N60087.AR.001153
NAS BRUNSWICK
5090.3a

STATE OF MAINE
DEPARTMENT OF ENVIRONMENTAL PROTECTION

ANGUS S. KING, JR.
GOVERNOR

MARTHA KIRKPATRICK
COMMISSIONER

February 19, 2002

Captain Keith F. Koon
Commanding Officer
Naval Air Station
Brunswick, ME 04011-5009

7000 1670 0008 3411 8697

**********WARNING NOTICE**********
TOPSHAM ANNEX

Dear Captain Koon:

This warning notice is in reference to the identification of polychlorinated biphenyls (PCB) at levels that a pose a threat to human health and the environment discovered November 2000 at the Commissary Building (Building 335) at Topsham Annex, Topsham, Maine and Navy's failure to notify the Maine Department of Environmental Protection (MEDEP) within a reasonable timeframe as required by 38 M.R.S.A. § 343-F.

It is MEDEP's understanding that:

> As part of a Phase 2 Environmental Site Assessment conducted in November 2000, topsoil adjacent to a concrete pad where a PCB transformer was known to have been located was sampled. Analytical results were received by the Navy on or about November 29, 2000, which indicated PCB levels as high as 90 ppm in the soil. A limited removal action was performed by the Navy in November 2001. Confirmation sampling was performed and the analytical results were received by the Navy on or about November 30, 2001, which indicted PCB levels as high as 680 ppm in the soil. On January 7, 2002, EPA and MEDEP were notified of the historical PCB spill.

It is unfortunate that Navy did not notify the public and MEDEP when the release was first discovered. Topsham Annex contains 177 military housing units and in 1999 the Navy transferred adjoining parcels of land to the Maine School Administrative District (MSAD) 75 for the construction of a middle school and athletic fields, which have since been completed and are currently being used. The Commissary is across the road from the athletic field and tennis courts and children routinely walk past the spill area to go between the middle school and the high school which is on the adjacent property. MEDEP urges Navy to disclose the nature of the spill and the potential health risks to MSAD 75 and it's military personnel housed at Topsham Annex without further delay.

MEDEP's greatest concern was the unrestricted access to the area contaminated with PCB's and the Navy, at MEDEP's request, has installed a chain link fence around the PCB contaminated area which should prevent any further inadvertent exposure.

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AUGUSTA, MAINE 04333-0017
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106 HOGAN ROAD
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PORTLAND, MAINE 04103
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PRESQUE ISLE, MAINE 04769-2094
(207) 764-0477 FAX: (207) 764-1507

web site: www.state.me.us/dep

printed on recycled paper

**********NOTICE OF POTENTIAL LIABILITY**********

This letter also serves to notify you of the potential liability, which the Navy has with respect to Topsham Annex and to request the Navy's voluntary participation in undertaking clean up at the site.

Under the Uncontrolled Hazardous Substance Sites Law, 38 M.R.S.A. §1361-1371, the Maine Department of Environmental Protection is authorized to investigate sites at which hazardous substances have come to be located and to clean up or mitigate threats or hazards posed by such sites (38 M.R.S.A. §1364.)

Under 38 M.R.S.A. § 1362 (2), persons who are current or former owners and/or operators of an uncontrolled hazardous substance site are defined as responsible parties regarding that site. PCB is identified as a hazardous waste pursuant to the Maine Hazardous Waste Management Rules Chapter 850.C.(b). The hazardous substances are defined in 38 M.R.S.A. § 1362 (1). The United States Navy is the current owner of Topsham Annex, having received the property from the United States Air Force in the early 1970's. Naval Air Station, at Brunswick, Maine maintains and operates Topsham Annex for the Navy.

Under 38 M.R.S.A. § 1365 (5) and other laws, the responsible party may be obligated to implement relief actions deemed necessary by MEDEP at the site to protect the public health, welfare and the environment. Responsible Parties may also be liable for all costs incurred by the MEDEP in responding to any release or threatened release at the Site. Such costs may include, but are not limited to: expenditures for investigation, planning, cleanup response, and enforcement activities. In addition, responsible parties may be requested to pay damages for injury to, destruction of, or loss of natural resources, including the costs to assess such damages. (38 M.R.S.A. § 1367)

**********REQUEST FOR PARTICIPATION IN CLEANUP ACTIVITES**********

The MEDEP requests that the Navy, as the responsible party, complete the following by December 31, 2002.

Phase I. Time Critical Measures: At some point PCB oil leaked from a 340 gallon transformer onto the ground. The following actions are necessary to mitigate this threat to the public and must be implemented as soon as site conditions allow.

