENTS COPY

02/23/99 TUE 08:38 FAX 401 732 3499 MITKEM CORPORATION

MITKEM CORPORATION

Analysis Report: Polychlorinated Biphenyls (PCB)

Client: Foster Wheeler Environmental Corp.
Client ID: TPSOIL01
Lab ID: 60208001
Analysis: Method 8082

Analysis Date: 2/22/99
Matrix: Soil, 95% solids
Concentration in: ug/kg, dry weight basis
Dilution: 1

Analyte	Results	Reporting Limits
Aroclor-1016	ND	35
Aroclor-1221	ND	35
Aroclor-1232	ND	35
Aroclor-1242	ND	35
Aroclor-1248	ND	35
Aroclor-1254	100	35
Aroclor-1260	ND	35

QC Batch: B0218-BS2

Surrogate Recovery:

2,4,5,6-Tetrachloro-m-xylene	92%
Decachlorobiphenyl	71%

ND=Not Detected

MITKEM CORPORATION

Analysis Report: Polychlorinated Biphenyls (PCB)

Client: Foster Wheeler Environmental Corp.
Client ID: S16SOIL01
Lab ID: 60208002
Analysis: Method 8082

Analysis Date: 2/22/99
Matrix: Soil, 93% solids
Concentration in: ug/kg, dry weight basis
Dilution: 1

Analyte	Results	Reporting Limits
Aroclor-1016	ND	35
Aroclor-1221	ND	35
Aroclor-1232	ND	35
Aroclor-1242	ND	35
Aroclor-1248	ND	35
Aroclor-1254	ND	35
Aroclor-1260	ND	35

QC Batch: B0218-BS2

Surrogate Recovery:

2,4,5,6-Tetrachloro-m-xylene	98%
Decachlorobiphenyl	81%

ND=Not Detected

MITKEM CORPORATION

Analysis Report: Polychlorinated Biphenyls (PCB)

Client: Foster Wheeler Environmental Corp.
Client ID: S16SOIL02
Lab ID: 60208003
Analysis: Method 8082

Analysis Date: 2/22/99
Matrix: Soil, 97% solids
Concentration in: ug/kg, dry weight basis
Dilution: 1

Analyte	Results	Reporting Limits
Aroclor-1016	ND	34
Aroclor-1221	ND	34
Aroclor-1232	ND	34
Aroclor-1242	ND	34
Aroclor-1248	ND	34
Aroclor-1254	39	34
Aroclor-1260	ND	34

QC Batch: B0218-BS2

Surrogate Recovery:

2,4,5,6-Tetrachloro-m-xylene	92%
Decachlorobiphenyl	77%

ND=Not Detected

FOSTER WHEELER

FOSTER WHEELER ENVIRONMENTAL CORPORATION

DEREKTORS SHIPYARD
TRANSFORMER PAD AND SUBSTATION 16
INVESTIGATION SAMPLES
DETECTION TABLE

TPSOIL01 (Soil Sample)	
SUBSTANCE	FIELD ANALYTICAL DETECTIONS (mg/kg except as otherwise noted)
POLYCHLORINATED BIPHENYLS (PCB)	
Aroclor-1254	.1

References:

1. Analyticals TPSOIL01, S16SOIL01 and S16SOIL01 in Mitkem Lab Project #: 60208.
2. ND – Not Detected

S16SOIL01 (Soil Sample)	
SUBSTANCE	**FIELD ANALYTICAL DETECTIONS (mg/kg except as otherwise noted)**
POLYCHLORINATED BIPHENYLS (PCB)	
Aroclor-1254	ND

References:

1. Analyticals TPSOIL01, S16SOIL01 and S16SOIL01 in Mitkem Lab Project #: 60208.
2. ND – Not Detected

S16SOIL02 (Soil Sample)	
SUBSTANCE	**FIELD ANALYTICAL DETECTIONS (mg/kg except as otherwise noted)**
POLYCHLORINATED BIPHENYLS (PCB)	
Aroclor-1254	.39

References:

1. Analyticals TPSOIL01, S16SOIL01 and S16SOIL01 in Mitkem Lab Project #: 60208.
2. ND – Not Detected

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Tank Farm 5 Project
Portsmouth, R. I. 02842
(401) 842-6940 / FAX (401) 842-6970

Facsimile Transmittal

To:		Date:	2-23-99
From:	J. CARY / R. BEAUREGARD	Recipient's Fax #:	
Pages:	10 (includes cover sheet)	Charge #	

Message: * Urgent * For Your Review * Reply ASAP * Please Comment

ATTACHED IS DERECKTOR SHIPYARD AREA MISC. EXPLORATORY INVESTIGATION SOIL ANALYTICAL RESULTS. MITKEM REPORT # 60208 FOR YOUR REVIEW. SUBMITTAL # 28 (TRANSFORMER PAD SOIL SAMPLE TP SOIL 01 & BLDG. #54, SUBSTATION #16 SOIL SAMPLES S16 SOIL 01 & S16 SOIL 02).

- SUBMITTAL # 28 – 1 PAGE
- MITKEM REPORT # 60208 – 5 PAGES
- DETECT TABLES – 3 PAGES

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- Remediation Serv | ource Management
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- Waste Manageme | al Safety and Health

MASTER

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NORTHDIV RAC INFORMATION SUBMITTAL

Prepare in quintuplicate (original and 4 copies)
CONTROL NO. 32

CONTRACT NO. N62472-D-0398	DELIVERY ORDER NO. 0013 C	ACTIVITY LOCATION NETC NEWPORT, RI

PROJECT TITLE: B42 EXPLORATORY TRENCHING SOIL SMPL. & DERECKTOR MW-09 AREA SOIL SMPL.

FROM: FOSTER WHEELER ENVIRONMENTAL / SQCM R. BEAUREGARD	DATE 3-4-99
TO: R. Krivinskas, ROICC	DATE 3-4-99

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[X] ROICC R. KRIVINSKAS [X] NTR J. SAFFAN T. GIBISON } 1 COPY [ ]

SIGNATURE AND DATE Roger A. Beauregard 3/4/99

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TO R. Krivinskas, ROICC	DATE

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TO FOSTER WHEELER ENVIRONMENTAL CORPORATION CONTRACTOR	DATE

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FOR COMMANDING OFFICER, NORTHERN DIVISION NAVAL FACILITIES ENGINEERING COMMAND — DATE

ITEM NO.	SUBMITTAL DESCRIPTION	PREPARED/SUBMITTED BY	APPROVED	DISAPPROVED	REMARKS
1	B42 EXPLORATORY TRENCHING SOIL SAMPLES & DS4	R. BEAUREGARD			
	MW-09 SOIL SMPL.				
	MITKEM # 60219				

ND96-078 (001 → 043)
11-24-98

MITKEM CORPORATION

RECEIVED
MAR 03 1999

February 28, 1999

Foster Wheeler Environmental
98 T Defense Highway
Middletown, RI 02842
Attn: Mr. Jon Cary

RE: Client Project #: Derektor Shipyard, NUWC
Lab Project #: 60219

Dear Mr. Cary:

Enclosed please find the data report of the required analyses for the samples associated with the above referenced project. If you have any questions regarding this report, please call me.

We appreciate your business.

Sincerely,

Edward A. Lawler
Laboratory Operations Manager

175 Metro Center Boulevard • Warwick, Rhode Island 02886-1755 • (401) 732-3400 • Fax (401) 732-3499
email: mitkem@worldnet.att.net

MITKEM CORPORATION

Client: Foster Wheeler Environmental Corp.

Client Project: Derektor Shipyard, NUWC

Lab Project: 60219

Date samples received: 2/18/99

Project Narrative

This data report includes the analysis results for five (5) soil samples that were received from Foster Wheeler Environmental Corp. on February 18, 1999. Analyses were performed per specification in the Chain of Custody form. For reference, a copy of the Mitkem Sample Log-In form is included for cross-referencing the client sample ID and laboratory sample ID.

All of the analyses were performed according to method specifications. The values of one pesticide compound in sample MW09TP01 (Mitkem ID 60219002) has greater than a 40% difference between its concentration in the primary and confirmatory analyses. This value is flagged with a "P" on the data sheet. This is typically due to interference from non-target analytes in the samples, causing one value to be unusually high. This also indicates the increased likelihood of false-positive pesticide identification. The lower concentration between the primary and confirmatory concentrations is reported on the data sheet due to the presence of interferences.

No unusual occurrences were noted during sample analysis.

This data report has been reviewed and is authorized for release as evidenced by the signature below.

