TA-73 '06

chamberlain, kathryn, NMENV

From: Gregory, David R. [dgregory@doeal.gov]
Sent: Thursday, March 09, 2006 3:54 PM
To: chamberlain, kathryn, NMENV
Cc: Goering, Darlene, NMENV
Subject: RE: MDA B Work Plan
Attachments: Summary.pdf; EDD27236.xls

Katie
Joe English indicates that he spoke with you and that you have most, if not all data collected thus far by DOE to help characterize waste at the ashpile. The attachments are un-validated data for dioxin/furan analysis.
Please call me if you have any questions.

David

4955

February 18, 2006

Alta Project I.D.: 27236

Ms. Joylene Valdez
Los Alamos National Laboratory
ER Sample Management Office
TA-3, Building 271, DP O1-U
Los Alamos, NM 87545

Dear Ms. Valdez,

Enclosed are the results for the one solid sample received at Alta Analytical Laboratory on January 27, 2006 under your Project Name "4449S". This sample was extracted and analyzed using EPA Method 8290 for tetra-through-octa chlorinated dioxins and furans. A standard turnaround time was provided for this work.

The following report consists of a Sample Inventory (Section I), Analytical Results (Section II) and the Appendix, which contains the chain-of-custody, a list of data qualifiers and abbreviations, Alta's current certifications, and copies of the raw data (if requested).

Alta Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-933-1640 or by email at mmaier@altalab.com. Thank you for choosing Alta as part of your analytical support team.

Sincerely,

Martha M. Maier
Director of HRMS Services

ACCREDITED IN ACCORDANCE WITH nelac

Alta Analytical Laboratory certifies that the report herein meets all the requirements set forth by NELAC for those applicable test methods. This report should not be reproduced except in full without the written approval of ALTA.

Section I: Sample Inventory Report

Date Received: **1/27/2006**

Alta Lab. ID	Client Sample ID
27236-001	RE73-06-66668

SECTION II

Method Blank **EPA Method 8290**

Matrix:	Solid	QC Batch No.:	7728	Lab Sample:	0-MB001
Sample Size:	10.0 g	Date Extracted:	7-Feb-06	Date Analyzed DB-5:	10-Feb-06
				Date Analyzed DB-225:	NA

Analyte	Conc. (pg/g)	DL [a]	EMPC [b]	Qualifiers
2,3,7,8-TCDD	ND	0.139		
1,2,3,7,8-PeCDD	ND	0.120		
1,2,3,4,7,8-HxCDD	ND	0.146		
1,2,3,6,7,8-HxCDD	ND	0.156		
1,2,3,7,8,9-HxCDD	ND	0.147		
1,2,3,4,6,7,8-HpCDD	ND	0.178		
OCDD	ND	0.318		
2,3,7,8-TCDF	ND	0.124		
1,2,3,7,8-PeCDF	ND	0.177		
2,3,4,7,8-PeCDF	ND	0.177		
1,2,3,4,7,8-HxCDF	ND	0.0350		
1,2,3,6,7,8-HxCDF	ND	0.0363		
2,3,4,6,7,8-HxCDF	ND	0.0419		
1,2,3,7,8,9-HxCDF	ND	0.0609		
1,2,3,4,6,7,8-HpCDF	0.287			J
1,2,3,4,7,8,9-HpCDF	ND	0.103		
OCDF	ND	0.298		

	Labeled Standard	%R	LCL-UCL [d]	Qualifiers
IS	13C-2,3,7,8-TCDD	83.4	40 - 135	
	13C-1,2,3,7,8-PeCDD	78.0	40 - 135	
	13C-1,2,3,4,7,8-HxCDD	82.5	40 - 135	
	13C-1,2,3,6,7,8-HxCDD	85.6	40 - 135	
	13C-1,2,3,4,6,7,8-HpCDD	95.6	40 - 135	
	13C-OCDD	64.5	40 - 135	
	13C-2,3,7,8-TCDF	83.3	40 - 135	
	13C-1,2,3,7,8-PeCDF	86.4	40 - 135	
	13C-2,3,4,7,8-PeCDF	85.0	40 - 135	
	13C-1,2,3,4,7,8-HxCDF	85.3	40 - 135	
	13C-1,2,3,6,7,8-HxCDF	81.5	40 - 135	
	13C-2,3,4,6,7,8-HxCDF	80.7	40 - 135	
	13C-1,2,3,7,8,9-HxCDF	78.7	40 - 135	
	13C-1,2,3,4,6,7,8-HpCDF	76.5	40 - 135	
	13C-1,2,3,4,7,8,9-HpCDF	91.3	40 - 135	
	13C-OCDF	71.0	40 - 135	
CRS	37Cl-2,3,7,8-TCDD	95.3	40 - 135	

Totals			
Total TCDD	ND	0.139	
Total PeCDD	ND	0.120	
Total HxCDD	ND	0.150	
Total HpCDD	ND	0.178	
Total TCDF	ND	0.124	
Total PeCDF	ND	0.177	
Total HxCDF	0.200		0.278
Total HpCDF	0.287		

Toxic Equivalent Quotient (TEQ) Data [e]

TEQ (Min): 0.00287

a. Sample specific estimated detection limit.

b. Estimated maximum possible concentration.

c. Method detection limit.

d. Lower control limit - upper control limit.

e. Toxic Equivalent Quotient (TEQ) based on International Toxic Equivalent Factors (ITEF).