1. Fencing and notification

- As soon as soil conditions permit, install more secure fencing of the spill area to prevent access prior to remediation and immediately post signs visible from Republic Avenue that give notice understandable by school age children regarding the potential danger of the materials in the spill area (i.e. WARNING, HAZARDOUS WASTE CONTAMINATION, KEEP OUT). Within 2 days of receiving this notice notify MSAD 75 and military personnel housed at Topsham Annex in writing of the location of the spill area and potential danger of the materials at the Site. A copy of this notification must be sent to MEDEP.

Phase II. Long Term Actions: After the spill area is fully secured it will be necessary to undertake further actions to investigate the extent of the contamination and to remediate the Site in order to protect human health and the environment.

Removal Action Plan (RAP) and Schedule for Implementation

- Develop and submit to MEDEP for review and approval a RAP for the investigation of the extent of contamination, soil removal, and confirmation sampling. The RAP shall include:

  Provisions for determining the vertical and horizontal boundaries of the PCB contamination using a statistically based sampling scheme;

  Quality Assurance Project Plan;

  Proposed remedial goal;

  Soil disposal options;

  A schedule for implementing the investigation, removal, and confirmation sampling.

- Develop and submit to MEDEP for review and approval a close out report discussing the final removal action, confirmation sample results, and soil disposal.

MEDEP envisions the RAP related work to be completed during this field season. Please submit RAP by April 15, 2002 detailing the response actions and time schedule for performing the work.

In the future MEDEP expects that the Navy will inform the Bureau of Remediation, Division of Remediation, of historic releases of petroleum and hazardous substances as soon as they become known to the command. (Current releases should still be reported to the Department of Public Safety or MEDEP, Response Services as required by 38 M.R.S.A. § 550 and 1318-B.) Should you need more information or wish to discuss this project in greater detail, please contact Claudia Sait at (207) 287-7713.

Sincerely,

Mark Hyland
Director, Division of Remediation

Cf: Dennis Harnish, Asst. Attorney General
Denise Messier, MEDEP
Claudia Sait, MEDEP

Waste Characterization Results
CTO 3
PCB Removal

Note To Potential Bidders:

Data presented in this attachment has been copied from a larger data package (consisting of 5 samples). Should the disposal facility require the complete data package, please indicate in your proposal.

There is one samples presented in this package: "TFS_WC1".

analytics environmental laboratory LLC

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800-929-9906
analytics@analyticslab.com

Mr. Josh Holden
Foster Wheeler Environmental Corp.
P.O. Box 6067
Middletown RI 02842

Report Number: 47084

Revision: Rev. 0

Re: CTO 3, Soil Pile Removal **CTO 3/Task 2**

Enclosed are the results of the analyses on your sample(s). Samples were received on 19 March 2002 and analyzed for the tests listed below. Samples were received in acceptable condition, with the exceptions noted below or on the chain of custody. Please see individual reports for specific methodologies and references.

Lab Number	Sample Date	Station Location	Analysis	Comments
	03/19/02	SP-WC5	EPA 8100 - TPH	
	03/19/02	SP-WC5	EPA 8260 Volatile Organics	
	03/19/02	SP-WC5	EPA 8270 Acid/Base Neutrals	
	03/19/02	SP-WC5	RCRA Metals	
	03/19/02	SP-WC5	Sulfide Reactivity	
	03/19/02	SP-WC5	SW-846 9045 pH in Solid	
47084-5	03/19/02	TFS-WC1	Cyanide Reactivity	
	03/19/02	TFS-WC1	EPA 1010 Flashpoint	
	03/19/02	TFS-WC1	EPA 8081/8082 Pesticides and PCBs	
	03/19/02	TFS-WC1	EPA 8100 - TPH	
	03/19/02	TFS-WC1	EPA 8260 Volatile Organics	
	03/19/02	TFS-WC1	EPA 8270 Acid/Base Neutrals	
	03/19/02	TFS-WC1	RCRA Metals	
	03/19/02	TFS-WC1	Sulfide Reactivity	
	03/19/02	TFS-WC1	SW-846 9045 pH in Solid	

Sample Receipt Exceptions: None

Analytics Environmental Laboratory is certified by the states of New Hampshire, Maine, Massachusetts, North Carolina and is validated by the U.S. Army Corps of Engineers. A list of actual certified parameters is available upon request.

If you have any further question on the analytical methods or these results, do not hesitate to call.