Edward A. Lawler
Laboratory Operations Manager

Data Flag/Qualifiers:

J This flag indicates an estimated value due to either
- the compound was detected at below the Reporting Limit, or
- estimated concentration for Tentatively Identified Compound

B For organic analyses, this flag indicates the analyte was also detected in the associated Method Blank. The B flag has an alternative meaning for CLP-type metals analyses, indicating a "trace" concentration below the normal reporting limit and above the detection limit.

D This flag indicates the analyte concentration was obtained from a diluted analysis

E This flag indicates the analyte concentration exceeded the Calibration Range

P This flag is used for Pesticides/PCB/Herbicide analyte when there is a greater than 40% difference for detected concentration between the two GC columns used for Primary and Confirmation analyses. This difference typically indicates an interference, causing one value to be unusually high. The **lower** of the two values is reported in the Analysis Report.

MITKEM CORPORATION

Analysis Report: Total Petroleum Hydrocarbons

Client: Foster Wheeler Environmental Corp.
Analysis: Method 8100M / 8015M
Matrix: Soil

Concentration in: mg/kg, dry weight basis

Lab ID	Client ID	Result	Reporting Limit	% Solid	p-Terphenyl Surrogate Recovery %	Analysis Date
60219001	DPSOIL01	1,600	79	84	64	2/24/99
60219002	MW09TP01	55	15	91	69	2/24/99
60219003	DPSOIL02	ND	15	85	72	2/24/99
60219004	DPSOIL03	ND	14	91	42	2/24/99
60219005	DPSOIL04	100	14	95	84	2/24/99

QA/QC

Method Blank				
F0222-BS1	ND	13	72	2/24/99
Lab Control Sample (% Recovery)				
F0222-LS1	64		55	2/24/99

ND = Not Detected

The samples were quantitated using diesel fuel as standard.

MITKEM CORPORATION

Analysis Report: Volatile Organic Compounds

Client: Foster Wheeler Environmental Corp.
Client ID: DPSOIL01
Lab ID: 60219001
Analysis: Method 8260B

Analysis Date: 2/23/99
Matrix: Soil, 84% solids
Concentration in: ug/kg, dry weight basis
Dilution: 10

Analyte	Results	Reporting Limits
Dichlorodifluoromethane	ND	60
Chloromethane	ND	60
Vinyl chloride	ND	60
Bromomethane	ND	60
Chloroethane	ND	60
Trichlorofluoromethane	ND	60
1,1-Dichloroethene	ND	60
Carbon disulfide	ND	60
Iodomethane	ND	60
Acetone	100	60
Methylene chloride	ND	60
trans-1,2-Dichloroethene	ND	60
1,1-Dichloroethane	ND	60
Vinyl acetate	ND	60
2,2-Dichloropropane	ND	60
cis-1,2-Dichloroethene	ND	60
Methyl ethyl ketone	ND	60
Bromochloromethane	ND	60
Chloroform	ND	60
1,1,1-Trichloroethane	ND	60
Carbon tetrachloride	ND	60
1,1-Dichloropropene	ND	60
Benzene	ND	60
1,2-Dichloroethane	ND	60
Trichloroethene	ND	60
1,2-Dichloropropane	ND	60
Dibromomethane	ND	60
Bromodichloromethane	ND	60
2-Chloroethyl vinyl ether	ND	60
cis-1,3-Dichloropropene	ND	60
4-Methyl-2-pentanone	ND	60
Toluene	ND	60

MITKEM CORPORATION

Client ID: DPSOIL01

Lab ID: 60219001

Analyte	Results	Reporting Limits
trans-1,3-Dichloropropene	ND	60
1,1,2-Trichloroethane	ND	60
Tetrachloroethene	ND	60
1,3-Dichloropropane	ND	60
2-Hexanone	ND	60
Dibromochloromethane	ND	60
1,2-Dibromoethane (EDB)	ND	60
Chlorobenzene	ND	60
1,1,1,2-Tetrachloroethane	ND	60
Ethylbenzene	ND	60
Xylenes, total	ND	60
Styrene	ND	60
Bromoform	ND	60
Isopropylbenzene	ND	60
Bromobenzene	ND	60
1,1,2,2-Tetrachloroethane	ND	60
1,2,3-Trichloropropane	ND	60
n-Propylbenzene	ND	60
2-Chlorotoluene	ND	60
4-Chlorotoluene	ND	60
1,3,5-Trimethylbenzene	ND	60
tert-Butylbenzene	ND	60
1,2,4-Trimethylbenzene	ND	60
sec-Butylbenzene	ND	60
1,3-Dichlorobenzene	ND	60
4-Isopropyltoluene	ND	60
1,4-Dichlorobenzene	ND	60
1,2-Dichlorobenzene	ND	60
n-Butylbenzene	ND	60
1,2-Dibromo-3-chloropropane	ND	60
1,2,4-Trichlorobenzene	ND	60
Hexachlorobutadiene	ND	60
1,2,3-Trichlorobenzene	ND	60
MTBE	ND	60
Naphthalene	ND	60

QC Batch: V5B0223A

Surrogate Recovery:	
1,2-Dichloroethane-d4	91%
Toluene-d8	84%
Bromofluorobenzene	104%

ND = Not Detected

MITKEM CORPORATION

Analysis Report: Volatile Organic Compounds

Client: Foster Wheeler Environmental Corp.
Client ID: MW09TP01
Lab ID: 60219002
Analysis: Method 8260B

Analysis Date: 2/23/99
Matrix: Soil, 91% solids
Concentration in: ug/kg, dry weight basis
Dilution: 1

Analyte	Results	Reporting Limits
Dichlorodifluoromethane	ND	5
Chloromethane	ND	5
Vinyl chloride	ND	5
Bromomethane	ND	5
Chloroethane	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
Carbon disulfide	ND	5
Iodomethane	ND	5
Acetone	7	5
Methylene chloride	ND	5
trans-1,2-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
Vinyl acetate	ND	5
2,2-Dichloropropane	ND	5
cis-1,2-Dichloroethene	ND	5
Methyl ethyl ketone	ND	5
Bromochloromethane	ND	5
Chloroform	ND	5
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
1,1-Dichloropropene	ND	5
Benzene	ND	5
1,2-Dichloroethane	ND	5
Trichloroethene	ND	5
1,2-Dichloropropane	ND	5
Dibromomethane	ND	5
Bromodichloromethane	ND	5
2-Chloroethyl vinyl ether	ND	5
cis-1,3-Dichloropropene	ND	5
4-Methyl-2-pentanone	ND	5
Toluene	ND	5

MITKEM CORPORATION

Client ID: MW09TP01 Lab ID: 60219002

Analyte	Results	Reporting Limits
trans-1,3-Dichloropropene	ND	5
1,1,2-Trichloroethane	ND	5
Tetrachloroethene	ND	5
1,3-Dichloropropane	ND	5
2-Hexanone	ND	5
Dibromochloromethane	ND	5
1,2-Dibromoethane (EDB)	ND	5
Chlorobenzene	ND	5
1,1,1,2-Tetrachloroethane	ND	5
Ethylbenzene	ND	5
Xylenes, total	ND	5
Styrene	ND	5
Bromoform	ND	5
Isopropylbenzene	ND	5
Bromobenzene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
1,2,3-Trichloropropane	ND	5
n-Propylbenzene	ND	5
2-Chlorotoluene	ND	5
4-Chlorotoluene	ND	5
1,3,5-Trimethylbenzene	ND	5
tert-Butylbenzene	ND	5
1,2,4-Trimethylbenzene	ND	5
sec-Butylbenzene	ND	5
1,3-Dichlorobenzene	ND	5
4-Isopropyltoluene	ND	5
1,4-Dichlorobenzene	ND	5
1,2-Dichlorobenzene	ND	5
n-Butylbenzene	ND	5
1,2-Dibromo-3-chloropropane	ND	5
1,2,4-Trichlorobenzene	ND	5
Hexachlorobutadiene	ND	5
1,2,3-Trichlorobenzene	ND	5
MTBE	ND	5
Naphthalene	ND	5

QC Batch: V5B0223A

Surrogate Recovery:	
1,2-Dichloroethane-d4	95%
Toluene-d8	81%
Bromofluorobenzene	119%

ND = Not Detected

MITKEM CORPORATION

Analysis Report: Volatile Organic Compounds

Client: Foster Wheeler Environmental Corp.
Client ID: DPSOIL02
Lab ID: 60219003
Analysis: Method 8260B

Analysis Date: 2/23/99
Matrix: Soil, 85% solids
Concentration in: ug/kg, dry weight basis
Dilution: 1