Analyst: DMS

Approved By: Martha M. Maier 18-Feb-2006 12:05

OPR Results **EPA Method 8290**

Matrix:	Solid	QC Batch No.:	7728	Lab Sample:	0-OPR001
Sample Size:	10.0 g	Date Extracted:	7-Feb-06	Date Analyzed DB-5:	9-Feb-06
				Date Analyzed DB-225:	NA

Analyte	Spike Conc.	Conc. (ng/mL)	OPR Limits
2,3,7,8-TCDD	10.0	9.10	7 - 13
1,2,3,7,8-PeCDD	50.0	49.4	35 - 65
1,2,3,4,7,8-HxCDD	50.0	45.9	35 - 65
1,2,3,6,7,8-HxCDD	50.0	45.6	35 - 65
1,2,3,7,8,9-HxCDD	50.0	44.6	35 - 65
1,2,3,4,6,7,8-HpCDD	50.0	46.6	35 - 65
OCDD	100	92.4	70 - 130
2,3,7,8-TCDF	10.0	9.18	7 - 13
1,2,3,7,8-PeCDF	50.0	45.7	35 - 65
2,3,4,7,8-PeCDF	50.0	45.1	35 - 65
1,2,3,4,7,8-HxCDF	50.0	46.1	35 - 65
1,2,3,6,7,8-HxCDF	50.0	46.1	35 - 65
2,3,4,6,7,8-HxCDF	50.0	46.0	35 - 65
1,2,3,7,8,9-HxCDF	50.0	46.8	35 - 65
1,2,3,4,6,7,8-HpCDF	50.0	46.2	35 - 65
1,2,3,4,7,8,9-HpCDF	50.0	45.7	35 - 65
OCDF	100	86.8	70 - 130

	Labeled Standard	%R	LCL-UCL
IS	13C-2,3,7,8-TCDD	84.8	40 - 135
	13C-1,2,3,7,8-PeCDD	83.0	40 - 135
	13C-1,2,3,4,7,8-HxCDD	88.4	40 - 135
	13C-1,2,3,6,7,8-HxCDD	91.4	40 - 135
	13C-1,2,3,4,6,7,8-HpCDD	86.5	40 - 135
	13C-OCDD	60.6	40 - 135
	13C-2,3,7,8-TCDF	81.4	40 - 135
	13C-1,2,3,7,8-PeCDF	90.7	40 - 135
	13C-2,3,4,7,8-PeCDF	90.4	40 - 135
	13C-1,2,3,4,7,8-HxCDF	92.0	40 - 135
	13C-1,2,3,6,7,8-HxCDF	86.2	40 - 135
	13C-2,3,4,6,7,8-HxCDF	85.2	40 - 135
	13C-1,2,3,7,8,9-HxCDF	73.3	40 - 135
	13C-1,2,3,4,6,7,8-HpCDF	72.9	40 - 135
	13C-1,2,3,4,7,8,9-HpCDF	70.9	40 - 135
	13C-OCDF	56.1	40 - 135
CRS	37Cl-2,3,7,8-TCDD	91.7	40 - 135

Analyst: DMS

Approved By: Martha M. Maier 18-Feb-2006 12:05

Sample ID: **RE73-06-66668** **EPA Method 8290**

Client Data		Sample Data		Laboratory Data			
Name:	Los Alamos National Laboratory	Matrix:	Solid	Lab Sample:	27236-001	Date Received:	27-Jan-06
Project:	4449S	Sample Size:	10.0 g	QC Batch No.:	7728	Date Extracted:	7-Feb-06
Date Collected:	26-Jan-06	%Solids:	98.9	Date Analyzed DB-5:	10-Feb-06	Date Analyzed DB-225:	NA
Time Collected:	1300						

Analyte	Conc. (pg/g)	DL [a]	EMPC [b]	Qualifiers
2,3,7,8-TCDD	ND	0.115		
1,2,3,7,8-PeCDD	ND	0.134		
1,2,3,4,7,8-HxCDD	ND	0.294		
1,2,3,6,7,8-HxCDD	ND	0.302		
1,2,3,7,8,9-HxCDD	ND	0.288		
1,2,3,4,6,7,8-HpCDD	0.644			J
OCDD	3.89			J
2,3,7,8-TCDF	0.751			
1,2,3,7,8-PeCDF	0.206			J
2,3,4,7,8-PeCDF	0.326			J
1,2,3,4,7,8-HxCDF	ND	0.150		
1,2,3,6,7,8-HxCDF	ND	0.156		
2,3,4,6,7,8-HxCDF	ND	0.179		
1,2,3,7,8,9-HxCDF	ND	0.266		
1,2,3,4,6,7,8-HpCDF	0.335			J,B
1,2,3,4,7,8,9-HpCDF	ND	0.215		
OCDF	0.572			J

	Labeled Standard	%R	LCL-UCL [d]	Qualifiers
IS	13C-2,3,7,8-TCDD	90.9	40 - 135	
	13C-1,2,3,7,8-PeCDD	87.8	40 - 135	
	13C-1,2,3,4,7,8-HxCDD	90.1	40 - 135	
	13C-1,2,3,6,7,8-HxCDD	96.5	40 - 135	
	13C-1,2,3,4,6,7,8-HpCDD	98.9	40 - 135	
	13C-OCDD	79.5	40 - 135	
	13C-2,3,7,8-TCDF	88.6	40 - 135	
	13C-1,2,3,7,8-PeCDF	95.4	40 - 135	
	13C-2,3,4,7,8-PeCDF	92.6	40 - 135	
	13C-1,2,3,4,7,8-HxCDF	96.9	40 - 135	
	13C-1,2,3,6,7,8-HxCDF	91.4	40 - 135	
	13C-2,3,4,6,7,8-HxCDF	90.2	40 - 135	
	13C-1,2,3,7,8,9-HxCDF	87.0	40 - 135	
	13C-1,2,3,4,6,7,8-HpCDF	82.0	40 - 135	
	13C-1,2,3,4,7,8,9-HpCDF	101	40 - 135	
	13C-OCDF	84.0	40 - 135	
CRS	37Cl-2,3,7,8-TCDD	99.1	40 - 135	

Totals				
Total TCDD	ND	0.115		
Total PeCDD	ND	0.134		
Total HxCDD	ND	0.294		
Total HpCDD	1.20			
Total TCDF	3.35		3.95	
Total PeCDF	1.63		2.14	
Total HxCDF	0.299			B
Total HpCDF	0.335			B

Toxic Equivalent Quotient (TEQ) Data [e]

TEQ (Min): **0.263**

a. Sample specific estimated detection limit.

b. Estimated maximum possible concentration.

c. Method detection limit.

d. Lower control limit - upper control limit.

e. Toxic Equivalent Quotient (TEQ) based on International Toxic Equivalent Factors (ITEF).