Authorized signature [signature] MGR

Date 3/26/2002

This report shall not be reproduced, except in full, without the written consent of Analytics Environmental Laboratory, LLC.

analytics environmental laboratory LLC

195 Commerce Way
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800-929-9906

Mr. Josh Holden
Foster Wheeler Environmental Corp..
P.O. Box 6067
Middletown RI 02842

March 21, 2002

SAMPLE DATA

Lab Sample ID:	47084-5
Matrix:	Solid
Percent Solid:	82
Dilution Factor:	119
Collection Date:	03/19/02
Lab Receipt Date:	03/19/02
Analysis Date:	03/20/02

CLIENT SAMPLE ID

Project Name:	CTO 3, Soil Pile Removal
Project Number:	CTO 3/Task 2
Field Sample ID:	TFS-WC1

ANALYTICAL RESULTS VOLATILE ORGANICS

COMPOUND	Quantitation Limit µg/kg	Result µg/kg	COMPOUND	Quantitation Limit µg/kg	Result µg/kg
Benzene	120	U	1,3-Dichloropropane	120	U
Bromobenzene	120	U	cis-1,3-Dichloropropene	120	U
Bromochloromethane	120	U	trans-1,3-Dichloropropene	120	U
Bromodichloromethane	90	U	2,2-Dichloropropane	120	U
Bromoform	90	U	1,1-Dichloropropene	120	U
Bromomethane	120	U	Ethylbenzene	120	U
n-butylbenzene	120	U	Hexachlorobutadiene	120	U
sec-butylbenzene	120	U	Isopropylbenzene	120	U
tert-butylbenzene	120	U	p-isopropyltoluene	120	U
Carbon Tetrachloride	120	U	Methylene Chloride	300	U
Chlorobenzene	120	U	Methyl-tert-butyl ether	120	U
Chloroethane	120	U	Naphthalene	120	U
Chloroform	90	U	n-Propylbenzene	120	U
Chloromethane	120	U	Styrene	120	U
2-Chlorotoluene	120	U	1,1,1,2-Tetrachloroethane	120	U
4-Chlorotoluene	120	U	1,1,2,2-Tetrachloroethane	90	U
Dibromochloromethane	90	U	Tetrachloroethene	120	U
1,2-Dibromo-3-chloropropane	120	U	Toluene	120	U
1,2-Dibromoethane	90	U	1,2,3-Trichlorobenzene	120	U
Dibromomethane	120	U	1,2,4-Trichlorobenzene	120	U
1,2-Dichlorobenzene	120	U	1,1,1-Trichloroethane	120	U
1,3-Dichlorobenzene	120	U	1,1,2-Trichloroethane	90	U
1,4-Dichlorobenzene	120	U	Trichloroethene	120	U
Dichlorodifluoromethane	120	U	Trichlorofluoromethane	120	U
1,1-Dichloroethane	120	U	1,2,3-Trichloropropane	120	U
1,2-Dichloroethane	90	U	1,2,4-Trimethylbenzene	120	U
1,1-Dichloroethene	90	U	1,3,5-Trimethylbenzene	120	U
cis-1,2-Dichloroethene	120	U	Vinyl Chloride	120	U
trans-1,2-Dichloroethene	120	U	o-Xylene	120	U
1,2-Dichloropropane	90	U	m,p-Xylene	120	U
Acetone	1200	U	Diethyl ether	120	U
Carbon Disulfide	120	U	2-Hexanone	1200	U
Tetrahydrofuran	600	U	Methyl isobutyl ketone	1200	U
Methyl ethyl ketone	1200	U	Di-isopropyl ether	120	U
t-Butyl alcohol	4800	U	Ethyl t-butyl ether	120	U
t-Amyl methyl ether	120	U			

Surrogate Standard Recovery

d4-1,2-Dichloroethane	87 %	d8-Toluene	93 %	Bromofluorobenzene	84 %

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis was conducted according to: Test Methods for Evaluating Solid Waste, SW-846 Method 8260B.

COMMENTS: Results are expressed on a dry weight basis.

8260 full

Authorized signature

analytics environmental laboratory LLC

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Mr. Josh Holden
Foster Wheeler Environmental Corp.
P.O. Box 6067
Middletown RI 02842

March 25, 2002

SAMPLE DATA

Lab Sample ID:	47084-5
Matrix:	Solid
Percent Solid:	82
Dilution Factor:	1.2
Collection Date:	03/19/02
Lab Receipt Date:	03/19/02
Extraction Date:	03/20/02
Analysis Date:	03/22/02

CLIENT SAMPLE ID

Project Name:	CTO 3, Soil Pile Removal
Project Number:	CTO 3/Task 2
Field Sample ID:	TFS-WC1

