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DETERMINATION OF PCDD/PCDF LEVELS

Prepared for: ESS Laboratory Attn: Jena Paola 185 Frances Avenue Cranston, RI 02910-2211



This report contains 18 pages.

The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Project: Chemical Analysis

Client Project Number: 0606374

REPORT OF LABORATORY ANALYSIS





> Phone: 612.607.1700 Fax: 612.607.6444

REPORT OF: CHEMICAL ANALYSES

PROJECT:

PCDD/PCDF ANALYSES

DATE: July 11, 2006

ISSUED TO:

ESS Laboratory

REPORT NO: 06-1034312

Attn: Jena Paola 185 Frances Avenue

Cranston, RI 02910-2211

INTRODUCTION

This report presents the results from the analyses performed on eight samples submitted by a representative of ESS Laboratory. The samples were analyzed for the presence or absence of polychlorodibenzo-p-dioxins (PCDDs) and polychlorodibenzofurans (PCDFs) using a modified version of USEPA Method 8290.

SAMPLE IDENTIFICATION

Client ID	Sample Type	Date Received	PACE ID
0606374-01	Solid	06/24/06	1034312001
0606374-03	Solid	06/24/06	1034312002
0606374-05	Solid	06/24/06	1034312003
0606374-07	Solid	06/24/06	1034312004
0606374-09	Solid	06/24/06	1034312005
0606374-11	Solid	06/24/06	1034312006
0606374-13	Solid	06/24/06	1034312007
0606374-15	Solid	06/24/06	1034312008

REPORT OF LABORATORY ANALYSIS



ESS Laboratory Pace Mahy Tral CHAIN OF CUSTODY

103431-

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Container T	ype: P-Poly (G-G	Container Type: P-Poly (G-Glass) S-Sterile V-VOA Matrix: (Matrix: (S-	S-Soil SD-Solid	D-Sludge WW-Waste Water		GW-Ground Water S	SW-Surface Water	Water DW-Drinking Water		W.Wipes F-Fi	R-Filters
Cooler Present	ent Yes	No	Internal Use Only		14 1-	CI, 3- H ₂ SO,	, 4- HNOs, 5-1	√aOH, 6-	MeOH, 7- Asorbic A	cid, 8- ZnAct, 9-		
)					***************************************		

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

Date/Time

Received by: (Signature)

Date/Time

Relinquished by: (Signature)

6/24/4 8:25 Date/Time

Received by: (Signature)

1334 | 800 Date/Time

Resultante By: (Signature)

Relinguished by: (Signature)

Cooler Temp: 4.8

Seals Intact

Received by: (Signature) O Rehadoor

[] Technicians_

Sampled by: Comments:

Yes No NA: [| Pickup

Date/Time

Received by: (Signature)

Date/Time

Relinquished by: (Signature)

* OF DESTOR



www.pacelabs.com REPORT OF: CHEMICAL ANALYSES

Pace Analytical Services, Inc. 1700 Elm Street Minneapolis, MN 55414

> Phone: 612.607.1700 Fax: 612.607.6444

PROJECT:

PCDD/PCDF ANALYSES

DATE: July 11, 2006

PAGE: 2

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RESULTS

The results are included in the following:

Appendix A – Chain of Custody Documentation Appendix B – PCDD/PCDF Results

DISCUSSION

The recoveries of the isotopically-labeled PCDD/PCDF internal standards in the sample extracts ranged from 48-140%. With the exception of one value, which was flagged "P" on the sample results table; the labeled standard recoveries obtained for the samples were within the 40-135% target range specified in Method 8290. Also, since the quantification of the native 2,3,7,8-substituted congeners was based on isotope dilution, the data were automatically corrected for variation in recovery and accurate values were obtained.

In some cases, interfering substances impacted the determinations of PCDD or PCDF congeners. The affected values were flagged "I" where incorrect isotope ratios were obtained, or "E" where polychlorinated diphenyl ethers were present.

A laboratory method blank was prepared and analyzed with the sample batch as part of our routine quality control procedures. The results show the blank, with the exception of a trace level of OCDD, to be free of PCDDs and PCDFs at the reporting limits. The OCDD was below the calibration range of the method. Sample levels similar to the corresponding blank level were flagged "B" on the results tables and may be, at least partially, attributed to the background. It should be noted that levels less than ten times the background are not generally considered to be statistically different from the background.

A laboratory spike sample was also prepared with the sample batch using clean sand that had been fortified with native standard materials. The results show that the spiked native compounds were recovered at 81-105%. These results indicate a high degree of accuracy for these determinations.

REPORT OF LABORATORY ANALYSIS





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REPORT OF: CHEMICAL ANALYSES

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REMARKS

The sample extracts will be retained for a period of 15 days from the date of this report and then discarded unless other arrangements are made. The raw mass spectral data will be archived on magnetic tape for a period of not less than one year. Questions regarding the data contained in this report may be directed to the author at the number provided below.

Pace Analytical Services, Inc.