Analyte	Results	Reporting Limits
Dichlorodifluoromethane	ND	6
Chloromethane	ND	6
Vinyl chloride	ND	6
Bromomethane	ND	6
Chloroethane	ND	6
Trichlorofluoromethane	ND	6
1,1-Dichloroethene	ND	6
Carbon disulfide	ND	6
Iodomethane	ND	6
Acetone	7	6
Methylene chloride	ND	6
trans-1,2-Dichloroethene	ND	6
1,1-Dichloroethane	ND	6
Vinyl acetate	ND	6
2,2-Dichloropropane	ND	6
cis-1,2-Dichloroethene	ND	6
Methyl ethyl ketone	ND	6
Bromochloromethane	ND	6
Chloroform	ND	6
1,1,1-Trichloroethane	ND	6
Carbon tetrachloride	ND	6
1,1-Dichloropropene	ND	6
Benzene	ND	6
1,2-Dichloroethane	ND	6
Trichloroethene	ND	6
1,2-Dichloropropane	ND	6
Dibromomethane	ND	6
Bromodichloromethane	ND	6
2-Chloroethyl vinyl ether	ND	6
cis-1,3-Dichloropropene	ND	6
4-Methyl-2-pentanone	ND	6
Toluene	ND	6

MITKEM CORPORATION

Client ID: DPSOIL02 Lab ID: 60219003

Analyte	Results	Reporting Limits
trans-1,3-Dichloropropene	ND	6
1,1,2-Trichloroethane	ND	6
Tetrachloroethene	ND	6
1,3-Dichloropropane	ND	6
2-Hexanone	ND	6
Dibromochloromethane	ND	6
1,2-Dibromoethane (EDB)	ND	6
Chlorobenzene	ND	6
1,1,1,2-Tetrachloroethane	ND	6
Ethylbenzene	ND	6
Xylenes, total	ND	6
Styrene	ND	6
Bromoform	ND	6
Isopropylbenzene	ND	6
Bromobenzene	ND	6
1,1,2,2-Tetrachloroethane	ND	6
1,2,3-Trichloropropane	ND	6
n-Propylbenzene	ND	6
2-Chlorotoluene	ND	6
4-Chlorotoluene	ND	6
1,3,5-Trimethylbenzene	ND	6
tert-Butylbenzene	ND	6
1,2,4-Trimethylbenzene	ND	6
sec-Butylbenzene	ND	6
1,3-Dichlorobenzene	ND	6
4-Isopropyltoluene	ND	6
1,4-Dichlorobenzene	ND	6
1,2-Dichlorobenzene	ND	6
n-Butylbenzene	ND	6
1,2-Dibromo-3-chloropropane	ND	6
1,2,4-Trichlorobenzene	ND	6
Hexachlorobutadiene	ND	6
1,2,3-Trichlorobenzene	ND	6
MTBE	ND	6
Naphthalene	ND	6

QC Batch: V5B0223A

Surrogate Recovery:	
1,2-Dichloroethane-d4	103%
Toluene-d8	82%
Bromofluorobenzene	138%

ND = Not Detected

MITKEM CORPORATION

Analysis Report: Volatile Organic Compounds

Client: Foster Wheeler Environmental Corp.
Client ID: DPSOIL03
Lab ID: 60219004
Analysis: Method 8260B

Analysis Date: 2/23/99
Matrix: Soil, 91% solids
Concentration in: ug/kg, dry weight basis
Dilution: 1

Analyte	Results	Reporting Limits
Dichlorodifluoromethane	ND	5
Chloromethane	ND	5
Vinyl chloride	ND	5
Bromomethane	ND	5
Chloroethane	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
Carbon disulfide	ND	5
Iodomethane	ND	5
Acetone	5	5
Methylene chloride	ND	5
trans-1,2-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
Vinyl acetate	ND	5
2,2-Dichloropropane	ND	5
cis-1,2-Dichloroethene	ND	5
Methyl ethyl ketone	ND	5
Bromochloromethane	ND	5
Chloroform	ND	5
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
1,1-Dichloropropene	ND	5
Benzene	ND	5
1,2-Dichloroethane	ND	5
Trichloroethene	ND	5
1,2-Dichloropropane	ND	5
Dibromomethane	ND	5
Bromodichloromethane	ND	5
2-Chloroethyl vinyl ether	ND	5
cis-1,3-Dichloropropene	ND	5
4-Methyl-2-pentanone	ND	5
Toluene	ND	5

MITKEM CORPORATION

Client ID: DPSOIL03 Lab ID: 60219004

Analyte	Results	Reporting Limits
trans-1,3-Dichloropropene	ND	5
1,1,2-Trichloroethane	ND	5
Tetrachloroethene	ND	5
1,3-Dichloropropane	ND	5
2-Hexanone	ND	5
Dibromochloromethane	ND	5
1,2-Dibromoethane (EDB)	ND	5
Chlorobenzene	ND	5
1,1,1,2-Tetrachloroethane	ND	5
Ethylbenzene	ND	5
Xylenes, total	ND	5
Styrene	ND	5
Bromoform	ND	5
Isopropylbenzene	ND	5
Bromobenzene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
1,2,3-Trichloropropane	ND	5
n-Propylbenzene	ND	5
2-Chlorotoluene	ND	5
4-Chlorotoluene	ND	5
1,3,5-Trimethylbenzene	ND	5
tert-Butylbenzene	ND	5
1,2,4-Trimethylbenzene	ND	5
sec-Butylbenzene	ND	5
1,3-Dichlorobenzene	ND	5
4-Isopropyltoluene	ND	5
1,4-Dichlorobenzene	ND	5
1,2-Dichlorobenzene	ND	5
n-Butylbenzene	ND	5
1,2-Dibromo-3-chloropropane	ND	5
1,2,4-Trichlorobenzene	ND	5
Hexachlorobutadiene	ND	5
1,2,3-Trichlorobenzene	ND	5
MTBE	ND	5
Naphthalene	ND	5

QC Batch: V5B0223A

Surrogate Recovery:	
1,2-Dichloroethane-d4	93%
Toluene-d8	86%
Bromofluorobenzene	114%

ND = Not Detected

MITKEM CORPORATION

Analysis Report: Volatile Organic Compounds

Client: Foster Wheeler Environmental Corp.
Client ID: DPSOIL04
Lab ID: 60219005
Analysis: Method 8260B

Analysis Date: 2/23/99
Matrix: Soil, 95% solids
Concentration in: ug/kg, dry weight basis
Dilution: 1

Analyte	Results	Reporting Limits
Dichlorodifluoromethane	ND	5
Chloromethane	ND	5
Vinyl chloride	ND	5
Bromomethane	ND	5
Chloroethane	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
Carbon disulfide	ND	5
Iodomethane	ND	5
Acetone	8	5
Methylene chloride	ND	5
trans-1,2-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
Vinyl acetate	ND	5
2,2-Dichloropropane	ND	5
cis-1,2-Dichloroethene	ND	5
Methyl ethyl ketone	ND	5
Bromochloromethane	ND	5
Chloroform	ND	5
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
1,1-Dichloropropene	ND	5
Benzene	ND	5
1,2-Dichloroethane	ND	5
Trichloroethene	ND	5
1,2-Dichloropropane	ND	5
Dibromomethane	ND	5
Bromodichloromethane	ND	5
2-Chloroethyl vinyl ether	ND	5
cis-1,3-Dichloropropene	ND	5
4-Methyl-2-pentanone	ND	5
Toluene	ND	5

MITKEM CORPORATION

Client ID: DPSOIL04

Lab ID: 60219005

Analyte	Results	Reporting Limits
trans-1,3-Dichloropropene	ND	5
1,1,2-Trichloroethane	ND	5
Tetrachloroethene	ND	5
1,3-Dichloropropane	ND	5
2-Hexanone	ND	5
Dibromochloromethane	ND	5
1,2-Dibromoethane (EDB)	ND	5
Chlorobenzene	ND	5
1,1,1,2-Tetrachloroethane	ND	5
Ethylbenzene	ND	5
Xylenes, total	ND	5
Styrene	ND	5
Bromoform	ND	5
Isopropylbenzene	ND	5
Bromobenzene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
1,2,3-Trichloropropane	ND	5
n-Propylbenzene	ND	5
2-Chlorotoluene	ND	5
4-Chlorotoluene	ND	5
1,3,5-Trimethylbenzene	ND	5
tert-Butylbenzene	ND	5
1,2,4-Trimethylbenzene	ND	5
sec-Butylbenzene	ND	5
1,3-Dichlorobenzene	ND	5
4-Isopropyltoluene	ND	5
1,4-Dichlorobenzene	ND	5
1,2-Dichlorobenzene	ND	5
n-Butylbenzene	ND	5
1,2-Dibromo-3-chloropropane	ND	5
1,2,4-Trichlorobenzene	ND	5
Hexachlorobutadiene	ND	5
1,2,3-Trichlorobenzene	ND	5
MTBE	ND	5
Naphthalene	ND	5