PAGE ONE

ANALYTICAL RESULTS SEMI-VOLATILE ORGANICS

ACID COMPOUND	Quantitation Limit µg/kg	Result µg/kg	ACID COMPOUND	Quantitation Limit µg/kg	Result µg/kg
2-Chlorophenol	300	U	Pentachlorophenol	300	U
4-Chloro-3-methylphenol	300	U	Phenol	300	U
2,4-Dichlorophenol	300	U	2,4,5-Trichlorophenol	300	U
2,4-Dimethylphenol	300	U	2,4,6-Trichlorophenol	300	U
2,4-dinitrophenol	300	U	Benzoic Acid	300	U
4,6-Dinitro-2-methylphenol	300	U	2-Methylphenol	300	U
2-Nitrophenol	300	U	3+4-Methylphenol	300	U
2,6-Dichlorophenol	300	U	Benzyl Alcohol	300	U
4-Nitrophenol	300	U	2,3,4,6-Tetrachlorophenol	300	U

Acid Surrogate Standard Recovery

2-Fluorophenol	72	%	d5-Phenol	75	%	2,4,6-Tribromophenol	80 %

BASE NEUTRAL COMPOUND	Quantitation Limit µg/kg	Result µg/kg	BASE NEUTRAL COMPOUND	Quantitation Limit µg/kg	Result µg/kg
1,2-Dichlorobenzene	300	U	Hexachlorobenzene	300	U
1,3-Dichlorobenzene	300	U	Benzidine	300	U
1,4-Dichlorobenzene	300	U	3,3'-Dichlorobenzidine	300	U
2,4-Dinitrotoluene	300	U	Azobenzene	300	U
2,6-Dinitrotoluene	300	U	Bis(2-chloroethoxy)methane	300	U
Nitrobenzene	300	U	bis(2-chloroethyl) ether	300	U
Hexachlorobutadiene	300	U	bis(2-chloroisopropyl)ether	300	U
Dimethyl Phthalate	300	U	4-bromophenyl phenyl ether	300	U
Di-n-butyl phthalate	300	U	Butyl benzyl phthalate	300	U
di-n-octyl-phthalate	300	U	4-Chlorophenyl phenyl ether	300	U
Bis (2-ethylhexyl) phthalate	300	U	Diethyl Phthalate	300	U
1,2,4-Trichlorobenzene	300	U	Hexachlorocyclopentadiene	300	U

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis was conducted according to: Test Methods for Evaluating Solid Waste, SW-846 Method 8270C.

Authorized signature

8270/625 layout

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Mr. Josh Holden
Foster Wheeler Environmental Corp.
P.O. Box 6067
Middletown RI 02842

March 25, 2002

SAMPLE DATA

Lab Sample ID:	47084-5
Matrix:	Solid
Percent Solid:	82
Dilution Factor:	1.2
Collection Date:	03/19/02
Lab Receipt Date:	03/19/02
Extraction Date:	03/20/02
Analysis Date:	03/22/02

CLIENT SAMPLE ID

Project Name:	CTO 3, Soil Pile Removal
Project Number:	CTO 3/Task 2
Field Sample ID:	TFS-WC1

PAGE TWO

ANALYTICAL RESULTS SEMI-VOLATILE ORGANICS

BASE NEUTRAL COMPOUND	Quantitation Limit µg/kg	Result µg/kg	BASE NEUTRAL COMPOUND	Quantitation Limit µg/kg	Result µg/kg
Acenaphthene	300	U	N-nitrosodimethylamine	300	U
Acenaphthylene	300	U	N-nitroso-di-n-propylamine	300	U
Anthracene	300	U	n-nitrosodiphenylamine	300	U
Benzo[a]anthracene	300	342	Pyridine	300	U
Benzo[a] pyrene	300	350	2-Methylnaphthalene	300	U
Benzo[b] fluoranthene	300	391	2-Chloronaphthalene	300	U
Benzo[k] fluoranthene	300	339	Naphthalene	300	U
Benzo(g,h,i) perylene	300	U	Phenanthrene	300	231 J
Chrysene	300	376	Dibenzofuran	300	U
Dibenz [a,h] anthracene	300	U	Aniline	300	U
Fluoranthene	300	456	4-Chloroaniline	300	U
Fluorene	300	U	2-Nitroaniline	300	U
Indeno [1,2,3-cd] pyrene	300	174 J	3-Nitroaniline	300	U
Pyrene	300	406	4-Nitroaniline	300	U
Hexachloroethane	300	U	Carbazole	300	U
Isophorone	300	U			

Base Neutral Surrogate Standard Recovery

2-Fluorobiphenyl	77	%	d5-nitrobenzene	71	%	d14-p-terphenyl	68	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis was conducted according to: Test Methods for Evaluating Solid Waste, SW-846 Method 8270C.

COMMENTS: Results are expressed on a dry weight basis.