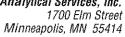
Scøtt C. Unze

Project Manager, HRMS

(612) 607-6383

REPORT OF LABORATORY ANALYSIS





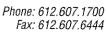




TABLE 1. 2,3,7,8-TCDD Equivalency Factors (TEFs) for the Polychlorinated Dibenzo-p-dioxins and Dibenzofurans

Number	Compound(s)	TEF
1	2,3,7,8-TCDD	1.00
2	1,2,3,7,8-PeCDD	0.50
3	1,2,3,6,7,8-HxCDD	0.1
	1,2,3,7,8,9-HxCDD	0.1
4 5 6 7	1,2,3,4,7,8-HxCDD	0.1
6	1,2,3,4,6,7,8-HpCDD	0.01
7	OCDD	0.001
8	* Total - TCDD	0.0
9	* Total - PeCDD	0.0
10	* Total - HxCDD	0.0
11	* Total - HpCDD	0.0
12	2,3,7,8-TCDF	0.10
13	1,2,3,7,8-PeCDF	0.05
14	2,3,4,7,8-PeCDF	0.5
15	1,2,3,6,7,8-HxCDF	0.1
16	1,2,3,7,8,9-HxCDF	0.1
17	1,2,3,4,7,8-HxCDF	0.1
18	2,3,4,6,7,8-HxCDF	0.1
19	1,2,3,4,6,7,8-HpCDF	0.01
20	1,2,3,4,7,8,9-HpCDF	0.01
21	OCDF	0.001
22	* Total - TCDF	0.0
23	* Total - PeCDF	0.0
24	* Total - HxCDF	0.0
25	* Total - HpCDF	0.0

^{*}Excluding the 2,3,7,8-substituted congeners.

Reference: International Toxic Equivalence

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APPENDIX A

REPORT OF LABORATORY ANALYSIS





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APPENDIX B

REPORT OF LABORATORY ANALYSIS





Method 8290 Blank Analysis Results

Client - ESS Laboratory

Lab Sample ID

Filename

Total Amount Extracted

ICAL Date

CCal Filename(s)

BLANK-10057 F60630A_04

10.2 g 05/31/2006

05/31/2006 F60630A 01 & F60630A 13 Matrix Dilution

Extracted
Analyzed

Injected By

Solid NA

06/28/2006 06/30/2006 11:34

CVS

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF Total TCDF	ND ND		0.200 0.200	2,3,7,8-TCDF-13C 2,3,7,8-TCDD-13C 1,2,3,7,8-PeCDF-13C	2.00 2.00 2.00	76 76
2,3,7,8-TCDD Total TCDD	ND ND	20 20 10 10 10 10 10 10 10 10 10 10 10 10 10	0.200 0.200	1,2,3,7,6-FECDF-13C 2,3,4,7,8-PECDF-13C 1,2,3,7,8-PECDD-13C 1,2,3,4,7,8-HxCDF-13C	2.00 2.00 2.00 2.00	73 79 103
1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF Total PeCDF	ND ND ND	160-261 500 500 100 500 500 500 500 500 600 500 500 500 500	0.980 0.980 0.980	1,2,3,6,7,8-HxCDF-13C 2,3,4,6,7,8-HxCDF-13C 1,2,3,7,8,9-HxCDF-13C	2.00 2.00 2.00	75 70 79 75
1,2,3,7,8-PeCDD Total PeCDD	ND ND	44 M 44 M 14	0.980 0.980	1,2,3,4,7,8-HxCDD-13C 1,2,3,6,7,8-HxCDD-13C 1,2,3,4,6,7,8-HpCDF-13C 1,2,3,4,7,8,9-HpCDF-13C	2.00 2.00 2.00	78 76 70
1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF	ND ND ND		0.980 0.980 0.980	1,2,3,4,7,6,9-npcDF-13C 1,2,3,4,6,7,8-HpCDD-13C OCDD-13C	2.00 2.00 4.00	59 79 61
1,2,3,7,8,9-HxCDF Total HxCDF	ND ND	***	0.980 0.980	1,2,3,4-TCDD-13C 1,2,3,7,8,9-HxCDD-13C	2.00 2.00	NA NA
1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD Total HxCDD	ND ND ND ND		0.980 0.980 0.980 0.980	2,3,7,8-TCDD-37Cl4	0.20	78
1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF Total HpCDF	ND ND ND	****	0.980 0.980 0.980	Total 2,3,7,8-TCDD Equivalence: 0.0056 ng/Kg (Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD Total HpCDD	ND ND	*****	0.980 0.980			
OCDF OCDD	ND 5.6		2.000 2.000 J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