Analyst: JMH

Approved By: Martha M. Maier 18-Feb-2006 12:05

APPENDIX

DATA QUALIFIERS & ABBREVIATIONS

B	This compound was also detected in the method blank.
D	The amount reported is the maximum possible concentration due to possible chlorinated diphenylether interference.
E	The reported value exceeds the calibration range of the instrument.
H	The signal-to-noise ratio is greater than 10:1.
I	Chemical interference
J	The amount detected is below the Lower Calibration Limit of the instrument.
*	See Cover Letter
Conc.	Concentration
DL	Sample-specific estimated Detection Limit
MDL	The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero in the matrix tested.
EMPC	Estimated Maximum Possible Concentration
NA	Not applicable
RL	Reporting Limit – concentrations that corresponds to low calibration point
ND	Not Detected
TEQ	Toxic Equivalency

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.

CERTIFICATIONS

Accrediting Authority	Certificate Number
State of Alaska, DEC	CA413-02
State of Arizona	AZ0639
State of Arkansas, DEQ	05-013-0
State of Arkansas, DOH	Reciprocity through CA
State of California – NELAP Primary AA	02102CA
State of Colorado	
State of Connecticut	PH-0182
State of Florida, DEP	E87777
Commonwealth of Kentucky	90063
State of Louisiana, Health and Hospitals	LA050001
State of Louisiana, DEQ	01977
State of Maine	CA0413
State of Michigan	81178087
State of Mississippi	Reciprocity through CA
Naval Facilities Engineering Service Center	
State of Nevada	CA413
State of New Jersey	CA003
State of New Mexico	Reciprocity through CA
State of New York, DOH	11411
State of North Carolina	06700
State of North Dakota, DOH	R-078
State of Oklahoma	D9919
State of Oregon	CA200001-002
State of Pennsylvania	68-00490
State of South Carolina	87002001
State of Tennessee	02996
State of Texas	TX247-2005A
U.S. Army Corps of Engineers	
State of Utah	9169330940
Commonwealth of Virginia	00013
State of Washington	C1285
State of Wisconsin	998036160
State of Wyoming	8TMS-Q

Thursday, January 26, 2006

CHAIN OF CUSTODY DOCUMENT NUMBER: 4449SC

Los Alamos
NATIONAL LABORATORY

REQUEST NUMBER: 4449S

ANALYSIS TYPE: ORGANIC

ATTN: Shelly Weagraff
Alta Analytical Lab Incorporated
5070 Robert J. Mathews Parkway
El Dorado Hills, CA 95762

27236
1.9°C

SAMPLE ID	CONT ID	CONTAINER DESCRIPTION	ORDER TEMPLATE CODE	PRESERVATIVE	MATRIX
RE73-06-66668	1	125 ML GLASS	8290	ICE	S
RE73-06-66668	2	125 ML GLASS	8290	ICE	S

Final Page of CHAIN OF CUSTODY DOCUMENT FOR REQUEST NUMBER 4449S Page 1

Relinquished By:		Date	Time	Received By:		Date	Time
		1/26/06	2:30	B. Benedict	Bethany L. Benedict	1/27/06	0850
PRINTED NAME	SIGNATURE			PRINTED NAME	SIGNATURE		
PRINTED NAME	SIGNATURE			PRINTED NAME	SIGNATURE		
PRINTED NAME	SIGNATURE			PRINTED NAME	SIGNATURE		

Received for DISPOSAL By:		Date	Time	Remarks:
PRINTED NAME	SIGNATURE			

Thursday, January 26, 2006

REQUEST NUMBER: 4449S

ANALYSIS TYPE: ORGANIC

27236
1.9°C

Los Alamos
NATIONAL LABORATORY

ATTN: Shelly Weagraff
Alta Analytical Lab Incorporated
5070 Robert J. Mathews Parkway
El Dorado Hills, CA 95762

Please analyze the enclosed samples according to the schedule indicated:

SHIP DATE: 01/26/2006
REPORT DUE: 02/25/2006
TURN AROUND REQ'D: 30

RAD SCREENING: NOT REQ
COMMENTS:

These samples are on:

LANL Request Number: 4449S
Per Agreement Number: 176450010
Project Cost Code: MT3R0223KGT0

LANL ER SMO CONTACT:
Signature:

Page 1

METHOD CODE	SAMPLE ID	CONT ID	SAMPLE MATRIX	DATE SAMPLED	COMMENTS
SW-846:8290	RE73-06-66668	2	S	01/26/2006	
~~SW-846:8290~~	~~RE73-06-66668~~	~~1~~	~~S~~	~~01/26/2006~~	KE 1/26/06

Final Page of REQUEST NUMBER 4449S

Page 1

SAMPLE LOG-IN CHECKLIST

Alta Project #: 27236

Samples Arrival:	**Date/Time** 1/27/06 0850	**Initials:** BSB	**Location:** WR-2
Logged In:	**Date/Time** 1/31/06 1021	**Initials:** BSB	**Location:** WR-2

Delivered By:	FedEx	UPS	Cal	DHL	Hand Delivered	Other

Preservation:	Ice	Blue Ice	Dry Ice	None

Temp °C	.9°C	**Time:** 0900	**Thermometer ID:** DT-20

		YES	NO	NA
Adequate Sample Volume Received? *		✓		
Holding Time Acceptable?		✓		
Shipping Container(s) Intact?		✓		
Shipping Custody Seals Intact?		✓		
Shipping Documentation Present?		✓		
Airbill	Trk # 7209 7837 7057	✓		
Sample Container Intact?		✓		
Sample Custody Seals Intact?		✓		
Chain of Custody / Sample Documentation Present?		✓		
COC Anomaly/Sample Acceptance Form completed?			✓	
If Chlorinated or Drinking Water Samples, Acceptable Preservation?				✓

$Na_2S_2O_3$ Preservation Documented?			COC	Sample Container	None
Shipping Container	Alta	Client	Retain	Return	Dispose