8270/625 layout

Authorized signature

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Mr. Josh Holden
Foster Wheeler Environmental Corp.
P.O. Box 6067
Middletown RI 02842

March 26, 2002

SAMPLE DATA

Lab Sample ID:	47084-5
Matrix:	Solid
Percent Solid:	82
Dilution Factor:	12
Collection Date:	03/19/02
Lab Receipt Date:	03/19/02
Extraction Date:	03/20/02
Analysis Date:	03/20/02
PCB Analyzed:	03/20/02

CLIENT SAMPLE ID

Project Name:	CTO 3, Soil Pile Removal
Project Number:	CTO 3/Task 2
Field Sample ID:	TFS-WC1

PESTICIDE AND PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg	COMPOUND	Quantitation Limit µg/kg	Results µg/kg
Aldrin	120	U	Endrin Ketone	120	U
a-BHC	120	U	Heptachlor	120	U
b-BHC	120	U	Heptachlor Epoxide	120	U
d-BHC	120	U	Methoxychlor	240	U
g-BHC	120	U	Chlordane	120	U
4,4'-DDD	120	U	Toxaphene	790	U
4,4'-DDE	120	U	PCB-1016	36000	U
4,4'-DDT	120	U	PCB-1221	36000	U
Dieldrin	120	U	PCB-1232	36000	U
Endosulfan I	120	U	PCB-1242	36000	U
Endosulfan II	120	U	PCB-1248	36000	U
Endosulfan Sulfate	120	U	PCB-1254	36000	1270000
Endrin	120	U	PCB-1260	36000	U
Endrin Aldehyde	120	U			

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	68	%
Decachlorobiphenyl	89	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8081/82.

COMMENTS: Results are expressed on a dry weight basis.

Authorized signature: Steve L. Kelly MGR

608/8081/8082

analytics environmental laboratory LLC

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Mr. Josh Holden
Foster Wheeler Environmental Corp.
P.O. Box 6067
Middletown RI 02842

March 26, 2002

SAMPLE DATA

Lab Sample ID:	47084-5
Matrix:	Solid
Percent Solid:	82
Dilution Factor:	1.2
Collection Date:	03/19/02
Lab Receipt Date:	03/19/02
Extraction Date:	03/20/02
Analysis Date:	03/25/02

CLIENT SAMPLE ID

Project Name:	CTO 3, Soil Pile Removal
Project Number:	CTO 3/Task 2
Field Sample ID:	TFS-WC1

ANALYTICAL RESULTS TOTAL PETROLEUM HYDROCARBONS

Result	Units	Quantitation Limit
175	mg/kg	6

Surrogate Standard Recovery

m-Terphenyl	117	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Aqueous samples prepared by Separatory Funnel Liquid/Liquid Extraction, "Test Methods for Evaluating Solid Waste," Method 3510; other matrices prepared by Sonication Extraction, "Test Methods for Evaluating Solid Waste," Method 3550B.

All matrices analyzed according to "Test Methods for Evaluating Solid Waste, SW-846 Method 8100"

COMMENTS: Results are expressed on a dry weight basis.