LRL = Lower Reporting Limit

J = Concentration detected is below the calibration range

P = Recovery outside of target range

A = Detection Limit based on signal-to-noise measurement

I = Interference

E = PCDE Interference

ND = Not Detected

NA = Not Applicable

NC = Not Calculated

* = See Discussion

Report No.....1034312



Method 8290 Analysis Results

Client - ESS Laboratory

Client's Sample ID Lab Sample ID Filename Injected By **Total Amount Extracted**

Dry Weight Extracted

0606374-01 1034312001 U60701A 13 BAL 16.1 g

17.7 13.2 g 07/01/2006 U60701A 09 & U60701A 23

Matrix Dilution Collected Received Extracted

Solid NA 06/22/2006

06/24/2006 06/28/2006

CCal Filename(s) Method Blank ID

% Moisture

ICAL Date

BLANK-10057

Analyzed

07/01/2006 23:51

				7 47 647 25 4 6 7 7 7 7 2 7 2	700 £0.01	
Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF Total TCDF	0.19 3.10	47 AV 40 AV 54	0.15 J 0.15	2,3,7,8-TCDF-13C 2,3,7,8-TCDD-13C 1,2,3,7,8-PeCDF-13C	2.00 2.00 2.00	87 73 77
2,3,7,8-TCDD Total TCDD	ND ND		0.15 0.15	2,3,4,7,8-PeCDF-13C 1,2,3,7,8-PeCDD-13C 1,2,3,4,7,8-HxCDF-13C	2.00 2.00 2.00 2.00	82 92 87
1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF Total PeCDF	ND 0.86 7.40	200 and 200 and 200	0.76 0.76 J 0.76	1,2,3,6,7,8-HxCDF-13C 2,3,4,6,7,8-HxCDF-13C 1,2,3,7,8,9-HxCDF-13C	2.00 2.00 2.00	81 81 81
1,2,3,7,8-PeCDD Total PeCDD	ND ND		0.76 0.76	1,2,3,4,7,8-HxCDD-13C 1,2,3,6,7,8-HxCDD-13C 1,2,3,4,6,7,8-HpCDF-13C 1,2,3,4,7,8,9-HpCDF-13C	2.00 2.00 2.00 2.00	83 73 77 71
1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF	ND ND ND		0.76 0.76 0.76	1,2,3,4,6,7,8-HpCDD-13C OCDD-13C	2.00 2.00 4.00	88 83
1,2,3,7,8,9-HxCDF Total HxCDF	ND 3.00		0.76 0.76 J	1,2,3,4-TCDD-13C 1,2,3,7,8,9-HxCDD-13C	2.00 2.00	NA NA
1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD Total HxCDD	ND ND ND ND		0.76 0.76 0.76 0.76	2,3,7,8-TCDD-37Cl4	0.20	70
1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF Total HpCDF	ND ND 1.10		0.76 0.76 0.76 J	Total 2,3,7,8-TCDD Equivalence: 0.49 ng/Kg (Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD Total HpCDD	2.20 3.90	W 40 PC 40 PE	0.76 J 0.76			
OCDF OCDD	1.60 16.00		1.50 J 1.50 B			

Results reported on a dry weight basis

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)

EMPC = Estimated Maximum Possible Concentration

A = Detection Limit based on signal-to-noise measurement

J = Concentration detected is below the calibration range

B = Less than 10 times higher than method blank level

P = Recovery outside of target range

Nn = Value obtained from additional analysis

LRL = Lower Reporting Limit

I = Interference

E = PCDE Interference

S = Saturated signal

ND = Not Detected

NA = Not Applicable

NC = Not Calculated

* = See Discussion Report No.....1034312



Method 8290 Analysis Results

Client - ESS Laboratory

Client's Sample ID 0606374-03
Lab Sample ID 1034312002
Filename U60701A_17
Injected By BAL
Total Amount Extracted 20.6 g

Total Amount Extracted 20.6 g Matrix Solid % Moisture 71.7 Dilution NA

 Dry Weight Extracted
 5.81 g
 Collected
 06/22/2006

 ICAL Date
 07/01/2006
 Received
 06/24/2006

 CCal Filename(s)
 U60701A_09 & U60701A_23
 Extracted
 06/28/2006

 Method Blank ID
 BLANK 10057
 Apply 2006
 07/08/2006

Method Blank ID BLANK-10057 Analyzed 07/02/2006 03:07

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF Total TCDF	7.6 420.0		0.70 A 0.34	2,3,7,8-TCDF-13C 2,3,7,8-TCDD-13C 1,2,3,7,8-PeCDF-13C	2.00 2.00	94 88
2,3,7,8-TCDD Total TCDD	1.4 29.0	40 MA 100 MA 100	0.57 JA 0.34	2,3,4,7,8-PeCDF-13C 1,2,3,7,8-PeCDD-13C 1,2,3,4,7,8-HxCDF-13C	2.00 2.00 2.00	86 87 100
1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF Total PeCDF	8.4 150.0 1300.0	27 777 50 34 44 77 777 78 78 78 77 777 78 78 78	2.50 JA 2.00 A 1.70	1,2,3,4,7,6-HXCDF-13C 1,2,3,6,7,8-HXCDF-13C 2,3,4,6,7,8-HXCDF-13C 1,2,3,7,8,9-HXCDF-13C 1,2,3,4,7,8-HXCDD-13C	2.00 2.00 2.00 2.00 2.00	113 94 87 92
1,2,3,7,8-PeCDD Total PeCDD	4.8 47.0		1.70 J 1.70	1,2,3,4,7,8-HXCDD-13C 1,2,3,4,6,7,8-HpCDF-13C 1,2,3,4,7,8,9-HpCDF-13C	2.00 2.00	121 72 83
1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF	26.0 51.0	33	1.70 E 1.70 1.70	1,2,3,4,6,7,8-HpCDD-13C OCDD-13C	2.00 2.00 4.00	84 103 102
1,2,3,7,8,9-HxCDF Total HxCDF	8.4 510.0		1.70 J 1.70	1,2,3,4-TCDD-13C 1,2,3,7,8,9-HxCDD-13C	2.00 2.00	NA NA
1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD Total HxCDD	3.3 6.8 3.4 87.0		1.70 J 1.70 J 1.70 J 1.70	2,3,7,8-TCDD-37Cl4	0.20	84
1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF Total HpCDF	37.0 4.4 89.0	**************************************	1.70 1.70 J 1.70	Total 2,3,7,8-TCDD Equivalence: 92 ng/Kg (Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD Total HpCDD	71.0 140.0	dale hale dale dale dale	1.70 1.70			
OCDF OCDD	36.0 470.0	Mar also had also day	3.40 3.40			

Results reported on a dry weight basis

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)

EMPC = Estimated Maximum Possible Concentration

A = Detection Limit based on signal-to-noise measurement

Nn = Value obtained from additional analysis

LRL = Lower Reporting Limit

I = Interference

E = PCDE Interference

S = Saturated signal

ND = Not Detected

NA = Not Applicable

NC = Not Calculated

* = See Discussion

Report No....1034312

J = Concentration detected is below the calibration range

B = Less than 10 times higher than method blank level

P = Recovery outside of target range



Method 8290 Analysis Results

Client - ESS Laboratory

Client's Sample ID 0606374-05 Lab Sample ID 1034312003 Filename U60701A 14 Injected By BAL