Comments:

sample time 1300

Samplers initials on sample label

* rec'd 1 container of sampl RE73-06-66668

Alta Project	Alta QC Batch	Alta Sample ID	Sample ID	Date Sampled	Date Received	Matrix	TEQ Type	TEQ(Min)
27236	7728	001	RE73-06-66668	1/26/2006	1/27/2006	Solid	EPA(Default)	0.263
27236	7728	001	RE73-06-66668	1/26/2006	1/27/2006	Solid	EPA(Default)	0.263
27236	7728	001	RE73-06-66668	1/26/2006	1/27/2006	Solid	EPA(Default)	0.263
27236	7728	001	RE73-06-66668	1/26/2006	1/27/2006	Solid	EPA(Default)	0.263
27236	7728	001	RE73-06-66668	1/26/2006	1/27/2006	Solid	EPA(Default)	0.263
27236	7728	001	RE73-06-66668	1/26/2006	1/27/2006	Solid	EPA(Default)	0.263
27236	7728	001	RE73-06-66668	1/26/2006	1/27/2006	Solid	EPA(Default)	0.263
27236	7728	001	RE73-06-66668	1/26/2006	1/27/2006	Solid	EPA(Default)	0.263
27236	7728	001	RE73-06-66668	1/26/2006	1/27/2006	Solid	EPA(Default)	0.263
27236	7728	001	RE73-06-66668	1/26/2006	1/27/2006	Solid	EPA(Default)	0.263
27236	7728	001	RE73-06-66668	1/26/2006	1/27/2006	Solid	EPA(Default)	0.263
27236	7728	001	RE73-06-66668	1/26/2006	1/27/2006	Solid	EPA(Default)	0.263
27236	7728	001	RE73-06-66668	1/26/2006	1/27/2006	Solid	EPA(Default)	0.263
27236	7728	001	RE73-06-66668	1/26/2006	1/27/2006	Solid	EPA(Default)	0.263
27236	7728	001	RE73-06-66668	1/26/2006	1/27/2006	Solid	EPA(Default)	0.263
27236	7728	001	RE73-06-66668	1/26/2006	1/27/2006	Solid	EPA(Default)	0.263
27236	7728	001	RE73-06-66668	1/26/2006	1/27/2006	Solid	EPA(Default)	0.263
27236	7728	001	RE73-06-66668	1/26/2006	1/27/2006	Solid	EPA(Default)	0.263
27236	7728	001	RE73-06-66668	1/26/2006	1/27/2006	Solid	EPA(Default)	0.263
27236	7728	001	RE73-06-66668	1/26/2006	1/27/2006	Solid	EPA(Default)	0.263
27236	7728	001	RE73-06-66668	1/26/2006	1/27/2006	Solid	EPA(Default)	0.263
27236	7728	001	RE73-06-66668	1/26/2006	1/27/2006	Solid	EPA(Default)	0.263
27236	7728	001	RE73-06-66668	1/26/2006	1/27/2006	Solid	EPA(Default)	0.263
27236	7728	001	RE73-06-66668	1/26/2006	1/27/2006	Solid	EPA(Default)	0.263
27236	7728	001	RE73-06-66668	1/26/2006	1/27/2006	Solid	EPA(Default)	0.263
27236	7728	001	RE73-06-66668	1/26/2006	1/27/2006	Solid	EPA(Default)	0.263
27236	7728	001	RE73-06-66668	1/26/2006	1/27/2006	Solid	EPA(Default)	0.263
27236	7728	001	RE73-06-66668	1/26/2006	1/27/2006	Solid	EPA(Default)	0.263
27236	7728	001	RE73-06-66668	1/26/2006	1/27/2006	Solid	EPA(Default)	0.263
27236	7728	001	RE73-06-66668	1/26/2006	1/27/2006	Solid	EPA(Default)	0.263
27236	7728	001	RE73-06-66668	1/26/2006	1/27/2006	Solid	EPA(Default)	0.263
27236	7728	001	RE73-06-66668	1/26/2006	1/27/2006	Solid	EPA(Default)	0.263
27236	7728	001	RE73-06-66668	1/26/2006	1/27/2006	Solid	EPA(Default)	0.263
27236	7728	001	RE73-06-66668	1/26/2006	1/27/2006	Solid	EPA(Default)	0.263
27236	7728	001	RE73-06-66668	1/26/2006	1/27/2006	Solid	EPA(Default)	0.263
27236	7728	001	RE73-06-66668	1/26/2006	1/27/2006	Solid	EPA(Default)	0.263
27236	7728	001	RE73-06-66668	1/26/2006	1/27/2006	Solid	EPA(Default)	0.263
27236	7728	MB001					EPA(Default)	0.00287
27236	7728	MB001					EPA(Default)	0.00287
27236	7728	MB001					EPA(Default)	0.00287
27236	7728	MB001					EPA(Default)	0.00287
27236	7728	MB001					EPA(Default)	0.00287
27236	7728	MB001					EPA(Default)	0.00287
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27236	7728 MB001	EPA(Default)	0.00287
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27236	7728 MB001	EPA(Default)	0.00287
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27236	7728 MB001	EPA(Default)	0.00287
27236	7728 MB001	EPA(Default)	0.00287
27236	7728 MB001	EPA(Default)	0.00287
27236	7728 MB001	EPA(Default)	0.00287
27236	7728 MB001	EPA(Default)	0.00287
27236	7728 MB001	EPA(Default)	0.00287
27236	7728 OPR001	EPA(Default)	0
27236	7728 OPR001	EPA(Default)	0
27236	7728 OPR001	EPA(Default)	0
27236	7728 OPR001	EPA(Default)	0
27236	7728 OPR001	EPA(Default)	0
27236	7728 OPR001	EPA(Default)	0
27236	7728 OPR001	EPA(Default)	0
27236	7728 OPR001	EPA(Default)	0
27236	7728 OPR001	EPA(Default)	0
27236	7728 OPR001	EPA(Default)	0
27236	7728 OPR001	EPA(Default)	0
27236	7728 OPR001	EPA(Default)	0
27236	7728 OPR001	EPA(Default)	0
27236	7728 OPR001	EPA(Default)	0
27236	7728 OPR001	EPA(Default)	0
27236	7728 OPR001	EPA(Default)	0
27236	7728 OPR001	EPA(Default)	0
27236	7728 OPR001	EPA(Default)	0
27236	7728 OPR001	EPA(Default)	0
27236	7728 OPR001	EPA(Default)	0
27236	7728 OPR001	EPA(Default)	0
27236	7728 OPR001	EPA(Default)	0
27236	7728 OPR001	EPA(Default)	0
27236	7728 OPR001	EPA(Default)	0
27236	7728 OPR001	EPA(Default)	0
27236	7728 OPR001	EPA(Default)	0
27236	7728 OPR001	EPA(Default)	0
27236	7728 OPR001	EPA(Default)	0
27236	7728 OPR001	EPA(Default)	0
27236	7728 OPR001	EPA(Default)	0
27236	7728 OPR001	EPA(Default)	0
27236	7728 OPR001	EPA(Default)	0
27236	7728 OPR001	EPA(Default)	0
27236	7728 OPR001	EPA(Default)	0
27236	7728 OPR001	EPA(Default)	0
27236	7728 OPR001	EPA(Default)	0