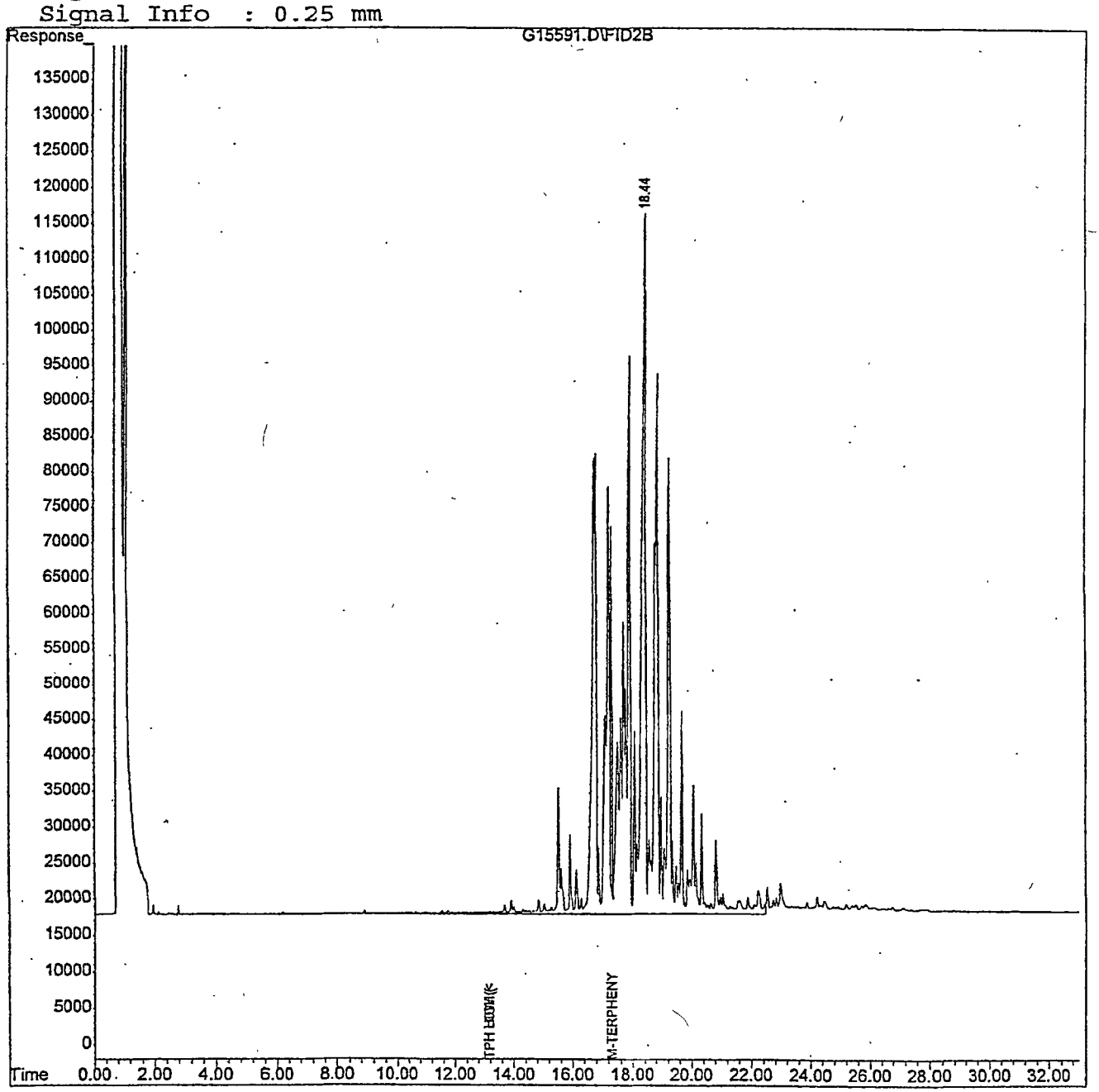
8100

Authorized signature

Data File : D:\HPCHEM\2\DATA\032502-G\G15591.D Vial: 10
Acq On : 25 Mar 2002 2:11 pm Operator: MT
Sample : 47084-5 Inst : Instr. G
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Mar 25 14:51 2002 Quant Results File: T02122.RES

Quant Method : C:\HPCHEM\2\METHODS\T02122.M (Chemstation Integrator)
Title : DRO
Last Update : Tue Mar 12 08:55:13 2002
Response via : Multiple Level Calibration
DataAcq Meth : TPHB.M

Volume Inj. : 1ul
Signal Phase : Rtx-5MS
Signal Info : 0.25 mm



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Mr. Josh Holden
Foster Wheeler Environmental Corp.
P.O. Box 6067
Middletown RI 02842

March 26, 2002

CLIENT SAMPLE ID		SAMPLE DATA	
Project Name:	CTO 3, Soil Pile Removal	**Lab Sample ID:**	47084-5
Project Number:	CTO 3/Task 2	**Matrix:**	Solid
Client Sample ID:	TFS-WC1	**Percent Solid**	82%
		Collection Date:	03/19/02 9:45
		Lab Receipt Date:	03/19/02

Parameter	Result	Date Analyzed	Detection Limit	Units
pH	**6.05**	03/21/02	NA	pH units
Flashpoint	>165	03/22/02	NA	° Fahrenheit
Sulfide Reactivity	U	03/21/02	12	mg/kg
Cyanide Reactivity	U	03/21/02	12	mg/kg

U = Undetected NA = Not Applicable <=Less than >=Greater than

METHODOLOGY: pH: Sample analyzed according to "EPA SW 846 Method 9045 pH in solid"
FlashPoint: Sample analysis was conducted according to "Test Methods for Evaluating Solid Waste, EPA SW-846, Method 1010."
Reacitivty: Sulfide reactivity analysis was conducted according to "Test Methods for Evaluating Solid Waste, SW-846, Sulfide by Modified Method 7.3.4.2."
Cyanide reactivity analysis was conducted according to "Test Methods for Evaluating Solid Waste, SW-846, Cyanide by Modified Method 7.3.3.2."