Total Amount Extracted 16.2 g Matrix Solid % Moisture 23.3 Dilution NA

Dry Weight Extracted 12.4 q Collected 06/22/2006 07/01/2006 **ICAL Date** Received 06/24/2006 CCal Filename(s) U60701A 09 & U60701A 23 Extracted 06/28/2006 Method Blank ID BLANK-10057 Analyzed 07/02/2006 00:40

Native Conc **EMPC LRL** Internal ng's Percent Isomers ng/Kg ng/Kg ng/Kg **Standards** Added Recovery

2,3,7,8-TCDF Total TCDF	ND 1.3	100 MA 100 MA 100	0.16 0.16	2,3,7,8-TCDF-13C 2,3,7,8-TCDD-13C 1,2,3,7,8-PeCDF-13C	2.00 2.00	91 84
2,3,7,8-TCDD Total TCDD	ND ND	44 44 44 44 44	0.16 0.16	2,3,4,7,8-PeCDF-13C 1,2,3,7,8-PeCDD-13C 1,2,3,4,7,8-HxCDF-13C	2.00 2.00 2.00 2.00	79 84 96
1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF Total PeCDF	ND ND 3.1	केरी केर्क कुले ज्यान हुए। केर्क केर्क ज्यार जुले प्रश्न कुले केंग्र प्रश्न ज्यार जुल	0.80 0.80 J	1,2,3,6,7,8-HxCDF-13C 2,3,4,6,7,8-HxCDF-13C 1,2,3,7,8,9-HxCDF-13C	2.00 2.00 2.00	90 82 84 87
1,2,3,7,8-PeCDD Total PeCDD	ND ND	شاه شاه بدو ماه شاه شاه شاه شاه شاه شاه شاه شاه شاه ش	0.80 0.80	1,2,3,4,7,8-HxCDD-13C 1,2,3,6,7,8-HxCDD-13C 1,2,3,4,6,7,8-HpCDF-13C 1,2,3,4,7,8,9-HpCDF-13C	2.00 2.00 2.00	85 76 80
1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF	ND ND ND	****	0.80 0.80 0.80	1,2,3,4,6,7,8-HpCDD-13C 1,2,3,4,6,7,8-HpCDD-13C OCDD-13C	2.00 2.00 4.00	81 96 92
1,2,3,7,8,9-HxCDF Total HxCDF	ND 1.1	ada had day und yee	0.80 0.80 J	1,2,3,4-TCDD-13C 1,2,3,7,8,9-HxCDD-13C	2.00 2.00	NA NA
1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD Total HxCDD	ND ND ND ND		0.80 0.80 0.80 0.80	2,3,7,8-TCDD-37Cl4	0.20	80
1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF Total HpCDF	ND ND ND		0.80 0.80 0.80	Total 2,3,7,8-TCDD Equivalence: 0.0044 ng/Kg (Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD Total HpCDD	ND ND	M W M M M	0.80 0.80			

Results reported on a dry weight basis

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)

ND

4.4

EMPC = Estimated Maximum Possible Concentration

A = Detection Limit based on signal-to-noise measurement

J = Concentration detected is below the calibration range

B = Less than 10 times higher than method blank level

P = Recovery outside of target range

OCDF

OCDD

Nn = Value obtained from additional analysis

LRL = Lower Reporting Limit

I = Interference

E = PCDE Interference

S = Saturated signal

ND = Not Detected

NA = Not Applicable

NC = Not Calculated

* = See Discussion

Report No....1034312

REPORT OF LABORATORY ANALYSIS

1.60

1.60 BJ



Method 8290 Analysis Results

Client - ESS Laboratory

Client's Sample ID 0606374-07 Lab Sample ID 1034312004 Filename U60701A 20 Injected By BAL **Total Amount Extracted** 20.4 g Matrix Solid % Moisture 85.6 Dilution NA 2.95 g Dry Weight Extracted Collected 06/22/2006 ICAL Date 07/01/2006 Received 06/24/2006 CCal Filename(s) U60701A 09 & U60701A 23 Extracted 06/28/2006 Method Blank ID BLANK-10057 Analyzed 07/02/2006 05:34

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF Total TCDF	82 6900		20.0 A 0.68	2,3,7,8-TCDF-13C 2,3,7,8-TCDD-13C 1,2,3,7,8-PeCDF-13C	2.00 2.00 2.00	102 91
2,3,7,8-TCDD Total TCDD	16 380		1.7 A 0.68	2,3,4,7,8-PeCDF-13C 1,2,3,7,8-PeCDD-13C	2.00 2.00	71 71 76
1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF Total PeCDF	2800 7300	3500 	17.0 EA 9.0 A 3.4	2,3,4,6,7,8-HxCDF-13C 1,2,3,7,8,9-HxCDF-13C	2.00 2.00 2.00 2.00	130 102 95 96
1,2,3,7,8-PeCDD Total PeCDD	56 1000	*** *** *** ***	3.4 3.4	1,2,3,4,7,8-HxCDD-13C 1,2,3,6,7,8-HxCDD-13C 1,2,3,4,6,7,8-HpCDF-13C 1,2,3,4,7,8,9-HpCDF-13C	2.00 2.00 2.00	118 77 72
1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF	330 570 400		11.0 A 9.5 A 5.2 A	1,2,3,4,6,7,8-HpCDD-13C OCDD-13C	2.00 2.00 4.00	68 82 64
1,2,3,7,8,9-HxCDF Total HxCDF	190 16000		5.6 A 3.4	1,2,3,4-TCDD-13C 1,2,3,7,8,9-HxCDD-13C	2.00 2.00	NA NA
1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD Total HxCDD	41 120 56 1400	the tab and tab tab tab tab and tab	3.4 4.1 A 3.4 3.4	2,3,7,8-TCDD-37Cl4	0.20	87
1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF Total HpCDF	570 92 1400	20 TO 10 TO 10 TO	5.8 A 8.7 A 3.4	Total 2,3,7,8-TCDD Equivalence: 1600 ng/Kg (Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD Total HpCDD	480 970		3.4 3.4			
OCDF OCDD	250 2300	20 AL 40 W ML	6.8 6.8			