QC Batch: V5B0223A

Surrogate Recovery:	
1,2-Dichloroethane-d4	89%
Toluene-d8	85%
Bromofluorobenzene	115%

ND = Not Detected

MITKEM CORPORATION

Analysis Report: Volatile Organic Compounds

Client: Foster Wheeler Environmental Corp.
Client ID:
Lab ID: Method Blank, V5B0223A
Analysis: Method 8260B

Analysis Date: 2/23/99
Matrix: Solid
Concentration in: ug/kg
Dilution: 1

Analyte	Results	Reporting Limits
Dichlorodifluoromethane	ND	5
Chloromethane	ND	5
Vinyl chloride	ND	5
Bromomethane	ND	5
Chloroethane	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
Carbon disulfide	ND	5
Iodomethane	ND	5
Acetone	ND	5
Methylene chloride	ND	5
trans-1,2-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
Vinyl acetate	ND	5
2,2-Dichloropropane	ND	5
cis-1,2-Dichloroethene	ND	5
Methyl ethyl ketone	ND	5
Bromochloromethane	ND	5
Chloroform	ND	5
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
1,1-Dichloropropene	ND	5
Benzene	ND	5
1,2-Dichloroethane	ND	5
Trichloroethene	ND	5
1,2-Dichloropropane	ND	5
Dibromomethane	ND	5
Bromodichloromethane	ND	5
2-Chloroethyl vinyl ether	ND	5
cis-1,3-Dichloropropene	ND	5
4-Methyl-2-pentanone	ND	5
Toluene	ND	5

MITKEM CORPORATION

Client ID: Lab ID: Method Blank, V5B0223A

Analyte	Results	Reporting Limits
trans-1,3-Dichloropropene	ND	5
1,1,2-Trichloroethane	ND	5
Tetrachloroethene	ND	5
1,3-Dichloropropane	ND	5
2-Hexanone	ND	5
Dibromochloromethane	ND	5
1,2-Dibromoethane (EDB)	ND	5
Chlorobenzene	ND	5
1,1,1,2-Tetrachloroethane	ND	5
Ethylbenzene	ND	5
Xylenes, total	ND	5
Styrene	ND	5
Bromoform	ND	5
Isopropylbenzene	ND	5
Bromobenzene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
1,2,3-Trichloropropane	ND	5
n-Propylbenzene	ND	5
2-Chlorotoluene	ND	5
4-Chlorotoluene	ND	5
1,3,5-Trimethylbenzene	ND	5
tert-Butylbenzene	ND	5
1,2,4-Trimethylbenzene	ND	5
sec-Butylbenzene	ND	5
1,3-Dichlorobenzene	ND	5
4-Isopropyltoluene	ND	5
1,4-Dichlorobenzene	ND	5
1,2-Dichlorobenzene	ND	5
n-Butylbenzene	ND	5
1,2-Dibromo-3-chloropropane	ND	5
1,2,4-Trichlorobenzene	ND	5
Hexachlorobutadiene	ND	5
1,2,3-Trichlorobenzene	ND	5
MTBE	ND	5
Naphthalene	ND	5

QC Batch: V5B0223A

Surrogate Recovery:	
1,2-Dichloroethane-d4	91%
Toluene-d8	86%
Bromofluorobenzene	119%

ND = Not Detected

MITKEM CORPORATION

Analysis Report: Semivolatile Organic Compounds

Client:	Foster Wheeler Environmental Corp.	Analysis Date:	2/23/99
Client ID:	DPSOIL01	Matrix:	Soil, 84% solids
Lab ID:	60219001	Analysis:	Method 8270C
Dilution:	1	Concentration in:	ug/kg, dry weight basis

Analyte	Results	Reporting Limits
Phenol	ND	390
bis(2-Chloroethyl)ether	ND	390
2-Chlorophenol	ND	390
1,3-Dichlorobenzene	ND	390
1,4-Dichlorobenzene	ND	390
1,2-Dichlorobenzene	ND	390
2-Methylphenol	ND	390
2,2'-oxybis(1-Chloropropane)	ND	390
4-Methylphenol	ND	390
n-Nitroso-di-n-propylamine	ND	390
Hexachloroethane	ND	390
Nitrobenzene	ND	390
Isophorone	ND	390
2-Nitrophenol	ND	390
2,4-Dimethylphenol	ND	390
bis(2-Chloroethoxy)methane	ND	390
2,4-Dichlorophenol	ND	390
1,2,4-Trichlorobenzene	ND	390
Naphthalene	440	390
4-Chloroaniline	ND	390
Hexachlorobutadiene	ND	390
4-Chloro-3-methylphenol	ND	390
2-Methylnaphthalene	120 J	390
Hexachlorocyclopentadiene	ND	390
2,4,6-Trichlorophenol	ND	390
2,4,5-Trichlorophenol	ND	800
2-Chloronaphthalene	ND	390
2-Nitroaniline	ND	800
Dimethylphthalate	ND	390
Acenaphthylene	ND	390
2,6-Dinitrotoluene	ND	390
3-Nitroaniline	ND	800
Acenaphthene	560	390
2,4-Dinitrophenol	ND	800
4-Nitrophenol	ND	800
Dibenzofuran	230 J	390
2,4-Dinitrotoluene	ND	390

MITKEM CORPORATION

Client ID: DPSOIL01 Lab ID: 60219001

Analyte	Results	Reporting Limits
Diethylphthalate	ND	390
Fluorene	490	390
4-Chlorophenyl-phenylether	ND	390
4-Nitroaniline	ND	800
4,6-Dinitro-2-methylphenol	ND	800
n-Nitrosodiphenylamine	ND	390
4-Bromophenyl-phenylether	ND	390
Hexachlorobenzene	ND	390
Pentachlorophenol	ND	800
Phenanthrene	2,500	390
Anthracene	860	390
Di-n-butylphthalate	ND	390
Carbazole	1,000	390
Fluoranthene	3,000	390
Pyrene	2,000	390
Butylbenzylphthalate	ND	390
Benzo(a)anthracene	1,200	390
Chrysene	1,100	390
3,3'-Dichlorobenzidine	ND	390
bis(2-Ethylhexyl)phthalate	ND	390
Di-n-octylphthalate	ND	390
Benzo(b)fluoranthene	1,300	390
Benzo(k)fluoranthene	650	390
Benzo(a)pyrene	1,000	390
Indeno(1,2,3-cd)pyrene	390 J	390
Dibenz(a,h)anthracene	150 J	390
Benzo(g,h,i)perylene	400	390

QC Batch: S0222-BS1

Surrogate Recovery:	
2-Fluorophenol	64%
Phenol-d5	69%
2-Chlorophenol-d4	70%
2,4,6-Tribromophenol	69%
1,2-Dichlorobenzene-d4	75%
Nitrobenzene-d5	70%
2-Fluorobiphenyl	76%
p-Terphenyl-d14	74%

ND = Not detected

017

MITKEM CORPORATION

Analysis Report: Semivolatile Organic Compounds

Client:	Foster Wheeler Environmental Corp.	Analysis Date:	2/23/99
Client ID:	MW09TP01	Matrix:	Soil, 91% solids
Lab ID:	60219002	Analysis:	Method 8270C
Dilution:	1	Concentration in:	ug/kg, dry weight basis

Analyte	Results	Reporting Limits
Phenol	ND	360
bis(2-Chloroethyl)ether	ND	360
2-Chlorophenol	ND	360
1,3-Dichlorobenzene	ND	360
1,4-Dichlorobenzene	ND	360
1,2-Dichlorobenzene	ND	360
2-Methylphenol	ND	360
2,2'-oxybis(1-Chloropropane)	ND	360
4-Methylphenol	ND	360
n-Nitroso-di-n-propylamine	ND	360
Hexachloroethane	ND	360
Nitrobenzene	ND	360
Isophorone	ND	360
2-Nitrophenol	ND	360
2,4-Dimethylphenol	ND	360
bis(2-Chloroethoxy)methane	ND	360
2,4-Dichlorophenol	ND	360
1,2,4-Trichlorobenzene	ND	360
Naphthalene	ND	360
4-Chloroaniline	ND	360
Hexachlorobutadiene	ND	360
4-Chloro-3-methylphenol	ND	360
2-Methylnaphthalene	ND	360
Hexachlorocyclopentadiene	ND	360
2,4,6-Trichlorophenol	ND	360
2,4,5-Trichlorophenol	ND	740
2-Chloronaphthalene	ND	360
2-Nitroaniline	ND	740
Dimethylphthalate	ND	360
Acenaphthylene	ND	360
2,6-Dinitrotoluene	ND	360
3-Nitroaniline	ND	740
Acenaphthene	ND	360
2,4-Dinitrophenol	ND	740
4-Nitrophenol	ND	740
Dibenzofuran	ND	360
2,4-Dinitrotoluene	ND	360