27236	7728 OPR001	EPA(Default)	0
27236	7728 OPR001	EPA(Default)	0
27236	7728 OPR001	EPA(Default)	0
27236	7728 OPR001	EPA(Default)	0
27236	7728 OPR001	EPA(Default)	0
27236	7728 OPR001	EPA(Default)	0
27236	7728 OPR001	EPA(Default)	0
27236	7728 OPR001	EPA(Default)	0
27236	7728 OPR001	EPA(Default)	0
27236	7728 OPR001	EPA(Default)	0
27236	7728 OPR001	EPA(Default)	0
27236	7728 OPR001	EPA(Default)	0
27236	7728 OPR001	EPA(Default)	0
27236	7728 OPR001	EPA(Default)	0
27236	7728 OPR001	EPA(Default)	0

TEQ(Max)	TEQ(Risk)	Method	Project Name	Date Extracted	Sample Size	Sample Size Units	%Solids
0.61	0.436	EPA Method 8290	4449S	2/7/2006	10.05	g	98.892992
0.61	0.436	EPA Method 8290	4449S	2/7/2006	10.05	g	98.892992
0.61	0.436	EPA Method 8290	4449S	2/7/2006	10.05	g	98.892992
0.61	0.436	EPA Method 8290	4449S	2/7/2006	10.05	g	98.892992
0.61	0.436	EPA Method 8290	4449S	2/7/2006	10.05	g	98.892992
0.61	0.436	EPA Method 8290	4449S	2/7/2006	10.05	g	98.892992
0.61	0.436	EPA Method 8290	4449S	2/7/2006	10.05	g	98.892992
0.61	0.436	EPA Method 8290	4449S	2/7/2006	10.05	g	98.892992
0.61	0.436	EPA Method 8290	4449S	2/7/2006	10.05	g	98.892992
0.61	0.436	EPA Method 8290	4449S	2/7/2006	10.05	g	98.892992
0.61	0.436	EPA Method 8290	4449S	2/7/2006	10.05	g	98.892992
0.61	0.436	EPA Method 8290	4449S	2/7/2006	10.05	g	98.892992
0.61	0.436	EPA Method 8290	4449S	2/7/2006	10.05	g	98.892992
0.61	0.436	EPA Method 8290	4449S	2/7/2006	10.05	g	98.892992
0.61	0.436	EPA Method 8290	4449S	2/7/2006	10.05	g	98.892992
0.61	0.436	EPA Method 8290	4449S	2/7/2006	10.05	g	98.892992
0.61	0.436	EPA Method 8290	4449S	2/7/2006	10.05	g	98.892992
0.61	0.436	EPA Method 8290	4449S	2/7/2006	10.05	g	98.892992
0.61	0.436	EPA Method 8290	4449S	2/7/2006	10.05	g	98.892992
0.61	0.436	EPA Method 8290	4449S	2/7/2006	10.05	g	98.892992
0.61	0.436	EPA Method 8290	4449S	2/7/2006	10.05	g	98.892992
0.61	0.436	EPA Method 8290	4449S	2/7/2006	10.05	g	98.892992
0.61	0.436	EPA Method 8290	4449S	2/7/2006	10.05	g	98.892992
0.61	0.436	EPA Method 8290	4449S	2/7/2006	10.05	g	98.892992
0.61	0.436	EPA Method 8290	4449S	2/7/2006	10.05	g	98.892992
0.61	0.436	EPA Method 8290	4449S	2/7/2006	10.05	g	98.892992
0.61	0.436	EPA Method 8290	4449S	2/7/2006	10.05	g	98.892992
0.61	0.436	EPA Method 8290	4449S	2/7/2006	10.05	g	98.892992
0.61	0.436	EPA Method 8290	4449S	2/7/2006	10.05	g	98.892992
0.61	0.436	EPA Method 8290	4449S	2/7/2006	10.05	g	98.892992
0.61	0.436	EPA Method 8290	4449S	2/7/2006	10.05	g	98.892992
0.61	0.436	EPA Method 8290	4449S	2/7/2006	10.05	g	98.892992
0.61	0.436	EPA Method 8290	4449S	2/7/2006	10.05	g	98.892992
0.61	0.436	EPA Method 8290	4449S	2/7/2006	10.05	g	98.892992
0.61	0.436	EPA Method 8290	4449S	2/7/2006	10.05	g	98.892992
0.61	0.436	EPA Method 8290	4449S	2/7/2006	10.05	g	98.892992
0.61	0.436	EPA Method 8290	4449S	2/7/2006	10.05	g	98.892992
0.61	0.436	EPA Method 8290	4449S	2/7/2006	10.05	g	98.892992
0.377	0.19	EPA Method 8290	4449S	2/7/2006	10	g	
0.377	0.19	EPA Method 8290	4449S	2/7/2006	10	g	
0.377	0.19	EPA Method 8290	4449S	2/7/2006	10	g	
0.377	0.19	EPA Method 8290	4449S	2/7/2006	10	g	
0.377	0.19	EPA Method 8290	4449S	2/7/2006	10	g	
0.377	0.19	EPA Method 8290	4449S	2/7/2006	10	g	
0.377	0.19	EPA Method 8290	4449S	2/7/2006	10	g	
0.377	0.19	EPA Method 8290	4449S	2/7/2006	10	g	
0.377	0.19	EPA Method 8290	4449S	2/7/2006	10	g	

0.377	0.19	EPA Method 8290	4449S	2/7/2006	10 g
0.377	0.19	EPA Method 8290	4449S	2/7/2006	10 g
0.377	0.19	EPA Method 8290	4449S	2/7/2006	10 g
0.377	0.19	EPA Method 8290	4449S	2/7/2006	10 g
0.377	0.19	EPA Method 8290	4449S	2/7/2006	10 g
0.377	0.19	EPA Method 8290	4449S	2/7/2006	10 g
0.377	0.19	EPA Method 8290	4449S	2/7/2006	10 g
0.377	0.19	EPA Method 8290	4449S	2/7/2006	10 g
0.377	0.19	EPA Method 8290	4449S	2/7/2006	10 g
0.377	0.19	EPA Method 8290	4449S	2/7/2006	10 g
0.377	0.19	EPA Method 8290	4449S	2/7/2006	10 g
0.377	0.19	EPA Method 8290	4449S	2/7/2006	10 g
0.377	0.19	EPA Method 8290	4449S	2/7/2006	10 g
0.377	0.19	EPA Method 8290	4449S	2/7/2006	10 g
0.377	0.19	EPA Method 8290	4449S	2/7/2006	10 g
0.377	0.19	EPA Method 8290	4449S	2/7/2006	10 g
0.377	0.19	EPA Method 8290	4449S	2/7/2006	10 g
0.377	0.19	EPA Method 8290	4449S	2/7/2006	10 g
0.377	0.19	EPA Method 8290	4449S	2/7/2006	10 g
0.377	0.19	EPA Method 8290	4449S	2/7/2006	10 g
0.377	0.19	EPA Method 8290	4449S	2/7/2006	10 g
0.377	0.19	EPA Method 8290	4449S	2/7/2006	10 g
0.377	0.19	EPA Method 8290	4449S	2/7/2006	10 g
0.377	0.19	EPA Method 8290	4449S	2/7/2006	10 g
0.377	0.19	EPA Method 8290	4449S	2/7/2006	10 g
0.377	0.19	EPA Method 8290	4449S	2/7/2006	10 g
0.377	0.19	EPA Method 8290	4449S	2/7/2006	10 g
0.377	0.19	EPA Method 8290	4449S	2/7/2006	10 g
0.377	0.19	EPA Method 8290	4449S	2/7/2006	10 g
0.377	0.19	EPA Method 8290	4449S	2/7/2006	10 g
0.377	0.19	EPA Method 8290	4449S	2/7/2006	10 g
0	0	EPA Method 8290	4449S	2/7/2006	10 g
0	0	EPA Method 8290	4449S	2/7/2006	10 g
0	0	EPA Method 8290	4449S	2/7/2006	10 g
0	0	EPA Method 8290	4449S	2/7/2006	10 g
0	0	EPA Method 8290	4449S	2/7/2006	10 g
0	0	EPA Method 8290	4449S	2/7/2006	10 g
0	0	EPA Method 8290	4449S	2/7/2006	10 g
0	0	EPA Method 8290	4449S	2/7/2006	10 g
0	0	EPA Method 8290	4449S	2/7/2006	10 g
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0	0	EPA Method 8290	4449S	2/7/2006	10 g
0	0	EPA Method 8290	4449S	2/7/2006	10 g
0	0	EPA Method 8290	4449S	2/7/2006	10 g
0	0	EPA Method 8290	4449S	2/7/2006	10 g
0	0	EPA Method 8290	4449S	2/7/2006	10 g
0	0	EPA Method 8290	4449S	2/7/2006	10 g
0	0	EPA Method 8290	4449S	2/7/2006	10 g
0	0	EPA Method 8290	4449S	2/7/2006	10 g
0	0	EPA Method 8290	4449S	2/7/2006	10 g
0	0	EPA Method 8290	4449S	2/7/2006	10 g

0	0	EPA Method 8290	4449S	2/7/2006	10 g
0	0	EPA Method 8290	4449S	2/7/2006	10 g
0	0	EPA Method 8290	4449S	2/7/2006	10 g
0	0	EPA Method 8290	4449S	2/7/2006	10 g
0	0	EPA Method 8290	4449S	2/7/2006	10 g
0	0	EPA Method 8290	4449S	2/7/2006	10 g
0	0	EPA Method 8290	4449S	2/7/2006	10 g
0	0	EPA Method 8290	4449S	2/7/2006	10 g
0	0	EPA Method 8290	4449S	2/7/2006	10 g
0	0	EPA Method 8290	4449S	2/7/2006	10 g
0	0	EPA Method 8290	4449S	2/7/2006	10 g
0	0	EPA Method 8290	4449S	2/7/2006	10 g
0	0	EPA Method 8290	4449S	2/7/2006	10 g
0	0	EPA Method 8290	4449S	2/7/2006	10 g

%Lipids	Date Analyzed	Time Analyzed	CAS Number	Analyte	Concentration	Report Units	Detection Limit
	2/10/2006	5:55	1746-01-6	2,3,7,8-TCDD	0	pg/g	0.115
	2/10/2006	5:55	40321-76-4	1,2,3,7,8-PeCDD	0	pg/g	0.134
	2/10/2006	5:55	39227-28-6	1,2,3,4,7,8-HxCDD	0	pg/g	0.294
	2/10/2006	5:55	57653-85-7	1,2,3,6,7,8-HxCDD	0	pg/g	0.302
	2/10/2006	5:55	19408-74-3	1,2,3,7,8,9-HxCDD	0	pg/g	0.288
	2/10/2006	5:55	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.644	pg/g	0
	2/10/2006	5:55	3268-87-9	OCDD	3.89	pg/g	0
	2/10/2006	5:55	51207-31-9	2,3,7,8-TCDF	0.751	pg/g	0
	2/10/2006	5:55	57117-41-6	1,2,3,7,8-PeCDF	0.206	pg/g	0
	2/10/2006	5:55	57117-31-4	2,3,4,7,8-PeCDF	0.326	pg/g	0
	2/10/2006	5:55	70648-26-9	1,2,3,4,7,8-HxCDF	0	pg/g	0.15
	2/10/2006	5:55	57117-44-9	1,2,3,6,7,8-HxCDF	0	pg/g	0.156
	2/10/2006	5:55	60851-34-5	2,3,4,6,7,8-HxCDF	0	pg/g	0.179
	2/10/2006	5:55	72918-21-9	1,2,3,7,8,9-HxCDF	0	pg/g	0.266
	2/10/2006	5:55	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.335	pg/g	0
	2/10/2006	5:55	55673-89-7	1,2,3,4,7,8,9-HpCDF	0	pg/g	0.215
	2/10/2006	5:55	39001-02-0	OCDF	0.572	pg/g	0
	2/10/2006	5:55	41903-57-5	Total TCDD	0	pg/g	0.115
	2/10/2006	5:55	36088-22-9	Total PeCDD	0	pg/g	0.134
	2/10/2006	5:55	34465-46-8	Total HxCDD	0	pg/g	0.294
	2/10/2006	5:55	37871-00-4	Total HpCDD	1.2	pg/g	0
	2/10/2006	5:55	55722-27-5	Total TCDF	3.35	pg/g	0
	2/10/2006	5:55	30402-15-4	Total PeCDF	1.63	pg/g	0
	2/10/2006	5:55	55684-94-1	Total HxCDF	0.299	pg/g	0
	2/10/2006	5:55	38998-75-3	Total HpCDF	0.335	pg/g	0
	2/10/2006	5:55	76523-40-5	13C-2,3,7,8-TCDD	183	pg/g	0
	2/10/2006	5:55	109719-79-1	13C-1,2,3,7,8-PeCDD	177	pg/g	0
	2/10/2006	5:55	109719-80-4	13C-1,2,3,4,7,8-HxCDD	181	pg/g	0
	2/10/2006	5:55	109719-81-5	13C-1,2,3,6,7,8-HxCDD	194	pg/g	0
	2/10/2006	5:55	109719-83-7	13C-1,2,3,4,6,7,8-HpCDD	199	pg/g	0
	2/10/2006	5:55	114423-97-1	13C-OCDD	320	pg/g	0
	2/10/2006	5:55	89059-46-1	13C-2,3,7,8-TCDF	178	pg/g	0
	2/10/2006	5:55	109719-77-9	13C-1,2,3,7,8-PeCDF	192	pg/g	0
	2/10/2006	5:55	116843-02-8	13C-2,3,4,7,8-PeCDF	186	pg/g	0
	2/10/2006	5:55	114423-98-2	13C-1,2,3,4,7,8-HxCDF	195	pg/g	0
	2/10/2006	5:55	116843-03-9	13C-1,2,3,6,7,8-HxCDF	184	pg/g	0
	2/10/2006	5:55	116843-05-1	13C-2,3,4,6,7,8-HxCDF	182	pg/g	0
	2/10/2006	5:55	116843-04-0	13C-1,2,3,7,8,9-HxCDF	175	pg/g	0
	2/10/2006	5:55	109719-84-8	13C-1,2,3,4,6,7,8-HpCDF	165	pg/g	0
	2/10/2006	5:55	109719-94-0	13C-1,2,3,4,7,8,9-HpCDF	203	pg/g	0
	2/10/2006	5:55	109719-78-0	13C-OCDF	338	pg/g	0
	2/10/2006	5:55	85508-50-5	37Cl-2,3,7,8-TCDD	79.8	pg/g	0
	2/10/2006	0:11	1746-01-6	2,3,7,8-TCDD	0	pg/g	0.139
	2/10/2006	0:11	40321-76-4	1,2,3,7,8-PeCDD	0	pg/g	0.12
	2/10/2006	0:11	39227-28-6	1,2,3,4,7,8-HxCDD	0	pg/g	0.146
	2/10/2006	0:11	57653-85-7	1,2,3,6,7,8-HxCDD	0	pg/g	0.156
	2/10/2006	0:11	19408-74-3	1,2,3,7,8,9-HxCDD	0	pg/g	0.147
	2/10/2006	0:11	35822-46-9	1,2,3,4,6,7,8-HpCDD	0	pg/g	0.178
	2/10/2006	0:11	3268-87-9	OCDD	0	pg/g	0.318
	2/10/2006	0:11	51207-31-9	2,3,7,8-TCDF	0	pg/g	0.124
	2/10/2006	0:11	57117-41-6	1,2,3,7,8-PeCDF	0	pg/g	0.177

2/10/2006	0:11	57117-31-4	2,3,4,7,8-PeCDF	0	pg/g	0.177
2/10/2006	0:11	70648-26-9	1,2,3,4,7,8-HxCDF	0	pg/g	0.035
2/10/2006	0:11	57117-44-9	1,2,3,6,7,8-HxCDF	0	pg/g	0.0363
2/10/2006	0:11	60851-34-5	2,3,4,6,7,8-HxCDF	0	pg/g	0.0419
2/10/2006	0:11	72918-21-9	1,2,3,7,8,9-HxCDF	0	pg/g	0.0609
2/10/2006	0:11	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.287	pg/g	0
2/10/2006	0:11	55673-89-7	1,2,3,4,7,8,9-HpCDF	0	pg/g	0.103
2/10/2006	0:11	39001-02-0	OCDF	0	pg/g	0.298
2/10/2006	0:11	41903-57-5	Total TCDD	0	pg/g	0.139
2/10/2006	0:11	36088-22-9	Total PeCDD	0	pg/g	0.12
2/10/2006	0:11	34465-46-8	Total HxCDD	0	pg/g	0.15
2/10/2006	0:11	37871-00-4	Total HpCDD	0	pg/g	0.178
2/10/2006	0:11	55722-27-5	Total TCDF	0	pg/g	0.124
2/10/2006	0:11	30402-15-4	Total PeCDF	0	pg/g	0.177
2/10/2006	0:11	55684-94-1	Total HxCDF	0.2	pg/g	0
2/10/2006	0:11	38998-75-3	Total HpCDF	0.287	pg/g	0
2/10/2006	0:11	76523-40-5	13C-2,3,7,8-TCDD	167	pg/g	0
2/10/2006	0:11	109719-79-1	13C-1,2,3,7,8-PeCDD	156	pg/g	0
2/10/2006	0:11	109719-80-4	13C-1,2,3,4,7,8-HxCDD	165	pg/g	0
2/10/2006	0:11	109719-81-5	13C-1,2,3,6,7,8-HxCDD	171	pg/g	0
2/10/2006	0:11	109719-83-7	13C-1,2,3,4,6,7,8-HpCDD	191	pg/g	0
2/10/2006	0:11	114423-97-1	13C-OCDD	258	pg/g	0
2/10/2006	0:11	89059-46-1	13C-2,3,7,8-TCDF	167	pg/g	0
2/10/2006	0:11	109719-77-9	13C-1,2,3,7,8-PeCDF	173	pg/g	0
2/10/2006	0:11	116843-02-8	13C-2,3,4,7,8-PeCDF	170	pg/g	0
2/10/2006	0:11	114423-98-2	13C-1,2,3,4,7,8-HxCDF	171	pg/g	0
2/10/2006	0:11	116843-03-9	13C-1,2,3,6,7,8-HxCDF	163	pg/g	0
2/10/2006	0:11	116843-05-1	13C-2,3,4,6,7,8-HxCDF	161	pg/g	0
2/10/2006	0:11	116843-04-0	13C-1,2,3,7,8,9-HxCDF	157	pg/g	0
2/10/2006	0:11	109719-84-8	13C-1,2,3,4,6,7,8-HpCDF	153	pg/g	0
2/10/2006	0:11	109719-94-0	13C-1,2,3,4,7,8,9-HpCDF	183	pg/g	0
2/10/2006	0:11	109719-78-0	13C-OCDF	284	pg/g	0
2/10/2006	0:11	85508-50-5	37Cl-2,3,7,8-TCDD	76.2	pg/g	0
2/9/2006	22:33	1746-01-6	2,3,7,8-TCDD	9.1	ng/mL	0
2/9/2006	22:33	40321-76-4	1,2,3,7,8-PeCDD	49.4	ng/mL	0
2/9/2006	22:33	39227-28-6	1,2,3,4,7,8-HxCDD	45.9	ng/mL	0
2/9/2006	22:33	57653-85-7	1,2,3,6,7,8-HxCDD	45.6	ng/mL	0
2/9/2006	22:33	19408-74-3	1,2,3,7,8,9-HxCDD	44.6	ng/mL	0
2/9/2006	22:33	35822-46-9	1,2,3,4,6,7,8-HpCDD	46.6	ng/mL	0
2/9/2006	22:33	3268-87-9	OCDD	92.4	ng/mL	0
2/9/2006	22:33	51207-31-9	2,3,7,8-TCDF	9.18	ng/mL	0
2/9/2006	22:33	57117-41-6	1,2,3,7,8-PeCDF	45.7	ng/mL	0
2/9/2006	22:33	57117-31-4	2,3,4,7,8-PeCDF	45.1	ng/mL	0
2/9/2006	22:33	70648-26-9	1,2,3,4,7,8-HxCDF	46.1	ng/mL	0
2/9/2006	22:33	57117-44-9	1,2,3,6,7,8-HxCDF	46.1	ng/mL	0
2/9/2006	22:33	60851-34-5	2,3,4,6,7,8-HxCDF	46	ng/mL	0
2/9/2006	22:33	72918-21-9	1,2,3,7,8,9-HxCDF	46.8	ng/mL	0
2/9/2006	22:33	67562-39-4	1,2,3,4,6,7,8-HpCDF	46.2	ng/mL	0
2/9/2006	22:33	55673-89-7	1,2,3,4,7,8,9-HpCDF	45.7	ng/mL	0
2/9/2006	22:33	39001-02-0	OCDF	86.8	ng/mL	0
2/9/2006	22:33	76523-40-5	13C-2,3,7,8-TCDD	84.8	ng/mL	0
2/9/2006	22:33	109719-79-1	13C-1,2,3,7,8-PeCDD	83	ng/mL	0

2/9/2006	22:33	109719-80-4	13C-1,2,3,4,7,8-HxCDD	88.4 ng/mL	0
2/9/2006	22:33	109719-81-5	13C-1,2,3,6,7,8-HxCDD	91.4 ng/mL	0
2/9/2006	22:33	109719-83-7	13C-1,2,3,4,6,7,8-HpCDD	86.5 ng/mL	0
2/9/2006	22:33	114423-97-1	13C-OCDD	121 ng/mL	0
2/9/2006	22:33	89059-46-1	13C-2,3,7,8-TCDF	81.4 ng/mL	0
2/9/2006	22:33	109719-77-9	13C-1,2,3,7,8-PeCDF	90.7 ng/mL	0
2/9/2006	22:33	116843-02-8	13C-2,3,4,7,8-PeCDF	90.4 ng/mL	0
2/9/2006	22:33	114423-98-2	13C-1,2,3,4,7,8-HxCDF	92 ng/mL	0
2/9/2006	22:33	116843-03-9	13C-1,2,3,6,7,8-HxCDF	86.2 ng/mL	0
2/9/2006	22:33	116843-05-1	13C-2,3,4,6,7,8-HxCDF	85.2 ng/mL	0
2/9/2006	22:33	116843-04-0	13C-1,2,3,7,8,9-HxCDF	73.3 ng/mL	0
2/9/2006	22:33	109719-84-8	13C-1,2,3,4,6,7,8-HpCDF	72.9 ng/mL	0
2/9/2006	22:33	109719-94-0	13C-1,2,3,4,7,8,9-HpCDF	70.9 ng/mL	0
2/9/2006	22:33	109719-78-0	13C-OCDF	112 ng/mL	0
2/9/2006	22:33	85508-50-5	37Cl-2,3,7,8-TCDD	36.7 ng/mL	0

EMPC	%Recovery	Qualifiers
0	0	
0	0	
0	0	
0	0	
0	0	
0	0	J
0	0	J
0	0	
0	0	J
0	0	J
0	0	
0	0	
0	0	
0	0	
0	0	J,B
0	0	
0	0	J
0	0	
0	0	
0	0	
0	0	
3.95	0	
2.14	0	
0	0	B
0	0	B
	90.9	
	87.8	
	90.1	
	96.5	
	98.9	
	79.5	
	88.6	
	95.4	
	92.6	
	96.9	
	91.4	
	90.2	
	87	
	82	
	101	
	84	
	99.1	
0	0	
0	0	
0	0	
0	0	
0	0	
0	0	
0	0	
0	0	
0	0	

0	0	
0	0	
0	0	
0	0	
0	0	
0	0	J
0	0	
0	0	
0	0	
0	0	
0	0	
0	0	
0	0	
0	0	
0.278	0	
0	0	
	83.4	
	78	
	82.5	
	85.6	
	95.6	
	64.5	
	83.3	
	86.4	
	85	
	85.3	
	81.5	
	80.7	
	78.7	
	76.5	
	91.3	
	71	
	95.3	
0	91	
0	98.8	
0	91.8	
0	91.2	
0	89.2	
0	93.2	
0	92.4	
0	91.8	
0	91.4	
0	90.2	
0	92.2	
0	92.2	
0	92	
0	93.6	
0	92.4	
0	91.4	
0	86.8	
	84.8	
	83	

88.4
91.4
86.5
60.6
81.4
90.7
90.4
92
86.2
85.2
73.3
72.9
70.9
56.1
91.7