Results reported on a dry weight basis

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)

EMPC = Estimated Maximum Possible Concentration

A = Detection Limit based on signal-to-noise measurement

J = Concentration detected is below the calibration range

B = Less than 10 times higher than method blank level

P = Recovery outside of target range

Nn = Value obtained from additional analysis

LRL = Lower Reporting Limit

I = Interference

E = PCDE Interference

S = Saturated signal

ND = Not Detected

NA = Not Applicable

NC = Not Calculated

* = See Discussion

Report No....1034312



Method 8290 Analysis Results

Client - ESS Laboratory

Client's Sample ID 0606374-09 Lab Sample ID 1034312005 Filename U60701A 19 Injected By BAL **Total Amount Extracted** 20.4 a

% Moisture 84.9 Dry Weight Extracted 3.09 g **ICAL Date** 07/01/2006

CCal Filename(s) U60701A 09 & U60701A 23

Method Blank ID BLANK-10057 Matrix Solid Dilution NA

Collected 06/22/2006 Received 06/24/2006 Extracted 06/28/2006 Analyzed 07/02/2006 04:45

Native Conc **EMPC** LRL Internal Percent ng's Isomers ng/Kg ng/Kg ng/Kg **Standards** Added Recovery 2.3.7.8-TCDF 120 16.0 A 2,3,7,8-TCDF-13C 2.00 101 Total TCDF 12000 2,3,7,8-TCDD-13C 0.65 2.00 83 1,2,3,7,8-PeCDF-13C 2.00 71 2,3,7,8-TCDD 30 2.5 A 2,3,4,7,8-PeCDF-13C 2.00 69 Total TCDD 800 0.65 1,2,3,7,8-PeCDD-13C 2.00 74 2.00 1,2,3,4,7,8-HxCDF-13C Р 140 1,2,3,7,8-PeCDF 18000 32.0 EA 1,2,3,6,7,8-HxCDF-13C 2.00 105 2,3,4,7,8-PeCDF 6200 12.0 A 2,3,4,6,7,8-HxCDF-13C 2.00 94 Total PeCDF 9600 3.2 1,2,3,7,8,9-HxCDF-13C 2.00 96 1,2,3,4,7,8-HxCDD-13C 2.00 116 1,2,3,7,8-PeCDD 98 6.1 Α 1,2,3,6,7,8-HxCDD-13C 2.00 82 Total PeCDD 2000 3.2 1,2,3,4,6,7,8-HpCDF-13C 2.00 71 2.00 1,2,3,4,7,8,9-HpCDF-13C 66 1,2,3,4,7,8-HxCDF 670 3.2 1,2,3,4,6,7,8-HpCDD-13C 2.00 81 1,2,3,6,7,8-HxCDF 1300 14.0 Α OCDD-13C 4.00 63 2,3,4,6,7,8-HxCDF 910 11.0 Α 1,2,3,7,8,9-HxCDF 390 8.0 Α 1,2,3,4-TCDD-13C 2.00 NA Total HxCDF 23000 3.2 1,2,3,7,8,9-HxCDD-13C 2.00 NA 1,2,3,4,7,8-HxCDD 74 3.8 A 2.3.7.8-TCDD-37CI4 0.20 82 1,2,3,6,7,8-HxCDD 190 5.7 Α 1,2,3,7,8,9-HxCDD 97 3.6 Α Total HxCDD 2600 3.2 1,2,3,4,6,7,8-HpCDF 1000 7.2 A Total 2,3,7,8-TCDD 1,2,3,4,7,8,9-HpCDF 170 13.0 Α Equivalence: 3600 ng/Kg Total HpCDF 2800 3.2 (Using ITE Factors) 1,2,3,4,6,7,8-HpCDD 640 3.3 A Total HpCDD 1300 3.2 **OCDF** 300 6.5 OCDD 2700 6.5

Results reported on a dry weight basis

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)

EMPC = Estimated Maximum Possible Concentration

A = Detection Limit based on signal-to-noise measurement

J = Concentration detected is below the calibration range

B = Less than 10 times higher than method blank level

P = Recovery outside of target range

Nn = Value obtained from additional analysis

LRL = Lower Reporting Limit

I = Interference

E = PCDE Interference

S = Saturated signal

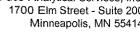
ND = Not Detected

NA = Not Applicable

NC = Not Calculated

* = See Discussion

Report No.....1034312



Method 8290 Analysis Results

Client - ESS Laboratory

Client's Sample ID Lab Sample ID Filename Injected By **Total Amount Extracted**

Pace Analytical

0606374-11 1034312006 U60701A 18 BAL 16.3 g

% Moisture Dry Weight Extracted

77.7 3.65 g 07/01/2006 Matrix Dilution Collected

Solid NA 06/22/2006

ICAL Date CCal Filename(s) Method Blank ID

U60701A 09 & U60701A 23 BLANK-10057

Received Extracted Analyzed

06/24/2006 06/28/2006

07/02/2006 03:56

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF Total TCDF	58 6500	ano and ano and	5.5 A 0.55	2,3,7,8-TCDF-13C 2,3,7,8-TCDD-13C 1,2,3,7,8-PeCDF-13C	2.00 2.00 2.00	95 89 72
2,3,7,8-TCDD Total TCDD	21 510	400 AN 100 MA 100	2.2 A 0.55	1,2,3,7,8-PeCDF-13C 2,3,4,7,8-PeCDD-13C 1,2,3,4,7,8-HxCDF-13C	2.00 2.00 2.00 2.00	70 80
1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF Total PeCDF	3500 8800	2000	42.0 EA 14.0 A 2.7	1,2,3,4,7,8-HXCDF-13C 1,2,3,6,7,8-HXCDF-13C 2,3,4,6,7,8-HXCDF-13C 1,2,3,7,8,9-HXCDF-13C 1,2,3,4,7,8-HXCDD-13C	2.00 2.00 2.00 2.00 2.00	118 96 86 90 108
1,2,3,7,8-PeCDD Total PeCDD	69 1400		5.0 A 2.7	1,2,3,6,7,8-HxCDD-13C 1,2,3,4,6,7,8-HpCDF-13C 1,2,3,4,7,8,9-HpCDF-13C	2.00 2.00 2.00 2.00	77 74 66
1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF Total HxCDF	390 620 540 250 12000		8.4 A 20.0 A 9.1 A 8.7 A 2.7	1,2,3,4,6,7,8-HpCDD-13C OCDD-13C 1,2,3,4-TCDD-13C 1,2,3,7,8,9-HxCDD-13C	2.00 4.00 2.00 2.00	82 65 NA NA
1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD Total HxCDD	51 120 59 1600		2.7 3.1 A 2.7 2.7	2,3,7,8-TCDD-37Cl4	0.20	86
1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF Total HpCDF	510 110 1400	70	4.5 A 7.1 A 2.7	Total 2,3,7,8-TCDD Equivalence: 2000 ng/Kg (Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD Total HpCDD	270 580		2.7 2.7			
OCDF OCDD	100 930	45 M 45 M 15 M	5.5 5.5			

Results reported on a dry weight basis

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)

EMPC = Estimated Maximum Possible Concentration

A = Detection Limit based on signal-to-noise measurement

J = Concentration detected is below the calibration range

B = Less than 10 times higher than method blank level

P = Recovery outside of target range

Nn = Value obtained from additional analysis

LRL = Lower Reporting Limit

I = Interference

E = PCDE Interference

S = Saturated signal

ND = Not Detected

NA = Not Applicable

NC = Not Calculated

* = See Discussion

Report No....1034312

Pace Analytical

Method 8290 Analysis Results

Client - ESS Laboratory

Client's Sample ID Lab Sample ID Filename Injected By

0606374-13 1034312007 U60701A 15 BAL

Total Amount Extracted % Moisture

19.1 g 23.3 14.7 g 07/01/2006 Matrix Dilution Collected

Solid NA 06/22/2006

Dry Weight Extracted **ICAL Date** CCal Filename(s) Method Blank ID

U60701A 09 & U60701A 23 BLANK-10057

Received Extracted Analyzed

06/24/2006 06/28/2006 07/02/2006 01:29

Metrica Blank 18	LJ L. r	111111111111111111111111111111111111111		Analyzed 07/02/20	00 01.29	
Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF Total TCDF	ND 1.2		0.14 0.14	2,3,7,8-TCDF-13C 2,3,7,8-TCDD-13C 1,2,3,7,8-PeCDF-13C	2.00 2.00 2.00	83 77 73
2,3,7,8-TCDD Total TCDD	ND ND	केर कार कार कार केरे पार्ट कार कार	0.14 0.14	2,3,4,7,8-PeCDF-13C 1,2,3,7,8-PeCDD-13C 1,2,3,4,7,8-HxCDF-13C	2.00 2.00 2.00 2.00	73 79 89 88
1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF Total PeCDF	ND ND 4.4	was also yet dept and debt dept was seen also yet was seen soon	0.68 0.68 0.68	1,2,3,6,7,8-HxCDF-13C 2,3,4,6,7,8-HxCDF-13C 1,2,3,7,8,9-HxCDF-13C	2.00 2.00 2.00	81 83 84
1,2,3,7,8-PeCDD Total PeCDD	ND ND	*** *** *** ***	0.68 0.68	1,2,3,4,7,8-HxCDD-13C 1,2,3,6,7,8-HxCDD-13C 1,2,3,4,6,7,8-HpCDF-13C 1,2,3,4,7,8,9-HpCDF-13C	2.00 2.00 2.00 2.00	85 75 80 77
1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF	ND ND ND	77 77 78 78 78 78 78 78 78 78 78 78 78 7	0.68 0.68 0.68	1,2,3,4,6,7,8-HpCDD-13C OCDD-13C	2.00 4.00	91 88
1,2,3,7,8,9-HxCDF Total HxCDF	ND 1.7	न्य पर बात तथा प्रक स्था पर-वार-वार तथ	0.68 0.68 J	1,2,3,4-TCDD-13C 1,2,3,7,8,9-HxCDD-13C	2.00 2.00	NA NA
1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD Total HxCDD	ND ND ND ND		0.68 0.68 0.68 0.68	2,3,7,8-TCDD-37Cl4	0.20	74
1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF Total HpCDF	ND ND ND	40. 504 400 400 305 400 500 400 306 406 500 400	0.68 0.68 0.68	Total 2,3,7,8-TCDD Equivalence: 0.0035 ng/Kg (Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD Total HpCDD	ND ND	ano and ano and and	0.68 0.68			
OCDF OCDD	ND 3.5		1.40 1.40 BJ			

Results reported on a dry weight basis

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)

EMPC = Estimated Maximum Possible Concentration

A = Detection Limit based on signal-to-noise measurement

J = Concentration detected is below the calibration range

B = Less than 10 times higher than method blank level

P = Recovery outside of target range

Nn = Value obtained from additional analysis

LRL = Lower Reporting Limit

I = Interference

E = PCDE Interference

S = Saturated signal

ND = Not Detected

NA = Not Applicable

NC = Not Calculated

* = See Discussion

Report No....1034312



Method 8290 Analysis Results

Client - ESS Laboratory

Client's Sample ID Lab Sample ID Filename Injected By **Total Amount Extracted**

Dry Weight Extracted

CCal Filename(s)

% Moisture

ICAL Date

0606374-15 1034312008 U60701A 16 BAL 15.3 g 22.4

11.9 g 07/01/2006 U60701A 09 & U60701A 23 BLANK-10057

Matrix Dilution Collected Received

Extracted

Solid NA 06/22/2006 06/24/2006 06/28/2006

07/02/2006 02:18

Method Blank ID Analyzed **Native** Conc **EMPC** LRL Internal ng's Percent Isomers **Standards** ng/Kg ng/Kg ng/Kg Added Recovery 2,3,7,8-TCDF 1.80 0.17 E 2,3,7,8-TCDF-13C 2.00 56 Total TCDF 140.00 0.17 2,3,7,8-TCDD-13C 2.00 54 1,2,3,7,8-PeCDF-13C 2.00 50 2.3.7.8-TCDD 0.17 0.18 2,3,4,7,8-PeCDF-13C 2.00 53 Total TCDD 3.60 0.17 1,2,3,7,8-PeCDD-13C 2.00 60 1,2,3,4,7,8-HxCDF-13C 2.00 62 1,2,3,7,8-PeCDF 2.30 1.10 JA 1,2,3,6,7,8-HxCDF-13C 2.00 53 2,3,4,7,8-PeCDF 44.00 0.84 2,3,4,6,7,8-HxCDF-13C 2.00 56 Total PeCDF 460.00 0.84 1,2,3,7,8,9-HxCDF-13C 2.00 59 1,2,3,4,7,8-HxCDD-13C 2.00 60 1.2.3.7.8-PeCDD 0.95 0.84 1,2,3,6,7,8-HxCDD-13C 2.00 48 Total PeCDD 8.10 0.84 1,2,3,4,6,7,8-HpCDF-13C 2.00 53 1,2,3,4,7,8,9-HpCDF-13C 2.00 53 1,2,3,4,7,8-HxCDF 3.40 0.84 J 1,2,3,4,6,7,8-HpCDD-13C 2.00 62 1,2,3,6,7,8-HxCDF 7.30 0.84 OCDD-13C 4.00 59 2,3,4,6,7,8-HxCDF 16.00 0.84 ----1,2,3,7,8,9-HxCDF 2.40 0.84 J 1,2,3,4-TCDD-13C 2.00 NA Total HxCDF 200.00 0.84 1,2,3,7,8,9-HxCDD-13C 2.00 NA 1,2,3,4,7,8-HxCDD ND 0.84 2,3,7,8-TCDD-37Cl4 0.20 37 1,2,3,6,7,8-HxCDD 1.30 0.84 J 1,2,3,7,8,9-HxCDD ND 0.84 Total HxCDD 13.00 0.84 1,2,3,4,6,7,8-HpCDF 6.50 0.84 Total 2,3,7,8-TCDD 1,2,3,4,7,8,9-HpCDF 1.20 0.84 J Equivalence: 26 ng/Kg Total HpCDF 17.00 (Using ITE Factors) 0.84 1,2,3,4,6,7,8-HpCDD 4.50 0.84 Total HpCDD 8.80 0.84 **OCDF** 2.20 1.70 J OCDD 25.00 1.70 B

Results reported on a dry weight basis

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)

EMPC = Estimated Maximum Possible Concentration

Nn = Value obtained from additional analysis

LRL = Lower Reporting Limit

I = Interference

E = PCDE Interference

S = Saturated signal

ND = Not Detected

NA = Not Applicable

NC = Not Calculated

* = See Discussion

Report No....1034312

A = Detection Limit based on signal-to-noise measurement

J = Concentration detected is below the calibration range

B = Less than 10 times higher than method blank level

P = Recovery outside of target range



Method 8290 Laboratory Control Spike Results

Client - ESS Laboratory

Lab Sample ID Filename

Total Amount Extracted **ICAL Date**

CCal Filename(s) Method Blank ID

LCS-10058

F60630A_02 10.0 g 05/31/2006

F60630A_01 & F60630A 13 BLANK-10057

Dilution Extracted

Matrix

Solid NA

06/28/2006 Analyzed 06/30/2006 09:54

Injected	Ву	CVS

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.17	86	2,3,7,8-TCDF-13C 2,3,7,8-TCDD-13C 1,2,3,7,8-PeCDF-13C	2.00 2.00 2.00	70 69
2,3,7,8-TCDD	0.20	0.18	90	2,3,4,7,8-PeCDF-13C 1,2,3,7,8-PeCDD-13C 1,2,3,4,7,8-HxCDF-13C	2.00 2.00	65 71 96
1,2,3,7,8-PeCDF	1.00	0.99	99	1,2,3,6,7,8-HxCDF-13C	2.00 2.00	78 73
2,3,4,7,8-PeCDF	1.00	0.91	91	2,3,4,6,7,8-HxCDF-13C 1,2,3,7,8,9-HxCDF-13C 1,2,3,4,7,8-HxCDD-13C	2.00 2.00 2.00	79 76 83
1,2,3,7,8-PeCDD	1.00	0.81	81	1,2,3,6,7,8-HxCDD-13C 1,2,3,4,6,7,8-HpCDF-13C	2.00 2.00	76 72
1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF	1.00 1.00 1.00	0.87 0.91 0.92	87 91 92	1,2,3,4,7,8,9-HpCDF-13C 1,2,3,4,6,7,8-HpCDD-13C OCDD-13C	2.00 2.00 4.00	61 82 62
1,2,3,7,8,9-HxCDF	1.00	0.91	91	1,2,3,4-TCDD-13C 1,2,3,7,8,9-HxCDD-13C	2.00 2.00	NA NA
1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD	1.00 1.00 1.00	0.96 1.00 1.01	96 100 101	2,3,7,8-TCDD-37Cl4	0.20	68
1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF	1.00 1.00	1.00 1.05	100 105			
1,2,3,4,6,7,8-HpCDD	1.00	0.84	84			
OCDF OCDD	2.00 2.00	1.71 1.77	86 88			