018

MITKEM CORPORATION

Client ID: MW09TP01 Lab ID: 60219002

Analyte	Results	Reporting Limits
Diethylphthalate	ND	360
Fluorene	ND	360
4-Chlorophenyl-phenylether	ND	360
4-Nitroaniline	ND	740
4,6-Dinitro-2-methylphenol	ND	740
n-Nitrosodiphenylamine	ND	360
4-Bromophenyl-phenylether	ND	360
Hexachlorobenzene	ND	360
Pentachlorophenol	ND	740
Phenanthrene	70 J	360
Anthracene	ND	360
Di-n-butylphthalate	47 J	360
Carbazole	ND	360
Fluoranthene	180 J	360
Pyrene	160 J	360
Butylbenzylphthalate	ND	360
Benzo(a)anthracene	110 J	360
Chrysene	120 J	360
3,3'-Dichlorobenzidine	ND	360
bis(2-Ethylhexyl)phthalate	3,000	360
Di-n-octylphthalate	370	360
Benzo(b)fluoranthene	140 J	360
Benzo(k)fluoranthene	76 J	360
Benzo(a)pyrene	100 J	360
Indeno(1,2,3-cd)pyrene	48 J	360
Dibenz(a,h)anthracene	ND	360
Benzo(g,h,i)perylene	48 J	360

QC Batch: S0222-BS1

Surrogate Recovery:	
2-Fluorophenol	71%
Phenol-d5	76%
2-Chlorophenol-d4	76%
2,4,6-Tribromophenol	79%
1,2-Dichlorobenzene-d4	77%
Nitrobenzene-d5	80%
2-Fluorobiphenyl	82%
p-Terphenyl-d14	81%

ND = Not detected

019

MITKEM CORPORATION

Analysis Report: Semivolatile Organic Compounds

Client:	Foster Wheeler Environmental Corp.	Analysis Date:	2/23/99
Client ID:	DPSOIL02	Matrix:	Soil, 85% solids
Lab ID:	60219003	Analysis:	Method 8270C
Dilution:	1	Concentration in:	ug/kg, dry weight basis

Analyte	Results	Reporting Limits
Phenol	ND	390
bis(2-Chloroethyl)ether	ND	390
2-Chlorophenol	ND	390
1,3-Dichlorobenzene	ND	390
1,4-Dichlorobenzene	ND	390
1,2-Dichlorobenzene	ND	390
2-Methylphenol	ND	390
2,2'-oxybis(1-Chloropropane)	ND	390
4-Methylphenol	ND	390
n-Nitroso-di-n-propylamine	ND	390
Hexachloroethane	ND	390
Nitrobenzene	ND	390
Isophorone	ND	390
2-Nitrophenol	ND	390
2,4-Dimethylphenol	ND	390
bis(2-Chloroethoxy)methane	ND	390
2,4-Dichlorophenol	ND	390
1,2,4-Trichlorobenzene	ND	390
Naphthalene	77 J	390
4-Chloroaniline	ND	390
Hexachlorobutadiene	ND	390
4-Chloro-3-methylphenol	ND	390
2-Methylnaphthalene	ND	390
Hexachlorocyclopentadiene	ND	390
2,4,6-Trichlorophenol	ND	390
2,4,5-Trichlorophenol	ND	790
2-Chloronaphthalene	ND	390
2-Nitroaniline	ND	790
Dimethylphthalate	ND	390
Acenaphthylene	ND	390
2,6-Dinitrotoluene	ND	390
3-Nitroaniline	ND	790
Acenaphthene	ND	390
2,4-Dinitrophenol	ND	790
4-Nitrophenol	ND	790
Dibenzofuran	ND	390
2,4-Dinitrotoluene	ND	390

MITKEM CORPORATION

Client ID: DPSOIL02 Lab ID: 60219003

Analyte	Results	Reporting Limits
Diethylphthalate	ND	390
Fluorene	ND	390
4-Chlorophenyl-phenylether	ND	390
4-Nitroaniline	ND	790
4,6-Dinitro-2-methylphenol	ND	790
n-Nitrosodiphenylamine	ND	390
4-Bromophenyl-phenylether	ND	390
Hexachlorobenzene	ND	390
Pentachlorophenol	ND	790
Phenanthrene	63 J	390
Anthracene	ND	390
Di-n-butylphthalate	ND	390
Carbazole	ND	390
Fluoranthene	84 J	390
Pyrene	58 J	390
Butylbenzylphthalate	ND	390
Benzo(a)anthracene	ND	390
Chrysene	ND	390
3,3'-Dichlorobenzidine	ND	390
bis(2-Ethylhexyl)phthalate	160 J	390
Di-n-octylphthalate	48 J	390
Benzo(b)fluoranthene	ND	390
Benzo(k)fluoranthene	ND	390
Benzo(a)pyrene	ND	390
Indeno(1,2,3-cd)pyrene	ND	390
Dibenz(a,h)anthracene	ND	390
Benzo(g,h,i)perylene	ND	390

QC Batch: S0222-BS1

Surrogate Recovery:	
2-Fluorophenol	62%
Phenol-d5	67%
2-Chlorophenol-d4	64%
2,4,6-Tribromophenol	74%
1,2-Dichlorobenzene-d4	70%
Nitrobenzene-d5	69%
2-Fluorobiphenyl	52%
p-Terphenyl-d14	36%

ND = Not detected

MITKEM CORPORATION

Analysis Report: Semivolatile Organic Compounds

Client:	Foster Wheeler Environmental Corp.	Analysis Date:	2/23/99
Client ID:	DPSOIL03	Matrix:	Soil, 91% solids
Lab ID:	60219004	Analysis:	Method 8270C
Dilution:	1	Concentration in:	ug/kg, dry weight basis

Analyte	Results	Reporting Limits
Phenol	ND	360
bis(2-Chloroethyl)ether	ND	360
2-Chlorophenol	ND	360
1,3-Dichlorobenzene	ND	360
1,4-Dichlorobenzene	ND	360
1,2-Dichlorobenzene	ND	360
2-Methylphenol	ND	360
2,2'-oxybis(1-Chloropropane)	ND	360
4-Methylphenol	ND	360
n-Nitroso-di-n-propylamine	ND	360
Hexachloroethane	ND	360
Nitrobenzene	ND	360
Isophorone	ND	360
2-Nitrophenol	ND	360
2,4-Dimethylphenol	ND	360
bis(2-Chloroethoxy)methane	ND	360
2,4-Dichlorophenol	ND	360
1,2,4-Trichlorobenzene	ND	360
Naphthalene	ND	360
4-Chloroaniline	ND	360
Hexachlorobutadiene	ND	360
4-Chloro-3-methylphenol	ND	360
2-Methylnaphthalene	ND	360
Hexachlorocyclopentadiene	ND	360
2,4,6-Trichlorophenol	ND	360
2,4,5-Trichlorophenol	ND	740
2-Chloronaphthalene	ND	360
2-Nitroaniline	ND	740
Dimethylphthalate	ND	360
Acenaphthylene	ND	360
2,6-Dinitrotoluene	ND	360
3-Nitroaniline	ND	740
Acenaphthene	ND	360
2,4-Dinitrophenol	ND	740
4-Nitrophenol	ND	740
Dibenzofuran	ND	360
2,4-Dinitrotoluene	ND	360

022

MITKEM CORPORATION

Client ID: DPSOIL03 Lab ID: 60219004

Analyte	Results	Reporting Limits
Diethylphthalate	ND	360
Fluorene	ND	360
4-Chlorophenyl-phenylether	ND	360
4-Nitroaniline	ND	740
4,6-Dinitro-2-methylphenol	ND	740
n-Nitrosodiphenylamine	ND	360
4-Bromophenyl-phenylether	ND	360
Hexachlorobenzene	ND	360
Pentachlorophenol	ND	740
Phenanthrene	ND	360
Anthracene	ND	360
Di-n-butylphthalate	ND	360
Carbazole	ND	360
Fluoranthene	ND	360
Pyrene	ND	360
Butylbenzylphthalate	ND	360
Benzo(a)anthracene	ND	360
Chrysene	ND	360
3,3'-Dichlorobenzidine	ND	360
bis(2-Ethylhexyl)phthalate	ND	360
Di-n-octylphthalate	ND	360
Benzo(b)fluoranthene	ND	360
Benzo(k)fluoranthene	ND	360
Benzo(a)pyrene	ND	360
Indeno(1,2,3-cd)pyrene	ND	360
Dibenz(a,h)anthracene	ND	360
Benzo(g,h,i)perylene	ND	360