COMMENTS: ***Results are expressed on a dry weight basis.**

Authorized signature

SEVERN TRENT SERVICES

STL Chicago

SEVERN TRENT LABORATORIES
ANALYTICAL REPORT

JOB NUMBER: 208711

Prepared For:

Analytics Environmental Laboratory, LLC
195 Commerce Way
Suite E
Portsmouth, NH 03801

Project: New Brunswick Naval Station CTO 3

Attention: Steve Knollmeyer

Date: 03/25/2002

Signature

Date 3/25/02

Name: Bosco M. Ramirez

Title: Project Manager

E-Mail: bramirez@stl-inc.com

STL Chicago
2417 Bond Street
University Park, IL 60466

PHONE: (708) 534-5200
FAX..: (708) 534-5211

STL Chicago is part of Severn Trent Laboratories, Inc.

Severn Trent Laboratories - Chicago
METALS CASE NARRATIVE

Client: Analytics Environmental Laboratory, LLC
Project ID: Task 2 Soil Pile
STL#: 208711

Date Rec'd: 03/20/02

1. This narrative covers the metals analysis for samples received in the above Job # 208711.

   Method Refs: USEPA,SW-846

2. All analyses were performed within the required holding times.

3. All Initial and Continuing Calibration Verification (ICV/CCV's) were within control limits.

4. All Initial and Continuing Calibration Blanks (ICB/CCB's) were within control limits.

5. All Preparation/Method Blanks were below Reporting Limits (RL).

6. All ICP Interference Check Samples (ICSA and ICSAB) were within control limits.

7. Laboratory Control Sample (LCS) recoveries were within the 80-120% control limits.

8. Matrix QC was performed on sample 1 for ICP Metals.

   All Serial dilution analysis were within control limits.

   All Matrix spike (MS/MSD) recoveries were within the 75-125% control limits (control limits are not applicable when the sample concentration exceed the spike added concentration by a factor of 4 or more) except for Lead.

   All Duplicate results were within the 20% Relative Percent Difference (RPD) control limits for sample concentration greater than 5X the CRDL or +\- the CRDL for sample concentration less than 5X the RL except for Lead.

Mani S.Iyer
Metals Section Manager

3/25/02
Date

SEVERN TRENT SERVICES

STL Chicago

SAMPLE INFORMATION
Date: 03/25/2002

Job Number.: 208711
Customer...: Analytics Environmental Laboratory, LLC
Attn.....: Steve Knollmeyer

Project Number.....: 20002061
Customer Project ID....: TASK 2 SOIL PILE
Project Description....: New Brunswick Naval Station CTO 3

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
208711-1	SP-WC1	Soil	03/19/2002	09:00	03/20/2002	09:45
208711-2	SP-WC2	Soil	03/19/2002	09:05	03/20/2002	09:45
208711-3	SP-WC3	Soil	03/19/2002	09:10	03/20/2002	09:45
208711-4	SP-WC5	Soil	03/19/2002	09:15	03/20/2002	09:45
208711-5	TFS-WC1	Soil	03/19/2002	09:45	03/20/2002	09:45

SEVERN TRENT SERVICES

Job Number: 208711

LABORATORY TEST RESULTS

Date:03/25/2002

CUSTOMER: Analytics Environmental Laboratory, LLC PROJECT: TASK 2 SOIL PILE ATTN: Steve Knollmeyer

Customer Sample ID: TFS-WC1
Date Sampled.....: 03/19/2002
Time Sampled.....: 09:45
Sample Matrix.....: Soil

Laboratory Sample ID: 208711-5
Date Received.....: 03/20/2002
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination											
	% Solids, Solid	87.2			0.10	0.10	1	%	47349		03/20/02 1540	pfk
	% Moisture, Solid	12.8			0.10	0.10	1	%	47349		03/20/02 1540	pfk
7471A	Mercury (CVAA) Solids											
	Mercury, Solid*	0.025	B		0.0062	0.038	1	mg/Kg	47545		03/21/02 1640	gok
6010B	Metals Analysis (ICAP Trace)											
	Arsenic, Solid* 5.0	5.0			0.27	0.71	1	mg/Kg	47513		03/21/02 2130	lmr
	Barium, Solid*	33.9			0.065	0.71	1	mg/Kg	47513		03/21/02 2130	lmr
	Cadmium, Solid*	0.14	U		0.070	0.14	1	mg/Kg	47513		03/21/02 2130	lmr
	Chromium, Solid* 5.0	17.3			0.11	0.71	1	mg/Kg	47513		03/21/02 2130	lmr
	Lead, Solid* 5.0	17.7			0.27	0.36	1	mg/Kg	47513		03/21/02 2130	lmr
	Selenium, Solid*	0.71	U		0.33	0.71	1	mg/Kg	47513		03/21/02 2130	lmr
	Silver, Solid*	0.36	U		0.14	0.36	1	mg/Kg	47535		03/22/02 0100	tds

046/084

* In Description = Dry Wgt.