Qs = Quantity Spiked

Qm = Quantity Measured

Rec. = Recovery (Expressed as Percent)

P = Recovery outside of target range

X = Background subtracted value

Nn = Value obtained from additional analysis

NA = Not Applicable

* = See Discussion

Report No.....1034312

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ESS LAB PROJECT ID 15510F2 Page 2 of Reporting Limits Turn Time Standard Other If faster than 5 days, prior approval by Jaboratory is required # Division of Thielsch Engineering, Inc. 185 Frances Avenue, Cranston, RI 02910-2211 ESS Laborate

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11.	1210 Kst	SED1401		<u>r+</u>	1,0				-		X	$\frac{1}{\times}$	×	メ
	1215 X SE	SED1403		5	\$1,						X		×	oğumlari ildi
2 11	1230 XSV	SEDISO		r+ -	33						X	$\hat{\mathbf{x}}$	×	×
31	1255 X SF	SED 1503		70	3						×		×	electron succession
3 2	1315 XX	SEDIGOL		1+	ù				······································		X	へ ス	又	×
	1330 X SW	SED 1603		>	"								> <	-
5	1400 X SW	SEDIBOI		+	3						X	×	 >	×
Į O	1420 XX	SED 1904		2	*						× ×	_	<u> </u>	
Container Type: P-Poly G-Glass	s S-Sterile V-VOA Matrix:	: S-Soil SD-Solid	D-Sludge WW-Waste Water GW-	GW-Ground Water	1	SW-Surface Water	l	DW-Drinking Water	, Water	O-Oil	W-Wipes	es F-Filters	ters	###
Cooler Present (Yes	No Internal Use Only		Preservation Code: 1- NP, 2- HCl, 3- H.SO., 4- HNO.,	0, 4- HN	O, 5- Na	5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct,	OH, 7-7	Sorbic A	cid, 8- 2	'nAct, 9-				
Seals Intact Yes	No NA: [] Pickup	Sampled by:	ed by: Brian Roden	Tom		# ALES								
Cooler Temp: 2,5	[] Technicians	cians Comments:		_										

DIOKINS / FUTURE

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

Date, Time

Received by: (Signature)

Dare/Time

Refinquished by: (Signature)

C32041643 Date/Time

Dy. (Signature)

6-22-04 16-22-0 Date/Time

Date/Time

Relinquished by: (Signature)

Relinquished by: (Signature) The 1 well.

Date/Time

Referred by: (Signature)

Date/Time

Received by: (Signature)

Date/Time

Relinquished by: (Signature)

^{*}By circling MA-MCP, client acknowledges samples were collected in accoustance with MADEP CAM VII $_{\rm A}$

CHAIN OF CUSTODYESS 30 Frage 3 of

Division of Thielsch Engineering, Inc. 185 Frances Avenue, Cranston, RI 02910-2211 Tel. (401) 461-7181 Fax (401) 461-4486 ESS Laboratory www.esslaboratory.com

Emerical langer ~ SS LAB PROJECT ID 0606374 F-Filters SW-Surface Water DW-Drinking Water O-Oil W-Wipes Other Circle and/or Write Required Analysis بر × YOA Preservation Code: 1- NP, 2- HCl, 3- H.SO., 4- HNO., 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9-Access PDF SHIM METALS (13) MCP-METALS (13) NBCA PP13 TAL23 RCRA8 RCRAS Electronic Deliverable AOV2 929 HVd 8570 Format: Excel Sepicipses 809 8082 FCB 808 I Sesticides 808 808 d Diesel #HYJ/# Hd9 SHVA O/A 8012 080 0018 Hqr 810ff/181/H 8021 MTBE/BTEX 8012 080 HdA 0828 2.428 779 1/4/1 Type of Containers • D-Sludge WW-Waste Water GW-Ground Water ٤. * If faster than 5 days, prior approval by laboratory is required # × In Other Number of Containers N şļ M Other 7 Pres Is this project for any of the following:
MA-MCP Navy USACE ME State where samples were collected from: MA (RI) CT NH NJ NY Project Name (20 Char. or less) Sample Identification (20 Chan, or less) Garhan Site Email Address PO# Sampled by: SED 1903 SEP 2103 SED 2303 SED 21 01 SEDIGOL SEb2301 SD-Solid Zip Address S-Soil Internal Use Only V-VOA | Matrix: [] Pickup 5 MATRIX × × X SEAB dWOO Fax # Collection Time State 12/2 No NA: 530 1500 S-Sterile 1450 1510 1540 å Ricardi Tolephone # 207 775 54a G-Glass 6.22.06 Yes Yes Contact Person Date Container Type: P-Poly ~ = ž 2 Cooler Present ESS LAB Sample# Seals Intact Co. Name

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VITA

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

Date/Time

Received by: (Signature)

Date/Time

Relinquished by: (Signature)

122cl 1143 Date/Time

of by: (Signature)

6-22-06 1642

Date/Time

Relinquished by: (Signature)

Cooler Temp: 35

Date/Time

Relinquished by: (Signature)

They asser

nived by: (Signature)

Comments:

[] Technicians

Date/Time

Received by: (Signature)

Date/Time

Relinquished by: (Signature)