QC Batch: S0222-BS1

Surrogate Recovery:	
2-Fluorophenol	68%
Phenol-d5	71%
2-Chlorophenol-d4	74%
2,4,6-Tribromophenol	76%
1,2-Dichlorobenzene-d4	73%
Nitrobenzene-d5	74%
2-Fluorobiphenyl	74%
p-Terphenyl-d14	77%

ND = Not detected

023

MITKEM CORPORATION

Analysis Report: Semivolatile Organic Compounds

Client:	Foster Wheeler Environmental Corp.	Analysis Date:	2/23/99
Client ID:	DPSOIL04	Matrix:	Soil, 95% solids
Lab ID:	60219005	Analysis:	Method 8270C
Dilution:	1	Concentration in:	ug/kg, dry weight basis

Analyte	Results	Reporting Limits
Phenol	ND	350
bis(2-Chloroethyl)ether	ND	350
2-Chlorophenol	ND	350
1,3-Dichlorobenzene	ND	350
1,4-Dichlorobenzene	ND	350
1,2-Dichlorobenzene	ND	350
2-Methylphenol	ND	350
2,2'-oxybis(1-Chloropropane)	ND	350
4-Methylphenol	ND	350
n-Nitroso-di-n-propylamine	ND	350
Hexachloroethane	ND	350
Nitrobenzene	ND	350
Isophorone	ND	350
2-Nitrophenol	ND	350
2,4-Dimethylphenol	ND	350
bis(2-Chloroethoxy)methane	ND	350
2,4-Dichlorophenol	ND	350
1,2,4-Trichlorobenzene	ND	350
Naphthalene	ND	350
4-Chloroaniline	ND	350
Hexachlorobutadiene	ND	350
4-Chloro-3-methylphenol	ND	350
2-Methylnaphthalene	ND	350
Hexachlorocyclopentadiene	ND	350
2,4,6-Trichlorophenol	ND	350
2,4,5-Trichlorophenol	ND	710
2-Chloronaphthalene	ND	350
2-Nitroaniline	ND	710
Dimethylphthalate	ND	350
Acenaphthylene	ND	350
2,6-Dinitrotoluene	ND	350
3-Nitroaniline	ND	710
Acenaphthene	ND	350
2,4-Dinitrophenol	ND	710
4-Nitrophenol	ND	710
Dibenzofuran	ND	350
2,4-Dinitrotoluene	ND	350

MITKEM CORPORATION

Client ID: DPSOIL04 Lab ID: 60219005

Analyte	Results	Reporting Limits
Diethylphthalate	ND	350
Fluorene	ND	350
4-Chlorophenyl-phenylether	ND	350
4-Nitroaniline	ND	710
4,6-Dinitro-2-methylphenol	ND	710
n-Nitrosodiphenylamine	ND	350
4-Bromophenyl-phenylether	ND	350
Hexachlorobenzene	ND	350
Pentachlorophenol	ND	710
Phenanthrene	200 J	350
Anthracene	56 J	350
Di-n-butylphthalate	ND	350
Carbazole	84 J	350
Fluoranthene	740	350
Pyrene	830	350
Butylbenzylphthalate	ND	350
Benzo(a)anthracene	580	350
Chrysene	620	350
3,3'-Dichlorobenzidine	ND	350
bis(2-Ethylhexyl)phthalate	160 J	350
Di-n-octylphthalate	ND	350
Benzo(b)fluoranthene	790	350
Benzo(k)fluoranthene	430	350
Benzo(a)pyrene	560	350
Indeno(1,2,3-cd)pyrene	290 J	350
Dibenz(a,h)anthracene	99 J	350
Benzo(g,h,i)perylene	300 J	350

QC Batch: S0222-BS1

Surrogate Recovery:	
2-Fluorophenol	70%
Phenol-d5	74%
2-Chlorophenol-d4	74%
2,4,6-Tribromophenol	74%
1,2-Dichlorobenzene-d4	74%
Nitrobenzene-d5	76%
2-Fluorobiphenyl	79%
p-Terphenyl-d14	76%

ND = Not detected

MITKEM CORPORATION

Analysis Report: Semivolatile Organic Compounds

Client:	Foster Wheeler Environmental Corp.	Analysis Date:	2/23/99
Client ID:		Matrix:	Solid
Lab ID:	Method Blank, S0222-BS1	Analysis:	Method 8270C
Dilution:	1	Concentration in:	ug/kg

Analyte	Results	Reporting Limits
Phenol	ND	330
bis(2-Chloroethyl)ether	ND	330
2-Chlorophenol	ND	330
1,3-Dichlorobenzene	ND	330
1,4-Dichlorobenzene	ND	330
1,2-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
2,2'-oxybis(1-Chloropropane)	ND	330
4-Methylphenol	ND	330
n-Nitroso-di-n-propylamine	ND	330
Hexachloroethane	ND	330
Nitrobenzene	ND	330
Isophorone	ND	330
2-Nitrophenol	ND	330
2,4-Dimethylphenol	ND	330
bis(2-Chloroethoxy)methane	ND	330
2,4-Dichlorophenol	ND	330
1,2,4-Trichlorobenzene	ND	330
Naphthalene	ND	330
4-Chloroaniline	ND	330
Hexachlorobutadiene	ND	330
4-Chloro-3-methylphenol	ND	330
2-Methylnaphthalene	ND	330
Hexachlorocyclopentadiene	ND	330
2,4,6-Trichlorophenol	ND	330
2,4,5-Trichlorophenol	ND	670
2-Chloronaphthalene	ND	330
2-Nitroaniline	ND	670
Dimethylphthalate	ND	330
Acenaphthylene	ND	330
2,6-Dinitrotoluene	ND	330
3-Nitroaniline	ND	670
Acenaphthene	ND	330
2,4-Dinitrophenol	ND	670
4-Nitrophenol	ND	670
Dibenzofuran	ND	330
2,4-Dinitrotoluene	ND	330

026

60219-MB

MITKEM CORPORATION

Client ID: Lab ID: Method Blank, S0222-BS1

Analyte	Results	Reporting Limits
Diethylphthalate	ND	330
Fluorene	ND	330
4-Chlorophenyl-phenylether	ND	330
4-Nitroaniline	ND	670
4,6-Dinitro-2-methylphenol	ND	670
n-Nitrosodiphenylamine	ND	330
4-Bromophenyl-phenylether	ND	330
Hexachlorobenzene	ND	330
Pentachlorophenol	ND	670
Phenanthrene	ND	330
Anthracene	ND	330
Di-n-butylphthalate	ND	330
Carbazole	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butylbenzylphthalate	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
3,3'-Dichlorobenzidine	ND	330
bis(2-Ethylhexyl)phthalate	ND	330
Di-n-octylphthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330
Benzo(g,h,i)perylene	ND	330

QC Batch: S0222-BS1

Surrogate Recovery:	
2-Fluorophenol	67%
Phenol-d5	70%
2-Chlorophenol-d4	70%
2,4,6-Tribromophenol	71%
1,2-Dichlorobenzene-d4	70%
Nitrobenzene-d5	70%
2-Fluorobiphenyl	68%
p-Terphenyl-d14	72%

ND = Not detected

Data File: \Organic\SVOA\S1.i\990223.B\S1A7384.D
Report Date: 24-Feb-1999 09:18

Thru-Put Systems, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: SOLID
Lab Smp Id: S0222-LS1
Level: LOW
Data Type: MS DATA
SpikeList File: LCS_8270_SL.spk
Sublist File: all.sub
Method File: \Organic\SVOA\S1.i\990223.B\s1_8270C.m
Misc Info: ,,,2

Client SDG:
Fraction: SV
Client Smp ID: SBLK1FLCS
Operator: RC
SampleType: LCS
Quant Type: ISTD

LCS

SPIKE	COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMIT
7	bis(2-Chloroethyl)	1700	1300	77.57	26-11
6	Phenol	1700	1300	76.78	38-1(
9	2-Chlorophenol	1700	1300	79.53	49-1(
10	1,3-Dichlorobenzen	1700	1200	71.58	42-9
12	1,4-Dichlorobenzen	1700	1200	72.92	43-1(
14	1,2-Dichlorobenzen	1700	1300	75.99	47-1(
16	2-Methylphenol	1700	1300	79.76	12-1
17	2,2'-oxybis(1-Chlo	1700	1200	71.70	35-1
19	4-Methylphenol	1700	1400	81.08	1-1
18	N-Nitroso-di-n-pro	1700	1400	84.74	44-1
20	Hexachloroethane	1700	1200	74.48	43-1(
22	Nitrobenzene	1700	1300	77.82	55-1(
23	Isophorone	1700	1000	62.27	41-1(
24	2-Nitrophenol	1700	1300	79.48	53-1(
25	2,4-Dimethyphenol	1700	1300	79.88	0-1(
26	bis(2-Chloroethoxy	1700	1300	80.31	46-1
28	2,4-Dichlorophenol	1700	1300	79.78	28-1
29	1,2,4-Trichloroben	1700	1300	76.98	51-1
31	Naphthalene	1700	1300	77.91	54-1
32	4-Chloroaniline	1700	480	28.54	0-9
33	Hexachlorobutadien	1700	1300	79.20	49-1
34	4-Chloro-3-Methylp	1700	1400	84.84	0-1
35	2-Methylnaphthalen	1700	1300	77.84	46-1
36	Hexachlorocyclopen	1700	1000	60.16	21-1
37	2,4,6-Trichlorophe	1700	1200	75.11	4-1
38	2,4,5-Trichlorophe	1700	1400	82.74	3-1
40	2-Chloronaphthalen	1700	1400	81.27	60-1
41	2-Nitroaniline	1700	1300	78.25	50-1
42	Dimethylphthalate	1700	1400	85.05	61-1
43	2,6-Dinitrotoluene	1700	1400	82.13	54-1
44	Acenaphthylene	1700	1300	78.51	61-1
45	3-Nitroaniline	1700	2000	117.03	0-1
47	Acenaphthene	1700	1300	79.53	62-1

Data File: \Organic\SVOA\S1.i\990223.B\S1A7384.D
Report Date: 24-Feb-1999 09:18

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMIT
48 2,4-Dinitrophenol	1700	900	54.18	31-11
50 4-Nitrophenol	1700	1500	91.31	0-16
51 2,4-Dinitrotoluene	1700	1400	85.82	58-11
49 Dibenzofuran	1700	1300	78.19	63-10
52 Diethylphthalate	1700	1400	86.91	58-11
53 Fluorene	1700	1400	83.29	61-11
54 4-Chlorophenyl-phe	1700	1400	85.50	60-11
55 4-Nitroaniline	1700	2200	131.04	0-13
56 4,6-Dinitro-2-meth	1700	1200	71.60	30-12
57 N-Nitrosodiphenyla	1700	1400	87.11	0-14
59 4-Bromophenyl-phen	1700	1300	78.06	65-11
60 Hexachlorobenzene	1700	1300	77.87	64-12
61 Pentachlorophenol	1700	1300	76.59	0-16
63 Phenanthrene	1700	1300	78.99	66-11
64 Anthracene	1700	1300	80.90	56-14
65 Carbazole	1700	3400	202.47*	52-12
66 Di-n-butylphthalat	1700	1500	88.52	69-11
67 Fluoranthene	1700	1400	84.76	65-1
68 Pyrene	1700	1300	76.88	47-1
70 Butylbenzylphthala	1700	1300	78.05	56-1
73 3,3'-Dichlorobenzi	1700	1000	61.60	0-1
71 Benzo(a)anthracene	1700	1400	82.16	64-1
74 Chrysene	1700	1400	81.16	60-1
75 bis(2-Ethylhexyl)p	1700	1300	80.87	55-1
76 Di-n-octylphthalat	1700	1100	67.12	55-1
77 Benzo(b)fluoranthe	1700	1100	67.36	51-1
78 Benzo(k)fluoranthe	1700	1500	90.01	51-1
79 Benzo(a)pyrene	1700	1200	75.11	61-1
81 Indeno(1,2,3-cd)py	1700	1500	92.73	45-1
82 Dibenzo(a,h)anthra	1700	1500	92.25	46-1
83 Benzo(g,h,i)peryle	1700	1600	95.37	43-1

SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMI
$ 3 2-Fluorophenol	2500	1800	70.49	13-1
$ 4 Phenol-d5	2500	1900	75.36	27-1
$ 8 2-Chlorophenol-d4	2500	1900	74.75	26-1
$ 13 1,2-Dichlorobenzen	1700	1200	73.04	18-1
$ 21 Nitrobenzene-d5	1700	1300	75.70	29-1
$ 39 2-Fluorobiphenyl	1700	1200	74.52	37-1
$ 58 2,4,6-Tribromophen	2500	1900	76.10	23-1
$ 69 Terphenyl-d14	1700	1300	76.32	36-1

MITKEM CORPORATION

Analysis Report: Organochlorine Pesticides

Client: Foster Wheeler Environmental Corp.
Client ID: MW09TP01
Lab ID: 60219002
Analysis: Method 8081A

Analysis Date: 2/25/99
Matrix: Soil, 91% solids
Concentration in: ug/kg, dry weight basis
Dilution: 1

Analyte	Results	Reporting Limits
Endrin ketone	ND	3.6
alpha-BHC	ND	1.8
gamma-BHC (Lindane)	ND	1.8
Heptachlor	ND	1.8
Aldrin	ND	1.8
beta-BHC	ND	1.8
delta-BHC	ND	1.8
Heptachlor epoxide	ND	1.8
Endosulfan I	ND	1.8
4,4'-DDE	ND	3.6
Dieldrin	ND	3.6
Endrin	ND	3.6
4,4'-DDD	ND	3.6
Endosulfan II	ND	3.6
4,4'-DDT	4.3 P	3.6
Endrin aldehyde	ND	3.6
Methoxychlor	ND	18
Endosulfan sulfate	ND	3.6
Chlordane (technical)	ND	180
Toxaphene	ND	91
alpha-chlordane	ND	1.8
gamma-chlordane	ND	1.8

QC Batch: P0224-BS1

Surrogate Recovery:

2,4,5,6-Tetrachloro-m-xylene	95%
Decachlorobiphenyl	89%

ND = Not detected

MITKEM CORPORATION

Analysis Report: Organochlorine Pesticides

Client: Foster Wheeler Environmental Corp.
Client ID:
Lab ID: Method Blank, P0224-BS1
Analysis: Method 8081A

Analysis Date: 2/25/99
Matrix: Solid
Concentration in: ug/kg
Dilution: 1

Analyte	Results	Reporting Limits
Endrin ketone	ND	3.4
alpha-BHC	ND	1.7
gamma-BHC (Lindane)	ND	1.7
Heptachlor	ND	1.7
Aldrin	ND	1.7
beta-BHC	ND	1.7
delta-BHC	ND	1.7
Heptachlor epoxide	ND	1.7
Endosulfan I	ND	1.7
4,4'-DDE	ND	3.4
Dieldrin	ND	3.4
Endrin	ND	3.4
4,4'-DDD	ND	3.4
Endosulfan II	ND	3.4
4,4'-DDT	ND	3.4
Endrin aldehyde	ND	3.4
Methoxychlor	ND	17
Endosulfan sulfate	ND	3.4
Chlordane (technical)	ND	85
Toxaphene	ND	170
alpha-chlordane	ND	1.7
gamma-chlordane	ND	1.7

QC Batch: P0224-BS1

Surrogate Recovery:

2,4,5,6-Tetrachloro-m-xylene	95%
Decachlorobiphenyl	89%

ND = Not detected

60219-MB

MITKEM CORPORATION

Analysis Report: Organochlorine Pesticides

Lab Control Summary

Client: Foster Wheeler Environmental Corp.
Lab ID for Blank Spike: P0224-LCS1
Analysis: Method 8081A

Matrix: Solid
Analysis Date for Blank Spike: 2/25/99

Analyte	% Recovery
gamma-BHC (Lindane)	84
Heptachlor	98
Aldrin	94
Dieldrin	90
Endrin	96
4,4'-DDT	87

QC Batch: P0224-BS1

MITKEM CORPORATION

Analysis Report: Polychlorinated Biphenyls (PCB)

Client: Foster Wheeler Environmental Corp.
Client ID: MW09TP01
Lab ID: 60219002
Analysis: Method 8082

Analysis Date: 2/25/99
Matrix: Soil, 91% solids
Concentration in: ug/kg, dry weight basis
Dilution: 1

Analyte	Results	Reporting Limits
Aroclor-1016	ND	36
Aroclor-1221	ND	36
Aroclor-1232	ND	36
Aroclor-1242	ND	36
Aroclor-1248	ND	36
Aroclor-1254	ND	36
Aroclor-1260	ND	36

QC Batch: P0224-BS1

Surrogate Recovery:	
2,4,5,6-Tetrachloro-m-xylene	49%
Decachlorobiphenyl	46%

ND=Not Detected

MITKEM CORPORATION

Analysis Report: Polychlorinated Biphenyls (PCB)

Client: Foster Wheeler Environmental Corp.
Client ID:
Lab ID: Method Blank, P0224-BS1
Analysis: Method 8082

Analysis Date: 2/25/99
Matrix: Solid
Concentration in: ug/kg
Dilution: 1

Analyte	Results	Reporting Limits
Aroclor-1016	ND	33
Aroclor-1221	ND	33
Aroclor-1232	ND	33
Aroclor-1242	ND	33
Aroclor-1248	ND	33
Aroclor-1254	ND	33
Aroclor-1260	ND	33

QC Batch: P0224-BS1

Surrogate Recovery:	
2,4,5,6-Tetrachloro-m-xylene	95%
Decachlorobiphenyl	89%

ND=Not Detected

034

60219-MB

MITKEM CORPORATION

Analysis Report: Polychlorinated Biphenyls (PCBs)

Lab Control Summary

Client: Foster Wheeler Environmental Corp.
Lab ID for Blank Spike: B0224-LS1
Analysis: Method 8082

Matrix: Solid
Analysis Date for Blank Spike: 2/25/99

Analyte	% Recovery
Aroclor 1016	93
Aroclor 1260	92

QC Batch: P0224-BS1

MITKEM CORPORATION

Analysis Report: Total Metals

Client:	Foster Wheeler Environmental Corp.		
Client ID:	MW09TP01	Concentration in:	mg/kg, dry weight basis
Lab ID:	60219002	Analysis Date:	2/22/99
Matrix:	Soil, 88% solid	Analysis Method:	7471A (Mercury) 6010A (Others)

Analyte	Results	Reporting Limit
Aluminum	7,500	30
Antimony	ND	3
Arsenic	13	1
Barium	180	20
Beryllium	ND	0.5
Cadmium	13	0.5
Calcium	2,200	80
Chromium	130	2
Cobalt	11	5
Copper	430	3
Iron	59,000	30
Lead	63	1
Magnesium	2,000	50
Manganese	760	5
Mercury	ND	0.3
Nickel	97	5
Potassium	460	30
Selenium	3	2
Silver	ND	3
Sodium	6,200	100
Thallium	ND	1
Vanadium	23	5
Zinc	7,200	5

QC Batch: 0220PBS

ND = Not Detected

MITKEM CORPORATION

Analysis Report: Total Metals

Client: Foster Wheeler Environmental Corp.
Client ID:
Lab ID: Prep Blank, 0220PBS

Concentration in: mg/kg
Analysis Date: 2/22/99
Analysis Method: 7471A (Mercury)
6010A (Others)

Analyte	Results	Reporting Limit
Aluminum	ND	30
Antimony	ND	3
Arsenic	ND	1
Barium	ND	20
Beryllium	ND	0.5
Cadmium	ND	0.5
Calcium	ND	80
Chromium	ND	2
Cobalt	ND	5
Copper	ND	3
Iron	ND	30
Lead	ND	1
Magnesium	ND	50
Manganese	ND	5
Mercury	ND	0.3
Nickel	ND	5
Potassium	ND	30
Selenium	ND	2
Silver	ND	3
Sodium	ND	100
Thallium	ND	1
Vanadium	ND	5
Zinc	ND	5

QC Batch: 0220PBS

ND = Not Detected

60219-MB

MITKEM CORPORATION

Analysis Report: Total Metals

Client:	Foster Wheeler Environmental Corp.		
Client ID:			
Lab ID:	Lab Control Sample, 0220LCSS	Analysis Date:	2/22/99
Matrix:	Soil	Analysis Method:	7471A (Mercury) 6010A (Others)

Analyte	% Recovery
Aluminum	102
Antimony	103
Arsenic	104
Barium	100
Beryllium	102
Cadmium	94
Calcium	101
Chromium	104
Cobalt	103
Copper	101
Iron	104
Lead	106
Magnesium	103
Manganese	104
Mercury	99
Nickel	103
Potassium	93
Selenium	101
Silver	104
Sodium	98
Thallium	104
Vanadium	104
Zinc	101

QC Batch: 0220PBS

MITKEM CORPORATION

Lab Workorder **60219** **R0**

Logged In By: KeB

Reviewed By:

Client: **Foster Wheeler Environmental**
Workorder ID: **Derektor Shipyard/DO13**
Client Project **Tank Farm 5**
Client PO #: **014952 / 015207**
Project / Profile Name: **Bldgs 6 and 179, NUWC**
Date Due: **02/23/99**
Customer Service: **EAL**
Del Req'd: **Level 2 (1 copy)**
Completed?:

Date Opened: **02/19/99 11:02**
Date Closed: **02/19/99 16:11**

Project Status: **WP**

Lab ID	Client ID	Matrix	Analysis Code	Collected	Received	Due	Notes
60219001	DPSOIL01	S	8100S 8260S 8270S DRY WEIGHT	02/17/99 08:25	02/18/99	02/23/99	
60219002	MW09TP01	S	8081S 8082S 8100S 8260S 8270S DRY WEIGHT TALMETS	02/17/99 10:31	02/18/99	02/23/99	
60219003	DPSOIL02	S	8100S 8260S 8270S DRY WEIGHT	02/17/99 11:45	02/18/99	02/23/99	
60219004	DPSOIL03	S	8100S 8260S 8270S DRY WEIGHT	02/17/99 15:15	02/18/99	02/23/99	
60219005	DPSOIL04	S	8100S 8260S 8270S DRY WEIGHT	02/17/99 16:00	02/18/99	02/23/99	

MITKEM CORPORATION

040

INVOICE GOES TO:

Ellie Federico
Foster Wheeler Environmental
98 T Defense Highway
Middletown, RI, 02842
W: 842-6940
F : 842-6970

REPORT GOES TO:

Andrew Prophete
Foster Wheeler Environmental
98 T Defense Highway
Middletown, RI, 02842
W: (401)842-6940
F : (401)842-6970

MITKEM CORPORATION
175 Metro Center Boulevard
Warwick, Rhode Island 02886-1755
(401) 732-3400 • Fax (401) 732-3499
email: mitkem@worldnet.att.net

CHAIN-OF-CUSTODY RECORD

REPORT TO		INVOICE TO		
COMPANY Foster Wheeler	PHONE 842-6940	COMPANY	PHONE	LAB PROJECT #: 60219
NAME Andrew Prophete	FAX 842-6970	NAME	FAX	
ADDRESS 98 Defense Hwy		ADDRESS		TURNAROUND TIME: 4 72hr
CITY/ST/ZIP Middletown RI 02842		CITY/ST/ZIP		

CLIENT PROJECT NAME: Derektor's Ship Yard
CLIENT PROJECT #: D013
CLIENT P.O.#:

REQUESTED ANALYSES

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE	GRAB	WATER	SOIL	OTHER	LAB ID	# OF CONTAINERS	VOC 8260 (MeOH)	SVOC 8270	TPH 8015	TAL 23 metals	PCB 8082	Pesticides 8081	COMMENTS
	/														
DP SOIL01	2/17/99 8:25				X		-01	5	X	X	X				
MW09TP01	2/17/99 10:31				X		-02	6	X	X	X	X	X	X	
DPSOIL02	2/17/99 11:45				X		-03	5	X	X	X				
DPSOIL03	2/17/99 15:15				X		-04	5	X	X	X				
DPSOL04	2/17/99 16:00				X		-05	5	X	X	X				
	/														
	/														
	/														
	/														
	/														
	/														

TSF#	RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME
1	Andrew Prophete	2/17/99	Paul Garola	2/18/99
2		/	James Healey	2/18/99 11:45
3		/		/

ADDITIONAL REMARKS:

COOLER TEMP: <4°C

WHITE: LABORATORY COPY YELLOW: REPORT COPY PINK: CLIENT'S COPY

MITKEM CORPORATION
Sample Condition Form

Page 1 of

Received By: JJH	Reviewed By:	Date: 2/18/99	MITKEM Project: 60219
Client Project: Deretton S Hippard		Client: Foster Wheeler	

Condition:		Sample ID Lab	Sample ID Client	Preservation (pH) HNO_3	H_2SO_4	HCl	NaOH	Comments/Remarks/ Corrective Action*
		01	DPSoiL 01					
1) Custody Seal(s)	Present/Absent	02	MW09TP01					
	Coolers/Bottles	03	DPSoiL 02					
	Intact/Broken	04	03					
		05	04					
2) Custody Seal Number(s)	/							
3) Chain-of-Custody	Present/Absent							
4) Cooler Temperature	3°C							
Coolant Condition								
5) Airbill(s)	Present/Absent							
Airbill Number(s)	/							
6) Sample Bottles	Intact							
	Broken							
	Leaking							
7) Date Received	2/18/99							
8) Time Received	11:45							
9) Project Due Date	72 HRS (3DAYS)							

* See Sample Condition Notification/Corrective Action Form yes / no JJH 2/19/99 NO JJH NO JJH

Last Page of Data Report