STL 208711

analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, NH 03801
Phone (603) 436-5111
Fax (603) 430-2151

For Analytics Use Only Rev 2/00

Samples were:
1) Shipped or hand-delivered
2) Temp blank °C 3.4
3) Received in good condition Y or N
4) pH checked by: N/A
5) Labels checked by: JZ

Project#: CTO 3 /TASK 2 Proj. Name: CTO 3 Soil Pile Removal
Company: ANALYTICS
Contact: Stephen Knollmeyer
Address: 195 COMMERCE WAY
PORTSMOUTH, NH 03801
Phone: 603-436-5111 PO# Quote #
Sampler (Signature): Dan Sullivan

Matrix Key:
WW=Wastewater
SW=Surfacewater
GW=Groundwate
DW=Drinkingwater
S=Soil/Sludge
O=Oil
F=Extract
X=Other

Container Key
P=plastic G=glass

Station Identification	Sample Date	Sample Time	Analysis	Preservation: Unpres	4°C	HNO3	H2SO4	HCL	Other	Matrix	Container number/type		pH	Analytics Sample #
SP-WC1	3-19 02	09:00	RCRA 8 Metals (6000/7000)		X					S	1	G		47084-1
SP-WC2	3-19 02	09:05			X					S	1	G		2
SP-WC3		09:10			X					S	1	G		3
SP-WC5		09:15			X					S	1	G		4
TFS-WC1		09:45			X					S	1	G		5

Received By: Time: Date: Relinquished By Sampler:
Received By: UPS Time: 16:30 Date: 03/19/02 Relinquished By: Melissa A Hulli
Received By: Time: 0945 Date: 3/20/02 Relinquished By:

FAX RESULTS? YES NO
Fax #: 603-430-2151

Turnaround Request
Standard ☐ Due Date
Priority ☒ Due Date 03.26.02

Comments / Instructions:
Please reference Station ID number and AEL Lab number on report(s).
* Due date as per Conversation with Bosco Raimeriz

Temp - 3.4

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Analytics\AEL Documents\AEL COC

083/084

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

CHAIN-OF-CUSTODY RECORD

REPORT TO		INVOICE TO	
COMPANY Foster wheeler 401	PHONE 846-2366	COMPANY FWEC	PHONE 846-2366
NAME DAN Sullivan 401	FAX 845-0627	NAME Accounts Payable	FAX 845-0627
ADDRESS 1277 T - Defense hwy		ADDRESS PO Box 6067	
CITY/ST/ZIP Middletown, RI 02842		CITY/ST/ZIP Middletown, RI, 02842	

LAB PROJECT #:

TURNAROUND TIME:

CLIENT PROJECT NAME: CTO3, soil pile removal

CLIENT PROJECT #: CTO 3/TASK 2

CLIENT P.O.#:

REQUESTED ANALYSES

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE	GRAB	WATER	SOIL	OTHER	LAB ID	# OF CONTAINERS	VOCs (8260)	SVOCs (8270)	PCBs (8082)	Pest (8081)	pH	Flash	RCRA8 (6000/7000)	Reactive Sulfide/Cyanide	TPH				COMMENTS
SP* - WC1	2002 3/26 / 0900	X			X			3/4	X	X	X	X	X	X	X	X	X				47084-1
- WC2	/ 0905	X			X			3/4	X	X	X	X	X	X	X	X	X				-2
- WC3	/ 0910	X			X			3/4	X	X	X	X	X	X	X	X	X				-3
SP - WC5	3/26 / 0915	X			X			3/4	X	X	X	X	X	X	X	X	X				-4
TFS** - WC1	3/26 / 0945	X			X			3/4	X	X	X	X	X	X	X	X	X				-5
	/																				
	/																				
	/																				
	/																				
	/																				
	/																				
	/																				

TSF#	RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME
1	[signature]	3/19/02 / 1305	[signature]	3.19.02 / 1305
2		/		/
3		/		/

ADDITIONAL REMARKS:
COOLER TEMP UPON ARRIVAL 2.5°C
3/19/02 per Josh Holden @ FWEC
my date collected is 3/19/02 +ve date is 3/26/02
correctly made on COC

COOLER TEMP

* SP = Soil Pile

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

084/084

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

TFS-WC1

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1064

Matrix (soil/water): WATER Lab Sample ID: A1064-01A

Level (low/med): MED Date Received: 07/11/02

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	30.0	U		P
7440-39-3	Barium	158	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	20.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	30.0	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	10.0	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	1.0	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	80.0	U		P
7440-22-4	Silver	20.0	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments: