APPENDIX G

Section 62

Outfall 018 - BMP Effectiveness January 18- 29, 2010

Test America Analytical Laboratory Report

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
618 Michillinda Avenue, Suite 200
Arcadia, CA 91007
Attention: Bronwyn Kelly

Project: BMP Effectiveness
Monitoring Program

Sampled: 01/18/10-01/21/10
Received: 01/22/10
Issued: 02/02/10 06:22

NELAP #01108CA California ELAP#2706 CSDLAC #10256 AZ #AZ0671 NV #CA01531

CASE NARRATIVE

SAMPLE RECEIPT: Samples were received intact, at 3°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: Results that fall between the MDL and RL are 'J' flagged.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

LABORATORY ID	CLIENT ID	MATRIX
ITA1965-01	018 EFF-1	Water
ITA1965-02	018 EFF-2	Water
ITA1965-03	018 EFF-3	Water
ITA1965-04	018 EFF-4	Water
ITA1965-05	018 EFF-5	Water
ITA1965-06	018 EFF-6	Water

Reviewed By:

Debby Wilson

TestAmerica Irvine

Debby Wilson For Joseph Doak
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

MWH-Pasadena/Boeing
618 Michillinda Avenue, Suite 200
Arcadia, CA 91007
Attention: Bronwyn Kelly

Project ID: BMP Effectiveness Monitoring Program
Report Number: ITA1965

Sampled: 01/18/10-01/21/10
Received: 01/22/10

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITA1965-01 (018 EFF-1 - Water)					**Sampled: 01/18/10**				
Reporting Units: g/cc									
Density	Displacement	10A2425	N/A	NA	**1.0**	1	01/26/10	01/26/10	
Sample ID: ITA1965-02 (018 EFF-2 - Water)					**Sampled: 01/19/10**				
Reporting Units: g/cc									
Density	Displacement	10A2425	N/A	NA	**1.0**	1	01/26/10	01/26/10	
Sample ID: ITA1965-03 (018 EFF-3 - Water)					**Sampled: 01/20/10**				
Reporting Units: g/cc									
Density	Displacement	10A2425	N/A	NA	**1.0**	1	01/26/10	01/26/10	
Sample ID: ITA1965-04 (018 EFF-4 - Water)					**Sampled: 01/20/10**				
Reporting Units: g/cc									
Density	Displacement	10A2425	N/A	NA	**1.0**	1	01/26/10	01/26/10	
Sample ID: ITA1965-05 (018 EFF-5 - Water)					**Sampled: 01/21/10**				
Reporting Units: g/cc									
Density	Displacement	10A2425	N/A	NA	**0.99**	1	01/26/10	01/26/10	
Sample ID: ITA1965-06 (018 EFF-6 - Water)					**Sampled: 01/21/10**				
Reporting Units: g/cc									
Density	Displacement	10A2425	N/A	NA	**0.99**	1	01/26/10	01/26/10	
Sample ID: ITA1965-01 (018 EFF-1 - Water)					**Sampled: 01/18/10**				
Reporting Units: mg/l									
Sediment	ASTM D3977	10A2468	10	10	ND	1	01/26/10	01/29/10	
Sample ID: ITA1965-02 (018 EFF-2 - Water)					**Sampled: 01/19/10**				
Reporting Units: mg/l									
Sediment	ASTM D3977	10A2468	10	10	**26**	1	01/26/10	01/29/10	
Sample ID: ITA1965-03 (018 EFF-3 - Water)					**Sampled: 01/20/10**				
Reporting Units: mg/l									
Sediment	ASTM D3977	10A2468	10	10	**20**	1	01/26/10	01/29/10	
Sample ID: ITA1965-04 (018 EFF-4 - Water)					**Sampled: 01/20/10**				
Reporting Units: mg/l									
Sediment	ASTM D3977	10A2468	10	10	**18**	1	01/26/10	01/29/10	

TestAmerica Irvine

Debby Wilson For Joseph Doak
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

MWH-Pasadena/Boeing
618 Michillinda Avenue, Suite 200
Arcadia, CA 91007
Attention: Bronwyn Kelly

Project ID: BMP Effectiveness Monitoring Program
Report Number: ITA1965

Sampled: 01/18/10-01/21/10
Received: 01/22/10

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITA1965-05 (018 EFF-5 - Water)					**Sampled: 01/21/10**				
Reporting Units: mg/l									
Sediment	ASTM D3977	10A2468	10	10	**14**	1	01/26/10	01/29/10	
Sample ID: ITA1965-06 (018 EFF-6 - Water)					**Sampled: 01/21/10**				
Reporting Units: mg/l									
Sediment	ASTM D3977	10A2468	10	10	ND	1	01/26/10	01/29/10	

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Attention: Bronwyn Kelly

Project ID: BMP Effectiveness Monitoring Program
Report Number: ITA1965

Sampled: 01/18/10-01/21/10
Received: 01/22/10

DATA QUALIFIERS AND DEFINITIONS

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.

RPD Relative Percent Difference

TestAmerica Irvine

Debby Wilson For Joseph Doak
Project Manager

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618 Michillinda Avenue, Suite 200
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Attention: Bronwyn Kelly

Project ID: BMP Effectiveness Monitoring Program
Report Number: ITA1965

Sampled: 01/18/10-01/21/10
Received: 01/22/10

Certification Summary

TestAmerica Irvine

Method	Matrix	Nelac	California
ASTM D3977	Water		
Displacement	Water		

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica Irvine

Debby Wilson For Joseph Doak
Project Manager

Test America Version 06/29/09

CHAIN OF CUSTODY FORM

JJH1965

Client Name/Address:	Project:	ANALYSIS REQUIRED
MWH-Pasadena 618 Michillinda Ave., Ste 200 Arcadia, CA 91007 Test America contact: Joseph Doak	Boeing BMP Effectiveness Monitoring Program	

Project Manager: Bronwyn Kelly Sampler: Shelby Dawson	Phone Number: (626) 568-6691 Fax Number: (626) 568-6515

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle * #	Suspended Sediment Concentration (SSC, ASTM-D3977-1997)									Comments
018 EFF-1	W	Poly cube 1 gal	1	1/18/10 1700	None	1	X									grab
018 EFF-2	W	Poly cube 1 gal	1	1/19/10 1341	None	2	X									grab
018 EFF-3	W	Poly-1 L	1	1/20/10 0800	None	3	X									grab
018 EFF-4	W	Poly-1 L	2	1/20/10 1400	None	4A, 4B	X									grab
018 EFF-5	W	Poly-1 L	1	1/21/10 0810	None	5	X									grab
018 EFF-6	W	Poly-1 L	1	1/21/10 1345	None	6	X									grab

10:10
01/23/10
NP

Relinquished By	Date/Time:	Received By	Date/Time:
[signature]	1-22-10 16:00	[signature]	1-22-10 16:00
Relinquished By	Date/Time:	Received By	Date/Time:
[signature]	1-22-10 18:45		
Relinquished By	Date/Time:	Received By	Date/Time:
		[signature]	1/22/10 1845

Turn around Time: (check)
24 Hours _____ 5 Days _____
48 Hours _____ 10 Days _____
72 Hours _____ Normal __X__
Perchlorate Only 72 Hours_____
Metals Only 72 Hours_____ 2.8

Sample Integrity: (Check)
Intact ____X____ On Ice: ___X___

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
618 Michillinda Avenue, Suite 200
Arcadia, CA 91007
Attention: Bronwyn Kelly

Project: BMP Effectiveness
Monitoring Program

Sampled: 01/22/10-01/26/10
Received: 01/26/10
Issued: 02/04/10 17:54

NELAP #01108CA California ELAP#2706 CSDLAC #10256 AZ #AZ0671 NV #CA01531

CASE NARRATIVE

SAMPLE RECEIPT: Samples were received intact, at 3°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: Results that fall between the MDL and RL are 'J' flagged.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

LABORATORY ID	CLIENT ID	MATRIX
ITA2244-01	018 EFF-7	Water
ITA2244-02	018 EFF-8	Water
ITA2244-03	018 EFF-9	Water
ITA2244-04	018 EFF-10	Water
ITA2244-05	018 EFF-11	Water
ITA2244-06	018 EFF-12	Water
ITA2244-07	018 EFF-13	Water
ITA2244-08	018 EFF-14	Water
ITA2244-09	018 EFF-15	Water

Reviewed By:

Debby Wilson

TestAmerica Irvine

Debby Wilson For Joseph Doak
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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MWH-Pasadena/Boeing
618 Michillinda Avenue, Suite 200
Arcadia, CA 91007
Attention: Bronwyn Kelly

Project ID: BMP Effectiveness Monitoring Program
Report Number: ITA2244

Sampled: 01/22/10-01/26/10
Received: 01/26/10

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITA2244-01 (018 EFF-7 - Water)					**Sampled: 01/22/10**				
Reporting Units: g/cc									
Density	Displacement	10B0360	N/A	NA	**0.99**	1	02/03/10	02/03/10	
Sample ID: ITA2244-02 (018 EFF-8 - Water)					**Sampled: 01/22/10**				
Reporting Units: g/cc									
Density	Displacement	10B0360	N/A	NA	**1.0**	1	02/03/10	02/03/10	
Sample ID: ITA2244-03 (018 EFF-9 - Water)					**Sampled: 01/23/10**				
Reporting Units: g/cc									
Density	Displacement	10B0360	N/A	NA	**1.0**	1	02/03/10	02/03/10	
Sample ID: ITA2244-04 (018 EFF-10 - Water)					**Sampled: 01/23/10**				
Reporting Units: g/cc									
Density	Displacement	10B0360	N/A	NA	**1.0**	1	02/03/10	02/03/10	
Sample ID: ITA2244-05 (018 EFF-11 - Water)					**Sampled: 01/23/10**				
Reporting Units: g/cc									
Density	Displacement	10B0360	N/A	NA	**0.99**	1	02/03/10	02/03/10	
Sample ID: ITA2244-06 (018 EFF-12 - Water)					**Sampled: 01/24/10**				
Reporting Units: g/cc									
Density	Displacement	10B0360	N/A	NA	**1.0**	1	02/03/10	02/03/10	
Sample ID: ITA2244-07 (018 EFF-13 - Water)					**Sampled: 01/24/10**				
Reporting Units: g/cc									
Density	Displacement	10B0360	N/A	NA	**1.0**	1	02/03/10	02/03/10	
Sample ID: ITA2244-08 (018 EFF-14 - Water)					**Sampled: 01/25/10**				
Reporting Units: g/cc									
Density	Displacement	10B0360	N/A	NA	**1.0**	1	02/03/10	02/03/10	
Sample ID: ITA2244-09 (018 EFF-15 - Water)					**Sampled: 01/26/10**				
Reporting Units: g/cc									
Density	Displacement	10B0360	N/A	NA	**1.0**	1	02/03/10	02/03/10	
Sample ID: ITA2244-01 (018 EFF-7 - Water)					**Sampled: 01/22/10**				
Reporting Units: mg/l									
Sediment	ASTM D3977	10B0379	10	10	ND	1	01/22/10	02/03/10	

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Debby Wilson For Joseph Doak
Project Manager

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MWH-Pasadena/Boeing
618 Michillinda Avenue, Suite 200
Arcadia, CA 91007
Attention: Bronwyn Kelly

Project ID: BMP Effectiveness Monitoring Program
Report Number: ITA2244

Sampled: 01/22/10-01/26/10
Received: 01/26/10

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITA2244-02 (018 EFF-8 - Water)					**Sampled: 01/22/10**				
Reporting Units: mg/l									
Sediment	ASTM D3977	10B0379	10	10	ND	1	01/22/10	02/03/10	
Sample ID: ITA2244-03 (018 EFF-9 - Water)					**Sampled: 01/23/10**				
Reporting Units: mg/l									
Sediment	ASTM D3977	10B0379	10	10	**10**	1	01/23/10	02/03/10	
Sample ID: ITA2244-04 (018 EFF-10 - Water)					**Sampled: 01/23/10**				
Reporting Units: mg/l									
Sediment	ASTM D3977	10B0379	10	10	**12**	1	01/23/10	02/03/10	
Sample ID: ITA2244-05 (018 EFF-11 - Water)					**Sampled: 01/23/10**				
Reporting Units: mg/l									
Sediment	ASTM D3977	10B0379	10	10	ND	1	01/23/10	02/03/10	
Sample ID: ITA2244-06 (018 EFF-12 - Water)					**Sampled: 01/24/10**				
Reporting Units: mg/l									
Sediment	ASTM D3977	10B0379	10	10	ND	1	01/24/10	02/03/10	
Sample ID: ITA2244-07 (018 EFF-13 - Water)					**Sampled: 01/24/10**				
Reporting Units: mg/l									
Sediment	ASTM D3977	10B0379	10	10	ND	1	01/24/10	02/03/10	
Sample ID: ITA2244-08 (018 EFF-14 - Water)					**Sampled: 01/25/10**				
Reporting Units: mg/l									
Sediment	ASTM D3977	10B0379	10	10	ND	1	01/25/10	02/03/10	
Sample ID: ITA2244-09 (018 EFF-15 - Water)					**Sampled: 01/26/10**				
Reporting Units: mg/l									
Sediment	ASTM D3977	10B0379	10	10	ND	1	01/26/10	02/03/10	

TestAmerica Irvine

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Project Manager

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MWH-Pasadena/Boeing
618 Michillinda Avenue, Suite 200
Arcadia, CA 91007
Attention: Bronwyn Kelly

Project ID: BMP Effectiveness Monitoring Program
Report Number: ITA2244

Sampled: 01/22/10-01/26/10
Received: 01/26/10

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B0360 Extracted: 02/03/10											
Duplicate Analyzed: 02/03/2010 (10B0360-DUP1)						**Source: ITA2244-01**					
Density	0.995	NA	N/A	g/cc		0.995			0	20	

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MWH-Pasadena/Boeing
618 Michillinda Avenue, Suite 200
Arcadia, CA 91007
Attention: Bronwyn Kelly

Project ID: BMP Effectiveness Monitoring Program
Report Number: ITA2244

Sampled: 01/22/10-01/26/10
Received: 01/26/10

DATA QUALIFIERS AND DEFINITIONS

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.

RPD Relative Percent Difference

TestAmerica Irvine

Debby Wilson For Joseph Doak
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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MWH-Pasadena/Boeing
618 Michillinda Avenue, Suite 200
Arcadia, CA 91007
Attention: Bronwyn Kelly

Project ID: BMP Effectiveness Monitoring Program
Report Number: ITA2244

Sampled: 01/22/10-01/26/10
Received: 01/26/10

Certification Summary

TestAmerica Irvine

Method	Matrix	Nelac	California
ASTM D3977	Water		
Displacement	Water		

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica Irvine

Debby Wilson For Joseph Doak
Project Manager

Test America Version 06/29/09

CHAIN OF CUSTODY FORM

17A2244

Page 1 of 1

Client Name/Address:	Project: **Boeing BMP Effectiveness Monitoring Program**
MWH-Arcadia 618 Michillinda Avenue, Suite 200 Arcadia, CA 91007 Test America Contact: Joseph Doak	
Project Manager: Bronwyn Kelly Sampler: E. WALKER	Phone Number: (626) 568-6691 Fax Number: (626) 568-6515

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	ANALYSIS REQUIRED: Suspended Sediment Concentration (SSC, ASTM-D3977-1997)									Comments
018 EFF-7	W	500 ml Poly	2	1/22/10-1141	None	7A, 7B	X									
018 EFF-8	W	500 ml Poly	2	1/22/10-1420	None	8A, 8B	X									
018 EFF-9	W	500 ml Poly	2	1/23/10-0830	None	9A, 9B	X									
018 EFF-10	W	500 ml Poly	2	1/23/10-1100	None	10A, 10B	X									
018 EFF-11	W	500 ml Poly	2	1/23/10-1440	None	11A, 11B	X									
018 EFF-12	W	500 ml Poly	2	1/24/10-1205	None	12A, 12B	X									
018 EFF-13	W	500 ml Poly	2	1/24/10-1407	None	13A, 13B	X									
018 EFF-14	W	1L Poly	1	1/25/10-1250	None	14	X									
018 EFF-15	W	1L Poly	2	1/26/10 1400	none	15A, 15B	X									MS 1/27/10 12:35

Field readings:

Temp = NA

pH = NA

Time of readings = NA

Relinquished By	Date/Time:	Received By	Date/Time:
	1/26/10 - 14:30		1-26-10 14:30
Relinquished By	Date/Time:	Received By	Date/Time:
	1-26-10 19:55		1/24/10 1455

Turn around Time: (check)

24 Hours _____ 5 Days _____

48 Hours _____ 10 Days _____

72 Hours _____ Normal ___X___

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
618 Michillinda Avenue, Suite 200
Arcadia, CA 91007
Attention: Bronwyn Kelly

Project: BMP Effectiveness
Monitoring Program

Sampled: 01/28/10-01/29/10
Received: 01/29/10
Issued: 02/09/10 19:27

NELAP #01108CA California ELAP#2706 CSDLAC #10256 AZ #AZ0671 NV #CA01531

CASE NARRATIVE

SAMPLE RECEIPT:	Samples were received intact, at 2°C, on ice and with chain of custody documentation.
HOLDING TIMES:	All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.
PRESERVATION:	Samples requiring preservation were verified prior to sample analysis.
QA/QC CRITERIA:	All analyses met method criteria, except as noted in the report with data qualifiers.
COMMENTS:	Results that fall between the MDL and RL are 'J' flagged.
SUBCONTRACTED:	No analyses were subcontracted to an outside laboratory.

LABORATORY ID	CLIENT ID	MATRIX
ITA2599-01	018 EFF-16	Water
ITA2599-02	018 EFF-17	Water

Reviewed By:

Debby Wilson

TestAmerica Irvine

Debby Wilson For Joseph Doak
Project Manager

TestAmerica
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MWH-Pasadena/Boeing
618 Michillinda Avenue, Suite 200
Arcadia, CA 91007
Attention: Bronwyn Kelly

Project ID: BMP Effectiveness Monitoring Program
Report Number: ITA2599

Sampled: 01/28/10-01/29/10
Received: 01/29/10

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITA2599-01 (018 EFF-16 - Water)					**Sampled: 01/28/10**				
Reporting Units: g/cc									
Density	Displacement	10B0924	N/A	NA	**0.99**	1	02/08/10	02/08/10	
Sample ID: ITA2599-02 (018 EFF-17 - Water)					**Sampled: 01/29/10**				
Reporting Units: g/cc									
Density	Displacement	10B0924	N/A	NA	**0.99**	1	02/08/10	02/08/10	
Sample ID: ITA2599-01 (018 EFF-16 - Water)					**Sampled: 01/28/10**				
Reporting Units: mg/l									
Sediment	ASTM D3977	10B0925	10	10	ND	1	01/28/10	02/08/10	
Sample ID: ITA2599-02 (018 EFF-17 - Water)					**Sampled: 01/29/10**				
Reporting Units: mg/l									
Sediment	ASTM D3977	10B0925	10	10	ND	1	01/29/10	02/08/10	

TestAmerica Irvine

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MWH-Pasadena/Boeing
618 Michillinda Avenue, Suite 200
Arcadia, CA 91007
Attention: Bronwyn Kelly

Project ID: BMP Effectiveness Monitoring Program
Report Number: ITA2599

Sampled: 01/28/10-01/29/10
Received: 01/29/10

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B0924 Extracted: 02/08/10											
Duplicate Analyzed: 02/08/2010 (10B0924-DUP1)						**Source: ITA2570-01**					
Density	1.00	NA	N/A	g/cc		1.00			0.06	20	

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MWH-Pasadena/Boeing
618 Michillinda Avenue, Suite 200
Arcadia, CA 91007
Attention: Bronwyn Kelly

Project ID: BMP Effectiveness Monitoring Program
Report Number: ITA2599

Sampled: 01/28/10-01/29/10
Received: 01/29/10

DATA QUALIFIERS AND DEFINITIONS

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.

RPD Relative Percent Difference

TestAmerica Irvine

Debby Wilson For Joseph Doak
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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MWH-Pasadena/Boeing
618 Michillinda Avenue, Suite 200
Arcadia, CA 91007
Attention: Bronwyn Kelly

Project ID: BMP Effectiveness Monitoring Program
Report Number: ITA2599

Sampled: 01/28/10-01/29/10
Received: 01/29/10

Certification Summary

TestAmerica Irvine

Method	Matrix	Nelac	California
ASTM D3977	Water		
Displacement	Water		

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica Irvine

Debby Wilson For Joseph Doak
Project Manager

Test America

CHAIN OF CUSTODY FORM

ITH2599

Client Name/Address:	Project: **Boeing BMP Effectiveness Monitoring Program**
MWH-Pasadena 618 Michillinda Ave, Suite 200 Pasadena, CA 91007 Test America Contact: Joe Doak	
Project Manager: Bronwyn Kelly Sampler: S Dawson	Phone Number: (626) 568-6691 Fax Number: (626) 568-6515

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle * #	ANALYSIS REQUIRED: Suspended Sediment Concentration (SSC, ASTM-D3977-1997)									Comments
018 EFF-16	W	Poly-500 mL	2	1/28/10 1240	None	16A, 16B,	X									
018 EFF-17	W	Poly-500 mL	2	1/29/10 1500	None	17 A, 17B	X									
~~018 EFF-18~~	~~W~~	~~Poly-500 mL~~	~~2~~		~~None~~	18 A, 18 B	~~X~~									SD

WS 02/01/10 11:15

Relinquished By	Date/Time:	Received By	Date/Time:
	1-29-10 / 15:20		1-29-10 / 15:20
	1-29-10 / 18:45		1/29/10 1845
	Date/Time:		Date/Time:

Turn around Time: (check)
24 Hours _____ 5 Days _____
48 Hours _____ 10 Days _____
72 Hours _____ Normal ___X___
Perchlorate Only 72 Hours_____
Metals Only 72 Hours_____
Sample Integrity: (Check)
Intact _____ On Ice: X

1.6 #191

APPENDIX G

Section 63

Outfall 018 – February 6 & 7, 2010

MEC^X Data Validation Report

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DATA VALIDATION REPORT

Boeing SSFL NPDES

SAMPLE DELIVERY GROUP: ITB0889/ITB0895

Prepared by

MEC^X, LP
12269 East Vassar Drive
Aurora, CO 80014

I. INTRODUCTION

Task Order Title:	Boeing SSFL NPDES
Contract Task Order:	1261.100D.00
Sample Delivery Group:	ITB0889/ITB0895
Project Manager:	B. Kelly
Matrix:	Water
QC Level:	IV
No. of Samples:	3
No. of Reanalyses/Dilutions:	0
Laboratory:	TestAmerica-Irvine

Table 1. Sample Identification

Client ID	Laboratory ID	Sub-Laboratory ID	Matrix	Collected	Method
Outfall 018 (Grab)	ITB0889-01	N/A	Water	2/6/10 01:00 PM	1664A, 120.1, 218.6, 624, 8015B MOD, 8315M, SM2540F, SM4500CN-E
Outfall 018	ITB0895-01	F0B090485-001, G0B120540-001, 987713	Water	2/6/10 01:00 PM	ASTM 5174-91, 180.1, 200.7, 200.7 (Diss), 200.8, 200.8 (Diss), 245.1, 245.1 (Diss), 300.0, 314.0, 608, 625, 900.0 MOD, 901.1 MOD, 903.0 MOD, 904 MOD, 905 MOD, 906.0 MOD, 8260B-SIM, SM 2540D, SM 4500-F-C, SM2340B, SM2340B-Diss, SM2540C, SM4500-NH3-C, SM5210B, SM5310B, SM5540-C, 1613B
Trip Blank	ITB0890-02	N/A	Water	2/6/10 07:00 AM	624

II. Sample Management

No anomalies were observed regarding sample management. The samples were received at ambient temperature at TestAmerica-St. Louis; however, due to the nonvolatile nature of the analytes, no qualifications were required. The samples in this SDG were received at the remaining laboratories within the temperature limits of 4°C ±2°C. According to the case narrative for this SDG, the samples were received intact, on ice, and properly preserved, if applicable. The COCs were appropriately signed and dated by field and/or laboratory personnel. Custody seals were intact upon receipt at TestAmerica-St. Louis and TestAmerica-West Sacramento. As the sample was couriered to TestAmerica-Irvine, no custody seals were required. If necessary, the client ID was added to the sample result summary by the reviewer.

Data Qualifier Reference Table

Qualifier	Organics	Inorganics
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit. The associated value is the quantitation limit or the estimated detection limit for dioxins or PCB congeners.	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit. The associated value is the sample detection limit or the quantitation limit for perchlorate only.
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.	The associated value is an estimated quantity.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."	Not applicable.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.	Not applicable.
UJ	The analyte was not deemed above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.	The material was analyzed for, but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in the ability to analyze the sample and to meet quality control criteria. The presence or absence of the analyte cannot be verified.	The data are unusable. The sample results are rejected due to serious deficiencies in the ability to analyze the sample and to meet quality control criteria. The presence or absence of the analyte cannot be verified.

Qualification Code Reference Table

Qualifier	Organics	Inorganics
H	Holding times were exceeded.	Holding times were exceeded.
S	Surrogate recovery was outside QC limits.	The sequence or number of standards used for the calibration was incorrect
C	Calibration %RSD or %D was noncompliant.	Correlation coefficient is <0.995.
R	Calibration RRF was <0.05.	%R for calibration is not within control limits.
B	Presumed contamination as indicated by the preparation (method) blank results.	Presumed contamination as indicated by the preparation (method) or calibration blank results.
L	Laboratory Blank Spike/Blank Spike Duplicate %R was not within control limits.	Laboratory Control Sample %R was not within control limits.
Q	MS/MSD recovery was poor or RPD high.	MS recovery was poor.
E	Not applicable.	Duplicates showed poor agreement.
I	Internal standard performance was unsatisfactory.	ICP ICS results were unsatisfactory.
A	Not applicable.	ICP Serial Dilution %D were not within control limits.
M	Tuning (BFB or DFTPP) was noncompliant.	Not applicable.
T	Presumed contamination as indicated by the trip blank results.	Not applicable.
+	False positive – reported compound was not present.	Not applicable.
-	False negative – compound was present but not reported.	Not applicable.
F	Presumed contamination as indicated by the FB or ER results.	Presumed contamination as indicated by the FB or ER results.
$	Reported result or other information was incorrect.	Reported result or other information was incorrect.
?	TIC identity or reported retention time has been changed.	Not applicable.

Qualification Code Reference Table Cont.

D	The analysis with this flag should not be used because another more technically sound analysis is available.	The analysis with this flag should not be used because another more technically sound analysis is available.
P	Instrument performance for pesticides was poor.	Post Digestion Spike recovery was not within control limits.
DNQ	The reported result is above the method detection limit but is less than the reporting limit.	The reported result is above the method detection limit but is less than the reporting limit.
*II, *III	Unusual problems found with the data that have been described in Section II, "Sample Management," or Section III, "Method Analyses." The number following the asterisk (*) will indicate the report section where a description of the problem can be found.	Unusual problems found with the data that have been described in Section II, "Sample Management," or Section III, "Method Analyses." The number following the asterisk (*) will indicate the report section where a description of the problem can be found.

III. Method Analyses

A. EPA METHOD 1613—Dioxin/Furans

Reviewed By: L. Calvin
Date Reviewed: March 27, 2010

The sample listed in Table 1 for this analysis was validated based on the guidelines outlined in the *MEC^X Data Validation Procedure for Dioxins and Furans (DVP-19, Rev. 0), USEPA Method 1613*, and the *National Functional Guidelines Chlorinated Dioxin/Furan Data Review* (9/05).

- Holding Times: Extraction and analytical holding times were met. The water sample was extracted and analyzed within one year of collection.

- Instrument Performance: Instrument performance criteria were met. Following are findings associated with instrument performance.

    - GC Column Performance: A Windows Defining Mix (WDM) containing the first and last eluting congeners of each descriptor and isomer specificity compounds was analyzed with the initial calibration sequence and at the beginning of each analytical sequence. The GC column performance in the calibrations was acceptable, with the height of the valley between the closely eluting isomers and 2,3,7,8-TCDD reported as less than 25%.

    - Mass Spectrometer Performance: The mass spectrometer performance was acceptable with the static resolving power greater than 10,000.

- Calibration: Calibration criteria were met.

    - Initial Calibration: Initial calibration criteria were met. The initial calibration was acceptable with %RSDs ≤20% for the 16 native compounds (calibration by isotope dilution) and ≤35% for the one native and all labeled compounds (calibration by internal standard). The relative retention times and ion abundance ratios were within the Method 1613 QC limits for all standards.

    - Continuing Calibration: Calibration verification (VER) consisted of a mid-level standard (CS3) analyzed at the beginning of each analytical sequence. The VERs were acceptable with the concentrations within the acceptance criteria listed in Table 6 of EPA Method 1613. The ion abundance ratios and relative retention times were within the method QC limits.

- Blanks: The method blank had detects between the EDL and the RL for all target compounds except 2,3,7,8-TCDD and total TCDD, 1,2,3,7,8-PeCDD, and 2,3,7,8-TCDF and total TCDF. Most detects in the method blank did not meet ratio criteria and were reported as EMPCs; however, due to the extent of contamination present in the method blank, it was the reviewer's professional opinion that those results be utilized to qualify

applicable sample results. Isomers present in the sample between the EDLs and RLs were qualified as nondetected, "U," at the levels of contamination. The sample results for total PeCDD, total HxCDD, total HpCDD, total PeCDF, and total HxCDF were qualified as nondetected, "U," as all peaks comprising the totals were present in the method blank at similar concentrations. Total HpCDF included one peak not present in the method blank, and was qualified as estimated, "J," as only a portion of the total was considered method blank contamination.

- Blank Spikes and Laboratory Control Samples: OPR recoveries were within the acceptance criteria listed in Table 6 of Method 1613.

- Field QC Samples: Field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. Any remaining detects were used to evaluate the associated site samples. Following are findings associated with field QC samples:

    - Field Blanks and Equipment Rinsates: This SDG had no identified field blank or equipment rinsate samples.

    - Field Duplicates: There were no field duplicate samples identified for this SDG.

- Internal Standards Performance: The labeled standard recoveries were within the acceptance criteria listed in Table 7 of Method 1613.

- Compound Identification: Compound identification was verified. The laboratory analyzed for polychlorinated dioxins/furans by EPA Method 1613.

- Compound Quantification and Reported Detection Limits: Compound quantitation was verified by recalculating a representative number of reportable sample results or LCS results. Any EMPCs qualified as nondetected for method blank contamination were not further qualified as EMPCs. Any total result reported as an EMPC or including EMPCs was qualified as estimated, "J." Any detects reported below the EDL, or between the estimated detection limit (EDL) and the reporting limit (RL) were qualified as estimated, "J," and coded with "DNQ," in order to comply with the NPDES permit. Nondetects are valid to the EDL.

B. EPA METHOD 8315M—Hydrazines

Reviewed By: P. Meeks
Date Reviewed: April 4, 2010

The sample listed in Table 1 for this analysis was validated based on the guidelines outlined in the *MEC^X Data Validation Procedure for General Minerals (DVP-6, Rev. 0), EPA Method 8315M*, and the *National Functional Guidelines for Organic Data Review* (10/99).

- Holding Times: Extraction and analytical holding times were met. The sample was derivitized and analyzed within three days of collection.

- Calibration: Calibration criteria were met. The initial calibration r^2 values were $\geq$0.995. The ICV, CCV and QCS recoveries were within 85-115%.

- Blanks: There were no target compound detects above the MDL in the method blank.

- Blank Spikes and Laboratory Control Samples: Recoveries and RPDs were within laboratory-established QC limits.

- Matrix Spike/Matrix Spike Duplicate: No MS/MSD analyses were performed on the sample in this SDG. Method accuracy and precision were evaluated based on LCS results.

- Field QC Samples: Field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. Any remaining detects were used to evaluate the associated site samples. Following are findings associated with field QC samples:

    - Field Blanks and Equipment Rinsates: This SDG had no identified field blank or equipment rinsate samples.

    - Field Duplicates: There were no field duplicate samples identified for this SDG.

- Compound Identification: Compound identification was verified. Review of the sample chromatograms and retention times indicated no problems with target compound identification.

- Compound Quantification and Reported Detection Limits: Compound quantification was verified. The reporting limits were supported by the low point of the initial calibrations and the laboratory MDLs. Any results reported between the MDL and the reporting limit were qualified as estimated, "J," and coded with "DNQ," in order to comply with the NPDES permit. Reported nondetects are valid to the reporting limit.

C. EPA METHODS 200.7, 200.8, and 245.1—Metals and Mercury

Reviewed By: P. Meeks
Date Reviewed: March 27, 2010

The sample listed in Table 1 for these analyses was validated based on the guidelines outlined in the *MEC^X Data Validation Procedure for Metals (DVP-5, Rev. 0 and DVP-21, Rev. 0), EPA Methods 200.7, 200.8, 245.1*, and the *National Functional Guidelines for Inorganic Data Review* (7/02).

- Holding Times: Analytical holding times, six months for ICP and ICP-MS metals and 28 days for mercury, were met.

- Tuning: The measured beryllium mass associated with the dissolved copper analysis exceeded the true value by >0.1 amu; however, the magnesium mass calibration was acceptable. As the mass of copper is nearer in value to magnesium, no qualifications were required. The remaining mass calibration and resolution checks criteria were met. All tuning solution %RSDs were ≤5%, and allremaining masses of interest were calibrated to ≤ 0.1 amu and ≤0.9 amu at 10% peak height.

- Calibration: Calibration criteria were met. The thallium ICV was recovered marginally above the control limit; however, as thallium was not detected in the sample, no qualifications were required. Mercury initial calibration r^2 values were ≥0.995 and all remaining initial and continuing calibration recoveries were within 90-110% for the ICP and ICP-MS metals and 85-115% for mercury. The nickel 5 ppb CRDL recovery associated with the total nickel analysis was 66% and the total cadmium and silver 0.2 ppb CRDL recoveries were 50% and 64%, respectively therefore, the nondetected total results for these analytes were qualified as estimated, "UJ." The remaining CRDL/CRI recoveries were within the control limits of 70-130%.

- Blanks: Boron was detected in dissolved method blank and a bracketing CCB at 45.3 and 43.9 µg/L, respectively; therefore, total and dissolved boron detected in the sample were qualified as nondetected, "U," at the levels of contamination. Antimony, cadmium, and silver were reported in the total method blank at -0.36, -0.15, and -0.11 µg/L, respectively; therefore, the nondetected total results for these analytes were qualified as estimated, "UJ." Method blanks and CCBs had no other applicable detects.

- Interference Check Samples: Recoveries were within 80-120%. Boron was reported in the ICSA analysis at -75 µg/L; however, the concentration of the primary interferent, iron, was not sufficient to cause matrix interference in the site sample. Copper and cadmium were detected in the 200.8 ICSA; however, the reviewer was not able to determine if the detects were due to low-level contamination of the ICSA standard.

- Blank Spikes and Laboratory Control Samples: Recoveries were within laboratory-established QC limits.

- Laboratory Duplicates: No laboratory duplicate analyses were performed on the sample in this SDG.

- Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were performed on the dissolved 200.7 analytes and total mercury. MS/MSD results are not assessed with the native concentration exceeds the spike by a factor of 4× or more. Recoveries and RPDs were within laboratory-established QC limits. Method accuracy for the remaining methods was evaluated based on the LCS results.

- Serial Dilution: No serial dilution analyses were performed on the sample in this SDG.

- Internal Standards Performance: All sample internal standard intensities were within 60-125% of the internal standard intensities measured in the initial calibration blank. Copper was not bracketed by an internal standard of lower mass; therefore, copper detected in the sample was qualified as estimated, "J."

- Sample Result Verification: Calculations were verified and the sample results reported on the sample result summary were verified against the raw data. No transcription errors or calculation errors were noted. When the sample results were qualified and the reviewer was able to clearly determine bias, detected results were qualified as either "J+" or "J-"; otherwise, bias was not indicated in the qualification. Any detects between the method detection limit and the reporting limit were qualified as estimated, "J," and coded with "DNQ," in order to comply with the NPDES permit. Reported nondetects are valid to the MDL.

  The reviewer noted that the laboratory did not list the dissolved chromium results for the sample, method blank, or the LCS. The reviewer checked the raw data and determined that the LCS recovery was acceptable and that chromium was not detected in either the site sample or the method blank.

  Zinc was detected at a nominally larger concentration in the dissolved fraction that in the total fraction. Antimony was not detected in the total fraction but was detected marginally above the MDL in the dissolved fraction.

- Field QC Samples: Field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. Any remaining detects were used to evaluate the associated site samples. Following are findings associated with field QC samples:

  - Field Blanks and Equipment Rinsates: This SDG had no identified field blank or equipment rinsate samples.

  - Field Duplicates: There were no field duplicate samples identified for this SDG.

D. EPA METHOD 314.0—Perchlorate

Reviewed By: P. Meeks
Date Reviewed: March 27, 2010

The sample listed in Table 1 for this analysis was validated based on the guidelines outlined in the *MEC^X Data Validation Procedure for Metals (DVP-20, Rev. 0), EPA Method 314.0*, and the *National Functional Guidelines for Inorganic Data Review* (7/02).

- Holding Times: The analytical holding time, 28 days, was met.

- Calibration: Calibration criteria were met. The initial calibration r^2 value was $\geq$0.995 and all initial and continuing calibration recoveries were within 90-110%. IPC recoveries were within the method-established control limit of 80-120%. The IPC-MA recovery was within 85-115%

- Blanks: Method blanks and CCBs had no detects.

- Blank Spikes and Laboratory Control Samples: The recovery was within the method-established QC limits of 85-115%.

- Laboratory Duplicates: No laboratory duplicate analyses were performed.

- Matrix Spike/Matrix Spike Duplicate: No MS/MSD analyses were performed on the sample in this SDG. Method accuracy was evaluated based on LCS results.

- Sample Result Verification: Calculations were verified and the sample results reported on the sample result summary were verified against the raw data. No transcription errors or calculation errors were noted. Any detects between the method detection limit and the reporting limit were qualified as estimated, "J," and coded with "DNQ," in order to comply with the NPDES permit. Reported nondetects are valid to the reporting limit.

- Field QC Samples: Field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. Any remaining detects were used to evaluate the associated site samples. Following are findings associated with field QC samples:

    - Field Blanks and Equipment Rinsates: This SDG had no identified field blank or equipment rinsate samples.

    - Field Duplicates: There were no field duplicate samples identified for this SDG.

E. EPA METHOD 608—Pesticides and PCBs

Reviewed By: P. Meeks
Date Reviewed: March 27, 2010

The sample listed in Table 1 for this analysis were validated based on the guidelines outlined in the *MEC^X Data Validation Procedure for Organochlorine Pesticides/PCBs by GC (DVP-4, Rev. 0), EPA Method 608*, and the *National Functional Guidelines for Organic Data Review* (10/99).

- Holding Times: Extraction and analytical holding times were met. The water samples were extracted within seven days of collection and analyzed within 40 days of extraction.

- Calibration: The initial calibration had average %RSDs of ≤20%. %Ds exceeded 15% for endrin and heptachlor on channel B and toxaphene both channels; therefore, the nondetected results for these compounds were qualified as estimated, "UJ." The remaining ICV and CCVs bracketing the sample analyses had %Ds within the QC limit of ≤15%.

- Blanks: The method blanks had no target compound detects above the MDL.

- Blank Spikes and Laboratory Control Samples: Recoveries were within laboratory-established QC limits. All results were acceptable when calculated using the correct volume.

- Surrogate Recovery: Recoveries were within laboratory-established QC limits.

- Matrix Spike/Matrix Spike Duplicate: No MS/MSD analyses were performed on the sample in this SDG. Method accuracy was evaluated based on LCS results.

- Field QC Samples: Field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. Any remaining detects were used to evaluate the associated site samples. Following are findings associated with field QC samples:

    - Field Blanks and Equipment Rinsates: This SDG had no identified field blank or equipment rinsate samples.

    - Field Duplicates: There were no field duplicate samples identified for this SDG.

- Compound Identification: Compound identification was verified. Review of the sample chromatograms and retention times indicated no problems with target compound identification.

- Compound Quantification and Reported Detection Limits: Compound quantification was verified from the raw data. The reporting limits were supported by the lower level of the initial calibration. Any detects between the method detection limit and the reporting limit

were qualified as estimated, "J," and coded with "DNQ," in order to comply with the NPDES permit. Reported nondetects are valid to the reporting limit.

F. VARIOUS EPA METHODS — Radionuclides

Reviewed By: P. Meeks
Date Reviewed: March 27, 2010

The sample listed in Table 1 for these analyses were validated based on the guidelines outlined in the *EPA Methods 900.0, 901.1, 903.1, 904.0, 905.0, and 906.0, ASTM Method D-5174,* and the *National Functional Guidelines for Inorganic Data Review* (10/04).

- Holding Times: The aliquots for total uranium and radium-228 were reanalyzed more than 3× beyond the holding time for unpreserved samples; therefore, the nondetected results for total uranium and radium-228 were rejected, "R." The tritium sample was analyzed within 180 days of collection. Aliquots for gamma spectroscopy, gross alpha, gross beta, radium-226, and strontium-90 were prepared within the five-day holding time for unpreserved aqueous samples.

- Calibration: The laboratory calibration information included the standard certificates and applicable preparation/dilutions logs for NIST-traceability.

  The gross alpha and radium-226 detector efficiencies were less than 20%; therefore, the nondetected results for gross alpha and radium-226 were qualified as estimated, "UJ." The remaining detector efficiencies were greater than 20%.

  The tritium aliquot was spiked for efficiency determination; therefore, no calibration was necessary. All chemical yields were at least 40% and were considered acceptable. The gamma spectroscopy analytes were determined at the maximum photopeak energy. The kinetic phosphorescence analyzer (KPA) was calibrated immediately prior to the sample analysis. All KPA calibration check standard recoveries were within 90-110% and were deemed acceptable.

- Blanks: Tritium was detected in the method blank at 165 pCi/L; however, tritium was not detected in the site sample. There were no other analytes detected in the method blanks or the KPA CCBs.

- Blank Spikes and Laboratory Control Samples: The recoveries and the radium-228 RPD were within laboratory-established control limits.

- Laboratory Duplicates: No laboratory duplicate analyses were performed on the sample in this SDG.

- Matrix Spike/Matrix Spike Duplicate: No MS/MSD analyses were performed for the sample in this SDG. Method accuracy was evaluated based on the LCS results.

- Sample Result Verification: An EPA Level IV review was performed for the sample in this data package. The sample results and MDAs reported on the sample result form were verified against the raw data and no calculation or transcription errors were noted. Any detects between the MDA and the reporting limit were qualified as estimated, "J," and coded with "DNQ," in order to comply with the NPDES permit. Reported nondetects are valid to the MDA.

  The reviewer noted that the total uranium preparation log was not signed as reviewed.

- Field QC Samples: Field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. Any remaining detects were used to evaluate the associated site samples. Following are findings associated with field QC samples:

  - Field Blanks and Equipment Rinsates: This SDG had no identified field blank or equipment rinsate samples.

  - Field Duplicates: There were no field duplicate samples identified for this SDG.

G. EPA METHOD 625—Semivolatile Organic Compounds (SVOCs)

Reviewed By: P. Meeks
Date Reviewed: March 27, 2010

The sample listed in Table 1 for this analysis was validated based on the guidelines outlined in the *MEC^X Data Validation Procedure for Semivolatile Organics (DVP-3, Rev. 0), EPA Method 625*, and the *National Functional Guidelines for Organic Data Review* (10/99).

- Holding Times: Extraction and analytical holding times were met. The water sample was extracted within seven days of collection and analyzed within 40 days of extraction.

- GC/MS Tuning: The DFTPP tunes met the method abundance criteria. The sample was analyzed within 12 hours of the DFTPP injection time.

- Calibration: Calibration criteria were met. The initial calibration RRF and the continuing calibration RF was <0.05 for 4,6-dinitro-2-methylphenol; therefore, the nondetected result for the analyte was rejected, "R." The r^2 value for benzoic acid was less than the control limit; therefore, the nondetected result for benzoic acid was qualified as estimated, "UJ." The remaining initial calibration average RRFs were ≥0.05, the %RSDs ≤35%, and the remaining r^2 values were ≥0.995. The second source ICV had %Ds above 20% for 2,4-dinitrophenol, n-nitrosodiphenylamine, and pentachlorophenol; therefore, the nondetected results for these compound were qualified as estimated, "UJ." The ICV RRFs were ≥0.05 and the remaining ICV and CCV %Ds ≤20%.

- Blanks: n-Nitrosodimethylamine was detected in the method blank but was not detected in the site sample. Method blanks had no other target compound detects above the MDL.

- Blank Spikes and Laboratory Control Samples: In the LCSD only the following compounds were either not recovered or were recovered <10%: aniline, benzidine, 3,3'dichlorobenzidine, 4-chloroaniline, and 3-nitroanailine. The RPDs for aniline, benzidine, 3,3'dichlorobenzidine, 4-chloroaniline, 4-nitroaniline, hexachlorocyclopentadiene, and 3-nitroanailine; therefore, the nondetected results for these analytes were qualified as estimated, "UJ." The remaining recoveries and RPDs were within laboratory-established QC limits.

- Surrogate Recovery: Recoveries were within laboratory-established QC limits.

- Matrix Spike/Matrix Spike Duplicate: No MS/MSD analyses were performed on the sample in this SDG. Method accuracy and precision were evaluated based on LCS/LCSD results.

- Field QC Samples: Field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. Any remaining detects were used to evaluate the associated site samples. Following are findings associated with field QC samples:

    - Field Blanks and Equipment Rinsates: This SDG had no identified field blank or equipment rinsate samples.

    - Field Duplicates: There were no field duplicate samples identified for this SDG.

- Internal Standards Performance: The internal standard area counts and retention times were within the control limits established by the continuing calibration standards: -50%/+100% for internal standard areas and ±30 seconds for retention times.

- Compound Identification: Compound identification was verified. Review of the sample chromatogram, retention times, and spectra indicated no problems with target compound identification.

- Compound Quantification and Reported Detection Limits: Compound quantification was verified. The reporting limits were supported by the low point of the initial calibration and the laboratory MDLs. Any result reported between the MDL and the reporting limit was qualified as estimated, "J," and coded with "DNQ" in order to comply with the NPDES permit. Reported nondetects are valid to the reporting limit.

- Tentatively Identified Compounds: TICs were not reported by the laboratory for this SDG.

- System Performance: Review of the raw data indicated no problems with system performance.

H. EPA METHOD 8015B—Total Fuel Hydrocarbons (EFHs)

Reviewed By: P. Meeks
Date Reviewed: March 27, 2010

The samples were listed in Table 1 for this analysis was validated based on the guidelines outlined in the *MEC^X Data Validation Procedure for Total Fuel Hydrocarbons (DVP-8, Rev. 0), EPA Method 8015B*, and the *National Functional Guidelines for Organic Data Review* (2/94).

- Holding Times: Extraction and analytical holding times were met. The water samples were extracted within seven days of collection and analyzed within 40 days of extraction.

- Calibration: Calibration criteria were met. The ICV %D for GRO was above the control limit at 17%; therefore, nondetected GRO in the sample was qualified as estimated, "UJ." Initial calibration %RSDs were ≤20% and the remaining initial and continuing calibration %Ds ≤15%.

- Blanks: The method blanks had no target compound detect above the MDL.

- Blank Spikes and Laboratory Control Samples: The recoveries were within laboratory-established QC limits.

- Surrogate Recovery: The recovery was within laboratory-established QC limits.

- Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were not performed on the samples from this SDG. Evaluation of method accuracy was based on the LCS results.

- Field QC Samples: Field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. Any remaining detects were used to evaluate the associated site samples. Following are findings associated with field QC samples:

    - Field Blanks and Equipment Rinsates: This SDG had no identified field blank or equipment rinsate samples.

    - Field Duplicates: There were no field duplicate samples identified for this SDG.

- Compound Identification: Compound identification was verified. GRO (C4-C12) and DRO (C13-C28) were reported. Review of the sample chromatogram and retention times indicated no problems with target compound identification.

- Compound Quantification and Reported Detection Limits: Compound quantification was verified. The reporting limits were supported by the low point of the initial calibration and the laboratory MDLs. Any result reported between the MDL and the reporting limit was qualified as estimated, "J," and coded with "DNQ" in order to comply with the NPDES permit. Reported nondetects are valid to the reporting limit.

I. EPA METHODS 624 and 8260B-SIM —Volatile Organic Compounds (VOCs)

Reviewed By: P. Meeks
Date Reviewed: March 26, 2010

The samples listed in Table 1 for this analysis were validated based on the guidelines outlined in the *MEC^X Data Validation Procedure for Volatile Organics (DVP-2, Rev. 0), EPA Methods 624 and 8260B*, and the *National Functional Guidelines for Organic Data Review* (10/99).

- Holding Times: Analytical holding times were met. The unpreserved aliquots of the water samples were analyzed within seven days of collection and the preserved water samples were analyzed within 14 days of collection.

- GC/MS Tuning: The BFB tunes met the respective method abundance criteria specified by EPA Method 624 or 8260B. Samples were analyzed within 12 hours of the BFB injection time.

- Calibration: For the Method 8260B initial calibration of 1,4-dioxane the %RSD was ≤15%. The acrolein RRF was <0.05; therefore, nondetected acrolein in the samples was rejected, "R." The remaining initial calibration average RRFs and continuing calibration RRFs were ≥0.05. The remaining initial calibration %RSDs were ≤35% or r^2 ≥0.995. The continuing calibration %D exceeded the control limit for 2-chloroethyl vinyl ether; therefore, nondetected results for 2-chloroethyl vinyl ether in both samples were qualified as estimated, "UJ." Remaining continuing calibration %Ds were ≤20%.

- Blanks: The method blanks had no target compound detects above the MDL.

- Blank Spikes and Laboratory Control Samples: LCS recoveries were within QC limits for both Methods 624 and 8260B.

- Surrogate Recovery: Recoveries were within laboratory-established QC limits.

- Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were not performed on a sample from this SDG. Evaluation of method accuracy was based on LCS results.

- Field QC Samples: Field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. Any remaining detects were used to evaluate the associated site samples. Following are findings associated with field QC samples:

    - Trip Blanks: Sample Trip Blank was the trip blank associated with the site sample in this SDG. There were no detects above the MDL in the trip blank. Method 8260B analysis for 1,4-dioxane was not requested for sample Trip Blanks.

- Field Blanks and Equipment Rinsates: This SDG had no identified field blank or equipment rinsate samples.

- Field Duplicates: There were no field duplicate samples identified in this SDG.

- Internal Standards Performance: The internal standard area counts and retention times were within the control limits established by the continuing calibration standards: -50%/+100% for internal standard areas and ±30 seconds for retention times.

- Compound Identification: Compound identification was verified. The laboratory analyzed for volatile target compounds by EPA Method 624 and for 1,4-dioxane by Method 8260B SIM. Review of the sample chromatograms, retention times, and spectra indicated no problems with target compound identification.

- Compound Quantification and Reported Detection Limits: Compound quantification was verified. The reporting limits were supported by the low point of the initial calibrations and the laboratory MDLs. Review of the sample chromatograms, retention times, and spectra indicated no problems with target compound identification; however, the reviewer noted that the laboratory's reference spectrum for 1,4-dioxane was incorrect. Data were not affected. Any result reported between the MDL and the reporting limit was qualified as estimated, "J," and coded with "DNQ" to comply with the NPDES permit. Reported nondetects are valid to the reporting limit.

- Tentatively Identified Compounds: TICs were not reported by the laboratory for this SDG.

- System Performance: Review of the raw data indicated no problems with system performance.

J. VARIOUS EPA METHODS—General Minerals

Reviewed By: P. Meeks
Date Reviewed: March 26 & 27, 2010

The sample listed in Table 1 for this analysis were validated based on the guidelines outlined in the *MEC^X Data Validation Procedure for General Minerals (DVP-6, Rev. 0), EPA Methods 120.1, 180.1, 218.6, 300.0, 1664A, SM2540C, SM2540D, SM2540F, SM4500-F-C, SM4500NH3-C, SM4500CN-E, SM5210B, SM5310B, SM5540C*, and the *National Functional Guidelines for Inorganic Data Review* (7/02).

- Holding Times: Analytical holding times were met.

- Calibration: Calibration criteria were met. Initial calibration r^2 values were ≥0.995. TOC in the closing CCV was recovered above the control limit; therefore, TOC detected in the sample was qualified as estimated, "J." Nitrite was recovered at 11% in one CCV bracketing the sample analyses; however, nitrite was not detected in the site sample and

no qualification was required for the nitrate/nitrite result. All remaining initial and continuing calibration recoveries were within 90-110%. Balance calibration logs were considered acceptable. No titrant standardization information was provided for the ammonia analysis.

- Blanks: Fluoride was detected in the ICB at 0. 335 mg/L; therefore, fluoride detected in the sample was qualified as nondetected, "U," at the reporting limit. Method blanks and CCBs had no other applicable detects.

- Blank Spikes and Laboratory Control Samples: A nitrate/nitrite recovery was not listed on the summary form. The reviewer checked the raw data and determined that the nitrate/nitrite recovery was acceptable. The remaining recoveries and the BOD RPD were within laboratory-established QC limits.

- Laboratory Duplicates: No laboratory duplicate analyses were performed on the sample in this SDG.

- Matrix Spike/Matrix Spike Duplicate: No MS/MSD analyses were performed on the sample in this SDG. Method accuracy was evaluated based on LCS results.

- Sample Result Verification: Calculations were verified and the sample results reported on the sample result summary were verified against the raw data. No transcription errors or calculation errors were noted. When the sample results were qualified and the reviewer was able to clearly determine bias, detected results were qualified as either "J+" or "J-"; otherwise, bias was not indicated in the qualification. Any detects between the method detection limit and the reporting limit were qualified as estimated, "J," and coded with "DNQ," in order to comply with the NPDES permit. Reported nondetects are valid to the MDL.

- Field QC Samples: Field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. Any remaining detects were used to evaluate the associated site samples. Following are findings associated with field QC samples:

    - Field Blanks and Equipment Rinsates: This SDG had no identified field blank or equipment rinsate samples.

    - Field Duplicates: There were no field duplicate samples identified for this SDG.

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Client: Test America - Irvine
17461 Derian Avenue, Suite 100
Irvine, CA 92614-5817

Attention: Joseph Doak
Sample: Water / 1 Sample
Project Name: ITB0895
Project Number: ITB0895 Outfall 018
Method Number: EPA 8315 (Modified)
Investigation: Hydrazines

REPORT

Laboratory No: 987713
Report Date: February 11, 2010
Sampling Date: February 7, 2010
Receiving Date: February 8, 2010
Extraction Date: February 8, 2010
Analysis Date: February 9, 2010
Units: µg/L
Reported By: JS

Analytical Results

Sample ID	Sample Description	Sample Amount (mL)	Dilution Factor	Monomethyl Hydrazine	u-Dimethyl Hydrazine	Hydrazine	Qualifier Codes
708690-MB	Method Blank	100	1	*ND	*ND	*ND	None
987713	ITB0895-01	100	1	ND	ND	ND	None
MDL				0.857	1.42	0.452	
PQL				5.0	5.0	1.00	
Sample Reporting Limits				5.0	5.0	1.00	

*Analysis not validated

Note: Results based on detector #1 (UV=365nm) data.

Level IV

Linda Saetern, Project Manager
Analytical Services, Truesdail Laboratories, Inc.

lm 4/5/10

Validated Sample Result Forms ITB0895/ITB0889

Analysis Method ASTM 5174-91

Sample Name Outfall 018 **Matrix Type:** WATER **Validation Level:** IV

Lab Sample Name: ITB0895-01 **Sample Date:** 2/7/2010 10:45:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Total Uranium	7440-61-1	0.125	0.693	0.21	pCi/L	U	R	H

Analysis Method EPA 120.1

Sample Name Outfall 018 (Grab) **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB0889-01 **Sample Date:** 2/6/2010 1:00:00 PM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Specific Conductance	NA	350	1.0	1.0	uS/cm			

Analysis Method EPA 1664A

Sample Name Outfall 018 (Grab) **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB0889-01 **Sample Date:** 2/6/2010 1:00:00 PM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Hexane Extractable Material (Oil & Grease)	HEM	ND	4.8	1.3	mg/l		U	

Analysis Method EPA 180.1

Sample Name Outfall 018 **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB0895-01 **Sample Date:** 2/7/2010 10:45:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Turbidity	Turb	0.10	1.0	0.040	NTU	Ja	J	DNQ

Analysis Method EPA 200.7

Sample Name Outfall 018 **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB0895-01 **Sample Date:** 2/7/2010 10:45:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Arsenic	7440-38-2	ND	10	7.0	ug/l		U	
Barium	7440-39-3	0.025	0.010	0.0060	mg/l			
Beryllium	7440-41-7	ND	2.0	0.90	ug/l		U	
Boron	7440-42-8	ND	0.086	0.020	mg/l		U	B
Calcium	7440-70-2	27	0.10	0.050	mg/l			
Chromium	7440-47-3	ND	5.0	2.0	ug/l		U	
Cobalt	7440-48-4	ND	10	2.0	ug/l		U	
Iron	7439-89-6	ND	0.040	0.015	mg/l		U	
Magnesium	7439-95-4	5.5	0.020	0.012	mg/l			
Manganese	7439-96-5	210	20	7.0	ug/l			
Nickel	7440-02-0	ND	10	2.0	ug/l		UJ	R
Vanadium	7440-62-2	ND	10	3.0	ug/l		U	
Zinc	7440-66-6	12	20	6.0	ug/l	Ja	J	DNQ

Analysis Method EPA 200.7-Diss

Sample Name Outfall 018 **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB0895-01 **Sample Date:** 2/7/2010 10:45:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Arsenic	7440-38-2	ND	10	7.0	ug/l		U	
Barium	7440-39-3	0.024	0.010	0.0060	mg/l			
Beryllium	7440-41-7	ND	2.0	0.90	ug/l		U	
Boron	7440-42-8	ND	0.11	0.020	mg/l	B	U	B
Calcium	7440-70-2	25	0.10	0.050	mg/l	MHA		
Cobalt	7440-48-4	ND	10	2.0	ug/l		U	
Iron	7439-89-6	ND	0.040	0.015	mg/l		U	
Magnesium	7439-95-4	5.0	0.020	0.012	mg/l			
Manganese	7439-96-5	190	20	7.0	ug/l			
Nickel	7440-02-0	ND	10	2.0	ug/l		UJ	R
Vanadium	7440-62-2	ND	10	3.0	ug/l		U	
Zinc	7440-66-6	13	20	6.0	ug/l	Ja	J	DNQ

Analysis Method EPA 200.8

Sample Name Outfall 018 **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB0895-01 **Sample Date:** 2/7/2010 10:45:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Antimony	7440-36-0	ND	2.0	0.30	ug/l		UJ	B
Cadmium	7440-43-9	ND	1.0	0.10	ug/l		UJ	R, B
Copper	7440-50-8	0.79	2.0	0.50	ug/l	Ja	J	*III, DNQ
Lead	7439-92-1	ND	1.0	0.20	ug/l		U	
Selenium	7782-49-2	ND	2.0	0.50	ug/l		U	
Silver	7440-22-4	ND	1.0	0.10	ug/l		UJ	R, B
Thallium	7440-28-0	ND	1.0	0.20	ug/l	C	U	

Analysis Method EPA 200.8-Diss

Sample Name Outfall 018 **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB0895-01 **Sample Date:** 2/7/2010 10:45:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Antimony	7440-36-0	0.41	2.0	0.30	ug/l	Ja	J	DNQ
Cadmium	7440-43-9	ND	1.0	0.10	ug/l		U	
Copper	7440-50-8	ND	2.0	0.50	ug/l		UJ	*III
Lead	7439-92-1	ND	1.0	0.20	ug/l		U	
Selenium	7782-49-2	ND	2.0	0.50	ug/l		U	
Silver	7440-22-4	ND	1.0	0.10	ug/l	C	U	
Thallium	7440-28-0	ND	1.0	0.20	ug/l		U	

Analysis Method EPA 218.6

Sample Name Outfall 018 (Grab) **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB0889-01 **Sample Date:** 2/6/2010 1:00:00 PM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Chromium VI	18540-29-9	ND	1.0	0.25	ug/l		U	

Analysis Method EPA 245.1

Sample Name Outfall 018 **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB0895-01 **Sample Date:** 2/7/2010 10:45:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Mercury	7439-97-6	ND	0.20	0.10	ug/l		U	

Analysis Method EPA 245.1-Diss

Sample Name Outfall 018 **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB0895-01 **Sample Date:** 2/7/2010 10:45:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Mercury	7439-97-6	ND	0.20	0.10	ug/l		U	

Analysis Method EPA 300.0

Sample Name Outfall 018 **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB0895-01 **Sample Date:** 2/7/2010 10:45:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Chloride	16887-00-6	7.7	0.50	0.25	mg/l			
Nitrate/Nitrite-N	NA	0.22	0.26	0.15	mg/l	Ja	J	DNQ
Nitrate-N	14797-55-8	0.22	0.11	0.060	mg/l			
Nitrite-N	14797-65-0	ND	0.15	0.090	mg/l		U	
Sulfate	14808-79-8	110	5.0	2.0	mg/l			

Analysis Method EPA 314.0

Sample Name Outfall 018 **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB0895-01 **Sample Date:** 2/7/2010 10:45:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Perchlorate	14797-73-0	ND	4.0	0.90	ug/l		U	

Analysis Method EPA 608

Sample Name Outfall 018 **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB0895-01 **Sample Date:** 2/7/2010 10:45:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
4,4'-DDD	72-54-8	ND	0.0047	0.0019	ug/l		U	
4,4'-DDE	72-55-9	ND	0.0047	0.0028	ug/l		U	
4,4'-DDT	50-29-3	ND	0.0094	0.0038	ug/l		U	
Aldrin	309-00-2	ND	0.0047	0.0014	ug/l		U	
alpha-BHC	319-84-6	ND	0.0094	0.0024	ug/l		U	
alpha-BHC	319-84-6	ND	0.0047	0.0024	ug/l		U	
Aroclor 1016	12674-11-2	ND	0.47	0.24	ug/l		U	
Aroclor 1221	11104-28-2	ND	0.47	0.24	ug/l		U	
Aroclor 1232	11141-16-5	ND	0.47	0.24	ug/l		U	
Aroclor 1242	53469-21-9	ND	0.47	0.24	ug/l		U	
Aroclor 1248	12672-29-6	ND	0.47	0.24	ug/l		U	
Aroclor 1254	11097-69-1	ND	0.47	0.24	ug/l		U	
Aroclor 1260	11096-82-5	ND	0.47	0.24	ug/l		U	
beta-BHC	319-85-7	ND	0.0094	0.0038	ug/l		U	
Chlordane	57-74-9	ND	0.094	0.038	ug/l		U	
delta-BHC	319-86-8	ND	0.0047	0.0033	ug/l		U	
Dieldrin	60-57-1	ND	0.0047	0.0019	ug/l		U	
Endosulfan I	959-98-8	ND	0.0047	0.0019	ug/l		U	
Endosulfan II	33213-65-9	ND	0.0047	0.0028	ug/l		U	
Endosulfan sulfate	1031-07-8	ND	0.0094	0.0028	ug/l		U	
Endrin	72-20-8	ND	0.0047	0.0019	ug/l	C	UJ	C
Endrin aldehyde	7421-93-4	ND	0.0094	0.0019	ug/l		U	
Endrin ketone	53494-70-5	ND	0.0094	0.0028	ug/l		U	
gamma-BHC (Lindane)	58-89-9	ND	0.019	0.0028	ug/l		U	
Heptachlor	76-44-8	ND	0.0094	0.0028	ug/l	C	UJ	C
Heptachlor epoxide	1024-57-3	ND	0.0047	0.0024	ug/l		U	
Methoxychlor	72-43-5	ND	0.0047	0.0033	ug/l		U	
Toxaphene	8001-35-2	ND	0.47	0.24	ug/l		UJ	C

Analysis Method EPA 624

Sample Name Outfall 018 (Grab) **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB0889-01 **Sample Date:** 2/6/2010 1:00:00 PM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1,1,1-Trichloroethane	71-55-6	ND	0.50	0.30	ug/l		U	
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.50	0.30	ug/l		U	
1,1,2-Trichloroethane	79-00-5	ND	0.50	0.30	ug/l		U	
1,1-Dichloroethane	75-34-3	ND	0.50	0.40	ug/l		U	
1,1-Dichloroethene	75-35-4	ND	0.50	0.42	ug/l		U	
1,2-Dichloro-1,1,2-trifluoroethane	354-23-4	ND	2.0	1.1	ug/l		U	
1,2-Dichlorobenzene	95-50-1	ND	0.50	0.32	ug/l		U	
1,2-Dichloroethane	107-06-2	ND	0.50	0.28	ug/l		U	
1,2-Dichloropropane	78-87-5	ND	0.50	0.35	ug/l		U	
1,3-Dichlorobenzene	541-73-1	ND	0.50	0.35	ug/l		U	
1,4-Dichlorobenzene	106-46-7	ND	0.50	0.37	ug/l		U	
2-Chloroethyl vinyl ether	110-75-8	ND	5.0	1.8	ug/l		UJ	C
Acrolein	107-02-8	ND	5.0	4.0	ug/l		R	R
Acrylonitrile	107-13-1	ND	2.0	1.2	ug/l		U	
Benzene	71-43-2	ND	0.50	0.28	ug/l		U	
Bromodichloromethane	75-27-4	ND	0.50	0.30	ug/l		U	
Bromoform	75-25-2	ND	0.50	0.40	ug/l		U	
Bromomethane	74-83-9	ND	1.0	0.42	ug/l		U	
Carbon tetrachloride	56-23-5	ND	0.50	0.28	ug/l		U	
Chlorobenzene	108-90-7	ND	0.50	0.36	ug/l		U	
Chloroethane	75-00-3	ND	1.0	0.40	ug/l		U	
Chloroform	67-66-3	ND	0.50	0.33	ug/l		U	
Chloromethane	74-87-3	ND	0.50	0.40	ug/l		U	
cis-1,2-Dichloroethene	156-59-2	ND	0.50	0.32	ug/l		U	
cis-1,3-Dichloropropene	10061-01-5	ND	0.50	0.22	ug/l		U	
Cyclohexane	110-82-7	ND	1.0	0.40	ug/l		U	
Dibromochloromethane	124-48-1	ND	0.50	0.40	ug/l		U	
Ethylbenzene	100-41-4	ND	0.50	0.25	ug/l		U	
Methylene chloride	75-09-2	ND	1.0	0.95	ug/l		U	
Tetrachloroethene	127-18-4	ND	0.50	0.32	ug/l		U	
Toluene	108-88-3	ND	0.50	0.36	ug/l		U	
trans-1,2-Dichloroethene	156-60-5	ND	0.50	0.30	ug/l		U	
trans-1,3-Dichloropropene	10061-02-6	ND	0.50	0.32	ug/l		U	
Trichloroethene	79-01-6	ND	0.50	0.26	ug/l		U	
Trichlorofluoromethane	75-69-4	ND	0.50	0.34	ug/l		U	

Analysis Method EPA 624

Trichlorotrifluoroethane (Freon 113)	76-13-1	ND	5.0	0.50	ug/l	U
Vinyl chloride	75-01-4	ND	0.50	0.40	ug/l	U
Xylenes, Total	1330-20-7	ND	1.5	0.90	ug/l	U

Analysis Method EPA 624

Sample Name Trip Blank **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB0889-02 **Sample Date:** 2/6/2010 7:00:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1,1,1-Trichloroethane	71-55-6	ND	0.50	0.30	ug/l		U	
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.50	0.30	ug/l		U	
1,1,2-Trichloroethane	79-00-5	ND	0.50	0.30	ug/l		U	
1,1-Dichloroethane	75-34-3	ND	0.50	0.40	ug/l		U	
1,1-Dichloroethene	75-35-4	ND	0.50	0.42	ug/l		U	
1,2-Dichloro-1,1,2-trifluoroethane	354-23-4	ND	2.0	1.1	ug/l		U	
1,2-Dichlorobenzene	95-50-1	ND	0.50	0.32	ug/l		U	
1,2-Dichloroethane	107-06-2	ND	0.50	0.28	ug/l		U	
1,2-Dichloropropane	78-87-5	ND	0.50	0.35	ug/l		U	
1,3-Dichlorobenzene	541-73-1	ND	0.50	0.35	ug/l		U	
1,4-Dichlorobenzene	106-46-7	ND	0.50	0.37	ug/l		U	
2-Chloroethyl vinyl ether	110-75-8	ND	5.0	1.8	ug/l		UJ	C
Acrolein	107-02-8	ND	5.0	4.0	ug/l		R	R
Acrylonitrile	107-13-1	ND	2.0	1.2	ug/l		U	
Benzene	71-43-2	ND	0.50	0.28	ug/l		U	
Bromodichloromethane	75-27-4	ND	0.50	0.30	ug/l		U	
Bromoform	75-25-2	ND	0.50	0.40	ug/l		U	
Bromomethane	74-83-9	ND	1.0	0.42	ug/l		U	
Carbon tetrachloride	56-23-5	ND	0.50	0.28	ug/l		U	
Chlorobenzene	108-90-7	ND	0.50	0.36	ug/l		U	
Chloroethane	75-00-3	ND	1.0	0.40	ug/l		U	
Chloroform	67-66-3	ND	0.50	0.33	ug/l		U	
Chloromethane	74-87-3	ND	0.50	0.40	ug/l		U	
cis-1,2-Dichloroethene	156-59-2	ND	0.50	0.32	ug/l		U	
cis-1,3-Dichloropropene	10061-01-5	ND	0.50	0.22	ug/l		U	
Cyclohexane	110-82-7	ND	1.0	0.40	ug/l		U	
Dibromochloromethane	124-48-1	ND	0.50	0.40	ug/l		U	
Ethylbenzene	100-41-4	ND	0.50	0.25	ug/l		U	
Methylene chloride	75-09-2	ND	1.0	0.95	ug/l		U	
Tetrachloroethene	127-18-4	ND	0.50	0.32	ug/l		U	
Toluene	108-88-3	ND	0.50	0.36	ug/l		U	
trans-1,2-Dichloroethene	156-60-5	ND	0.50	0.30	ug/l		U	
trans-1,3-Dichloropropene	10061-02-6	ND	0.50	0.32	ug/l		U	
Trichloroethene	79-01-6	ND	0.50	0.26	ug/l		U	
Trichlorofluoromethane	75-69-4	ND	0.50	0.34	ug/l		U	

Analysis Method EPA 624

Trichlorotrifluoroethane (Freon 113)	76-13-1	ND	5.0	0.50	ug/l	U
Vinyl chloride	75-01-4	ND	0.50	0.40	ug/l	U
Xylenes, Total	1330-20-7	ND	1.5	0.90	ug/l	U

Analysis Method EPA 625

Sample Name Outfall 018 **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB0895-01 **Sample Date:** 2/7/2010 10:45:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1,2,4-Trichlorobenzene	120-82-1	ND	0.94	0.094	ug/l		U	
1,2-Dichlorobenzene	95-50-1	ND	0.47	0.094	ug/l		U	
1,2-Diphenylhydrazine/Azobenzene	103-33-3	ND	0.94	0.094	ug/l		U	
1,3-Dichlorobenzene	541-73-1	ND	0.47	0.094	ug/l		U	
1,4-Dichlorobenzene	106-46-7	ND	0.47	0.19	ug/l		U	
2,4,5-Trichlorophenol	95-95-4	ND	1.9	0.19	ug/l		U	
2,4,6-Trichlorophenol	88-06-2	ND	0.94	0.094	ug/l		U	
2,4-Dichlorophenol	120-83-2	ND	1.9	0.19	ug/l		U	
2,4-Dimethylphenol	105-67-9	ND	1.9	0.28	ug/l		U	
2,4-Dinitrophenol	51-28-5	ND	4.7	0.85	ug/l		UJ	C
2,4-Dinitrotoluene	121-14-2	ND	4.7	0.19	ug/l		U	
2,6-Dinitrotoluene	606-20-2	ND	4.7	0.094	ug/l		U	
2-Chloronaphthalene	91-58-7	ND	0.47	0.094	ug/l		U	
2-Chlorophenol	95-57-8	ND	0.94	0.19	ug/l		U	
2-Methylnaphthalene	91-57-6	ND	0.94	0.094	ug/l		U	
2-Methylphenol	95-48-7	ND	1.9	0.094	ug/l		U	
2-Nitroaniline	88-74-4	ND	4.7	0.094	ug/l		U	
2-Nitrophenol	88-75-5	ND	1.9	0.094	ug/l		U	
3,3'-Dichlorobenzidine	91-94-1	ND	4.7	4.7	ug/l	L2	UJ	*III
3-Nitroaniline	99-09-2	ND	4.7	0.19	ug/l	L2	UJ	*III
4,6-Dinitro-2-methylphenol	534-52-1	ND	4.7	0.19	ug/l		R	R
4-Bromophenyl phenyl ether	101-55-3	ND	0.94	0.094	ug/l		U	
4-Chloro-3-methylphenol	59-50-7	ND	1.9	0.19	ug/l		U	
4-Chloroaniline	106-47-8	ND	1.9	0.094	ug/l	L2	UJ	*III
4-Chlorophenyl phenyl ether	7005-72-3	ND	0.47	0.094	ug/l		U	
4-Methylphenol	106-44-5	ND	4.7	0.19	ug/l		U	
4-Nitroaniline	100-01-6	ND	4.7	0.47	ug/l	L2	UJ	*III
4-Nitrophenol	100-02-7	ND	4.7	2.4	ug/l		U	
Acenaphthene	83-32-9	ND	0.47	0.094	ug/l		U	
Acenaphthylene	208-96-8	ND	0.47	0.094	ug/l		U	
Aniline	62-53-3	ND	9.4	0.28	ug/l	L2	UJ	*III
Anthracene	120-12-7	ND	0.47	0.094	ug/l		U	
Benzidine	92-87-5	ND	4.7	4.7	ug/l	L2	UJ	*III
Benzo(a)anthracene	56-55-3	ND	4.7	0.094	ug/l		U	
Benzo(a)pyrene	50-32-8	ND	1.9	0.094	ug/l		U	

Analysis Method EPA 625

Benzo(b)fluoranthene	205-99-2	ND	1.9	0.094	ug/l	U	
Benzo(g,h,i)perylene	191-24-2	ND	4.7	0.094	ug/l	U	
Benzo(k)fluoranthene	207-08-9	ND	0.47	0.094	ug/l	U	
Benzoic acid	65-85-0	ND	19	2.8	ug/l	UJ	C
Benzyl alcohol	100-51-6	ND	4.7	0.094	ug/l	U	
Bis(2-chloroethoxy)methane	111-91-1	ND	0.47	0.094	ug/l	U	
Bis(2-chloroethyl)ether	111-44-4	ND	0.47	0.094	ug/l	U	
Bis(2-chloroisopropyl)ether	108-60-1	ND	0.47	0.094	ug/l	U	
Bis(2-ethylhexyl)phthalate	117-81-7	ND	4.7	1.6	ug/l	U	
Butyl benzyl phthalate	85-68-7	ND	4.7	0.66	ug/l	U	
Chrysene	218-01-9	ND	0.47	0.094	ug/l	U	
Dibenz(a,h)anthracene	53-70-3	ND	0.47	0.094	ug/l	U	
Dibenzofuran	132-64-9	ND	0.47	0.094	ug/l	U	
Diethyl phthalate	84-66-2	ND	0.94	0.094	ug/l	U	
Dimethyl phthalate	131-11-3	ND	0.47	0.094	ug/l	U	
Di-n-butyl phthalate	84-74-2	ND	1.9	0.19	ug/l	U	
Di-n-octyl phthalate	117-84-0	ND	4.7	0.094	ug/l	U	
Fluoranthene	206-44-0	ND	0.47	0.094	ug/l	U	
Fluorene	86-73-7	ND	0.47	0.094	ug/l	U	
Hexachlorobenzene	118-74-1	ND	0.94	0.094	ug/l	U	
Hexachlorobutadiene	87-68-3	ND	1.9	0.19	ug/l	U	
Hexachlorocyclopentadiene	77-47-4	ND	4.7	0.094	ug/l	UJ	*III
Hexachloroethane	67-72-1	ND	2.8	0.19	ug/l	U	
Indeno(1,2,3-cd)pyrene	193-39-5	ND	1.9	0.094	ug/l	U	
Isophorone	78-59-1	ND	0.94	0.094	ug/l	U	
Naphthalene	91-20-3	ND	0.94	0.094	ug/l	U	
Nitrobenzene	98-95-3	ND	0.94	0.094	ug/l	U	
N-Nitrosodimethylamine	62-75-9	ND	1.9	0.094	ug/l	U	
N-Nitroso-di-n-propylamine	621-64-7	ND	1.9	0.094	ug/l	U	
N-Nitrosodiphenylamine	86-30-6	ND	0.94	0.094	ug/l	UJ	C
Pentachlorophenol	87-86-5	ND	1.9	0.094	ug/l	UJ	C
Phenanthrene	85-01-8	ND	0.47	0.094	ug/l	U	
Phenol	108-95-2	ND	0.94	0.28	ug/l	U	
Pyrene	129-00-0	ND	0.47	0.094	ug/l	U	

Analysis Method EPA 8015 Mod.

Sample Name Outfall 018 (Grab) **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB0889-01 **Sample Date:** 2/6/2010 1:00:00 PM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
GRO (C4 - C12)	8006-61-9	ND	100	25	ug/l		UJ	C

Analysis Method EPA 8015B

Sample Name Outfall 018 (Grab) **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB0889-01 **Sample Date:** 2/6/2010 1:00:00 PM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
DRO (C13 - C28)	C13-C28	ND	94	47	ug/l		U	

Analysis Method EPA 8260B-SIM

Sample Name Outfall 018 **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB0895-01 **Sample Date:** 2/7/2010 10:45:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1,4-Dioxane	123-91-1	ND	2.0	1.0	ug/l		U	

Analysis Method EPA 900.0 MOD

Sample Name Outfall 018 **Matrix Type:** WATER **Validation Level:** IV

Lab Sample Name: ITB0895-01 **Sample Date:** 2/7/2010 10:45:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Gross Alpha	12587-46-1	-0.22	3	1.3	pCi/L	U	UJ	C
Gross Beta	12587-47-2	1.52	4	1.4	pCi/L	Jb	J	DNQ

Analysis Method EPA 901.1 MOD

Sample Name Outfall 018 **Matrix Type:** WATER **Validation Level:** IV

Lab Sample Name: ITB0895-01 **Sample Date:** 2/7/2010 10:45:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Cesium 137	10045-97-3	1.3	20	12	pCi/L	U	U	
Potassium 40	13966-00-2	-60	0	200	pCi/L	U	U	

Analysis Method EPA 903.0 MOD

Sample Name Outfall 018 **Matrix Type:** WATER **Validation Level:** IV

Lab Sample Name: ITB0895-01 **Sample Date:** 2/7/2010 10:45:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Radium (226)	13982-63-3	0	1	0.2	pCi/L	U	UJ	C

Analysis Method EPA 904 MOD

Sample Name Outfall 018 **Matrix Type:** WATER **Validation Level:** IV

Lab Sample Name: ITB0895-01RE1 **Sample Date:** 2/7/2010 10:45:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Radium 228	15262-20-1	0.009	1	0.27	pCi/L	U	R	H

Analysis Method EPA 905 MOD

Sample Name Outfall 018 **Matrix Type:** WATER **Validation Level:** IV

Lab Sample Name: ITB0895-01 **Sample Date:** 2/7/2010 10:45:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Strontium 90	10098-97-2	0.004	3	0.45	pCi/L	U	U	

Analysis Method EPA 906.0 MOD

Sample Name Outfall 018 **Matrix Type:** WATER **Validation Level:** IV

Lab Sample Name: ITB0895-01 **Sample Date:** 2/7/2010 10:45:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Tritium	10028-17-8	30	500	91	pCi/L	U	U	

Analysis Method EPA-5 1613B

Sample Name Outfall 018 **Matrix Type:** WATER **Validation Level:** IV

Lab Sample Name: ITB0895-01RE1 **Sample Date:** 2/7/2010 10:45:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1,2,3,4,6,7,8-HpCDD	35822-46-9	ND	0.000047	0.0000009	ug/L	J, Ba	U	B
1,2,3,4,6,7,8-HpCDF	67562-39-4	ND	1.8e-006	0.0000007	ug/L	J, Q, Ba	U	B
1,2,3,4,7,8,9-HpCDF	55673-89-7	ND	0.000047	0.0000013	ug/L		U	
1,2,3,4,7,8-HxCDD	39227-28-6	ND	8e-007	0.0000002	ug/L	J, Q, Ba	U	B
1,2,3,4,7,8-HxCDF	70648-26-9	ND	1e-006	0.0000004	ug/L	J, Q, Ba	U	B
1,2,3,6,7,8-HxCDD	57653-85-7	ND	1.2e-006	0.0000002	ug/L	J, Q, Ba	U	B
1,2,3,6,7,8-HxCDF	57117-44-9	ND	0.000047	0.0000003	ug/L	J, Ba	U	B
1,2,3,7,8,9-HxCDD	19408-74-3	ND	7.1e-007	0.0000002	ug/L	J, Q, Ba	U	B
1,2,3,7,8,9-HxCDF	72918-21-9	ND	6.8e-007	0.0000005	ug/L	J, Q, Ba	U	B
1,2,3,7,8-PeCDD	40321-76-4	ND	0.000047	0.0000004	ug/L		U	
1,2,3,7,8-PeCDF	57117-41-6	ND	1e-006	0.0000000	ug/L	J, Q, Ba	U	B
2,3,4,6,7,8-HxCDF	60851-34-5	ND	7.8e-007	0.0000004	ug/L	J, Q, Ba	U	B
2,3,4,7,8-PeCDF	57117-31-4	ND	0.000047	0.0000000	ug/L	J, Ba	U	B
2,3,7,8-TCDD	1746-01-6	ND	0.0000094	0.0000000	ug/L		U	
2,3,7,8-TCDF	51207-31-9	ND	0.0000094	0.0000000	ug/L		U	
OCDD	3268-87-9	ND	1.3e-005	0.0000009	ug/L	J, Q, Ba	U	B
OCDF	39001-02-0	ND	0.000094	0.0000008	ug/L	J, Ba	U	B
Total HpCDD	37871-00-4	ND	0.000047	0.0000009	ug/L	Ba, J	U	B
Total HpCDF	38998-75-3	3.5e-006	3.5e-006	0.0000007	ug/L	J, Q, Ba	J	B, DNQ, *III
Total HxCDD	34465-46-8	ND	2.7e-006	0.0000002	ug/L	J, Q, Ba	U	B
Total HxCDF	55684-94-1	ND	3.6e-006	0.0000003	ug/L	J, Q, Ba	U	B
Total PeCDD	36088-22-9	ND	1e-006	0.0000004	ug/L	J, Q, Ba	U	B
Total PeCDF	30402-15-4	ND	2.1e-006	0.0000000	ug/L	J, Q, Ba	U	B
Total TCDD	41903-57-5	ND	0.0000094	0.0000000	ug/L		U	
Total TCDF	55722-27-5	ND	0.0000094	0.0000000	ug/L		U	

Analysis Method SM 2540D

Sample Name Outfall 018 **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB0895-01 **Sample Date:** 2/7/2010 10:45:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Total Suspended Solids	TSS	ND	10	1.0	mg/l		U	

Analysis Method SM 4500-F-C

Sample Name Outfall 018 **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB0895-01 **Sample Date:** 2/7/2010 10:45:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Fluoride	16984-48-8	ND	0.15	0.020	mg/l	B	U	B

Analysis Method SM2340B

Sample Name Outfall 018 **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB0895-01 **Sample Date:** 2/7/2010 10:45:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Hardness as CaCO3		89	0.33	0.17	mg/l			

Analysis Method SM2340B-Diss

Sample Name Outfall 018 **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB0895-01 **Sample Date:** 2/7/2010 10:45:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Hardness as CaCO3		82	0.33	0.17	mg/l			

Analysis Method SM2540C

Sample Name Outfall 018 **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB0895-01 **Sample Date:** 2/7/2010 10:45:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Total Dissolved Solids	NA	200	10	1.0	mg/l			

Analysis Method SM2540F

Sample Name Outfall 018 (Grab) **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB0889-01 **Sample Date:** 2/6/2010 1:00:00 PM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Total Settleable Solids	Set Solids	ND	0.10	0.10	ml/l		U	

Analysis Method SM4500CN-E

Sample Name Outfall 018 (Grab) **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB0889-01 **Sample Date:** 2/6/2010 1:00:00 PM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Total Cyanide	57-12-5	ND	5.0	2.2	ug/l		U	

Analysis Method SM4500NH3-C

Sample Name Outfall 018 **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB0895-01 **Sample Date:** 2/7/2010 10:45:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Ammonia-N (Distilled)	7664-41-7	ND	0.50	0.50	mg/l		U	

Analysis Method SM5210B

Sample Name Outfall 018 **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB0895-01 **Sample Date:** 2/7/2010 10:45:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Biochemical Oxygen Demand	BOD	0.57	2.0	0.50	mg/l	Ja	J	DNQ

Analysis Method SM5310B

Sample Name Outfall 018 **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB0895-01 **Sample Date:** 2/7/2010 10:45:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Total Organic Carbon	TOC	5.0	1.0	0.50	mg/l		J	R

Analysis Method SM5540-C

Sample Name Outfall 018 **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB0895-01 **Sample Date:** 2/7/2010 10:45:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Surfactants (MBAS)	MBAS	0.12	0.10	0.025	mg/l			

APPENDIX G

Section 64

Outfall 018 – February 6 & 7, 2010

Test America Analytical Laboratory Report

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
618 Michillinda Avenue, Suite 200
Arcadia, CA 91007
Attention: Bronwyn Kelly

Project: Annual Outfall 018

Sampled: 02/06/10-02/07/10
Received: 02/06/10
Issued: 03/31/10 13:36

NELAP #01108CA California ELAP#2706 CSDLAC #10256 AZ #AZ0671 NV #CA01531

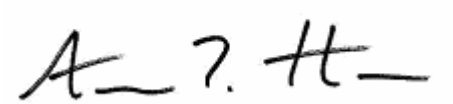
SAMPLE CROSS REFERENCE

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

ADDITIONAL INFORMATION: Complete final report including Radchem data.

LABORATORY ID	CLIENT ID	MATRIX
ITB0889-01	Outfall 018 (Grab)	Water
ITB0889-02	Trip Blank	Water
ITB0895-01	Outfall 018	Water

Reviewed By:



TestAmerica Irvine

Aaron Harris For Heather Clark
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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MWH-Pasadena/Boeing
618 Michillinda Avenue, Suite 200
Arcadia, CA 91007
Attention: Bronwyn Kelly

Project ID: Annual Outfall 018
Report Number: ITB0889

Sampled: 02/06/10-02/07/10
Received: 02/06/10

VOLATILE FUEL HYDROCARBONS (EPA 5030/CADHS Mod. 8015)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0889-01 (Outfall 018 (Grab) - Water)					**Sampled: 02/06/10**				
Reporting Units: ug/l									
GRO (C4 - C12)	EPA 8015 Mod.	10B1582	N/A	100	ND	1	02/12/10	02/12/10	
Surrogate: 4-BFB (FID) (65-140%)					*79 %*				

TestAmerica Irvine

Aaron Harris For Heather Clark
Project Manager

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MWH-Pasadena/Boeing
618 Michillinda Avenue, Suite 200
Arcadia, CA 91007
Attention: Bronwyn Kelly

Project ID: Annual Outfall 018
Report Number: ITB0889

Sampled: 02/06/10-02/07/10
Received: 02/06/10

EXTRACTABLE FUEL HYDROCARBONS (EPA 3510C/EPA 8015B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0889-01 (Outfall 018 (Grab) - Water)					**Sampled: 02/06/10**				
Reporting Units: ug/l									
DRO (C13 - C28)	EPA 8015B	10B1526	47	94	ND	0.943	02/12/10	02/12/10	
Surrogate: n-Octacosane (45-120%)					*64 %*				

TestAmerica Irvine

Aaron Harris For Heather Clark
Project Manager

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MWH-Pasadena/Boeing
618 Michillinda Avenue, Suite 200
Arcadia, CA 91007
Attention: Bronwyn Kelly

Project ID: Annual Outfall 018
Report Number: ITB0889

Sampled: 02/06/10-02/07/10
Received: 02/06/10

PURGEABLES BY GC/MS (EPA 624)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0889-01 (Outfall 018 (Grab) - Water)					**Sampled: 02/06/10**				
Reporting Units: ug/l									
Benzene	EPA 624	10B0840	0.28	0.50	ND	1	02/08/10	02/08/10	
Bromodichloromethane	EPA 624	10B0840	0.30	0.50	ND	1	02/08/10	02/08/10	
Bromoform	EPA 624	10B0840	0.40	0.50	ND	1	02/08/10	02/08/10	
Bromomethane	EPA 624	10B0840	0.42	1.0	ND	1	02/08/10	02/08/10	
Carbon tetrachloride	EPA 624	10B0840	0.28	0.50	ND	1	02/08/10	02/08/10	
Chlorobenzene	EPA 624	10B0840	0.36	0.50	ND	1	02/08/10	02/08/10	
Chloroethane	EPA 624	10B0840	0.40	1.0	ND	1	02/08/10	02/08/10	
Chloroform	EPA 624	10B0840	0.33	0.50	ND	1	02/08/10	02/08/10	
Chloromethane	EPA 624	10B0840	0.40	0.50	ND	1	02/08/10	02/08/10	
Dibromochloromethane	EPA 624	10B0840	0.40	0.50	ND	1	02/08/10	02/08/10	
1,2-Dichlorobenzene	EPA 624	10B0840	0.32	0.50	ND	1	02/08/10	02/08/10	
1,3-Dichlorobenzene	EPA 624	10B0840	0.35	0.50	ND	1	02/08/10	02/08/10	
1,4-Dichlorobenzene	EPA 624	10B0840	0.37	0.50	ND	1	02/08/10	02/08/10	
1,1-Dichloroethane	EPA 624	10B0840	0.40	0.50	ND	1	02/08/10	02/08/10	
1,2-Dichloroethane	EPA 624	10B0840	0.28	0.50	ND	1	02/08/10	02/08/10	
1,1-Dichloroethene	EPA 624	10B0840	0.42	0.50	ND	1	02/08/10	02/08/10	
cis-1,2-Dichloroethene	EPA 624	10B0840	0.32	0.50	ND	1	02/08/10	02/08/10	
trans-1,2-Dichloroethene	EPA 624	10B0840	0.30	0.50	ND	1	02/08/10	02/08/10	
1,2-Dichloropropane	EPA 624	10B0840	0.35	0.50	ND	1	02/08/10	02/08/10	
cis-1,3-Dichloropropene	EPA 624	10B0840	0.22	0.50	ND	1	02/08/10	02/08/10	
trans-1,3-Dichloropropene	EPA 624	10B0840	0.32	0.50	ND	1	02/08/10	02/08/10	
1,2-Dichloro-1,1,2-trifluoroethane	EPA 624	10B0840	1.1	2.0	ND	1	02/08/10	02/08/10	
Ethylbenzene	EPA 624	10B0840	0.25	0.50	ND	1	02/08/10	02/08/10	
Methylene chloride	EPA 624	10B0840	0.95	1.0	ND	1	02/08/10	02/08/10	
1,1,2,2-Tetrachloroethane	EPA 624	10B0840	0.30	0.50	ND	1	02/08/10	02/08/10	
Tetrachloroethene	EPA 624	10B0840	0.32	0.50	ND	1	02/08/10	02/08/10	
Toluene	EPA 624	10B0840	0.36	0.50	ND	1	02/08/10	02/08/10	
1,1,1-Trichloroethane	EPA 624	10B0840	0.30	0.50	ND	1	02/08/10	02/08/10	
1,1,2-Trichloroethane	EPA 624	10B0840	0.30	0.50	ND	1	02/08/10	02/08/10	
Trichloroethene	EPA 624	10B0840	0.26	0.50	ND	1	02/08/10	02/08/10	
Trichlorofluoromethane	EPA 624	10B0840	0.34	0.50	ND	1	02/08/10	02/08/10	
Trichlorotrifluoroethane (Freon 113)	EPA 624	10B0840	0.50	5.0	ND	1	02/08/10	02/08/10	
Vinyl chloride	EPA 624	10B0840	0.40	0.50	ND	1	02/08/10	02/08/10	
Xylenes, Total	EPA 624	10B0840	0.90	1.5	ND	1	02/08/10	02/08/10	
Cyclohexane	EPA 624	10B0840	0.40	1.0	ND	1	02/08/10	02/08/10	
Surrogate: 4-Bromofluorobenzene (80-120%)					*94 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*94 %*				
Surrogate: Dibromofluoromethane (80-120%)					*106 %*				
Surrogate: Dibromofluoromethane (80-120%)					*106 %*				
Surrogate: Toluene-d8 (80-120%)					*109 %*				
Surrogate: Toluene-d8 (80-120%)					*109 %*				

TestAmerica Irvine

Aaron Harris For Heather Clark
Project Manager

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MWH-Pasadena/Boeing
618 Michillinda Avenue, Suite 200
Arcadia, CA 91007
Attention: Bronwyn Kelly

Project ID: Annual Outfall 018

Report Number: ITB0889

Sampled: 02/06/10-02/07/10
Received: 02/06/10

PURGEABLES BY GC/MS (EPA 624)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0889-02 (Trip Blank - Water)					**Sampled: 02/06/10**				
Reporting Units: ug/l									
Benzene	EPA 624	10B0840	0.28	0.50	ND	1	02/08/10	02/09/10	
Bromodichloromethane	EPA 624	10B0840	0.30	0.50	ND	1	02/08/10	02/09/10	
Bromoform	EPA 624	10B0840	0.40	0.50	ND	1	02/08/10	02/09/10	
Bromomethane	EPA 624	10B0840	0.42	1.0	ND	1	02/08/10	02/09/10	
Carbon tetrachloride	EPA 624	10B0840	0.28	0.50	ND	1	02/08/10	02/09/10	
Chlorobenzene	EPA 624	10B0840	0.36	0.50	ND	1	02/08/10	02/09/10	
Chloroethane	EPA 624	10B0840	0.40	1.0	ND	1	02/08/10	02/09/10	
Chloroform	EPA 624	10B0840	0.33	0.50	ND	1	02/08/10	02/09/10	
Chloromethane	EPA 624	10B0840	0.40	0.50	ND	1	02/08/10	02/09/10	
Dibromochloromethane	EPA 624	10B0840	0.40	0.50	ND	1	02/08/10	02/09/10	
1,2-Dichlorobenzene	EPA 624	10B0840	0.32	0.50	ND	1	02/08/10	02/09/10	
1,3-Dichlorobenzene	EPA 624	10B0840	0.35	0.50	ND	1	02/08/10	02/09/10	
1,4-Dichlorobenzene	EPA 624	10B0840	0.37	0.50	ND	1	02/08/10	02/09/10	
1,1-Dichloroethane	EPA 624	10B0840	0.40	0.50	ND	1	02/08/10	02/09/10	
1,2-Dichloroethane	EPA 624	10B0840	0.28	0.50	ND	1	02/08/10	02/09/10	
1,1-Dichloroethene	EPA 624	10B0840	0.42	0.50	ND	1	02/08/10	02/09/10	
cis-1,2-Dichloroethene	EPA 624	10B0840	0.32	0.50	ND	1	02/08/10	02/09/10	
trans-1,2-Dichloroethene	EPA 624	10B0840	0.30	0.50	ND	1	02/08/10	02/09/10	
1,2-Dichloropropane	EPA 624	10B0840	0.35	0.50	ND	1	02/08/10	02/09/10	
cis-1,3-Dichloropropene	EPA 624	10B0840	0.22	0.50	ND	1	02/08/10	02/09/10	
trans-1,3-Dichloropropene	EPA 624	10B0840	0.32	0.50	ND	1	02/08/10	02/09/10	
1,2-Dichloro-1,1,2-trifluoroethane	EPA 624	10B0840	1.1	2.0	ND	1	02/08/10	02/09/10	
Ethylbenzene	EPA 624	10B0840	0.25	0.50	ND	1	02/08/10	02/09/10	
Methylene chloride	EPA 624	10B0840	0.95	1.0	ND	1	02/08/10	02/09/10	
1,1,2,2-Tetrachloroethane	EPA 624	10B0840	0.30	0.50	ND	1	02/08/10	02/09/10	
Tetrachloroethene	EPA 624	10B0840	0.32	0.50	ND	1	02/08/10	02/09/10	
Toluene	EPA 624	10B0840	0.36	0.50	ND	1	02/08/10	02/09/10	
1,1,1-Trichloroethane	EPA 624	10B0840	0.30	0.50	ND	1	02/08/10	02/09/10	
1,1,2-Trichloroethane	EPA 624	10B0840	0.30	0.50	ND	1	02/08/10	02/09/10	
Trichloroethene	EPA 624	10B0840	0.26	0.50	ND	1	02/08/10	02/09/10	
Trichlorofluoromethane	EPA 624	10B0840	0.34	0.50	ND	1	02/08/10	02/09/10	
Trichlorotrifluoroethane (Freon 113)	EPA 624	10B0840	0.50	5.0	ND	1	02/08/10	02/09/10	
Vinyl chloride	EPA 624	10B0840	0.40	0.50	ND	1	02/08/10	02/09/10	
Xylenes, Total	EPA 624	10B0840	0.90	1.5	ND	1	02/08/10	02/09/10	
Cyclohexane	EPA 624	10B0840	0.40	1.0	ND	1	02/08/10	02/09/10	
Surrogate: 4-Bromofluorobenzene (80-120%)					*93 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*93 %*				
Surrogate: Dibromofluoromethane (80-120%)					*101 %*				
Surrogate: Dibromofluoromethane (80-120%)					*101 %*				
Surrogate: Toluene-d8 (80-120%)					*107 %*				
Surrogate: Toluene-d8 (80-120%)					*107 %*				

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MWH-Pasadena/Boeing
618 Michillinda Avenue, Suite 200
Arcadia, CA 91007
Attention: Bronwyn Kelly

Project ID: Annual Outfall 018
Report Number: ITB0889

Sampled: 02/06/10-02/07/10
Received: 02/06/10

PURGEABLES-- GC/MS (EPA 624)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0889-01 (Outfall 018 (Grab) - Water)					**Sampled: 02/06/10**				
Reporting Units: ug/l									
Acrolein	EPA 624	10B0840	4.0	5.0	ND	1	02/08/10	02/08/10	
Acrylonitrile	EPA 624	10B0840	1.2	2.0	ND	1	02/08/10	02/08/10	
2-Chloroethyl vinyl ether	EPA 624	10B0840	1.8	5.0	ND	1	02/08/10	02/08/10	
Surrogate: 4-Bromofluorobenzene (80-120%)					*94 %*				
Surrogate: Dibromofluoromethane (80-120%)					*106 %*				
Surrogate: Toluene-d8 (80-120%)					*109 %*				
Sample ID: ITB0889-02 (Trip Blank - Water)					**Sampled: 02/06/10**				
Reporting Units: ug/l									
Acrolein	EPA 624	10B0840	4.0	5.0	ND	1	02/08/10	02/09/10	
Acrylonitrile	EPA 624	10B0840	1.2	2.0	ND	1	02/08/10	02/09/10	
2-Chloroethyl vinyl ether	EPA 624	10B0840	1.8	5.0	ND	1	02/08/10	02/09/10	
Surrogate: 4-Bromofluorobenzene (80-120%)					*93 %*				
Surrogate: Dibromofluoromethane (80-120%)					*101 %*				
Surrogate: Toluene-d8 (80-120%)					*107 %*				

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Attention: Bronwyn Kelly

Project ID: Annual Outfall 018
Report Number: ITB0889

Sampled: 02/06/10-02/07/10
Received: 02/06/10

1,4-DIOXANE BY GCMS - SINGLE ION MONITORING (SIM)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0895-01 (Outfall 018 - Water)					**Sampled: 02/07/10**				
Reporting Units: ug/l									
1,4-Dioxane	EPA 8260B-SIM	10B0317	1.0	2.0	ND	1	02/08/10	02/08/10	
Surrogate: Dibromofluoromethane (80-120%)					*100 %*				

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Arcadia, CA 91007
Attention: Bronwyn Kelly

Project ID: Annual Outfall 018
Report Number: ITB0889

Sampled: 02/06/10-02/07/10
Received: 02/06/10

ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0895-01 (Outfall 018 - Water)					**Sampled: 02/07/10**				
Reporting Units: ug/l									
Acenaphthene	EPA 625	10B1393	0.094	0.47	ND	0.943	02/11/10	02/15/10	
Acenaphthylene	EPA 625	10B1393	0.094	0.47	ND	0.943	02/11/10	02/15/10	
Aniline	EPA 625	10B1393	0.28	9.4	ND	0.943	02/11/10	02/15/10	L2
Anthracene	EPA 625	10B1393	0.094	0.47	ND	0.943	02/11/10	02/15/10	
Benzidine	EPA 625	10B1393	4.7	4.7	ND	0.943	02/11/10	02/15/10	L2
Benzo(a)anthracene	EPA 625	10B1393	0.094	4.7	ND	0.943	02/11/10	02/15/10	
Benzo(a)pyrene	EPA 625	10B1393	0.094	1.9	ND	0.943	02/11/10	02/15/10	
Benzo(b)fluoranthene	EPA 625	10B1393	0.094	1.9	ND	0.943	02/11/10	02/15/10	
Benzo(g,h,i)perylene	EPA 625	10B1393	0.094	4.7	ND	0.943	02/11/10	02/15/10	
Benzo(k)fluoranthene	EPA 625	10B1393	0.094	0.47	ND	0.943	02/11/10	02/15/10	
Benzoic acid	EPA 625	10B1393	2.8	19	ND	0.943	02/11/10	02/15/10	
Benzyl alcohol	EPA 625	10B1393	0.094	4.7	ND	0.943	02/11/10	02/15/10	
4-Bromophenyl phenyl ether	EPA 625	10B1393	0.094	0.94	ND	0.943	02/11/10	02/15/10	
Butyl benzyl phthalate	EPA 625	10B1393	0.66	4.7	ND	0.943	02/11/10	02/15/10	
4-Chloro-3-methylphenol	EPA 625	10B1393	0.19	1.9	ND	0.943	02/11/10	02/15/10	
4-Chloroaniline	EPA 625	10B1393	0.094	1.9	ND	0.943	02/11/10	02/15/10	L2
Bis(2-chloroethoxy)methane	EPA 625	10B1393	0.094	0.47	ND	0.943	02/11/10	02/15/10	
Bis(2-chloroethyl)ether	EPA 625	10B1393	0.094	0.47	ND	0.943	02/11/10	02/15/10	
Bis(2-chloroisopropyl)ether	EPA 625	10B1393	0.094	0.47	ND	0.943	02/11/10	02/15/10	
Bis(2-ethylhexyl)phthalate	EPA 625	10B1393	1.6	4.7	ND	0.943	02/11/10	02/15/10	
2-Chloronaphthalene	EPA 625	10B1393	0.094	0.47	ND	0.943	02/11/10	02/15/10	
2-Chlorophenol	EPA 625	10B1393	0.19	0.94	ND	0.943	02/11/10	02/15/10	
4-Chlorophenyl phenyl ether	EPA 625	10B1393	0.094	0.47	ND	0.943	02/11/10	02/15/10	
Chrysene	EPA 625	10B1393	0.094	0.47	ND	0.943	02/11/10	02/15/10	
Dibenz(a,h)anthracene	EPA 625	10B1393	0.094	0.47	ND	0.943	02/11/10	02/15/10	
Dibenzofuran	EPA 625	10B1393	0.094	0.47	ND	0.943	02/11/10	02/15/10	
Di-n-butyl phthalate	EPA 625	10B1393	0.19	1.9	ND	0.943	02/11/10	02/15/10	
1,2-Dichlorobenzene	EPA 625	10B1393	0.094	0.47	ND	0.943	02/11/10	02/15/10	
1,3-Dichlorobenzene	EPA 625	10B1393	0.094	0.47	ND	0.943	02/11/10	02/15/10	
1,4-Dichlorobenzene	EPA 625	10B1393	0.19	0.47	ND	0.943	02/11/10	02/15/10	
3,3'-Dichlorobenzidine	EPA 625	10B1393	4.7	4.7	ND	0.943	02/11/10	02/15/10	L2
2,4-Dichlorophenol	EPA 625	10B1393	0.19	1.9	ND	0.943	02/11/10	02/15/10	
Diethyl phthalate	EPA 625	10B1393	0.094	0.94	ND	0.943	02/11/10	02/15/10	
2,4-Dimethylphenol	EPA 625	10B1393	0.28	1.9	ND	0.943	02/11/10	02/15/10	
Dimethyl phthalate	EPA 625	10B1393	0.094	0.47	ND	0.943	02/11/10	02/15/10	
4,6-Dinitro-2-methylphenol	EPA 625	10B1393	0.19	4.7	ND	0.943	02/11/10	02/15/10	
2,4-Dinitrophenol	EPA 625	10B1393	0.85	4.7	ND	0.943	02/11/10	02/15/10	
2,4-Dinitrotoluene	EPA 625	10B1393	0.19	4.7	ND	0.943	02/11/10	02/15/10	
2,6-Dinitrotoluene	EPA 625	10B1393	0.094	4.7	ND	0.943	02/11/10	02/15/10	
Di-n-octyl phthalate	EPA 625	10B1393	0.094	4.7	ND	0.943	02/11/10	02/15/10	
1,2-Diphenylhydrazine/Azobenzene	EPA 625	10B1393	0.094	0.94	ND	0.943	02/11/10	02/15/10	

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Attention: Bronwyn Kelly

Project ID: Annual Outfall 018
Report Number: ITB0889

Sampled: 02/06/10-02/07/10
Received: 02/06/10

ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0895-01 (Outfall 018 - Water) - cont.					**Sampled: 02/07/10**				
Reporting Units: ug/l									
Fluoranthene	EPA 625	10B1393	0.094	0.47	ND	0.943	02/11/10	02/15/10	
Fluorene	EPA 625	10B1393	0.094	0.47	ND	0.943	02/11/10	02/15/10	
Hexachlorobenzene	EPA 625	10B1393	0.094	0.94	ND	0.943	02/11/10	02/15/10	
Hexachlorobutadiene	EPA 625	10B1393	0.19	1.9	ND	0.943	02/11/10	02/15/10	
Hexachlorocyclopentadiene	EPA 625	10B1393	0.094	4.7	ND	0.943	02/11/10	02/15/10	
Hexachloroethane	EPA 625	10B1393	0.19	2.8	ND	0.943	02/11/10	02/15/10	
Indeno(1,2,3-cd)pyrene	EPA 625	10B1393	0.094	1.9	ND	0.943	02/11/10	02/15/10	
Isophorone	EPA 625	10B1393	0.094	0.94	ND	0.943	02/11/10	02/15/10	
2-Methylnaphthalene	EPA 625	10B1393	0.094	0.94	ND	0.943	02/11/10	02/15/10	
2-Methylphenol	EPA 625	10B1393	0.094	1.9	ND	0.943	02/11/10	02/15/10	
4-Methylphenol	EPA 625	10B1393	0.19	4.7	ND	0.943	02/11/10	02/15/10	
Naphthalene	EPA 625	10B1393	0.094	0.94	ND	0.943	02/11/10	02/15/10	
2-Nitroaniline	EPA 625	10B1393	0.094	4.7	ND	0.943	02/11/10	02/15/10	
3-Nitroaniline	EPA 625	10B1393	0.19	4.7	ND	0.943	02/11/10	02/15/10	L2
4-Nitroaniline	EPA 625	10B1393	0.47	4.7	ND	0.943	02/11/10	02/15/10	L2
Nitrobenzene	EPA 625	10B1393	0.094	0.94	ND	0.943	02/11/10	02/15/10	
2-Nitrophenol	EPA 625	10B1393	0.094	1.9	ND	0.943	02/11/10	02/15/10	
4-Nitrophenol	EPA 625	10B1393	2.4	4.7	ND	0.943	02/11/10	02/15/10	
N-Nitroso-di-n-propylamine	EPA 625	10B1393	0.094	1.9	ND	0.943	02/11/10	02/15/10	
N-Nitrosodimethylamine	EPA 625	10B1393	0.094	1.9	ND	0.943	02/11/10	02/15/10	
N-Nitrosodiphenylamine	EPA 625	10B1393	0.094	0.94	ND	0.943	02/11/10	02/15/10	
Pentachlorophenol	EPA 625	10B1393	0.094	1.9	ND	0.943	02/11/10	02/15/10	
Phenanthrene	EPA 625	10B1393	0.094	0.47	ND	0.943	02/11/10	02/15/10	
Phenol	EPA 625	10B1393	0.28	0.94	ND	0.943	02/11/10	02/15/10	
Pyrene	EPA 625	10B1393	0.094	0.47	ND	0.943	02/11/10	02/15/10	
1,2,4-Trichlorobenzene	EPA 625	10B1393	0.094	0.94	ND	0.943	02/11/10	02/15/10	
2,4,5-Trichlorophenol	EPA 625	10B1393	0.19	1.9	ND	0.943	02/11/10	02/15/10	
2,4,6-Trichlorophenol	EPA 625	10B1393	0.094	0.94	ND	0.943	02/11/10	02/15/10	
Surrogate: 2,4,6-Tribromophenol (40-120%)					*100 %*				
Surrogate: 2-Fluorobiphenyl (50-120%)					*84 %*				
Surrogate: 2-Fluorophenol (30-120%)					*69 %*				
Surrogate: Nitrobenzene-d5 (45-120%)					*83 %*				
Surrogate: Phenol-d6 (35-120%)					*75 %*				
Surrogate: Terphenyl-d14 (50-125%)					*95 %*				

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Attention: Bronwyn Kelly

Project ID: Annual Outfall 018
Report Number: ITB0889

Sampled: 02/06/10-02/07/10
Received: 02/06/10

ORGANOCHLORINE PESTICIDES (EPA 608)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0895-01 (Outfall 018 - Water)					**Sampled: 02/07/10**				
Reporting Units: ug/l									
4,4'-DDD	EPA 608	10B1291	0.0019	0.0047	ND	0.943	02/11/10	02/13/10	
4,4'-DDE	EPA 608	10B1291	0.0028	0.0047	ND	0.943	02/11/10	02/13/10	
4,4'-DDT	EPA 608	10B1291	0.0038	0.0094	ND	0.943	02/11/10	02/13/10	
Aldrin	EPA 608	10B1291	0.0014	0.0047	ND	0.943	02/11/10	02/13/10	
alpha-BHC	EPA 608	10B1291	0.0024	0.0047	ND	0.943	02/11/10	02/13/10	
beta-BHC	EPA 608	10B1291	0.0038	0.0094	ND	0.943	02/11/10	02/13/10	
delta-BHC	EPA 608	10B1291	0.0033	0.0047	ND	0.943	02/11/10	02/13/10	
Dieldrin	EPA 608	10B1291	0.0019	0.0047	ND	0.943	02/11/10	02/13/10	
Endosulfan I	EPA 608	10B1291	0.0019	0.0047	ND	0.943	02/11/10	02/13/10	
Endosulfan II	EPA 608	10B1291	0.0028	0.0047	ND	0.943	02/11/10	02/13/10	
Endosulfan sulfate	EPA 608	10B1291	0.0028	0.0094	ND	0.943	02/11/10	02/13/10	
Endrin	EPA 608	10B1291	0.0019	0.0047	ND	0.943	02/11/10	02/13/10	C
Endrin aldehyde	EPA 608	10B1291	0.0019	0.0094	ND	0.943	02/11/10	02/13/10	
Endrin ketone	EPA 608	10B1291	0.0028	0.0094	ND	0.943	02/11/10	02/13/10	
gamma-BHC (Lindane)	EPA 608	10B1291	0.0028	0.019	ND	0.943	02/11/10	02/13/10	
Heptachlor	EPA 608	10B1291	0.0028	0.0094	ND	0.943	02/11/10	02/13/10	C
Heptachlor epoxide	EPA 608	10B1291	0.0024	0.0047	ND	0.943	02/11/10	02/13/10	
Methoxychlor	EPA 608	10B1291	0.0033	0.0047	ND	0.943	02/11/10	02/13/10	
Chlordane	EPA 608	10B1291	0.038	0.094	ND	0.943	02/11/10	02/13/10	
Toxaphene	EPA 608	10B1291	0.24	0.47	ND	0.943	02/11/10	02/13/10	
Surrogate: Decachlorobiphenyl (45-120%)					*76 %*				
Surrogate: Decachlorobiphenyl (45-120%)					*76 %*				
Surrogate: Tetrachloro-m-xylene (35-115%)					*50 %*				
Surrogate: Tetrachloro-m-xylene (35-115%)					*50 %*				

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TOTAL PCBS (EPA 608)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0895-01 (Outfall 018 - Water) - cont.					**Sampled: 02/07/10**				
Reporting Units: ug/l									
Aroclor 1016	EPA 608	10B1291	0.24	0.47	ND	0.943	02/11/10	02/12/10	
Aroclor 1221	EPA 608	10B1291	0.24	0.47	ND	0.943	02/11/10	02/12/10	
Aroclor 1232	EPA 608	10B1291	0.24	0.47	ND	0.943	02/11/10	02/12/10	
Aroclor 1242	EPA 608	10B1291	0.24	0.47	ND	0.943	02/11/10	02/12/10	
Aroclor 1248	EPA 608	10B1291	0.24	0.47	ND	0.943	02/11/10	02/12/10	
Aroclor 1254	EPA 608	10B1291	0.24	0.47	ND	0.943	02/11/10	02/12/10	
Aroclor 1260	EPA 608	10B1291	0.24	0.47	ND	0.943	02/11/10	02/12/10	
Surrogate: Decachlorobiphenyl (45-120%)					*85 %*				

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HEXANE EXTRACTABLE MATERIAL

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0889-01 (Outfall 018 (Grab) - Water)					**Sampled: 02/06/10**				
Reporting Units: mg/l									
Hexane Extractable Material (Oil & Grease)	EPA 1664A	10B1991	1.3	4.8	ND	1	02/17/10	02/17/10	

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Received: 02/06/10

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0895-01 (Outfall 018 - Water)					**Sampled: 02/07/10**				
Reporting Units: mg/l									
Hardness as CaCO3	SM2340B	[CALC]	N/A	0.33	**89**	1	02/15/10	02/16/10	
Barium	EPA 200.7	10B1807	0.0060	0.010	**0.025**	1	02/15/10	02/16/10	
Boron	EPA 200.7	10B1807	0.020	0.050	**0.086**	1	02/15/10	02/16/10	
Calcium	EPA 200.7	10B1807	N/A	0.10	**27**	1	02/15/10	02/16/10	
Iron	EPA 200.7	10B1807	0.015	0.040	ND	1	02/15/10	02/16/10	
Magnesium	EPA 200.7	10B1807	N/A	0.020	**5.5**	1	02/15/10	02/16/10	
Sample ID: ITB0895-01 (Outfall 018 - Water)					**Sampled: 02/07/10**				
Reporting Units: ug/l									
Mercury	EPA 245.1	10B1943	N/A	0.20	ND	1	02/16/10	02/16/10	
Arsenic	EPA 200.7	10B1807	7.0	10	ND	1	02/15/10	02/16/10	
Antimony	EPA 200.8	10B1598	0.30	2.0	ND	1	02/12/10	02/15/10	
Beryllium	EPA 200.7	10B1807	0.90	2.0	ND	1	02/15/10	02/16/10	
Chromium	EPA 200.7	10B1807	2.0	5.0	ND	1	02/15/10	02/16/10	
Cobalt	EPA 200.7	10B1807	2.0	10	ND	1	02/15/10	02/16/10	
Manganese	EPA 200.7	10B1807	7.0	20	**210**	1	02/15/10	02/16/10	
Nickel	EPA 200.7	10B1807	2.0	10	ND	1	02/15/10	02/16/10	
Cadmium	EPA 200.8	10B1598	0.10	1.0	ND	1	02/12/10	02/15/10	
Vanadium	EPA 200.7	10B1807	3.0	10	ND	1	02/15/10	02/16/10	
Zinc	EPA 200.7	10B1807	6.0	20	**12**	1	02/15/10	02/16/10	Ja
Copper	EPA 200.8	10B1598	0.50	2.0	**0.79**	1	02/12/10	02/15/10	Ja
Lead	EPA 200.8	10B1598	0.20	1.0	ND	1	02/12/10	02/15/10	
Selenium	EPA 200.8	10B1598	0.50	2.0	ND	1	02/12/10	02/15/10	
Silver	EPA 200.8	10B1598	0.10	1.0	ND	1	02/12/10	02/15/10	
Thallium	EPA 200.8	10B1598	0.20	1.0	ND	1	02/12/10	02/15/10	C

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DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0895-01 (Outfall 018 - Water)					**Sampled: 02/07/10**				
Reporting Units: mg/l									
Hardness as CaCO3	SM2340B-Diss	[CALC]	N/A	0.33	**82**	1	02/15/10	02/16/10	
Barium	EPA 200.7-Diss	10B1846	0.0060	0.010	**0.024**	1	02/15/10	02/16/10	
Boron	EPA 200.7-Diss	10B1846	0.020	0.050	**0.11**	1	02/15/10	02/16/10	B
Calcium	EPA 200.7-Diss	10B1846	0.050	0.10	**25**	1	02/15/10	02/16/10	MHA
Iron	EPA 200.7-Diss	10B1846	0.015	0.040	ND	1	02/15/10	02/16/10	
Magnesium	EPA 200.7-Diss	10B1846	0.012	0.020	**5.0**	1	02/15/10	02/16/10	
Sample ID: ITB0895-01 (Outfall 018 - Water)					**Sampled: 02/07/10**				
Reporting Units: ug/l									
Mercury	EPA 245.1-Diss	10B1953	0.10	0.20	ND	1	02/16/10	02/16/10	
Arsenic	EPA 200.7-Diss	10B1846	7.0	10	ND	1	02/15/10	02/16/10	
Antimony	EPA 200.8-Diss	10B1845	0.30	2.0	**0.41**	1	02/15/10	02/17/10	Ja
Beryllium	EPA 200.7-Diss	10B1846	0.90	2.0	ND	1	02/15/10	02/16/10	
Cobalt	EPA 200.7-Diss	10B1846	2.0	10	ND	1	02/15/10	02/16/10	
Manganese	EPA 200.7-Diss	10B1846	7.0	20	**190**	1	02/15/10	02/16/10	
Nickel	EPA 200.7-Diss	10B1846	2.0	10	ND	1	02/15/10	02/16/10	
Cadmium	EPA 200.8-Diss	10B1845	0.10	1.0	ND	1	02/15/10	02/17/10	
Vanadium	EPA 200.7-Diss	10B1846	3.0	10	ND	1	02/15/10	02/16/10	
Zinc	EPA 200.7-Diss	10B1846	6.0	20	**13**	1	02/15/10	02/16/10	Ja
Copper	EPA 200.8-Diss	10B2106	0.50	2.0	ND	1	02/17/10	02/17/10	
Lead	EPA 200.8-Diss	10B1845	0.20	1.0	ND	1	02/15/10	02/17/10	
Selenium	EPA 200.8-Diss	10B1845	0.50	2.0	ND	1	02/15/10	02/17/10	
Silver	EPA 200.8-Diss	10B1845	0.10	1.0	ND	1	02/15/10	02/17/10	C
Thallium	EPA 200.8-Diss	10B1845	0.20	1.0	ND	1	02/15/10	02/17/10	

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DISSOLVED INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0889-01 (Outfall 018 (Grab) - Water)					**Sampled: 02/06/10**				
Reporting Units: ug/l									
Chromium VI	EPA 218.6	10B0756	0.25	1.0	ND	1	02/06/10	02/06/10	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0895-01 (Outfall 018 - Water)					**Sampled: 02/07/10**				
Reporting Units: mg/l									
Ammonia-N (Distilled)	SM4500NH3-C	10B1575	0.50	0.50	ND	1	02/12/10	02/12/10	
Biochemical Oxygen Demand	SM5210B	10B0912	0.50	2.0	**0.57**	1	02/08/10	02/13/10	Ja
Chloride	EPA 300.0	10B0856	0.25	0.50	**7.7**	1	02/08/10	02/08/10	
Fluoride	SM 4500-F-C	10B0814	0.020	0.10	**0.15**	1	02/08/10	02/08/10	B
Nitrate-N	EPA 300.0	10B0856	0.060	0.11	**0.22**	1	02/08/10	02/08/10	
Nitrite-N	EPA 300.0	10B0856	0.090	0.15	ND	1	02/08/10	02/08/10	
Nitrate/Nitrite-N	EPA 300.0	10B0856	0.15	0.26	**0.22**	1	02/08/10	02/08/10	Ja
Sulfate	EPA 300.0	10B0856	2.0	5.0	**110**	10	02/08/10	02/08/10	
Surfactants (MBAS)	SM5540-C	10B0951	0.025	0.10	**0.12**	1	02/08/10	02/08/10	
Total Dissolved Solids	SM2540C	10B1487	1.0	10	**200**	1	02/12/10	02/12/10	
Total Organic Carbon	SM5310B	10B1284	0.50	1.0	**5.0**	1	02/11/10	02/11/10	
Total Suspended Solids	SM 2540D	10B1648	1.0	10	ND	1	02/12/10	02/12/10	
Sample ID: ITB0889-01 (Outfall 018 (Grab) - Water)					**Sampled: 02/06/10**				
Reporting Units: ml/l									
Total Settleable Solids	SM2540F	10B0770	0.10	0.10	ND	1	02/07/10	02/07/10	
Sample ID: ITB0895-01 (Outfall 018 - Water)					**Sampled: 02/07/10**				
Reporting Units: NTU									
Turbidity	EPA 180.1	10B1015	0.040	1.0	**0.10**	1	02/08/10	02/08/10	Ja
Sample ID: ITB0889-01 (Outfall 018 (Grab) - Water)					**Sampled: 02/06/10**				
Reporting Units: ug/l									
Total Cyanide	SM4500CN-E	10B1250	2.2	5.0	ND	1	02/10/10	02/10/10	
Sample ID: ITB0895-01 (Outfall 018 - Water)					**Sampled: 02/07/10**				
Reporting Units: ug/l									
Perchlorate	EPA 314.0	10B1658	0.90	4.0	ND	1	02/13/10	02/13/10	
Sample ID: ITB0889-01 (Outfall 018 (Grab) - Water)					**Sampled: 02/06/10**				
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	10B1155	1.0	1.0	**350**	1	02/10/10	02/10/10	

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ASTM 5174-91

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0895-01 (Outfall 018 - Water)					**Sampled: 02/07/10**				
Reporting Units: pCi/L									
Total Uranium	ASTM 5174-91	53280	0.21	0.693	**0.125**	1	02/23/10	02/26/10	U

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EPA 900.0 MOD

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0895-01 (Outfall 018 - Water)					**Sampled: 02/07/10**				
Reporting Units: pCi/L									
Gross Alpha	EPA 900.0 MOD	43108	1.3	3	-0.22	1	02/10/10	02/19/10	U
Gross Beta	EPA 900.0 MOD	43108	1.4	4	**1.52**	1	02/10/10	02/19/10	Jb

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EPA 901.1 MOD

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0895-01 (Outfall 018 - Water)					**Sampled: 02/07/10**				
Reporting Units: pCi/L									
Cesium 137	EPA 901.1 MOD	42136	12	20	**1.3**	1	02/11/10	02/19/10	U
Potassium 40	EPA 901.1 MOD	42136	200	NA	-60	1	02/11/10	02/19/10	U

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EPA 903.0 MOD

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0895-01 (Outfall 018 - Water)					**Sampled: 02/07/10**				
Reporting Units: pCi/L									
Radium (226)	EPA 903.0 MOD	41160	0.2	1	ND	1	02/10/10	02/26/10	U

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EPA 904 MOD

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0895-01RE1 (Outfall 018 - Water)					**Sampled: 02/07/10**				
Reporting Units: pCi/L									
Radium 228	EPA 904 MOD	60257	0.27	1	**0.009**	1	03/01/10	03/05/10	U

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EPA 905 MOD

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0895-01 (Outfall 018 - Water)					**Sampled: 02/07/10**				
Reporting Units: pCi/L									
Strontium 90	EPA 905 MOD	41162	0.45	3	**0.004**	1	02/10/10	02/19/10	U

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618 Michillinda Avenue, Suite 200
Arcadia, CA 91007
Attention: Bronwyn Kelly

Project ID: Annual Outfall 018
Report Number: ITB0889

Sampled: 02/06/10-02/07/10
Received: 02/06/10

EPA 906.0 MOD

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0895-01 (Outfall 018 - Water)					**Sampled: 02/07/10**				
Reporting Units: pCi/L									
Tritium	EPA 906.0 MOD	49035	91	500	**30**	1	02/18/10	02/18/10	U

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Project ID: Annual Outfall 018
Report Number: ITB0889

Sampled: 02/06/10-02/07/10
Received: 02/06/10

EPA-5 1613B

Analyte	Method	Batch	MDL	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0895-01RE1 (Outfall 018 - Water)					**Sampled: 02/07/10**				
Reporting Units: ug/L									
1,2,3,4,6,7,8-HpCDD	EPA-5 1613B	60222	0.00000099	0.000047	**4.7e-006**	0.94	03/01/10	03/02/10	J, Ba
1,2,3,4,6,7,8-HpCDF	EPA-5 1613B	60222	0.00000076	0.000047	**1.8e-006**	0.94	03/01/10	03/02/10	J, Q, Ba
1,2,3,4,7,8,9-HpCDF	EPA-5 1613B	60222	0.0000013	0.000047	ND	0.94	03/01/10	03/02/10	
1,2,3,4,7,8-HxCDD	EPA-5 1613B	60222	0.00000028	0.000047	**8e-007**	0.94	03/01/10	03/02/10	J, Q, Ba
1,2,3,4,7,8-HxCDF	EPA-5 1613B	60222	0.00000042	0.000047	**1e-006**	0.94	03/01/10	03/02/10	J, Q, Ba
1,2,3,6,7,8-HxCDD	EPA-5 1613B	60222	0.00000023	0.000047	**1.2e-006**	0.94	03/01/10	03/02/10	J, Q, Ba
1,2,3,6,7,8-HxCDF	EPA-5 1613B	60222	0.00000039	0.000047	**1.1e-006**	0.94	03/01/10	03/02/10	J, Ba
1,2,3,7,8,9-HxCDD	EPA-5 1613B	60222	0.00000023	0.000047	**7.1e-007**	0.94	03/01/10	03/02/10	J, Q, Ba
1,2,3,7,8,9-HxCDF	EPA-5 1613B	60222	0.0000005	0.000047	**6.8e-007**	0.94	03/01/10	03/02/10	J, Q, Ba
1,2,3,7,8-PeCDD	EPA-5 1613B	60222	0.0000004	0.000047	ND	0.94	03/01/10	03/02/10	
1,2,3,7,8-PeCDF	EPA-5 1613B	60222	0.00000005	0.000047	**1e-006**	0.94	03/01/10	03/02/10	J, Q, Ba
2,3,4,6,7,8-HxCDF	EPA-5 1613B	60222	0.00000041	0.000047	**7.8e-007**	0.94	03/01/10	03/02/10	J, Q, Ba
2,3,4,7,8-PeCDF	EPA-5 1613B	60222	0.00000006	0.000047	**1.1e-006**	0.94	03/01/10	03/02/10	J, Ba
2,3,7,8-TCDD	EPA-5 1613B	60222	0.00000003	0.0000094	ND	0.94	03/01/10	03/02/10	
2,3,7,8-TCDF	EPA-5 1613B	60222	0.00000002	0.0000094	ND	0.94	03/01/10	03/02/10	
OCDD	EPA-5 1613B	60222	0.00000093	0.000094	**1.3e-005**	0.94	03/01/10	03/02/10	J, Q, Ba
OCDF	EPA-5 1613B	60222	0.00000087	0.000094	**5e-006**	0.94	03/01/10	03/02/10	J, Ba
Total HpCDD	EPA-5 1613B	60222	0.00000099	0.000047	**1.2e-005**	0.94	03/01/10	03/02/10	Ba, J
Total HpCDF	EPA-5 1613B	60222	0.00000076	0.000047	**3.5e-006**	0.94	03/01/10	03/02/10	J, Q, Ba
Total HxCDD	EPA-5 1613B	60222	0.00000023	0.000047	**2.7e-006**	0.94	03/01/10	03/02/10	J, Q, Ba
Total HxCDF	EPA-5 1613B	60222	0.00000039	0.000047	**3.6e-006**	0.94	03/01/10	03/02/10	J, Q, Ba
Total PeCDD	EPA-5 1613B	60222	0.0000004	0.000047	**1e-006**	0.94	03/01/10	03/02/10	J, Q, Ba
Total PeCDF	EPA-5 1613B	60222	0.00000004	0.000047	**2.1e-006**	0.94	03/01/10	03/02/10	J, Q, Ba
Total TCDD	EPA-5 1613B	60222	0.00000003	0.0000094	ND	0.94	03/01/10	03/02/10	
Total TCDF	EPA-5 1613B	60222	0.00000002	0.0000094	ND	0.94	03/01/10	03/02/10	
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD (23-140%)					*95 %*				
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF (28-143%)					*90 %*				
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF (26-138%)					*87 %*				
Surrogate: 13C-1,2,3,4,7,8-HxCDD (32-141%)					*81 %*				
Surrogate: 13C-1,2,3,4,7,8-HxCDF (26-152%)					*82 %*				
Surrogate: 13C-1,2,3,6,7,8-HxCDD (28-130%)					*89 %*				
Surrogate: 13C-1,2,3,6,7,8-HxCDF (26-123%)					*83 %*				
Surrogate: 13C-1,2,3,7,8,9-HxCDF (29-147%)					*87 %*				
Surrogate: 13C-1,2,3,7,8-PeCDD (25-181%)					*81 %*				
Surrogate: 13C-1,2,3,7,8-PeCDF (24-185%)					*82 %*				
Surrogate: 13C-2,3,4,6,7,8-HxCDF (28-136%)					*85 %*				
Surrogate: 13C-2,3,4,7,8-PeCDF (21-178%)					*78 %*				
Surrogate: 13C-2,3,7,8-TCDD (25-164%)					*84 %*				
Surrogate: 13C-2,3,7,8-TCDF (24-169%)					*83 %*				
Surrogate: 13C-OCDD (17-157%)					*97 %*				
Surrogate: 37Cl4-2,3,7,8-TCDD (35-197%)					*91 %*				

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Project ID: Annual Outfall 018
Report Number: ITB0889

Sampled: 02/06/10-02/07/10
Received: 02/06/10

SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: Outfall 018 (Grab) (ITB0889-01) - Water					
EPA 218.6	1	02/06/2010 13:00	02/06/2010 17:00	02/06/2010 18:15	02/06/2010 19:18
EPA 624	3	02/06/2010 13:00	02/06/2010 17:00	02/08/2010 00:00	02/08/2010 23:49
SM2540F	2	02/06/2010 13:00	02/06/2010 17:00	02/07/2010 08:03	02/07/2010 09:00
Sample ID: Trip Blank (ITB0889-02) - Water					
EPA 624	3	02/06/2010 07:00	02/06/2010 17:00	02/08/2010 00:00	02/09/2010 00:19
Sample ID: Outfall 018 (ITB0895-01) - Water					
EPA 180.1	2	02/07/2010 10:45	02/07/2010 15:40	02/08/2010 20:00	02/08/2010 20:00
EPA 300.0	2	02/07/2010 10:45	02/07/2010 15:40	02/08/2010 14:00	02/08/2010 14:25
Filtration	1	02/07/2010 10:45	02/07/2010 15:40	02/07/2010 19:33	02/07/2010 19:35
SM5210B	2	02/07/2010 10:45	02/07/2010 15:40	02/08/2010 13:30	02/13/2010 11:00
SM5540-C	2	02/07/2010 10:45	02/07/2010 15:40	02/08/2010 20:13	02/08/2010 20:59

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Received: 02/06/10

METHOD BLANK/QC DATA

VOLATILE FUEL HYDROCARBONS (EPA 5030/CADHS Mod. 8015)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1582 Extracted: 02/12/10											
Blank Analyzed: 02/12/2010 (10B1582-BLK1)											
GRO (C4 - C12)	ND	100	N/A	ug/l							
Surrogate: 4-BFB (FID)	*9.01*			*ug/l*	*10.0*		*90*	*65-140*			
LCS Analyzed: 02/12/2010 (10B1582-BS1)											
GRO (C4 - C12)	824	100	N/A	ug/l	800		103	80-120			
Surrogate: 4-BFB (FID)	*14.1*			*ug/l*	*10.0*		*141*	*65-140*			*Z2*
Matrix Spike Analyzed: 02/12/2010 (10B1582-MS1)						**Source: ITB1073-01**					
GRO (C4 - C12)	296	100	N/A	ug/l	220	ND	134	65-140			
Surrogate: 4-BFB (FID)	*8.45*			*ug/l*	*10.0*		*84*	*65-140*			
Matrix Spike Dup Analyzed: 02/12/2010 (10B1582-MSD1)						**Source: ITB1073-01**					
GRO (C4 - C12)	267	100	N/A	ug/l	220	ND	122	65-140	10	20	
Surrogate: 4-BFB (FID)	*8.42*			*ug/l*	*10.0*		*84*	*65-140*			

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METHOD BLANK/QC DATA

EXTRACTABLE FUEL HYDROCARBONS (EPA 3510C/EPA 8015B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1526 Extracted: 02/12/10											
Blank Analyzed: 02/12/2010 (10B1526-BLK1)											
DRO (C13 - C28)	ND	100	50	ug/l							
EFH (C10 - C28)	ND	100	50	ug/l							
Surrogate: n-Octacosane	*145*			*ug/l*	*200*		*72*	*45-120*			
LCS Analyzed: 02/12/2010 (10B1526-BS1)											**MNR1**
EFH (C10 - C28)	547	100	50	ug/l	1000		55	40-115			
Surrogate: n-Octacosane	*116*			*ug/l*	*200*		*58*	*45-120*			
LCS Dup Analyzed: 02/12/2010 (10B1526-BSD1)											
EFH (C10 - C28)	584	100	50	ug/l	1000		58	40-115	7	25	
Surrogate: n-Octacosane	*125*			*ug/l*	*200*		*63*	*45-120*			

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METHOD BLANK/QC DATA

PURGEABLES BY GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B0840 Extracted: 02/08/10											
Blank Analyzed: 02/08/2010 (10B0840-BLK1)											
Benzene	ND	0.50	0.28	ug/l							
Bromodichloromethane	ND	0.50	0.30	ug/l							
Bromoform	ND	0.50	0.40	ug/l							
Bromomethane	ND	1.0	0.42	ug/l							
Carbon tetrachloride	ND	0.50	0.28	ug/l							
Chlorobenzene	ND	0.50	0.36	ug/l							
Chloroethane	ND	1.0	0.40	ug/l							
Chloroform	ND	0.50	0.33	ug/l							
Chloromethane	ND	0.50	0.40	ug/l							
Dibromochloromethane	ND	0.50	0.40	ug/l							
1,2-Dichlorobenzene	ND	0.50	0.32	ug/l							
1,3-Dichlorobenzene	ND	0.50	0.35	ug/l							
1,4-Dichlorobenzene	ND	0.50	0.37	ug/l							
1,1-Dichloroethane	ND	0.50	0.40	ug/l							
1,2-Dichloroethane	ND	0.50	0.28	ug/l							
1,1-Dichloroethene	ND	0.50	0.42	ug/l							
cis-1,2-Dichloroethene	ND	0.50	0.32	ug/l							
trans-1,2-Dichloroethene	ND	0.50	0.30	ug/l							
1,2-Dichloropropane	ND	0.50	0.35	ug/l							
cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l							
trans-1,3-Dichloropropene	ND	0.50	0.32	ug/l							
1,2-Dichloro-1,1,2-trifluoroethane	ND	2.0	1.1	ug/l							
Ethylbenzene	ND	0.50	0.25	ug/l							
Methylene chloride	ND	1.0	0.95	ug/l							
1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l							
Tetrachloroethene	ND	0.50	0.32	ug/l							
Toluene	ND	0.50	0.36	ug/l							
1,1,1-Trichloroethane	ND	0.50	0.30	ug/l							
1,1,2-Trichloroethane	ND	0.50	0.30	ug/l							
Trichloroethene	ND	0.50	0.26	ug/l							
Trichlorofluoromethane	ND	0.50	0.34	ug/l							
Trichlorotrifluoroethane (Freon 113)	ND	5.0	0.50	ug/l							
Vinyl chloride	ND	0.50	0.40	ug/l							
Xylenes, Total	ND	1.5	0.90	ug/l							
Cyclohexane	ND	1.0	0.40	ug/l							

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METHOD BLANK/QC DATA

PURGEABLES BY GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B0840 Extracted: 02/08/10											
Blank Analyzed: 02/08/2010 (10B0840-BLK1)											
Surrogate: 4-Bromofluorobenzene	*23.4*			*ug/l*	*25.0*		*94*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.4*			*ug/l*	*25.0*		*94*	*80-120*			
Surrogate: Dibromofluoromethane	*25.6*			*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: Dibromofluoromethane	*25.6*			*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: Toluene-d8	*27.0*			*ug/l*	*25.0*		*108*	*80-120*			
Surrogate: Toluene-d8	*27.0*			*ug/l*	*25.0*		*108*	*80-120*			
LCS Analyzed: 02/08/2010 (10B0840-BS1)											
Benzene	23.2	0.50	0.28	ug/l	25.0		93	70-120			
Bromodichloromethane	24.0	0.50	0.30	ug/l	25.0		96	70-135			
Bromoform	20.1	0.50	0.40	ug/l	25.0		81	55-130			
Bromomethane	28.6	1.0	0.42	ug/l	25.0		115	65-140			
Carbon tetrachloride	24.9	0.50	0.28	ug/l	25.0		99	65-140			
Chlorobenzene	24.7	0.50	0.36	ug/l	25.0		99	75-120			
Chloroethane	26.6	1.0	0.40	ug/l	25.0		107	60-140			
Chloroform	24.0	0.50	0.33	ug/l	25.0		96	70-130			
Chloromethane	28.4	0.50	0.40	ug/l	25.0		114	50-140			
Dibromochloromethane	22.3	0.50	0.40	ug/l	25.0		89	70-140			
1,2-Dichlorobenzene	24.5	0.50	0.32	ug/l	25.0		98	75-120			
1,3-Dichlorobenzene	25.1	0.50	0.35	ug/l	25.0		100	75-120			
1,4-Dichlorobenzene	24.6	0.50	0.37	ug/l	25.0		99	75-120			
1,1-Dichloroethane	23.8	0.50	0.40	ug/l	25.0		95	70-125			
1,2-Dichloroethane	23.1	0.50	0.28	ug/l	25.0		92	60-140			
1,1-Dichloroethene	26.6	0.50	0.42	ug/l	25.0		106	70-125			
cis-1,2-Dichloroethene	26.5	0.50	0.32	ug/l	25.0		106	70-125			
trans-1,2-Dichloroethene	25.9	0.50	0.30	ug/l	25.0		104	70-125			
1,2-Dichloropropane	21.7	0.50	0.35	ug/l	25.0		87	70-125			
cis-1,3-Dichloropropene	25.8	0.50	0.22	ug/l	25.0		103	75-125			
trans-1,3-Dichloropropene	19.9	0.50	0.32	ug/l	25.0		80	70-125			
Ethylbenzene	25.0	0.50	0.25	ug/l	25.0		100	75-125			
Methylene chloride	24.0	1.0	0.95	ug/l	25.0		96	55-130			
1,1,2,2-Tetrachloroethane	25.5	0.50	0.30	ug/l	25.0		102	55-130			
Tetrachloroethene	25.2	0.50	0.32	ug/l	25.0		101	70-125			
Toluene	24.1	0.50	0.36	ug/l	25.0		96	70-120			
1,1,1-Trichloroethane	24.2	0.50	0.30	ug/l	25.0		97	65-135			
1,1,2-Trichloroethane	24.2	0.50	0.30	ug/l	25.0		97	70-125			

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METHOD BLANK/QC DATA

PURGEABLES BY GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B0840 Extracted: 02/08/10											
LCS Analyzed: 02/08/2010 (10B0840-BS1)											
Trichloroethene	25.6	0.50	0.26	ug/l	25.0		102	70-125			
Trichlorofluoromethane	28.1	0.50	0.34	ug/l	25.0		112	65-145			
Vinyl chloride	33.6	0.50	0.40	ug/l	25.0		134	55-135			
Xylenes, Total	77.5	1.5	0.90	ug/l	75.0		103	70-125			
Surrogate: 4-Bromofluorobenzene	*25.5*			*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.5*			*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: Dibromofluoromethane	*26.0*			*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: Dibromofluoromethane	*26.0*			*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: Toluene-d8	*26.4*			*ug/l*	*25.0*		*105*	*80-120*			
Surrogate: Toluene-d8	*26.4*			*ug/l*	*25.0*		*105*	*80-120*			
Matrix Spike Analyzed: 02/08/2010 (10B0840-MS1)						**Source: ITB0892-01**					
Benzene	24.9	0.50	0.28	ug/l	25.0	ND	100	65-125			
Bromodichloromethane	27.4	0.50	0.30	ug/l	25.0	ND	109	70-135			
Bromoform	22.2	0.50	0.40	ug/l	25.0	ND	89	55-135			
Bromomethane	30.0	1.0	0.42	ug/l	25.0	ND	120	55-145			
Carbon tetrachloride	25.9	0.50	0.28	ug/l	25.0	ND	103	65-140			
Chlorobenzene	26.9	0.50	0.36	ug/l	25.0	ND	108	75-125			
Chloroethane	28.3	1.0	0.40	ug/l	25.0	ND	113	55-140			
Chloroform	27.1	0.50	0.33	ug/l	25.0	ND	108	65-135			
Chloromethane	29.6	0.50	0.40	ug/l	25.0	ND	118	45-145			
Dibromochloromethane	25.1	0.50	0.40	ug/l	25.0	ND	100	65-140			
1,2-Dichlorobenzene	26.3	0.50	0.32	ug/l	25.0	ND	105	75-125			
1,3-Dichlorobenzene	27.5	0.50	0.35	ug/l	25.0	ND	110	75-125			
1,4-Dichlorobenzene	27.0	0.50	0.37	ug/l	25.0	ND	108	75-125			
1,1-Dichloroethane	26.2	0.50	0.40	ug/l	25.0	ND	105	65-130			
1,2-Dichloroethane	25.0	0.50	0.28	ug/l	25.0	ND	100	60-140			
1,1-Dichloroethene	27.3	0.50	0.42	ug/l	25.0	ND	109	60-130			
cis-1,2-Dichloroethene	29.2	0.50	0.32	ug/l	25.0	ND	117	65-130			
trans-1,2-Dichloroethene	27.6	0.50	0.30	ug/l	25.0	ND	111	65-130			
1,2-Dichloropropane	24.3	0.50	0.35	ug/l	25.0	ND	97	65-130			
cis-1,3-Dichloropropene	29.5	0.50	0.22	ug/l	25.0	ND	118	70-130			
trans-1,3-Dichloropropene	22.6	0.50	0.32	ug/l	25.0	ND	90	65-135			
Ethylbenzene	26.3	0.50	0.25	ug/l	25.0	ND	105	65-130			
Methylene chloride	26.0	1.0	0.95	ug/l	25.0	ND	104	50-135			
1,1,2,2-Tetrachloroethane	26.1	0.50	0.30	ug/l	25.0	ND	104	55-135			

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Project ID: Annual Outfall 018
Report Number: ITB0889

Sampled: 02/06/10-02/07/10
Received: 02/06/10

METHOD BLANK/QC DATA

PURGEABLES BY GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B0840 Extracted: 02/08/10											
Matrix Spike Analyzed: 02/08/2010 (10B0840-MS1)						**Source: ITB0892-01**					
Tetrachloroethene	26.4	0.50	0.32	ug/l	25.0	ND	106	65-130			
Toluene	25.9	0.50	0.36	ug/l	25.0	ND	104	70-125			
1,1,1-Trichloroethane	25.8	0.50	0.30	ug/l	25.0	ND	103	65-140			
1,1,2-Trichloroethane	26.8	0.50	0.30	ug/l	25.0	ND	107	65-130			
Trichloroethene	26.8	0.50	0.26	ug/l	25.0	ND	107	65-125			
Trichlorofluoromethane	29.0	0.50	0.34	ug/l	25.0	ND	116	60-145			
Vinyl chloride	34.1	0.50	0.40	ug/l	25.0	ND	137	45-140			
Xylenes, Total	83.0	1.5	0.90	ug/l	75.0	ND	111	60-130			
Surrogate: 4-Bromofluorobenzene	*26.5*			*ug/l*	*25.0*		*106*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*26.5*			*ug/l*	*25.0*		*106*	*80-120*			
Surrogate: Dibromofluoromethane	*26.8*			*ug/l*	*25.0*		*107*	*80-120*			
Surrogate: Dibromofluoromethane	*26.8*			*ug/l*	*25.0*		*107*	*80-120*			
Surrogate: Toluene-d8	*26.7*			*ug/l*	*25.0*		*107*	*80-120*			
Surrogate: Toluene-d8	*26.7*			*ug/l*	*25.0*		*107*	*80-120*			
Matrix Spike Dup Analyzed: 02/08/2010 (10B0840-MSD1)						**Source: ITB0892-01**					
Benzene	23.8	0.50	0.28	ug/l	25.0	ND	95	65-125	4	20	
Bromodichloromethane	25.6	0.50	0.30	ug/l	25.0	ND	102	70-135	7	20	
Bromoform	21.2	0.50	0.40	ug/l	25.0	ND	85	55-135	5	25	
Bromomethane	29.2	1.0	0.42	ug/l	25.0	ND	117	55-145	3	25	
Carbon tetrachloride	25.1	0.50	0.28	ug/l	25.0	ND	100	65-140	3	25	
Chlorobenzene	26.0	0.50	0.36	ug/l	25.0	ND	104	75-125	3	20	
Chloroethane	26.8	1.0	0.40	ug/l	25.0	ND	107	55-140	5	25	
Chloroform	25.4	0.50	0.33	ug/l	25.0	ND	102	65-135	6	20	
Chloromethane	28.7	0.50	0.40	ug/l	25.0	ND	115	45-145	3	25	
Dibromochloromethane	23.7	0.50	0.40	ug/l	25.0	ND	95	65-140	6	25	
1,2-Dichlorobenzene	25.2	0.50	0.32	ug/l	25.0	ND	101	75-125	4	20	
1,3-Dichlorobenzene	26.2	0.50	0.35	ug/l	25.0	ND	105	75-125	5	20	
1,4-Dichlorobenzene	25.9	0.50	0.37	ug/l	25.0	ND	103	75-125	4	20	
1,1-Dichloroethane	25.1	0.50	0.40	ug/l	25.0	ND	100	65-130	4	20	
1,2-Dichloroethane	23.4	0.50	0.28	ug/l	25.0	ND	94	60-140	6	20	
1,1-Dichloroethene	26.4	0.50	0.42	ug/l	25.0	ND	106	60-130	3	20	
cis-1,2-Dichloroethene	27.3	0.50	0.32	ug/l	25.0	ND	109	65-130	7	20	
trans-1,2-Dichloroethene	26.2	0.50	0.30	ug/l	25.0	ND	105	65-130	6	20	
1,2-Dichloropropane	23.2	0.50	0.35	ug/l	25.0	ND	93	65-130	5	20	
cis-1,3-Dichloropropene	28.0	0.50	0.22	ug/l	25.0	ND	112	70-130	5	20	

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METHOD BLANK/QC DATA

PURGEABLES BY GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B0840 Extracted: 02/08/10											
Matrix Spike Dup Analyzed: 02/08/2010 (10B0840-MSD1)						**Source: ITB0892-01**					
trans-1,3-Dichloropropene	20.9	0.50	0.32	ug/l	25.0	ND	84	65-135	8	25	
Ethylbenzene	25.5	0.50	0.25	ug/l	25.0	ND	102	65-130	3	20	
Methylene chloride	25.0	1.0	0.95	ug/l	25.0	ND	100	50-135	4	20	
1,1,2,2-Tetrachloroethane	24.5	0.50	0.30	ug/l	25.0	ND	98	55-135	6	30	
Tetrachloroethene	25.8	0.50	0.32	ug/l	25.0	ND	103	65-130	2	20	
Toluene	24.8	0.50	0.36	ug/l	25.0	ND	99	70-125	4	20	
1,1,1-Trichloroethane	25.1	0.50	0.30	ug/l	25.0	ND	100	65-140	3	20	
1,1,2-Trichloroethane	24.4	0.50	0.30	ug/l	25.0	ND	97	65-130	9	25	
Trichloroethene	25.8	0.50	0.26	ug/l	25.0	ND	103	65-125	4	20	
Trichlorofluoromethane	28.2	0.50	0.34	ug/l	25.0	ND	113	60-145	3	25	
Vinyl chloride	33.1	0.50	0.40	ug/l	25.0	ND	132	45-140	3	30	
Xylenes, Total	81.0	1.5	0.90	ug/l	75.0	ND	108	60-130	2	20	
Surrogate: 4-Bromofluorobenzene	*25.8*			*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.8*			*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: Dibromofluoromethane	*26.7*			*ug/l*	*25.0*		*107*	*80-120*			
Surrogate: Dibromofluoromethane	*26.7*			*ug/l*	*25.0*		*107*	*80-120*			
Surrogate: Toluene-d8	*26.3*			*ug/l*	*25.0*		*105*	*80-120*			
Surrogate: Toluene-d8	*26.3*			*ug/l*	*25.0*		*105*	*80-120*			

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METHOD BLANK/QC DATA

PURGEABLES-- GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B0840 Extracted: 02/08/10											
Blank Analyzed: 02/08/2010 (10B0840-BLK1)											
Acrolein	ND	5.0	4.0	ug/l							
Acrylonitrile	ND	2.0	1.2	ug/l							
2-Chloroethyl vinyl ether	ND	5.0	1.8	ug/l							
Surrogate: 4-Bromofluorobenzene	*23.4*			*ug/l*	*25.0*		*94*	*80-120*			
Surrogate: Dibromofluoromethane	*25.6*			*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: Toluene-d8	*27.0*			*ug/l*	*25.0*		*108*	*80-120*			
LCS Analyzed: 02/08/2010 (10B0840-BS1)											
2-Chloroethyl vinyl ether	13.8	5.0	1.8	ug/l	25.0		55	25-170			
Surrogate: 4-Bromofluorobenzene	*25.5*			*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: Dibromofluoromethane	*26.0*			*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: Toluene-d8	*26.4*			*ug/l*	*25.0*		*105*	*80-120*			
Matrix Spike Analyzed: 02/08/2010 (10B0840-MS1)						**Source: ITB0892-01**					
2-Chloroethyl vinyl ether	13.8	5.0	1.8	ug/l	25.0	ND	55	25-170			
Surrogate: 4-Bromofluorobenzene	*26.5*			*ug/l*	*25.0*		*106*	*80-120*			
Surrogate: Dibromofluoromethane	*26.8*			*ug/l*	*25.0*		*107*	*80-120*			
Surrogate: Toluene-d8	*26.7*			*ug/l*	*25.0*		*107*	*80-120*			
Matrix Spike Dup Analyzed: 02/08/2010 (10B0840-MSD1)						**Source: ITB0892-01**					
2-Chloroethyl vinyl ether	12.8	5.0	1.8	ug/l	25.0	ND	51	25-170	7	25	
Surrogate: 4-Bromofluorobenzene	*25.8*			*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: Dibromofluoromethane	*26.7*			*ug/l*	*25.0*		*107*	*80-120*			
Surrogate: Toluene-d8	*26.3*			*ug/l*	*25.0*		*105*	*80-120*			

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METHOD BLANK/QC DATA

1,4-DIOXANE BY GCMS - SINGLE ION MONITORING (SIM)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B0317 Extracted: 02/08/10											
Blank Analyzed: 02/08/2010 (10B0317-BLK1)											
1,4-Dioxane	ND	2.0	1.0	ug/l							
Surrogate: Dibromofluoromethane	*0.980*			*ug/l*	*1.00*		*98*	*80-120*			
LCS Analyzed: 02/08/2010 (10B0317-BS1)											
1,4-Dioxane	9.80	2.0	1.0	ug/l	10.0		98	70-125			
Surrogate: Dibromofluoromethane	*0.960*			*ug/l*	*1.00*		*96*	*80-120*			
Matrix Spike Analyzed: 02/08/2010 (10B0317-MS1)						**Source: ITB0632-01**					
1,4-Dioxane	9.00	2.0	1.0	ug/l	10.0	ND	90	70-130			
Surrogate: Dibromofluoromethane	*1.03*			*ug/l*	*1.00*		*103*	*80-120*			
Matrix Spike Dup Analyzed: 02/08/2010 (10B0317-MSD1)						**Source: ITB0632-01**					
1,4-Dioxane	9.37	2.0	1.0	ug/l	10.0	ND	94	70-130	4	30	
Surrogate: Dibromofluoromethane	*1.02*			*ug/l*	*1.00*		*102*	*80-120*			

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METHOD BLANK/QC DATA

ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1393 Extracted: 02/11/10											
Blank Analyzed: 02/15/2010 (10B1393-BLK1)											
Acenaphthene	ND	0.50	0.10	ug/l							
Acenaphthylene	ND	0.50	0.10	ug/l							
Aniline	ND	10	0.30	ug/l							
Anthracene	ND	0.50	0.10	ug/l							
Benzidine	ND	5.0	5.0	ug/l							
Benzo(a)anthracene	ND	5.0	0.10	ug/l							
Benzo(a)pyrene	ND	2.0	0.10	ug/l							
Benzo(b)fluoranthene	ND	2.0	0.10	ug/l							
Benzo(g,h,i)perylene	ND	5.0	0.10	ug/l							
Benzo(k)fluoranthene	ND	0.50	0.10	ug/l							
Benzoic acid	ND	20	3.0	ug/l							
Benzyl alcohol	ND	5.0	0.10	ug/l							
4-Bromophenyl phenyl ether	ND	1.0	0.10	ug/l							
Butyl benzyl phthalate	ND	5.0	0.70	ug/l							
4-Chloro-3-methylphenol	ND	2.0	0.20	ug/l							
4-Chloroaniline	ND	2.0	0.10	ug/l							
Bis(2-chloroethoxy)methane	ND	0.50	0.10	ug/l							
Bis(2-chloroethyl)ether	ND	0.50	0.10	ug/l							
Bis(2-chloroisopropyl)ether	ND	0.50	0.10	ug/l							
Bis(2-ethylhexyl)phthalate	ND	5.0	1.7	ug/l							
2-Chloronaphthalene	ND	0.50	0.10	ug/l							
2-Chlorophenol	ND	1.0	0.20	ug/l							
4-Chlorophenyl phenyl ether	ND	0.50	0.10	ug/l							
Chrysene	ND	0.50	0.10	ug/l							
Dibenz(a,h)anthracene	ND	0.50	0.10	ug/l							
Dibenzofuran	ND	0.50	0.10	ug/l							
Di-n-butyl phthalate	ND	2.0	0.20	ug/l							
1,2-Dichlorobenzene	ND	0.50	0.10	ug/l							
1,3-Dichlorobenzene	ND	0.50	0.10	ug/l							
1,4-Dichlorobenzene	ND	0.50	0.20	ug/l							
3,3'-Dichlorobenzidine	ND	5.0	5.0	ug/l							
2,4-Dichlorophenol	ND	2.0	0.20	ug/l							
Diethyl phthalate	ND	1.0	0.10	ug/l							
2,4-Dimethylphenol	ND	2.0	0.30	ug/l							
Dimethyl phthalate	ND	0.50	0.10	ug/l							

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ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1393 Extracted: 02/11/10											
Blank Analyzed: 02/15/2010 (10B1393-BLK1)											
4,6-Dinitro-2-methylphenol	ND	5.0	0.20	ug/l							
2,4-Dinitrophenol	ND	5.0	0.90	ug/l							
2,4-Dinitrotoluene	ND	5.0	0.20	ug/l							
2,6-Dinitrotoluene	ND	5.0	0.10	ug/l							
Di-n-octyl phthalate	ND	5.0	0.10	ug/l							
1,2-Diphenylhydrazine/Azobenzene	ND	1.0	0.10	ug/l							
Fluoranthene	ND	0.50	0.10	ug/l							
Fluorene	ND	0.50	0.10	ug/l							
Hexachlorobenzene	ND	1.0	0.10	ug/l							
Hexachlorobutadiene	ND	2.0	0.20	ug/l							
Hexachlorocyclopentadiene	ND	5.0	0.10	ug/l							
Hexachloroethane	ND	3.0	0.20	ug/l							
Indeno(1,2,3-cd)pyrene	ND	2.0	0.10	ug/l							
Isophorone	ND	1.0	0.10	ug/l							
2-Methylnaphthalene	ND	1.0	0.10	ug/l							
2-Methylphenol	ND	2.0	0.10	ug/l							
4-Methylphenol	ND	5.0	0.20	ug/l							
Naphthalene	ND	1.0	0.10	ug/l							
2-Nitroaniline	ND	5.0	0.10	ug/l							
3-Nitroaniline	ND	5.0	0.20	ug/l							
4-Nitroaniline	ND	5.0	0.50	ug/l							
Nitrobenzene	ND	1.0	0.10	ug/l							
2-Nitrophenol	ND	2.0	0.10	ug/l							
4-Nitrophenol	ND	5.0	2.5	ug/l							
N-Nitroso-di-n-propylamine	ND	2.0	0.10	ug/l							
N-Nitrosodimethylamine	0.860	2.0	0.10	ug/l							*Ja*
N-Nitrosodiphenylamine	ND	1.0	0.10	ug/l							
Pentachlorophenol	ND	2.0	0.10	ug/l							
Phenanthrene	ND	0.50	0.10	ug/l							
Phenol	ND	1.0	0.30	ug/l							
Pyrene	ND	0.50	0.10	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	0.10	ug/l							
2,4,5-Trichlorophenol	ND	2.0	0.20	ug/l							
2,4,6-Trichlorophenol	ND	1.0	0.10	ug/l							
Surrogate: 2,4,6-Tribromophenol	*17.8*			*ug/l*	*20.0*		*89*	*40-120*			

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ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1393 Extracted: 02/11/10											
Blank Analyzed: 02/15/2010 (10B1393-BLK1)											
Surrogate: 2-Fluorobiphenyl	*8.44*			*ug/l*	*10.0*		*84*	*50-120*			
Surrogate: 2-Fluorophenol	*13.9*			*ug/l*	*20.0*		*70*	*30-120*			
Surrogate: Nitrobenzene-d5	*7.20*			*ug/l*	*10.0*		*72*	*45-120*			
Surrogate: Phenol-d6	*14.2*			*ug/l*	*20.0*		*71*	*35-120*			
Surrogate: Terphenyl-d14	*9.32*			*ug/l*	*10.0*		*93*	*50-125*			
LCS Analyzed: 02/15/2010 (10B1393-BS1)											**MNR1**
Acenaphthene	8.34	0.50	0.10	ug/l	10.0		83	60-120			
Acenaphthylene	8.32	0.50	0.10	ug/l	10.0		83	60-120			
Aniline	7.38	10	0.30	ug/l	10.0		74	35-120			*Ja*
Anthracene	9.00	0.50	0.10	ug/l	10.0		90	65-120			
Benzidine	6.32	5.0	5.0	ug/l	10.0		63	30-160			
Benzo(a)anthracene	9.34	5.0	0.10	ug/l	10.0		93	65-120			
Benzo(a)pyrene	9.58	2.0	0.10	ug/l	10.0		96	55-130			
Benzo(b)fluoranthene	9.44	2.0	0.10	ug/l	10.0		94	55-125			
Benzo(g,h,i)perylene	11.5	5.0	0.10	ug/l	10.0		115	45-135			
Benzo(k)fluoranthene	9.36	0.50	0.10	ug/l	10.0		94	50-125			
Benzoic acid	7.22	20	3.0	ug/l	10.0		72	25-120			*Ja*
Benzyl alcohol	7.18	5.0	0.10	ug/l	10.0		72	50-120			
4-Bromophenyl phenyl ether	9.16	1.0	0.10	ug/l	10.0		92	60-120			
Butyl benzyl phthalate	9.66	5.0	0.70	ug/l	10.0		97	55-130			
4-Chloro-3-methylphenol	7.42	2.0	0.20	ug/l	10.0		74	60-120			
4-Chloroaniline	7.34	2.0	0.10	ug/l	10.0		73	55-120			
Bis(2-chloroethoxy)methane	7.94	0.50	0.10	ug/l	10.0		79	55-120			
Bis(2-chloroethyl)ether	7.20	0.50	0.10	ug/l	10.0		72	50-120			
Bis(2-chloroisopropyl)ether	6.66	0.50	0.10	ug/l	10.0		67	45-120			
Bis(2-ethylhexyl)phthalate	10.3	5.0	1.7	ug/l	10.0		103	65-130			
2-Chloronaphthalene	8.08	0.50	0.10	ug/l	10.0		81	60-120			
2-Chlorophenol	7.14	1.0	0.20	ug/l	10.0		71	45-120			
4-Chlorophenyl phenyl ether	9.72	0.50	0.10	ug/l	10.0		97	65-120			
Chrysene	9.44	0.50	0.10	ug/l	10.0		94	65-120			
Dibenz(a,h)anthracene	10.4	0.50	0.10	ug/l	10.0		104	50-135			
Dibenzofuran	8.78	0.50	0.10	ug/l	10.0		88	65-120			
Di-n-butyl phthalate	9.34	2.0	0.20	ug/l	10.0		93	60-125			
1,2-Dichlorobenzene	6.50	0.50	0.10	ug/l	10.0		65	40-120			
1,3-Dichlorobenzene	6.20	0.50	0.10	ug/l	10.0		62	35-120			

TestAmerica Irvine

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Attention: Bronwyn Kelly

Project ID: Annual Outfall 018
Report Number: ITB0889

Sampled: 02/06/10-02/07/10
Received: 02/06/10

METHOD BLANK/QC DATA

ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1393 Extracted: 02/11/10											
LCS Analyzed: 02/15/2010 (10B1393-BS1)											**MNR1**
1,4-Dichlorobenzene	6.22	0.50	0.20	ug/l	10.0		62	35-120			
3,3'-Dichlorobenzidine	7.54	5.0	5.0	ug/l	10.0		75	45-135			
2,4-Dichlorophenol	7.58	2.0	0.20	ug/l	10.0		76	55-120			
Diethyl phthalate	9.94	1.0	0.10	ug/l	10.0		99	55-120			
2,4-Dimethylphenol	5.72	2.0	0.30	ug/l	10.0		57	40-120			
Dimethyl phthalate	9.56	0.50	0.10	ug/l	10.0		96	30-120			
4,6-Dinitro-2-methylphenol	8.68	5.0	0.20	ug/l	10.0		87	45-120			
2,4-Dinitrophenol	8.26	5.0	0.90	ug/l	10.0		83	40-120			
2,4-Dinitrotoluene	9.70	5.0	0.20	ug/l	10.0		97	65-120			
2,6-Dinitrotoluene	9.46	5.0	0.10	ug/l	10.0		95	65-120			
Di-n-octyl phthalate	9.70	5.0	0.10	ug/l	10.0		97	65-135			
1,2-Diphenylhydrazine/Azobenzene	9.68	1.0	0.10	ug/l	10.0		97	60-120			
Fluoranthene	9.48	0.50	0.10	ug/l	10.0		95	60-120			
Fluorene	9.78	0.50	0.10	ug/l	10.0		98	65-120			
Hexachlorobenzene	9.06	1.0	0.10	ug/l	10.0		91	60-120			
Hexachlorobutadiene	6.24	2.0	0.20	ug/l	10.0		62	40-120			
Hexachlorocyclopentadiene	3.42	5.0	0.10	ug/l	10.0		34	25-120			*Ja*
Hexachloroethane	5.78	3.0	0.20	ug/l	10.0		58	35-120			
Indeno(1,2,3-cd)pyrene	11.1	2.0	0.10	ug/l	10.0		111	45-135			
Isophorone	7.82	1.0	0.10	ug/l	10.0		78	50-120			
2-Methylnaphthalene	7.38	1.0	0.10	ug/l	10.0		74	55-120			
2-Methylphenol	7.28	2.0	0.10	ug/l	10.0		73	50-120			
4-Methylphenol	7.92	5.0	0.20	ug/l	10.0		79	50-120			
Naphthalene	7.12	1.0	0.10	ug/l	10.0		71	55-120			
2-Nitroaniline	8.30	5.0	0.10	ug/l	10.0		83	65-120			
3-Nitroaniline	9.74	5.0	0.20	ug/l	10.0		97	60-120			
4-Nitroaniline	9.52	5.0	0.50	ug/l	10.0		95	55-125			
Nitrobenzene	7.84	1.0	0.10	ug/l	10.0		78	55-120			
2-Nitrophenol	7.74	2.0	0.10	ug/l	10.0		77	50-120			
4-Nitrophenol	11.2	5.0	2.5	ug/l	10.0		112	45-120			
N-Nitroso-di-n-propylamine	7.62	2.0	0.10	ug/l	10.0		76	45-120			
N-Nitrosodimethylamine	7.84	2.0	0.10	ug/l	10.0		78	45-120			
N-Nitrosodiphenylamine	8.94	1.0	0.10	ug/l	10.0		89	60-120			
Pentachlorophenol	8.20	2.0	0.10	ug/l	10.0		82	50-120			
Phenanthrene	9.14	0.50	0.10	ug/l	10.0		91	65-120			

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Project ID: Annual Outfall 018
Report Number: ITB0889

Sampled: 02/06/10-02/07/10
Received: 02/06/10

METHOD BLANK/QC DATA

ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1393 Extracted: 02/11/10											
LCS Analyzed: 02/15/2010 (10B1393-BS1)											**MNR1**
Phenol	7.56	1.0	0.30	ug/l	10.0		76	40-120			
Pyrene	9.54	0.50	0.10	ug/l	10.0		95	55-125			
1,2,4-Trichlorobenzene	6.70	1.0	0.10	ug/l	10.0		67	45-120			
2,4,5-Trichlorophenol	8.30	2.0	0.20	ug/l	10.0		83	55-120			
2,4,6-Trichlorophenol	8.42	1.0	0.10	ug/l	10.0		84	55-120			
Surrogate: 2,4,6-Tribromophenol	*19.7*			*ug/l*	*20.0*		*98*	*40-120*			
Surrogate: 2-Fluorobiphenyl	*8.40*			*ug/l*	*10.0*		*84*	*50-120*			
Surrogate: 2-Fluorophenol	*12.9*			*ug/l*	*20.0*		*64*	*30-120*			
Surrogate: Nitrobenzene-d5	*7.68*			*ug/l*	*10.0*		*77*	*45-120*			
Surrogate: Phenol-d6	*14.6*			*ug/l*	*20.0*		*73*	*35-120*			
Surrogate: Terphenyl-d14	*9.36*			*ug/l*	*10.0*		*94*	*50-125*			
LCS Dup Analyzed: 02/15/2010 (10B1393-BSD1)											
Acenaphthene	8.78	0.50	0.10	ug/l	10.0		88	60-120	5	20	
Acenaphthylene	8.54	0.50	0.10	ug/l	10.0		85	60-120	3	20	
Aniline	ND	10	0.30	ug/l	10.0			35-120		30	*L2*
Anthracene	9.04	0.50	0.10	ug/l	10.0		90	65-120	0.4	20	
Benzidine	ND	5.0	5.0	ug/l	10.0			30-160		35	*L2*
Benzo(a)anthracene	9.34	5.0	0.10	ug/l	10.0		93	65-120	0	20	
Benzo(a)pyrene	9.42	2.0	0.10	ug/l	10.0		94	55-130	2	25	
Benzo(b)fluoranthene	9.62	2.0	0.10	ug/l	10.0		96	55-125	2	25	
Benzo(g,h,i)perylene	11.7	5.0	0.10	ug/l	10.0		117	45-135	1	25	
Benzo(k)fluoranthene	9.52	0.50	0.10	ug/l	10.0		95	50-125	2	20	
Benzoic acid	7.32	20	3.0	ug/l	10.0		73	25-120	1	30	*Ja*
Benzyl alcohol	6.98	5.0	0.10	ug/l	10.0		70	50-120	3	20	
4-Bromophenyl phenyl ether	9.14	1.0	0.10	ug/l	10.0		91	60-120	0.2	25	
Butyl benzyl phthalate	9.02	5.0	0.70	ug/l	10.0		90	55-130	7	20	
4-Chloro-3-methylphenol	7.58	2.0	0.20	ug/l	10.0		76	60-120	2	25	
4-Chloroaniline	0.100	2.0	0.10	ug/l	10.0		1	55-120	195	25	*L2, R-2, Ja*
Bis(2-chloroethoxy)methane	7.20	0.50	0.10	ug/l	10.0		72	55-120	10	20	
Bis(2-chloroethyl)ether	8.08	0.50	0.10	ug/l	10.0		81	50-120	12	20	
Bis(2-chloroisopropyl)ether	7.42	0.50	0.10	ug/l	10.0		74	45-120	11	20	
Bis(2-ethylhexyl)phthalate	9.40	5.0	1.7	ug/l	10.0		94	65-130	9	20	
2-Chloronaphthalene	9.02	0.50	0.10	ug/l	10.0		90	60-120	11	20	
2-Chlorophenol	7.60	1.0	0.20	ug/l	10.0		76	45-120	6	25	
4-Chlorophenyl phenyl ether	11.2	0.50	0.10	ug/l	10.0		112	65-120	15	20	

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Project ID: Annual Outfall 018
Report Number: ITB0889

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METHOD BLANK/QC DATA

ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1393 Extracted: 02/11/10											
LCS Dup Analyzed: 02/15/2010 (10B1393-BSD1)											
Chrysene	9.34	0.50	0.10	ug/l	10.0		93	65-120	1	20	
Dibenz(a,h)anthracene	10.7	0.50	0.10	ug/l	10.0		107	50-135	3	25	
Dibenzofuran	9.56	0.50	0.10	ug/l	10.0		96	65-120	9	20	
Di-n-butyl phthalate	9.26	2.0	0.20	ug/l	10.0		93	60-125	0.9	20	
1,2-Dichlorobenzene	7.10	0.50	0.10	ug/l	10.0		71	40-120	9	25	
1,3-Dichlorobenzene	6.62	0.50	0.10	ug/l	10.0		66	35-120	7	25	
1,4-Dichlorobenzene	6.88	0.50	0.20	ug/l	10.0		69	35-120	10	25	
3,3'-Dichlorobenzidine	ND	5.0	5.0	ug/l	10.0			45-135		25	*L2*
2,4-Dichlorophenol	7.64	2.0	0.20	ug/l	10.0		76	55-120	0.8	20	
Diethyl phthalate	10.2	1.0	0.10	ug/l	10.0		102	55-120	3	30	
2,4-Dimethylphenol	6.84	2.0	0.30	ug/l	10.0		68	40-120	18	25	
Dimethyl phthalate	10.8	0.50	0.10	ug/l	10.0		108	30-120	12	30	
4,6-Dinitro-2-methylphenol	7.46	5.0	0.20	ug/l	10.0		75	45-120	15	25	
2,4-Dinitrophenol	8.44	5.0	0.90	ug/l	10.0		84	40-120	2	25	
2,4-Dinitrotoluene	10.1	5.0	0.20	ug/l	10.0		101	65-120	4	20	
2,6-Dinitrotoluene	10.3	5.0	0.10	ug/l	10.0		103	65-120	9	20	
Di-n-octyl phthalate	9.46	5.0	0.10	ug/l	10.0		95	65-135	3	20	
1,2-Diphenylhydrazine/Azobenzene	9.92	1.0	0.10	ug/l	10.0		99	60-120	2	25	
Fluoranthene	9.34	0.50	0.10	ug/l	10.0		93	60-120	1	20	
Fluorene	10.4	0.50	0.10	ug/l	10.0		104	65-120	7	20	
Hexachlorobenzene	9.18	1.0	0.10	ug/l	10.0		92	60-120	1	20	
Hexachlorobutadiene	6.94	2.0	0.20	ug/l	10.0		69	40-120	11	25	
Hexachlorocyclopentadiene	5.02	5.0	0.10	ug/l	10.0		50	25-120	38	30	*R-7*
Hexachloroethane	6.76	3.0	0.20	ug/l	10.0		68	35-120	16	25	
Indeno(1,2,3-cd)pyrene	11.2	2.0	0.10	ug/l	10.0		112	45-135	0.7	25	
Isophorone	7.46	1.0	0.10	ug/l	10.0		75	50-120	5	20	
2-Methylnaphthalene	7.94	1.0	0.10	ug/l	10.0		79	55-120	7	20	
2-Methylphenol	7.56	2.0	0.10	ug/l	10.0		76	50-120	4	20	
4-Methylphenol	7.72	5.0	0.20	ug/l	10.0		77	50-120	3	20	
Naphthalene	7.96	1.0	0.10	ug/l	10.0		80	55-120	11	20	
2-Nitroaniline	7.88	5.0	0.10	ug/l	10.0		79	65-120	5	20	
3-Nitroaniline	0.940	5.0	0.20	ug/l	10.0		9	60-120	165	25	*L2, R-2, Ja*
4-Nitroaniline	3.98	5.0	0.50	ug/l	10.0		40	55-125	82	20	*L2, R-2, Ja*
Nitrobenzene	8.40	1.0	0.10	ug/l	10.0		84	55-120	7	25	
2-Nitrophenol	7.84	2.0	0.10	ug/l	10.0		78	50-120	1	25	

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METHOD BLANK/QC DATA

ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1393 Extracted: 02/11/10											
LCS Dup Analyzed: 02/15/2010 (10B1393-BSD1)											
4-Nitrophenol	10.4	5.0	2.5	ug/l	10.0		104	45-120	7	30	
N-Nitroso-di-n-propylamine	7.98	2.0	0.10	ug/l	10.0		80	45-120	5	20	
N-Nitrosodimethylamine	7.78	2.0	0.10	ug/l	10.0		78	45-120	0.8	20	
N-Nitrosodiphenylamine	8.24	1.0	0.10	ug/l	10.0		82	60-120	8	20	
Pentachlorophenol	8.58	2.0	0.10	ug/l	10.0		86	50-120	5	25	
Phenanthrene	9.28	0.50	0.10	ug/l	10.0		93	65-120	2	20	
Phenol	6.78	1.0	0.30	ug/l	10.0		68	40-120	11	25	
Pyrene	9.58	0.50	0.10	ug/l	10.0		96	55-125	0.4	25	
1,2,4-Trichlorobenzene	7.14	1.0	0.10	ug/l	10.0		71	45-120	6	20	
2,4,5-Trichlorophenol	8.72	2.0	0.20	ug/l	10.0		87	55-120	5	30	
2,4,6-Trichlorophenol	9.06	1.0	0.10	ug/l	10.0		91	55-120	7	30	
Surrogate: 2,4,6-Tribromophenol	*19.7*			*ug/l*	*20.0*		*99*	*40-120*			
Surrogate: 2-Fluorobiphenyl	*9.14*			*ug/l*	*10.0*		*91*	*50-120*			
Surrogate: 2-Fluorophenol	*12.8*			*ug/l*	*20.0*		*64*	*30-120*			
Surrogate: Nitrobenzene-d5	*8.12*			*ug/l*	*10.0*		*81*	*45-120*			
Surrogate: Phenol-d6	*13.9*			*ug/l*	*20.0*		*69*	*35-120*			
Surrogate: Terphenyl-d14	*9.54*			*ug/l*	*10.0*		*95*	*50-125*			

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METHOD BLANK/QC DATA

ORGANOCHLORINE PESTICIDES (EPA 608)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1291 Extracted: 02/11/10											
Blank Analyzed: 02/12/2010 (10B1291-BLK1)											
4,4'-DDD	ND	0.0050	0.0020	ug/l							
4,4'-DDE	ND	0.0050	0.0030	ug/l							
4,4'-DDT	ND	0.010	0.0040	ug/l							
Aldrin	ND	0.0050	0.0015	ug/l							
alpha-BHC	ND	0.0050	0.0025	ug/l							
beta-BHC	ND	0.010	0.0040	ug/l							
delta-BHC	ND	0.0050	0.0035	ug/l							
Dieldrin	ND	0.0050	0.0020	ug/l							
Endosulfan I	ND	0.0050	0.0020	ug/l							
Endosulfan II	ND	0.0050	0.0030	ug/l							
Endosulfan sulfate	ND	0.010	0.0030	ug/l							
Endrin	ND	0.0050	0.0020	ug/l							
Endrin aldehyde	ND	0.010	0.0020	ug/l							
Endrin ketone	ND	0.010	0.0030	ug/l							
gamma-BHC (Lindane)	ND	0.020	0.0030	ug/l							
Heptachlor	ND	0.010	0.0030	ug/l							
Heptachlor epoxide	ND	0.0050	0.0025	ug/l							
Methoxychlor	ND	0.0050	0.0035	ug/l							
Chlordane	ND	0.10	0.040	ug/l							
Toxaphene	ND	0.50	0.25	ug/l							
Surrogate: Decachlorobiphenyl	*0.387*			*ug/l*	*0.500*		*77*	*45-120*			
Surrogate: Decachlorobiphenyl	*0.387*			*ug/l*	*0.500*		*77*	*45-120*			
Surrogate: Tetrachloro-m-xylene	*0.240*			*ug/l*	*0.500*		*48*	*35-115*			
Surrogate: Tetrachloro-m-xylene	*0.240*			*ug/l*	*0.500*		*48*	*35-115*			
LCS Analyzed: 02/12/2010 (10B1291-BS1)											
4,4'-DDD	0.464	0.0050	0.0020	ug/l	0.500		93	55-120			
4,4'-DDE	0.418	0.0050	0.0030	ug/l	0.500		84	50-120			
4,4'-DDT	0.450	0.010	0.0040	ug/l	0.500		90	55-120			
Aldrin	0.374	0.0050	0.0015	ug/l	0.500		75	40-115			
alpha-BHC	0.369	0.010	0.0025	ug/l	0.500		74	45-115			
beta-BHC	0.361	0.010	0.0040	ug/l	0.500		72	55-115			
delta-BHC	0.404	0.0050	0.0035	ug/l	0.500		81	55-115			
Dieldrin	0.434	0.0050	0.0020	ug/l	0.500		87	55-115			

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Attention: Bronwyn Kelly

Project ID: Annual Outfall 018

Report Number: ITB0889

Sampled: 02/06/10-02/07/10
Received: 02/06/10

METHOD BLANK/QC DATA

ORGANOCHLORINE PESTICIDES (EPA 608)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1291 Extracted: 02/11/10											
LCS Analyzed: 02/12/2010 (10B1291-BS1)											
Endosulfan I	0.423	0.0050	0.0020	ug/l	0.500		85	55-115			
Endosulfan II	0.464	0.0050	0.0030	ug/l	0.500		93	55-120			
Endosulfan sulfate	0.431	0.010	0.0030	ug/l	0.500		86	60-120			
Endrin	0.477	0.0050	0.0020	ug/l	0.500		95	55-115			
Endrin aldehyde	0.393	0.010	0.0020	ug/l	0.500		79	50-120			
Endrin ketone	0.454	0.010	0.0030	ug/l	0.500		91	55-120			
gamma-BHC (Lindane)	0.381	0.020	0.0030	ug/l	0.500		76	45-115			
Heptachlor	0.415	0.010	0.0030	ug/l	0.500		83	45-115			
Heptachlor epoxide	0.407	0.0050	0.0025	ug/l	0.500		81	55-115			
Methoxychlor	0.485	0.0050	0.0035	ug/l	0.500		97	60-120			
Surrogate: Decachlorobiphenyl	*0.394*			*ug/l*	*0.500*		*79*	*45-120*			
Surrogate: Decachlorobiphenyl	*0.394*			*ug/l*	*0.500*		*79*	*45-120*			
Surrogate: Tetrachloro-m-xylene	*0.339*			*ug/l*	*0.500*		*68*	*35-115*			
Surrogate: Tetrachloro-m-xylene	*0.339*			*ug/l*	*0.500*		*68*	*35-115*			
Matrix Spike Analyzed: 02/12/2010 (10B1291-MS1)						**Source: ITB0602-01**					
4,4'-DDD	0.362	0.019	0.0075	ug/l	0.472	ND	77	50-125			
4,4'-DDE	0.530	0.019	0.011	ug/l	0.472	ND	112	45-125			
4,4'-DDT	0.402	0.038	0.015	ug/l	0.472	ND	85	50-125			
Aldrin	0.386	0.019	0.0057	ug/l	0.472	ND	82	35-120			
alpha-BHC	0.372	0.019	0.0094	ug/l	0.472	ND	79	40-120			
beta-BHC	0.186	0.038	0.015	ug/l	0.472	ND	39	50-120			*M2*
delta-BHC	0.314	0.019	0.013	ug/l	0.472	ND	67	50-120			
Dieldrin	0.390	0.019	0.0075	ug/l	0.472	ND	83	50-120			
Endosulfan I	0.475	0.019	0.0075	ug/l	0.472	ND	101	50-120			
Endosulfan II	0.390	0.019	0.011	ug/l	0.472	ND	83	50-125			
Endosulfan sulfate	0.333	0.038	0.011	ug/l	0.472	ND	71	55-125			
Endrin	0.413	0.019	0.0075	ug/l	0.472	ND	88	50-120			
Endrin aldehyde	0.190	0.038	0.0075	ug/l	0.472	ND	40	45-125			*M2*
Endrin ketone	0.342	0.038	0.011	ug/l	0.472	ND	72	50-125			
gamma-BHC (Lindane)	0.371	0.075	0.011	ug/l	0.472	ND	79	40-120			
Heptachlor	0.452	0.038	0.011	ug/l	0.472	ND	96	40-120			
Heptachlor epoxide	0.450	0.019	0.0094	ug/l	0.472	ND	95	50-120			
Methoxychlor	0.447	0.019	0.013	ug/l	0.472	ND	95	55-125			
Surrogate: Decachlorobiphenyl	*0.418*			*ug/l*	*0.472*		*89*	*45-120*			

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METHOD BLANK/QC DATA

ORGANOCHLORINE PESTICIDES (EPA 608)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1291 Extracted: 02/11/10											
Matrix Spike Analyzed: 02/12/2010 (10B1291-MS1)						**Source: ITB0602-01**					
Surrogate: Decachlorobiphenyl	*0.418*			*ug/l*	*0.472*		*89*	*45-120*			
Surrogate: Tetrachloro-m-xylene	*0.220*			*ug/l*	*0.472*		*47*	*35-115*			
Surrogate: Tetrachloro-m-xylene	*0.220*			*ug/l*	*0.472*		*47*	*35-115*			
Matrix Spike Dup Analyzed: 02/12/2010 (10B1291-MSD1)						**Source: ITB0602-01**					
4,4'-DDD	0.364	0.019	0.0075	ug/l	0.472	ND	77	50-125	0.5	30	
4,4'-DDE	0.527	0.019	0.011	ug/l	0.472	ND	112	45-125	0.7	30	
4,4'-DDT	0.396	0.038	0.015	ug/l	0.472	ND	84	50-125	1	30	
Aldrin	0.384	0.019	0.0057	ug/l	0.472	ND	81	35-120	0.6	30	
alpha-BHC	0.367	0.019	0.0094	ug/l	0.472	ND	78	40-120	1	30	
beta-BHC	0.196	0.038	0.015	ug/l	0.472	ND	42	50-120	5	30	*M2*
delta-BHC	0.313	0.019	0.013	ug/l	0.472	ND	66	50-120	0.2	30	
Dieldrin	0.387	0.019	0.0075	ug/l	0.472	ND	82	50-120	0.7	30	
Endosulfan I	0.471	0.019	0.0075	ug/l	0.472	ND	100	50-120	1	30	
Endosulfan II	0.393	0.019	0.011	ug/l	0.472	ND	83	50-125	0.7	30	
Endosulfan sulfate	0.346	0.038	0.011	ug/l	0.472	ND	73	55-125	4	30	
Endrin	0.409	0.019	0.0075	ug/l	0.472	ND	87	50-120	1	30	
Endrin aldehyde	0.197	0.038	0.0075	ug/l	0.472	ND	42	45-125	4	30	*M2*
Endrin ketone	0.338	0.038	0.011	ug/l	0.472	ND	72	50-125	1	30	
gamma-BHC (Lindane)	0.368	0.075	0.011	ug/l	0.472	ND	78	40-120	0.6	30	
Heptachlor	0.441	0.038	0.011	ug/l	0.472	ND	93	40-120	3	30	
Heptachlor epoxide	0.447	0.019	0.0094	ug/l	0.472	ND	95	50-120	0.7	30	
Methoxychlor	0.442	0.019	0.013	ug/l	0.472	ND	94	55-125	1	30	
Surrogate: Decachlorobiphenyl	*0.407*			*ug/l*	*0.472*		*86*	*45-120*			
Surrogate: Decachlorobiphenyl	*0.407*			*ug/l*	*0.472*		*86*	*45-120*			
Surrogate: Tetrachloro-m-xylene	*0.264*			*ug/l*	*0.472*		*56*	*35-115*			
Surrogate: Tetrachloro-m-xylene	*0.264*			*ug/l*	*0.472*		*56*	*35-115*			

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METHOD BLANK/QC DATA

TOTAL PCBS (EPA 608)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1291 Extracted: 02/11/10											
Blank Analyzed: 02/11/2010 (10B1291-BLK1)											
Aroclor 1016	ND	0.50	0.25	ug/l							
Aroclor 1221	ND	0.50	0.25	ug/l							
Aroclor 1232	ND	0.50	0.25	ug/l							
Aroclor 1242	ND	0.50	0.25	ug/l							
Aroclor 1248	ND	0.50	0.25	ug/l							
Aroclor 1254	ND	0.50	0.25	ug/l							
Aroclor 1260	ND	0.50	0.25	ug/l							
Surrogate: Decachlorobiphenyl	*0.422*			*ug/l*	*0.500*		*84*	*45-120*			
LCS Analyzed: 02/11/2010 (10B1291-BS2)											
Aroclor 1016	2.94	0.50	0.25	ug/l	4.00		74	50-115			
Aroclor 1260	3.60	0.50	0.25	ug/l	4.00		90	60-120			
Surrogate: Decachlorobiphenyl	*0.432*			*ug/l*	*0.500*		*86*	*45-120*			
Matrix Spike Analyzed: 02/11/2010 (10B1291-MS2)						**Source: ITB0602-01**					
Aroclor 1016	4.30	0.47	0.24	ug/l	3.77	ND	114	45-120			
Aroclor 1260	3.32	0.47	0.24	ug/l	3.77	ND	88	55-125			
Surrogate: Decachlorobiphenyl	*0.388*			*ug/l*	*0.472*		*82*	*45-120*			
Matrix Spike Dup Analyzed: 02/11/2010 (10B1291-MSD2)						**Source: ITB0602-01**					
Aroclor 1016	4.36	0.47	0.24	ug/l	3.77	ND	116	45-120	1	30	
Aroclor 1260	3.32	0.47	0.24	ug/l	3.77	ND	88	55-125	0.2	25	
Surrogate: Decachlorobiphenyl	*0.383*			*ug/l*	*0.472*		*81*	*45-120*			

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METHOD BLANK/QC DATA

HEXANE EXTRACTABLE MATERIAL

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1991 Extracted: 02/17/10											
Blank Analyzed: 02/17/2010 (10B1991-BLK1)											
Hexane Extractable Material (Oil & Grease)	ND	5.0	1.4	mg/l							
LCS Analyzed: 02/17/2010 (10B1991-BS1)											
Hexane Extractable Material (Oil & Grease)	20.5	5.0	1.4	mg/l	20.0		102	78-114			
LCS Dup Analyzed: 02/17/2010 (10B1991-BSD1)											
Hexane Extractable Material (Oil & Grease)	20.2	5.0	1.4	mg/l	20.0		101	78-114	1	11	

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1598 Extracted: 02/12/10											
Blank Analyzed: 02/15/2010 (10B1598-BLK1)											
Antimony	ND	2.0	0.30	ug/l							
Cadmium	ND	1.0	0.10	ug/l							
Copper	ND	2.0	0.50	ug/l							
Lead	ND	1.0	0.20	ug/l							
Selenium	ND	2.0	0.50	ug/l							
Silver	ND	1.0	0.10	ug/l							
Thallium	ND	1.0	0.20	ug/l							
LCS Analyzed: 02/15/2010 (10B1598-BS1)											
Antimony	82.5	2.0	0.30	ug/l	80.0		103	85-115			
Cadmium	82.4	1.0	0.10	ug/l	80.0		103	85-115			
Copper	81.0	2.0	0.50	ug/l	80.0		101	85-115			
Lead	84.3	1.0	0.20	ug/l	80.0		105	85-115			
Selenium	81.2	2.0	0.50	ug/l	80.0		101	85-115			
Silver	82.7	1.0	0.10	ug/l	80.0		103	85-115			
Thallium	81.6	1.0	0.20	ug/l	80.0		102	85-115			
Matrix Spike Analyzed: 02/15/2010 (10B1598-MS1)						**Source: ITB0888-01**					
Antimony	83.1	2.0	0.30	ug/l	80.0	ND	104	70-130			
Cadmium	79.9	1.0	0.10	ug/l	80.0	ND	100	70-130			
Copper	80.3	2.0	0.50	ug/l	80.0	1.68	98	70-130			
Lead	77.4	1.0	0.20	ug/l	80.0	0.398	96	70-130			
Selenium	80.3	2.0	0.50	ug/l	80.0	ND	100	70-130			
Silver	78.7	1.0	0.10	ug/l	80.0	ND	98	70-130			
Thallium	79.3	1.0	0.20	ug/l	80.0	ND	99	70-130			
Matrix Spike Analyzed: 02/15/2010 (10B1598-MS2)						**Source: ITB0900-02**					
Antimony	82.9	2.0	0.30	ug/l	80.0	ND	104	70-130			
Cadmium	81.1	1.0	0.10	ug/l	80.0	ND	101	70-130			
Copper	84.1	2.0	0.50	ug/l	80.0	1.41	103	70-130			
Lead	78.7	1.0	0.20	ug/l	80.0	0.252	98	70-130			
Selenium	77.8	2.0	0.50	ug/l	80.0	ND	97	70-130			
Silver	81.0	1.0	0.10	ug/l	80.0	ND	101	70-130			
Thallium	82.9	1.0	0.20	ug/l	80.0	ND	104	70-130			

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METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1598 Extracted: 02/12/10											
Matrix Spike Dup Analyzed: 02/15/2010 (10B1598-MSD1)						**Source: ITB0888-01**					
Antimony	84.1	2.0	0.30	ug/l	80.0	ND	105	70-130	1	20	
Cadmium	80.8	1.0	0.10	ug/l	80.0	ND	101	70-130	1	20	
Copper	82.7	2.0	0.50	ug/l	80.0	1.68	101	70-130	3	20	
Lead	79.1	1.0	0.20	ug/l	80.0	0.398	98	70-130	2	20	
Selenium	81.4	2.0	0.50	ug/l	80.0	ND	102	70-130	1	20	
Silver	79.8	1.0	0.10	ug/l	80.0	ND	100	70-130	1	20	
Thallium	80.5	1.0	0.20	ug/l	80.0	ND	101	70-130	1	20	
Batch: 10B1807 Extracted: 02/15/10											
Blank Analyzed: 02/16/2010 (10B1807-BLK1)											
Arsenic	ND	10	7.0	ug/l							
Barium	ND	0.010	0.0060	mg/l							
Beryllium	ND	2.0	0.90	ug/l							
Boron	ND	0.050	0.020	mg/l							
Calcium	ND	0.10	N/A	mg/l							
Chromium	ND	5.0	2.0	ug/l							
Cobalt	ND	10	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Magnesium	ND	0.020	N/A	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Vanadium	ND	10	3.0	ug/l							
Zinc	ND	20	6.0	ug/l							
LCS Analyzed: 02/16/2010 (10B1807-BS1)											
Arsenic	518	10	7.0	ug/l	500		104	85-115			
Barium	0.511	0.010	0.0060	mg/l	0.500		102	85-115			
Beryllium	511	2.0	0.90	ug/l	500		102	85-115			
Boron	0.520	0.050	0.020	mg/l	0.500		104	85-115			
Calcium	2.58	0.10	N/A	mg/l	2.50		103	85-115			
Chromium	488	5.0	2.0	ug/l	500		98	85-115			
Cobalt	483	10	2.0	ug/l	500		97	85-115			
Iron	0.505	0.040	0.015	mg/l	0.500		101	85-115			
Magnesium	2.52	0.020	N/A	mg/l	2.50		101	85-115			
Manganese	497	20	7.0	ug/l	500		99	85-115			

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METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1807 Extracted: 02/15/10											
LCS Analyzed: 02/16/2010 (10B1807-BS1)											
Nickel	500	10	2.0	ug/l	500		100	85-115			
Vanadium	500	10	3.0	ug/l	500		100	85-115			
Zinc	522	20	6.0	ug/l	500		104	85-115			
Matrix Spike Analyzed: 02/16/2010 (10B1807-MS1)						**Source: ITB0980-01**					
Arsenic	522	10	7.0	ug/l	500	ND	104	70-130			
Barium	0.511	0.010	0.0060	mg/l	0.500	ND	102	70-130			
Beryllium	501	2.0	0.90	ug/l	500	0.967	100	70-130			
Boron	0.537	0.050	0.020	mg/l	0.500	0.0262	102	70-130			
Calcium	5.69	0.10	N/A	mg/l	2.50	3.23	98	70-130			
Chromium	483	5.0	2.0	ug/l	500	ND	97	70-130			
Cobalt	477	10	2.0	ug/l	500	ND	95	70-130			
Iron	0.539	0.040	0.015	mg/l	0.500	0.0466	98	70-130			
Magnesium	2.75	0.020	N/A	mg/l	2.50	0.285	99	70-130			
Manganese	491	20	7.0	ug/l	500	ND	98	70-130			
Nickel	492	10	2.0	ug/l	500	2.57	98	70-130			
Vanadium	491	10	3.0	ug/l	500	3.29	98	70-130			
Zinc	524	20	6.0	ug/l	500	34.0	98	70-130			
Matrix Spike Analyzed: 02/16/2010 (10B1807-MS2)						**Source: ITB1117-02**					
Arsenic	ND	1000	700	ug/l	500	ND		70-130			*M2*
Barium	0.924	1.0	0.60	mg/l	0.500	ND	185	70-130			*M1, Ja*
Beryllium	565	200	90	ug/l	500	ND	113	70-130			
Boron	ND	5.0	2.0	mg/l	0.500	ND		70-130			*M2*
Calcium	65.3	10	N/A	mg/l	2.50	65.0	12	70-130			*MHA*
Chromium	4140	500	200	ug/l	500	3620	104	70-130			*MHA*
Cobalt	2410	1000	200	ug/l	500	1980	86	70-130			*MHA*
Iron	19100	4.0	1.5	mg/l	0.500	19000	8290	70-130			*MHA*
Magnesium	258	2.0	N/A	mg/l	2.50	256	57	70-130			*MHA*
Manganese	90700	2000	700	ug/l	500	90600	11	70-130			*MHA*
Nickel	5520	1000	200	ug/l	500	5010	101	70-130			*MHA*
Vanadium	906	1000	300	ug/l	500	477	86	70-130			*Ja*
Zinc	24100	2000	600	ug/l	500	24000	18	70-130			*M2*

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METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1807 Extracted: 02/15/10											
Matrix Spike Dup Analyzed: 02/16/2010 (10B1807-MSD1)						**Source: ITB0980-01**					
Arsenic	524	10	7.0	ug/l	500	ND	105	70-130	0.4	20	
Barium	0.503	0.010	0.0060	mg/l	0.500	ND	101	70-130	2	20	
Beryllium	503	2.0	0.90	ug/l	500	0.967	100	70-130	0.4	20	
Boron	0.532	0.050	0.020	mg/l	0.500	0.0262	101	70-130	1	20	
Calcium	5.71	0.10	N/A	mg/l	2.50	3.23	99	70-130	0.3	20	
Chromium	487	5.0	2.0	ug/l	500	ND	97	70-130	0.7	20	
Cobalt	479	10	2.0	ug/l	500	ND	96	70-130	0.2	20	
Iron	0.546	0.040	0.015	mg/l	0.500	0.0466	100	70-130	1	20	
Magnesium	2.76	0.020	N/A	mg/l	2.50	0.285	99	70-130	0.3	20	
Manganese	492	20	7.0	ug/l	500	ND	98	70-130	0.2	20	
Nickel	493	10	2.0	ug/l	500	2.57	98	70-130	0.2	20	
Vanadium	490	10	3.0	ug/l	500	3.29	97	70-130	0.1	20	
Zinc	527	20	6.0	ug/l	500	34.0	99	70-130	0.4	20	
Batch: 10B1943 Extracted: 02/16/10											
Blank Analyzed: 02/16/2010 (10B1943-BLK1)											
Mercury	ND	0.20	N/A	ug/l							
LCS Analyzed: 02/16/2010 (10B1943-BS1)											
Mercury	7.80	0.20	N/A	ug/l	8.00		97	85-115			
Matrix Spike Analyzed: 02/16/2010 (10B1943-MS1)						**Source: ITB0895-01**					
Mercury	7.69	0.20	N/A	ug/l	8.00	ND	96	70-130			
Matrix Spike Dup Analyzed: 02/16/2010 (10B1943-MSD1)						**Source: ITB0895-01**					
Mercury	7.91	0.20	N/A	ug/l	8.00	ND	99	70-130	3	20	

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Project ID: Annual Outfall 018
Report Number: ITB0889

Sampled: 02/06/10-02/07/10
Received: 02/06/10

METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1845 Extracted: 02/15/10											
Blank Analyzed: 02/16/2010 (10B1845-BLK1)											
Antimony	ND	2.0	0.30	ug/l							
Cadmium	ND	1.0	0.10	ug/l							
Lead	ND	1.0	0.20	ug/l							
Selenium	ND	2.0	0.50	ug/l							
Silver	ND	1.0	0.10	ug/l							
Thallium	ND	1.0	0.20	ug/l							
LCS Analyzed: 02/16/2010 (10B1845-BS1)											
Antimony	81.7	2.0	0.30	ug/l	80.0		102	85-115			
Cadmium	81.8	1.0	0.10	ug/l	80.0		102	85-115			
Lead	84.1	1.0	0.20	ug/l	80.0		105	85-115			
Selenium	82.4	2.0	0.50	ug/l	80.0		103	85-115			
Silver	84.4	1.0	0.10	ug/l	80.0		105	85-115			
Thallium	87.0	1.0	0.20	ug/l	80.0		109	85-115			
Matrix Spike Analyzed: 02/16/2010 (10B1845-MS1)						**Source: ITB1082-03**					
Antimony	82.8	20	3.0	ug/l	80.0	ND	103	70-130			
Cadmium	81.7	10	1.0	ug/l	80.0	1.14	101	70-130			
Lead	74.3	10	2.0	ug/l	80.0	ND	93	70-130			
Selenium	88.1	20	5.0	ug/l	80.0	10.3	97	70-130			
Silver	82.2	10	1.0	ug/l	80.0	ND	103	70-130			
Thallium	78.4	10	2.0	ug/l	80.0	ND	98	70-130			
Matrix Spike Analyzed: 02/16/2010 (10B1845-MS2)						**Source: ITB0888-01**					
Antimony	86.1	2.0	0.30	ug/l	80.0	ND	108	70-130			
Cadmium	83.4	1.0	0.10	ug/l	80.0	ND	104	70-130			
Lead	78.5	1.0	0.20	ug/l	80.0	ND	98	70-130			
Selenium	83.6	2.0	0.50	ug/l	80.0	0.511	104	70-130			
Silver	82.6	1.0	0.10	ug/l	80.0	ND	103	70-130			
Thallium	85.5	1.0	0.20	ug/l	80.0	ND	107	70-130			

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Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1845 Extracted: 02/15/10											
Matrix Spike Dup Analyzed: 02/16/2010 (10B1845-MSD1)						**Source: ITB1082-03**					
Antimony	85.7	20	3.0	ug/l	80.0	ND	107	70-130	4	20	
Cadmium	84.8	10	1.0	ug/l	80.0	1.14	105	70-130	4	20	
Lead	76.5	10	2.0	ug/l	80.0	ND	96	70-130	3	20	
Selenium	93.5	20	5.0	ug/l	80.0	10.3	104	70-130	6	20	
Silver	84.5	10	1.0	ug/l	80.0	ND	106	70-130	3	20	
Thallium	80.8	10	2.0	ug/l	80.0	ND	101	70-130	3	20	
Batch: 10B1846 Extracted: 02/15/10											
Blank Analyzed: 02/16/2010 (10B1846-BLK1)											
Arsenic	ND	10	7.0	ug/l							
Barium	ND	0.010	0.0060	mg/l							
Beryllium	ND	2.0	0.90	ug/l							
Boron	0.0453	0.050	0.020	mg/l							*Ja*
Calcium	0.0573	0.10	0.050	mg/l							*Ja*
Cobalt	ND	10	2.0	ug/l							
Iron	0.0219	0.040	0.015	mg/l							*Ja*
Magnesium	0.0150	0.020	0.012	mg/l							*Ja*
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Vanadium	ND	10	3.0	ug/l							
Zinc	ND	20	6.0	ug/l							
LCS Analyzed: 02/16/2010 (10B1846-BS1)											
Arsenic	521	10	7.0	ug/l	500		104	85-115			
Barium	0.489	0.010	0.0060	mg/l	0.500		98	85-115			
Beryllium	486	2.0	0.90	ug/l	500		97	85-115			
Boron	0.521	0.050	0.020	mg/l	0.500		104	85-115			
Calcium	2.42	0.10	0.050	mg/l	2.50		97	85-115			
Cobalt	461	10	2.0	ug/l	500		92	85-115			
Iron	0.499	0.040	0.015	mg/l	0.500		100	85-115			
Magnesium	2.42	0.020	0.012	mg/l	2.50		97	85-115			
Manganese	481	20	7.0	ug/l	500		96	85-115			
Nickel	480	10	2.0	ug/l	500		96	85-115			
Vanadium	489	10	3.0	ug/l	500		98	85-115			
Zinc	499	20	6.0	ug/l	500		100	85-115			

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Batch: 10B1846 Extracted: 02/15/10											
Matrix Spike Analyzed: 02/16/2010 (10B1846-MS1)						**Source: ITB0895-01**					
Arsenic	543	10	7.0	ug/l	500	ND	109	70-130			
Barium	0.525	0.010	0.0060	mg/l	0.500	0.0235	100	70-130			
Beryllium	503	2.0	0.90	ug/l	500	ND	101	70-130			
Boron	0.617	0.050	0.020	mg/l	0.500	0.110	102	70-130			
Calcium	28.3	0.10	0.050	mg/l	2.50	24.7	144	70-130			*MHA*
Cobalt	468	10	2.0	ug/l	500	ND	94	70-130			
Iron	0.567	0.040	0.015	mg/l	0.500	ND	113	70-130			
Magnesium	7.76	0.020	0.012	mg/l	2.50	4.98	111	70-130			
Manganese	686	20	7.0	ug/l	500	190	99	70-130			
Nickel	488	10	2.0	ug/l	500	ND	98	70-130			
Vanadium	500	10	3.0	ug/l	500	ND	100	70-130			
Zinc	523	20	6.0	ug/l	500	12.7	102	70-130			
Matrix Spike Analyzed: 02/16/2010 (10B1846-MS2)						**Source: ITB0887-04**					
Arsenic	510	10	7.0	ug/l	500	ND	102	70-130			
Barium	0.496	0.010	0.0060	mg/l	0.500	0.0149	96	70-130			
Beryllium	481	2.0	0.90	ug/l	500	ND	96	70-130			
Boron	0.549	0.050	0.020	mg/l	0.500	0.0701	96	70-130			
Calcium	13.1	0.10	0.050	mg/l	2.50	11.0	84	70-130			*MHA*
Cobalt	453	10	2.0	ug/l	500	ND	91	70-130			
Iron	1.16	0.040	0.015	mg/l	0.500	0.642	104	70-130			
Magnesium	5.35	0.020	0.012	mg/l	2.50	3.23	85	70-130			
Manganese	477	20	7.0	ug/l	500	ND	95	70-130			
Nickel	465	10	2.0	ug/l	500	ND	93	70-130			
Vanadium	486	10	3.0	ug/l	500	ND	97	70-130			
Zinc	497	20	6.0	ug/l	500	10.3	97	70-130			
Matrix Spike Dup Analyzed: 02/16/2010 (10B1846-MSD1)						**Source: ITB0895-01**					
Arsenic	534	10	7.0	ug/l	500	ND	107	70-130	2	20	
Barium	0.502	0.010	0.0060	mg/l	0.500	0.0235	96	70-130	4	20	
Beryllium	480	2.0	0.90	ug/l	500	ND	96	70-130	5	20	
Boron	0.599	0.050	0.020	mg/l	0.500	0.110	98	70-130	3	20	
Calcium	27.1	0.10	0.050	mg/l	2.50	24.7	96	70-130	4	20	*MHA*
Cobalt	455	10	2.0	ug/l	500	ND	91	70-130	3	20	
Iron	0.509	0.040	0.015	mg/l	0.500	ND	102	70-130	11	20	
Magnesium	7.37	0.020	0.012	mg/l	2.50	4.98	96	70-130	5	20	

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DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1846 Extracted: 02/15/10											
Matrix Spike Dup Analyzed: 02/16/2010 (10B1846-MSD1)						**Source: ITB0895-01**					
Manganese	658	20	7.0	ug/l	500	190	94	70-130	4	20	
Nickel	472	10	2.0	ug/l	500	ND	94	70-130	3	20	
Vanadium	480	10	3.0	ug/l	500	ND	96	70-130	4	20	
Zinc	510	20	6.0	ug/l	500	12.7	99	70-130	3	20	
Batch: 10B1953 Extracted: 02/16/10											
Blank Analyzed: 02/16/2010 (10B1953-BLK1)											
Mercury	ND	0.20	0.10	ug/l							
LCS Analyzed: 02/16/2010 (10B1953-BS1)											
Mercury	8.15	0.20	0.10	ug/l	8.00		102	85-115			
Matrix Spike Analyzed: 02/16/2010 (10B1953-MS1)						**Source: ITB0907-01**					
Mercury	7.43	0.20	0.10	ug/l	8.00	ND	93	70-130			
Matrix Spike Dup Analyzed: 02/16/2010 (10B1953-MSD1)						**Source: ITB0907-01**					
Mercury	7.66	0.20	0.10	ug/l	8.00	ND	96	70-130	3	20	
Batch: 10B2106 Extracted: 02/17/10											
Blank Analyzed: 02/17/2010 (10B2106-BLK1)											
Copper	ND	2.0	0.50	ug/l							
LCS Analyzed: 02/17/2010 (10B2106-BS1)											
Copper	77.6	2.0	0.50	ug/l	80.0		97	85-115			

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DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B2106 Extracted: 02/17/10											
Matrix Spike Analyzed: 02/17/2010 (10B2106-MS1)						**Source: ITB1775-07**					
Copper	76.0	2.0	0.50	ug/l	80.0	2.19	92	70-130			
Matrix Spike Dup Analyzed: 02/17/2010 (10B2106-MSD1)						**Source: ITB1775-07**					
Copper	77.2	2.0	0.50	ug/l	80.0	2.19	94	70-130	2	20	

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DISSOLVED INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B0756 Extracted: 02/06/10											
Blank Analyzed: 02/06/2010 (10B0756-BLK1)											
Chromium VI	ND	1.0	0.25	ug/l							
LCS Analyzed: 02/06/2010 (10B0756-BS1)											
Chromium VI	4.95	1.0	0.25	ug/l	5.00		99	90-110			
Matrix Spike Analyzed: 02/06/2010 (10B0756-MS1)						**Source: ITB0889-01**					
Chromium VI	4.80	1.0	0.25	ug/l	5.00	ND	96	90-110			
Matrix Spike Dup Analyzed: 02/06/2010 (10B0756-MSD1)						**Source: ITB0889-01**					
Chromium VI	4.91	1.0	0.25	ug/l	5.00	ND	98	90-110	2	10	

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B0814 Extracted: 02/08/10											
Blank Analyzed: 02/08/2010 (10B0814-BLK1)											
Fluoride	0.0335	0.10	0.020	mg/l							*Ja*
LCS Analyzed: 02/08/2010 (10B0814-BS1)											
Fluoride	1.04	0.10	0.020	mg/l	1.00		104	90-110			
Matrix Spike Analyzed: 02/08/2010 (10B0814-MS1)						**Source: ITB0610-01**					
Fluoride	1.48	0.10	0.020	mg/l	1.00	0.481	100	80-120			
Matrix Spike Dup Analyzed: 02/08/2010 (10B0814-MSD1)						**Source: ITB0610-01**					
Fluoride	1.50	0.10	0.020	mg/l	1.00	0.481	101	80-120	1	20	
Batch: 10B0856 Extracted: 02/08/10											
Blank Analyzed: 02/08/2010 (10B0856-BLK1)											
Chloride	ND	0.50	0.25	mg/l							
Nitrate-N	ND	0.11	0.060	mg/l							
Nitrite-N	ND	0.15	0.090	mg/l							
Nitrate/Nitrite-N	ND	0.26	0.15	mg/l							
Sulfate	ND	0.50	0.20	mg/l							
LCS Analyzed: 02/08/2010 (10B0856-BS1)											
Chloride	4.73	0.50	0.25	mg/l	5.00		95	90-110			*M-3*
Nitrate-N	1.05	0.11	0.060	mg/l	1.13		93	90-110			
Nitrite-N	1.44	0.15	0.090	mg/l	1.52		94	90-110			
Sulfate	9.84	0.50	0.20	mg/l	10.0		98	90-110			*M-3*
Matrix Spike Analyzed: 02/08/2010 (10B0856-MS1)						**Source: ITB0894-01**					
Chloride	11.2	0.50	0.25	mg/l	5.00	5.65	112	80-120			
Nitrate-N	2.01	0.11	0.060	mg/l	1.13	0.816	105	80-120			
Nitrite-N	1.53	0.15	0.090	mg/l	1.52	ND	101	80-120			
Sulfate	23.8	0.50	0.20	mg/l	10.0	12.8	110	80-120			

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B0856 Extracted: 02/08/10											
Matrix Spike Analyzed: 02/09/2010 (10B0856-MS2)						**Source: ITB0963-03**					
Nitrate-N	1.47	0.11	0.060	mg/l	1.13	0.349	99	80-120			
Nitrite-N	1.90	0.15	0.090	mg/l	1.52	0.298	105	80-120			
Matrix Spike Dup Analyzed: 02/08/2010 (10B0856-MSD1)						**Source: ITB0894-01**					
Chloride	11.2	0.50	0.25	mg/l	5.00	5.65	111	80-120	0.5	20	
Nitrate-N	1.99	0.11	0.060	mg/l	1.13	0.816	104	80-120	0.9	20	
Nitrite-N	1.52	0.15	0.090	mg/l	1.52	ND	100	80-120	0.5	20	
Sulfate	23.6	0.50	0.20	mg/l	10.0	12.8	108	80-120	0.6	20	
Batch: 10B0912 Extracted: 02/08/10											
Blank Analyzed: 02/13/2010 (10B0912-BLK1)											
Biochemical Oxygen Demand	ND	2.0	0.50	mg/l							
LCS Analyzed: 02/13/2010 (10B0912-BS1)											
Biochemical Oxygen Demand	208	100	25	mg/l	198		105	85-115			
LCS Dup Analyzed: 02/13/2010 (10B0912-BSD1)											
Biochemical Oxygen Demand	208	100	25	mg/l	198		105	85-115	0.2	20	
Batch: 10B0951 Extracted: 02/08/10											
Blank Analyzed: 02/08/2010 (10B0951-BLK1)											
Surfactants (MBAS)	ND	0.10	0.025	mg/l							
LCS Analyzed: 02/08/2010 (10B0951-BS1)											
Surfactants (MBAS)	0.255	0.10	0.025	mg/l	0.250		102	90-110			

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Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B0951 Extracted: 02/08/10											
Matrix Spike Analyzed: 02/08/2010 (10B0951-MS1)						**Source: ITB0896-01**					
Surfactants (MBAS)	0.287	0.10	0.025	mg/l	0.250	0.0423	98	50-125			
Matrix Spike Dup Analyzed: 02/08/2010 (10B0951-MSD1)						**Source: ITB0896-01**					
Surfactants (MBAS)	0.298	0.10	0.025	mg/l	0.250	0.0423	102	50-125	4	20	
Batch: 10B1015 Extracted: 02/08/10											
Blank Analyzed: 02/08/2010 (10B1015-BLK1)											
Turbidity	ND	1.0	0.040	NTU							
Duplicate Analyzed: 02/08/2010 (10B1015-DUP1)						**Source: ITB0895-01**					
Turbidity	0.110	1.0	0.040	NTU		0.100			10	20	*Ja*
Batch: 10B1155 Extracted: 02/10/10											
Blank Analyzed: 02/10/2010 (10B1155-BLK1)											
Specific Conductance	ND	1.0	1.0	umhos/cm							
LCS Analyzed: 02/10/2010 (10B1155-BS1)											
Specific Conductance	1460	1.0	1.0	umhos/cm	1410		103	90-110			
Duplicate Analyzed: 02/10/2010 (10B1155-DUP1)						**Source: ITB0864-01**					
Specific Conductance	156	1.0	1.0	umhos/cm		155			0.5	5	
Batch: 10B1250 Extracted: 02/10/10											
Blank Analyzed: 02/10/2010 (10B1250-BLK1)											
Total Cyanide	ND	5.0	2.2	ug/l							

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1250 Extracted: 02/10/10											
LCS Analyzed: 02/10/2010 (10B1250-BS1)											
Total Cyanide	190	5.0	2.2	ug/l	200		95	90-110			
Matrix Spike Analyzed: 02/10/2010 (10B1250-MS1)						**Source: ITB0359-02**					
Total Cyanide	187	5.0	2.2	ug/l	200	ND	94	70-115			
Matrix Spike Dup Analyzed: 02/10/2010 (10B1250-MSD1)						**Source: ITB0359-02**					
Total Cyanide	182	5.0	2.2	ug/l	200	ND	91	70-115	3	15	
Batch: 10B1284 Extracted: 02/11/10											
Blank Analyzed: 02/11/2010 (10B1284-BLK1)											
Total Organic Carbon	ND	1.0	0.50	mg/l							
LCS Analyzed: 02/11/2010 (10B1284-BS1)											
Total Organic Carbon	10.0	1.0	0.50	mg/l	10.0		100	90-110			
Matrix Spike Analyzed: 02/11/2010 (10B1284-MS1)						**Source: ITB1082-01**					
Total Organic Carbon	9.13	1.0	0.50	mg/l	5.00	4.47	93	80-120			
Matrix Spike Dup Analyzed: 02/11/2010 (10B1284-MSD1)						**Source: ITB1082-01**					
Total Organic Carbon	9.43	1.0	0.50	mg/l	5.00	4.47	99	80-120	3	20	
Batch: 10B1487 Extracted: 02/12/10											
Blank Analyzed: 02/12/2010 (10B1487-BLK1)											
Total Dissolved Solids	ND	10	1.0	mg/l							

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Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1487 Extracted: 02/12/10											
LCS Analyzed: 02/12/2010 (10B1487-BS1)											
Total Dissolved Solids	1010	10	1.0	mg/l	1000		101	90-110			
Duplicate Analyzed: 02/12/2010 (10B1487-DUP1)						**Source: ITB1082-01**					
Total Dissolved Solids	2140	10	1.0	mg/l		2150			0.7	10	
Batch: 10B1575 Extracted: 02/12/10											
Blank Analyzed: 02/12/2010 (10B1575-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.50	mg/l							
LCS Analyzed: 02/12/2010 (10B1575-BS1)											
Ammonia-N (Distilled)	10.6	0.50	0.50	mg/l	10.0		106	80-115			
Matrix Spike Analyzed: 02/12/2010 (10B1575-MS1)						**Source: ITB0887-04**					
Ammonia-N (Distilled)	11.2	0.50	0.50	mg/l	10.0	0.560	106	70-120			
Matrix Spike Dup Analyzed: 02/12/2010 (10B1575-MSD1)						**Source: ITB0887-04**					
Ammonia-N (Distilled)	11.5	0.50	0.50	mg/l	10.0	0.560	109	70-120	2	15	
Batch: 10B1648 Extracted: 02/12/10											
Blank Analyzed: 02/12/2010 (10B1648-BLK1)											
Total Suspended Solids	ND	10	1.0	mg/l							
LCS Analyzed: 02/12/2010 (10B1648-BS1)											
Total Suspended Solids	1000	10	1.0	mg/l	1000		100	85-115			

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1648 Extracted: 02/12/10											
Duplicate Analyzed: 02/12/2010 (10B1648-DUP1)						**Source: ITB1069-01**					
Total Suspended Solids	35.0	10	1.0	mg/l		36.0			3	10	
Batch: 10B1658 Extracted: 02/13/10											
Blank Analyzed: 02/13/2010 (10B1658-BLK1)											
Perchlorate	ND	4.0	0.90	ug/l							
LCS Analyzed: 02/13/2010 (10B1658-BS1)											
Perchlorate	24.4	4.0	0.90	ug/l	25.0		98	85-115			
Matrix Spike Analyzed: 02/13/2010 (10B1658-MS1)						**Source: ITB1511-01**					
Perchlorate	24.6	4.0	0.90	ug/l	25.0	1.91	91	80-120			
Matrix Spike Dup Analyzed: 02/13/2010 (10B1658-MSD1)						**Source: ITB1511-01**					
Perchlorate	24.7	4.0	0.90	ug/l	25.0	1.91	91	80-120	0.2	20	

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METHOD BLANK/QC DATA

ASTM 5174-91

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 53280 Extracted: 02/23/10											
Matrix Spike Dup Analyzed: 02/26/2010 (F0B090470001D)						**Source: F0B090470001**					
Total Uranium	30	1.4	0.4	pCi/L	27.7	0.566	106	62-150	1	20	
Matrix Spike Analyzed: 02/26/2010 (F0B090470001S)						**Source: F0B090470001**					
Total Uranium	29.7	1.4	0.4	pCi/L	27.7	0.566	105	62-150			
Blank Analyzed: 02/26/2010 (F0B220000280B)						**Source:**					
Total Uranium	0.046	0.693	0.21	pCi/L				-			*U*
LCS Analyzed: 02/26/2010 (F0B220000280C)						**Source:**					
Total Uranium	30.2	0.7	0.2	pCi/L	27.7		109	90-120			

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METHOD BLANK/QC DATA

EPA 900.0 MOD

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 43108 Extracted: 02/10/10											
Matrix Spike Analyzed: 02/18/2010 (F0B090470001S)						**Source: F0B090470001**					
Gross Alpha	47.2	3	1	pCi/L	49.4	2	91	35-150			
Gross Beta	79	4	1.5	pCi/L	68	3.9	110	54-150			
Duplicate Analyzed: 02/18/2010 (F0B090470001X)						**Source: F0B090470001**					
Gross Alpha	0.84	3	0.94	pCi/L		2		-			*U*
Gross Beta	3.2	4	1.5	pCi/L		3.9		-			*Jb, U*
Blank Analyzed: 02/19/2010 (F0B120000108B)						**Source:**					
Gross Alpha	-0.28	2	0.87	pCi/L				-			*U , Jb*
Gross Beta	-0.23	4	1.1	pCi/L				-			*U*
LCS Analyzed: 02/19/2010 (F0B120000108C)						**Source:**					
Gross Alpha	34.8	3	1.2	pCi/L	49.4		70	62-134			*U*
Gross Beta	71.6	4	1	pCi/L	68		105	58-133			

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EPA 901.1 MOD

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 42136 Extracted: 02/11/10											
Duplicate Analyzed: 02/19/2010 (F0B090470001X)						**Source: F0B090470001**					
Cesium 137	1.2	20	14	pCi/L		-2.9		-			*U*
Potassium 40	-50	NA	200	pCi/L		-100		-			*U*
Blank Analyzed: 02/19/2010 (F0B110000136B)						**Source:**					
Cesium 137	1.8	20	14	pCi/L				-			*U*
Potassium 40	-80	NA	210	pCi/L				-			*U*
LCS Analyzed: 02/19/2010 (F0B110000136C)						**Source:**					
Americium 241	140000	NA	500	pCi/L	141000		99	87-110			*U*
Cobalt 60	88000	NA	200	pCi/L	87900		100	89-110			
Cesium 137	52900	20	200	pCi/L	53100		100	90-110			

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METHOD BLANK/QC DATA

EPA 903.0 MOD

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 41160 Extracted: 02/10/10											
Duplicate Analyzed: 02/26/2010 (F0B090467001X)						**Source: F0B090467001**					
Radium (226)	0.07	1	0.29	pCi/L		0.089		-			*U*
Blank Analyzed: 02/26/2010 (F0B100000160B)						**Source:**					
Radium (226)	0.092	1	0.14	pCi/L				-			*U*
LCS Analyzed: 02/26/2010 (F0B100000160C)						**Source:**					
Radium (226)	10.4	1	0.2	pCi/L	11.3		93	68-136			*U*

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METHOD BLANK/QC DATA

EPA 904 MOD

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 60257 Extracted: 03/01/10											
Blank Analyzed: 03/05/2010 (F0C010000257B)						**Source:**					
Radium 228	0.08	1	0.39	pCi/L				-			*U*
LCS Analyzed: 03/05/2010 (F0C010000257C)						**Source:**					
Radium 228	6.23	1	0.39	pCi/L	6.4		97	60-142			*U*
LCS Dup Analyzed: 03/05/2010 (F0C010000257L)						**Source:**					
Radium 228	6.35	1	0.4	pCi/L	6.4		99	60-142	2	40	

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METHOD BLANK/QC DATA

EPA 905 MOD

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 41162 Extracted: 02/10/10											
Duplicate Analyzed: 02/19/2010 (F0B090475001X)						**Source: F0B090475001**					
Strontium 90	-0.15	3	0.42	pCi/L		-0.05		-			*U*
Blank Analyzed: 02/19/2010 (F0B100000162B)						**Source:**					
Strontium 90	-0.15	3	0.38	pCi/L				-			*U*
LCS Analyzed: 02/19/2010 (F0B100000162C)						**Source:**					
Strontium 90	6.82	3	0.34	pCi/L	6.8		100	80-130			*U*

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METHOD BLANK/QC DATA

EPA 906.0 MOD

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 49035 Extracted: 02/18/10											
Duplicate Analyzed: 02/18/2010 (F0B090470001X)						**Source: F0B090470001**					
Tritium	80	500	92	pCi/L		114		-			*U*
Matrix Spike Analyzed: 02/18/2010 (F0B090473001S)						**Source: F0B090473001**					
Tritium	4650	500	90	pCi/L	4530	122	100	62-147			*U*
Blank Analyzed: 02/18/2010 (F0B180000035B)						**Source:**					
Tritium	165	500	95	pCi/L				-			*Jb*
LCS Analyzed: 02/18/2010 (F0B180000035C)						**Source:**					
Tritium	4440	500	90	pCi/L	4530		98	85-112			*Jb*

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EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 60222 Extracted: 03/01/10											
Blank Analyzed: 03/02/2010 (G0C010000222B)						**Source:**					
1,2,3,4,6,7,8-HpCDD	0.000003	0.00005	0.0000008	ug/L				-			*J*
1,2,3,4,6,7,8-HpCDF	0.000002	0.00005	0.00000072	ug/L				-			*J, Q*
1,2,3,4,7,8,9-HpCDF	0.000001	0.00005	0.0000012	ug/L				-			*J, Q*
1,2,3,4,7,8-HxCDD	0.00000091	0.00005	0.00000062	ug/L				-			*J, Q*
1,2,3,4,7,8-HxCDF	0.0000012	0.00005	0.00000002	ug/L				-			*J, Q*
1,2,3,6,7,8-HxCDD	0.0000013	0.00005	0.00000053	ug/L				-			*J*
1,2,3,6,7,8-HxCDF	0.00000092	0.00005	0.00000002	ug/L				-			*J*
1,2,3,7,8,9-HxCDD	0.0000012	0.00005	0.00000051	ug/L				-			*J*
1,2,3,7,8,9-HxCDF	0.000001	0.00005	0.00000002	ug/L				-			*J, Q*
1,2,3,7,8-PeCDD	ND	0.00005	0.00000056	ug/L				-			
1,2,3,7,8-PeCDF	0.00000043	0.00005	0.00000006	ug/L				-			*J, Q*
2,3,4,6,7,8-HxCDF	0.000001	0.00005	0.00000002	ug/L				-			*J*
2,3,4,7,8-PeCDF	0.00000072	0.00005	0.00000006	ug/L				-			*J, Q*
2,3,7,8-TCDD	ND	0.00001	0.00000037	ug/L				-			
2,3,7,8-TCDF	ND	0.00001	0.00000031	ug/L				-			
OCDD	0.0000077	0.0001	0.0000012	ug/L				-			*J*
OCDF	0.0000031	0.0001	0.0000008	ug/L				-			*J*
Total HpCDD	0.0000051	0.00005	0.0000008	ug/L				-			*J*
Total HpCDF	0.000003	0.00005	0.00000072	ug/L				-			*J, Q*
Total HxCDD	0.000004	0.00005	0.00000051	ug/L				-			*J, Q*
Total HxCDF	0.0000042	0.00005	0.00000002	ug/L				-			*J, Q*
Total PeCDD	0.0000017	0.00005	0.00000056	ug/L				-			*J, Q*
Total PeCDF	0.0000012	0.00005	0.00000004	ug/L				-			*J, Q*
Total TCDD	ND	0.00001	0.00000037	ug/L				-			
Total TCDF	ND	0.00001	0.00000031	ug/L				-			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	*0.0019*			*ug/L*	*0.002*		*93*	*23-140*			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	*0.0017*			*ug/L*	*0.002*		*87*	*28-143*			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	*0.0016*			*ug/L*	*0.002*		*82*	*26-138*			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	*0.0016*			*ug/L*	*0.002*		*80*	*32-141*			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	*0.0016*			*ug/L*	*0.002*		*79*	*26-152*			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	*0.0017*			*ug/L*	*0.002*		*83*	*28-130*			
Surrogate: 13C-1,2,3,6,7,8-HxCDF	*0.0016*			*ug/L*	*0.002*		*80*	*26-123*			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	*0.0017*			*ug/L*	*0.002*		*83*	*29-147*			
Surrogate: 13C-1,2,3,7,8-PeCDD	*0.0016*			*ug/L*	*0.002*		*80*	*25-181*			
Surrogate: 13C-1,2,3,7,8-PeCDF	*0.0015*			*ug/L*	*0.002*		*76*	*24-185*			

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EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 60222 Extracted: 03/01/10											
Blank Analyzed: 03/02/2010 (G0C010000222B)						**Source:**					
Surrogate: 13C-2,3,4,6,7,8-HxCDF	*0.0017*			*ug/L*	*0.002*		*83*	*28-136*			
Surrogate: 13C-2,3,4,7,8-PeCDF	*0.0015*			*ug/L*	*0.002*		*73*	*21-178*			
Surrogate: 13C-2,3,7,8-TCDD	*0.0016*			*ug/L*	*0.002*		*80*	*25-164*			
Surrogate: 13C-2,3,7,8-TCDF	*0.0015*			*ug/L*	*0.002*		*76*	*24-169*			
Surrogate: 13C-OCDD	*0.0037*			*ug/L*	*0.004*		*92*	*17-157*			
Surrogate: 37Cl4-2,3,7,8-TCDD	*0.00071*			*ug/L*	*0.0008*		*89*	*35-197*			
LCS Analyzed: 03/02/2010 (G0C010000222C)						**Source:**					
1,2,3,4,6,7,8-HpCDD	0.000995	0.00005	0.0000019	ug/L	0.001		100	70-140			
1,2,3,4,6,7,8-HpCDF	0.00101	0.00005	0.0000041	ug/L	0.001		101	82-122			
1,2,3,4,7,8,9-HpCDF	0.00105	0.00005	0.0000064	ug/L	0.001		105	78-138			
1,2,3,4,7,8-HxCDD	0.00102	0.00005	0.0000006	ug/L	0.001		102	70-164			
1,2,3,4,7,8-HxCDF	0.00108	0.00005	0.00000042	ug/L	0.001		108	72-134			
1,2,3,6,7,8-HxCDD	0.00094	0.00005	0.00000052	ug/L	0.001		94	76-134			
1,2,3,6,7,8-HxCDF	0.00105	0.00005	0.00000038	ug/L	0.001		105	84-130			
1,2,3,7,8,9-HxCDD	0.000975	0.00005	0.0000005	ug/L	0.001		97	64-162			
1,2,3,7,8,9-HxCDF	0.00103	0.00005	0.00000045	ug/L	0.001		103	78-130			
1,2,3,7,8-PeCDD	0.000984	0.00005	0.0000023	ug/L	0.001		98	70-142			
1,2,3,7,8-PeCDF	0.00105	0.00005	0.0000027	ug/L	0.001		105	80-134			
2,3,4,6,7,8-HxCDF	0.00105	0.00005	0.00000038	ug/L	0.001		105	70-156			
2,3,4,7,8-PeCDF	0.00108	0.00005	0.0000032	ug/L	0.001		108	68-160			
2,3,7,8-TCDD	0.000192	0.00001	0.00000037	ug/L	0.0002		96	67-158			
2,3,7,8-TCDF	0.000193	0.00001	0.0000001	ug/L	0.0002		97	75-158			
OCDD	0.00198	0.0001	0.0000027	ug/L	0.002		99	78-144			
OCDF	0.0019	0.0001	0.0000016	ug/L	0.002		95	63-170			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	*0.0018*			*ug/L*	*0.002*		*90*	*26-166*			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	*0.00176*			*ug/L*	*0.002*		*88*	*21-158*			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	*0.00165*			*ug/L*	*0.002*		*83*	*20-186*			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	*0.00175*			*ug/L*	*0.002*		*88*	*21-193*			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	*0.00164*			*ug/L*	*0.002*		*82*	*19-202*			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	*0.00157*			*ug/L*	*0.002*		*78*	*25-163*			
Surrogate: 13C-1,2,3,6,7,8-HxCDF	*0.00155*			*ug/L*	*0.002*		*77*	*21-159*			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	*0.00165*			*ug/L*	*0.002*		*82*	*17-205*			
Surrogate: 13C-1,2,3,7,8-PeCDD	*0.00155*			*ug/L*	*0.002*		*77*	*21-227*			
Surrogate: 13C-1,2,3,7,8-PeCDF	*0.00148*			*ug/L*	*0.002*		*74*	*21-192*			
Surrogate: 13C-2,3,4,6,7,8-HxCDF	*0.00164*			*ug/L*	*0.002*		*82*	*22-176*			

TestAmerica Irvine

Aaron Harris For Heather Clark
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

MWH-Pasadena/Boeing
618 Michillinda Avenue, Suite 200
Arcadia, CA 91007
Attention: Bronwyn Kelly

Project ID: Annual Outfall 018
Report Number: ITB0889

Sampled: 02/06/10-02/07/10
Received: 02/06/10

METHOD BLANK/QC DATA

EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 60222 Extracted: 03/01/10											
LCS Analyzed: 03/02/2010 (G0C010000222C)						**Source:**					
Surrogate: 13C-2,3,4,7,8-PeCDF	*0.00146*			*ug/L*	*0.002*		*73*	*13-328*			
Surrogate: 13C-2,3,7,8-TCDD	*0.00151*			*ug/L*	*0.002*		*75*	*20-175*			
Surrogate: 13C-2,3,7,8-TCDF	*0.00148*			*ug/L*	*0.002*		*74*	*22-152*			
Surrogate: 13C-OCDD	*0.00361*			*ug/L*	*0.004*		*90*	*13-199*			
Surrogate: 37Cl4-2,3,7,8-TCDD	*0.000721*			*ug/L*	*0.0008*		*90*	*31-191*			

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Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits appear in bold on this page.

LabNumber	Analysis	Analyte	Units	Result	MRL	Compliance Limit
ITB0889-01	1664-HEM	Hexane Extractable Material (Oil & Greas	mg/l	0.095	4.8	15
ITB0889-01	624-Boeing 001/002Q (Fr113+X+Fr	1,1-Dichloroethene	ug/l	0	0.50	6
ITB0889-01	624-Boeing 001/002Q (Fr113+X+Fr	Trichloroethene	ug/l	0	0.50	5
ITB0889-01	8015B-DRO (C13-C28)-LL	DRO (C13 - C28)	ug/l	24	94	100
ITB0889-01	Chromium VI-218.6	Chromium VI	ug/l	0.052	1.0	16
ITB0889-01	Cyanide, Total-4500CN-E (5ppb)	Total Cyanide	ug/l	-2	5.0	8.5
ITB0889-01	Settleable Solids - SM2540F	Total Settleable Solids	ml/l	0	0.10	0.3

Compliance Check

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LabNumber	Analysis	Analyte	Units	Result	MRL	Compliance Limit
ITB0889-02	624-Boeing 001/002Q (Fr113+X+Fr	1,1-Dichloroethene	ug/l	0	0.50	6
ITB0889-02	624-Boeing 001/002Q (Fr113+X+Fr	Trichloroethene	ug/l	0	0.50	5

Compliance Check

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LabNumber	Analysis	Analyte	Units	Result	MRL	Compliance Limit
ITB0895-01	608-Pest Boeing 001/002 Q (LL)	alpha-BHC	ug/l	0	0.0094	0.03
ITB0895-01	608-Pesticides (LowRL)	alpha-BHC	ug/l	0	0.0047	0.03
ITB0895-01	625+NDMA, LL	2,4,6-Trichlorophenol	ug/l	0	0.94	13
ITB0895-01	625+NDMA, LL	2,4-Dinitrotoluene	ug/l	0	4.7	18
ITB0895-01	625+NDMA, LL	Bis(2-ethylhexyl)phthalate	ug/l	0.30	4.7	4
ITB0895-01	625+NDMA, LL	N-Nitrosodimethylamine	ug/l	0	1.9	16
ITB0895-01	625+NDMA, LL	Pentachlorophenol	ug/l	0	1.9	16
ITB0895-01	Ammonia-N, Titr 4500NH3-C (w/di	Ammonia-N (Distilled)	mg/l	0	0.50	10
ITB0895-01	Antimony-200.8	Antimony	ug/l	0	2.0	6
ITB0895-01	Arsenic-200.7	Arsenic	ug/l	0.80	10	10
ITB0895-01	Barium-200.7	Barium	mg/l	0.025	0.010	1
ITB0895-01	Beryllium-200.7	Beryllium	ug/l	0.00090	2.0	4
ITB0895-01	BOD - SM5210B	Biochemical Oxygen Demand	mg/l	0.57	2.0	30

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ITB0895-01	Cadmium-200.8	Cadmium	ug/l	0	1.0	3.1
ITB0895-01	Chloride - 300.0	Chloride	mg/l	7.72	0.50	150
ITB0895-01	Chromium-200.7	Chromium	ug/l	0	5.0	16
ITB0895-01	Copper-200.8	Copper	ug/l	0.79	2.0	14
ITB0895-01	Fluoride SM4500F,C	Fluoride	mg/l	0.15	0.10	1.6
ITB0895-01	Iron-200.7	Iron	mg/l	0.0056	0.040	0.3
ITB0895-01	Lead-200.8	Lead	ug/l	0	1.0	5.2
ITB0895-01	**Manganese-200.7**	**Manganese**	**ug/l**	**214**	**20**	**50**
ITB0895-01	MBAS - SM5540-C	Surfactants (MBAS)	mg/l	0.12	0.10	0.5
ITB0895-01	Nickel-200.7	Nickel	ug/l	0.096	10	96
ITB0895-01	Nitrate-N, 300.0	Nitrate-N	mg/l	0.22	0.11	8
ITB0895-01	Nitrite-N, 300.0	Nitrite-N	mg/l	0	0.15	1
ITB0895-01	Nitrogen, NO3+NO2 -N EPA 300.0	Nitrate/Nitrite-N	mg/l	0.22	0.26	8
ITB0895-01	Perchlorate 314.0 - Default	Perchlorate	ug/l	0	4.0	6
ITB0895-01	Selenium-200.8	Selenium	ug/l	0	2.0	5
ITB0895-01	Silver-200.8	Silver	ug/l	0	1.0	4.1
ITB0895-01	Sulfate-300.0	Sulfate	mg/l	105	5.0	300
ITB0895-01	TDS - SM2540C	Total Dissolved Solids	mg/l	198	10	950
ITB0895-01	Thallium-200.8	Thallium	ug/l	0	1.0	2
ITB0895-01	TSS - SM2540D	Total Suspended Solids	mg/l	0	10	45
ITB0895-01	Zinc-200.7	Zinc	ug/l	12	20	120

Compliance Check

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LabNumber	Analysis	Analyte	Units	Result	MRL	Compliance Limit

TestAmerica Irvine

Aaron Harris For Heather Clark
Project Manager

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Project ID: Annual Outfall 018
Report Number: ITB0889

Sampled: 02/06/10-02/07/10
Received: 02/06/10

DATA QUALIFIERS AND DEFINITIONS

B	Analyte was detected in the associated Method Blank.
Ba	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
C	Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.
J	Estimated result. Result is less than the reporting limit.
Ja	Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
Jb	Result is greater than sample detection limit but less than stated reporting limit.
L2	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was below acceptance limits.
M1	The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
M2	The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
M-3	Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the Blank Spike (LCS).
MHA	Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
MNR1	There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
Q	Estimated maximum possible concentration (EMPC).
R-2	The RPD exceeded the acceptance limit.
R-7	LFB/LFBD RPD exceeded the acceptance limit. Recovery met acceptance criteria.
U	Result is less than the sample detection limit.
Z2	Surrogate recovery was above the acceptance limits. Data not impacted.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

ADDITIONAL COMMENTS

For 1,2-Diphenylhydrazine:

The result for 1,2-Diphenylhydrazine is based upon the reading of its breakdown product, Azobenzene.

For GRO (C4-C12):

GRO (C4-C12) is quantitated against a gasoline standard. Quantitation begins immediately following the methanol peak.

For Extractable Fuel Hydrocarbons (EFH, DRO, ORO) :

Unless otherwise noted, Extractable Fuel Hydrocarbons (EFH, DRO, ORO) are quantitated against a Diesel Fuel Standard.

TestAmerica Irvine

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Sampled: 02/06/10-02/07/10
Received: 02/06/10

Certification Summary

TestAmerica Irvine

Method	Matrix	Nelac	California
EDD + Level 4	Water	N/A	N/A
EPA 120.1	Water	X	X
EPA 1664A	Water	X	X
EPA 180.1	Water	X	X
EPA 200.7-Diss	Water	X	X
EPA 200.7	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
EPA 218.6	Water	X	X
EPA 245.1-Diss	Water	X	X
EPA 245.1	Water	X	X
EPA 300.0	Water	X	X
EPA 314.0	Water	X	X
EPA 608	Water	X	X
EPA 624	Water	X	X
EPA 625	Water	X	X
EPA 8015 Mod.	Water	X	X
EPA 8015B	Water	X	X
EPA 8260B-SIM	Water	X	X
Filtration	Water	N/A	N/A
SM 2540D	Water	X	X
SM 4500-F-C	Water	X	X
SM2340B-Diss	Water		
SM2340B	Water	X	X
SM2540C	Water	X	
SM2540F	Water	X	X
SM4500CN-E	Water	X	X
SM4500NH3-C	Water	X	X
SM5210B	Water	X	X
SM5310B	Water	X	X
SM5540-C	Water	X	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

Subcontracted Laboratories

TestAmerica Irvine

Aaron Harris For Heather Clark
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

MWH-Pasadena/Boeing
618 Michillinda Avenue, Suite 200
Arcadia, CA 91007
Attention: Bronwyn Kelly

Project ID: Annual Outfall 018
Report Number: ITB0889

Sampled: 02/06/10-02/07/10
Received: 02/06/10

Aquatic Testing Laboratories-SUB *California Cert #1775*
4350 Transport Street, Unit 107 - Ventura, CA 93003

Analysis Performed: Bioassay-7 dy Chrnic
Samples: ITB0895-01

Analysis Performed: Bioassay-Acute 96hr
Samples: ITB0889-01

Analysis Performed: Level 4 Data Package
Samples: ITB0895-01

TestAmerica Denver
4955 Yarrow Street - Arvada, CO 80002

Analysis Performed: Level 4 Data Package
Samples: ITB0895-01

TestAmerica St. Louis
13715 Rider Trail North - Earth City, MO 63045

Method Performed: ASTM 5174-91
Samples: ITB0895-01

Method Performed: EPA 900.0 MOD
Samples: ITB0895-01

Method Performed: EPA 901.1 MOD
Samples: ITB0895-01

Method Performed: EPA 903.0 MOD
Samples: ITB0895-01

Method Performed: EPA 904 MOD
Samples: ITB0895-01RE1

Method Performed: EPA 905 MOD
Samples: ITB0895-01

Method Performed: EPA 906.0 MOD
Samples: ITB0895-01

TestAmerica West Sacramento
880 Riverside Parkway - West Sacramento, CA 95605

Method Performed: EPA-5 1613B
Samples: ITB0895-01RE1

TestAmerica Irvine

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MWH-Pasadena/Boeing
618 Michillinda Avenue, Suite 200
Arcadia, CA 91007
Attention: Bronwyn Kelly

Project ID: Annual Outfall 018
Report Number: ITB0889

Sampled: 02/06/10-02/07/10
Received: 02/06/10

Truesdail Laboratories-SUB *California Cert #1237*
14201 Franklin Avenue - Tustin, CA 92680

Analysis Performed: Hydrazine
Samples: ITB0895-01

TestAmerica Irvine

Aaron Harris For Heather Clark
Project Manager

CHAIN OF CUSTODY FORM

Client Name/Address:	Project:
MWH-Arcadia 618 Michillinda Ave, Suite 200 Arcadia, CA 91007 Test America Contact: Joseph Doak	Boeing-SSFL NPDES **Annual Outfall 018** **GRAB**
Project Manager: Bronwyn Kelly Sampler: E. WALKER M. Chell	Phone Number: (626) 568-6691 Fax Number: (626) 568-6515

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	VOCs 624 + xylenes + Freon 113, Freon 123A, Cyclohexane + PP	VOCs 624 +A+A+2CVE	Cr (VI) (218.6)	Settleable Solids	Total Residual Chlorine	Oil & Grease (1664-HEM)	Cyanide (total recoverable)	8015 - gas	8015 - diesel/jet fuel	Conductivity	Acute Toxicity				Field readings: (Log in and include in report Temp and pH) Temp °F = 53.6 pH = 7.6 Total Residual Chlorine = 0.02 mg/L Time of readings = 1300 **Comments**
Outfall 018	W	VOAs	5	2/6/10-1300	HCl	1A, 1B, 1C, 1D, 1E	X														
Outfall 018	W	VOAs	3		None	2A, 2B, 2C		X													
Outfall 018	W	500 mL Poly	1		None	3			X												
Outfall 018	W	1L Poly	1		None	4				X											
~~Outfall 018~~	~~W~~	~~150 mL Poly~~	~~1~~		~~None~~	~~5~~					X										
Outfall 018	W	1L Amber	2		HCl	6A, 6B						X									
Outfall 018	W	500 mL Poly	1		NaOH	7							X								
Trip Blanks	W	VOAs	3	2/6/10-0700	HCl	8A, 8B, 8C	X														
Trip Blanks	W	VOAs	3		None	9A, 9B, 9C		X													
Outfall 018	W	VOAs	1	2/6/10-1300	HCl	10A								X							
Outfall 018 Dup	W	VOAs	2		HCl	10B, 10C								X							
Outfall 018	W	1L Amber	1		None	11A									X						
Outfall 018 Dup	W	1L Amber	1		None	11B									X						
Outfall 018	W	500 mL Poly	2		None	12A, 12B										X					
Outfall 018	W	1 Gal Cube	1		None	13											X				

Field Parameters

These Samples are the Grab Portion of Outfall 018 for this storm event. Composite samples will follow and are to be added to this work order.

Relinquished By	Date/Time:	Received By	Date/Time:
[signature]		[signature]	2/6/10 1430
Relinquished By	Date/Time:	Received By	Date/Time:
Relinquished By	Date/Time:	Received By	Date/Time:

Turn-around time: (Check)
24 Hour: _____ 72 Hour: _____ 10 Day: _____
48 Hour: _____ 5 Day: _____ Normal: X

Sample Integrity: (Check)
Intact: _____ On Ice: X

Data Requirements: (Check)
No Level IV: _____ All Level IV: _____ NPDES Level IV: X

Test America Version 6/29/09

CHAIN OF CUSTODY FORM

ZTA0889

Client Name/Address:	Project:
MWH-Arcadia 618 Michillinda Ave, Suite 200 Arcadia, CA 91007 Test America Contact: Joseph Doak	Boeing-SSFL NPDES **Annual Outfall 018** **GRAB**
Project Manager: Bronwyn Kelly Sampler: E. WALKER M. Chell	Phone Number: (626) 568-6691 Fax Number: (626) 568-6515

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	VOCs 624 + xylenes + Freon 113, Freon 123A, Cyclohexane + PP	VOCs 624 +A+A+2CVE	Cr (VI) (218.6)	Settleable Solids	Total Residual Chlorine	Oil & Grease (1664-HEM)	Cyanide (total recoverable)	8015 - gas	8015 - diesel/jet fuel	Conductivity	Acute Toxicity				Field readings: (Log in and include in report Temp and pH) Temp °F = 53.6 pH = 7.6 Total Residual Chlorine = 0.02 mg/L Time of readings = 1300 **Comments**
Outfall 018	W	VOAs	5	2/6/10-1300	HCl	1A, 1B, 1C, 1D, 1E	X														
Outfall 018	W	VOAs	3		None	2A, 2B, 2C		X													
Outfall 018	W	500 mL Poly	1		None	3			X												
Outfall 018	W	1L Poly	1		None	4				X											
Outfall 018	W	150 mL Poly	1		None	5					X										
Outfall 018	W	1L Amber	2		HCl	6A, 6B						X									
Outfall 018	W	500 mL Poly	1		NaOH	7							X								
Trip Blanks	W	VOAs	3	2/6/10-0700	HCl	8A, 8B, 8C	X														
Trip Blanks	W	VOAs	3		None	9A, 9B, 9C		X													
Outfall 018	W	VOAs	1	2/6/10-1300	HCl	10A								X							
Outfall 018 Dup	W	VOAs	2		HCl	10B, 10C								X							
Outfall 018	W	1L Amber	1		None	11A									X						
Outfall 018 Dup	W	1L Amber	1		None	11B									X						
Outfall 018	W	500 mL Poly	2		None	12A, 12B										X					
Outfall 018	W	1 Gal Cube	1		None	13											X				

ANALYSIS REQUIRED

L.F. 2-8-10 8:30

These Samples are the Grab Portion of Outfall 018 for this storm event. Composite samples will follow and are to be added to this work order.

Relinquished By	Date/Time:	Received By	Date/Time:
			2-6-10 1450
Relinquished By	Date/Time:	Received By	Date/Time:
	2-6-10 1700		2/6/10 1700
Relinquished By	Date/Time:	Received By	Date/Time:

Turn-around time: (Check)
24 Hour: ____ 72 Hour: ____ 10 Day: ____
48 Hour: ____ 5 Day: ____ Normal: X

Sample Integrity: (Check)
Intact: ____ On Ice: X 2.9°

Data Requirements: (Check)
No Level IV: ____ All Level IV: ____ NPDES Level IV: X

LABORATORY REPORT

Aquatic Testing Laboratories
"dedicated to providing quality aquatic toxicity testing"
4350 Transport Street, Unit 107
Ventura, CA 93003
(805) 650-0546 FAX (805) 650-0756
CA DOHS ELAP Cert. No.: 1775

Date: February 11, 2010

Client: Test America – Irvine
17461 Derian Ave., Suite 100
Irvine, CA 92614
Attn: Joseph Doak

Laboratory No.: A-10020704-001
Sample ID.: ITB0889-01

Sample Control: The sample was received by ATL in a chilled state, within the recommended hold time and with the chain of custody record attached.

Date Sampled:	02/06/10
Date Received:	02/07/10
Temp. Received:	2.3°C
Chlorine (TRC):	0.0 mg/l
Date Tested:	02/07/10 to 02/11/10

Sample Analysis: The following analyses were performed on your sample:

Fathead Minnow 96hr Percent Survival Bioassay (EPA Method 2000.0).

Attached are the test data generated from the analysis of your sample.

Result Summary:

Sample ID.	Results
ITB0889-01	100% Survival (TUa = 0.0)

Quality Control: Reviewed and approved by:

Joseph A. LeMay
Laboratory Director

FATHEAD MINNOW PERCENT SURVIVAL TEST
EPA Method 2000.0

Aquatic Testing Laboratories

Lab No.: A-10020704-001
Client/ID: TestAmerica ITB0889-01 Outfall 018 **Start Date: 02/07/2010**

TEST SUMMARY

Species: *Pimephales promelas*.
Age: 12 (1-14) days.
Regulations: NPDES.
Test solution volume: 250 ml.
Feeding: prior to renewal at 48 hrs.
Number of replicates: 2.
Dilution water: Moderately hard reconstituted water.
Photoperiod: 16/8 hrs light/dark.

Source: In-laboratory Culture.
Test type: Static-Renewal.
Test Protocol: EPA-821-R-02-012.
Endpoints: Percent Survival at 96 hrs.
Test chamber: 600 ml beakers.
Temperature: 20 +/- 1°C.
Number of fish per chamber: 10.
QA/QC Batch No.: RT-100202.

TEST DATA

		°C	DO	pH	# Dead A	# Dead B	Analyst & Time of Readings
INITIAL	Control	20.1	8.5	7.7	0	0	1400
	100%	20.0	9.3	7.6	0	0	
24 Hr	Control	19.4	8.1	8.0	0	0	1200
	100%	19.2	8.7	8.0	0	0	
48 Hr	Control	19.3	8.1	7.5	0	0	1300
	100%	19.1	8.4	8.1	0	0	
Renewal	Control	19.8	9.0	8.0	0	0	1300
	100%	20.5	9.5	7.9	0	0	
72 Hr	Control	19.4	7.1	7.5	0	0	1500
	100%	19.1	7.1	7.8	0	0	
96 Hr	Control	19.1	8.2	7.7	0	0	1400
	100%	19.1	7.1	7.6	0	0	

Comments:
Sample as received: Chlorine: 0.0 mg/l; pH: 7.6 ; Conductivity: 338 umho; Temp: 2.3°C;
DO: 9.3 mg/l; Alkalinity: 56 mg/l; Hardness: 125 mg/l; NH_3-N: <0.1 mg/l.
Sample aerated moderately (approx. 500 ml/min) to raise or lower DO? Yes / (No).
Control: Alkalinity: 71 mg/l; Hardness: 108 mg/l; Conductivity: 325 umho.
Test solution aerated (not to exceed 100 bubbles/min) to maintain DO >4.0 mg/l? Yes / (No).
Sample used for renewal is the original sample kept at 0-6°C with minimal headspace.
Dissolved Oxygen (DO) readings in mg/l O_2.

RESULTS

Percent Survival In: Control: 100 % 100% Sample: 100 %

SUBCONTRACT ORDER
TestAmerica Irvine

ITB0889

SENDING LABORATORY:

TestAmerica Irvine
17461 Derian Avenue. Suite 100
Irvine, CA 92614
Phone: (949) 261-1022
Fax: (949) 260-3297
Project Manager: Joseph Doak

RECEIVING LABORATORY:

Aquatic Testing Laboratories-SUB
4350 Transport Street, Unit 107
Ventura, CA 93003
Phone :(805) 650-0546
Fax: (805) 650-0756
Project Location: CA - CALIFORNIA
Receipt Temperature: 2.3 °C Ice: (Y) / N

Standard TAT is requested unless specific due date is requested. => Due Date: _____ Initials: _____

Analysis	Units	Expires	Comments
Sample ID: ITB0889-01 (Outfall 018 (Grab) - Water)		Sampled: **02/06/10 13:00**	
Bioassay-Acute 96hr	% Survival	02/08/10 01:00	FH minnow, EPA/821-R02-012, Sub to Aquatic

Containers Supplied:
1 gal Poly (S)

Released By	2-7-10 905 Date/Time	Received By	2-7-10 905 Date/Time
Released By	2-7-10 700 Date/Time	Received By	2-7-10 1102 Date/Time

Aquatic
Testing
Laboratories

REFERENCE TOXICANT DATA

FATHEAD MINNOW ACUTE
Method 2000.0
Reference Toxicant - SDS

Aquatic Testing Laboratories

QA/QC Batch No.: RT-100202

TEST SUMMARY

Species: *Pimephales promelas.*
Age: 13 days old.
Regulations: NPDES.
Test chamber volume: 250 ml.
Feeding: Prior to renewal at 48 hrs.
Temperature: 20 +/- 1°C.
Number of replicates: 2.
Dilution water: MHSF.

Source: In-lab culture.
Test type: Static-Renewal.
Test Protocol: EPA-821-R-02-012.
Endpoints: LC50 at 96 hrs.
Test chamber: 600 ml beakers.
Aeration: None.
Number of organisms per chamber: 10.
Photoperiod: 16/8 hrs light/dark.

TEST DATA

	INITIAL			24 Hr					48 Hr				
Date/Time:	2-2-10 1200			2-3-10 1300					2-4-10 1200				
Analyst:													
	°C	DO	pH	°C	DO	pH	# Dead A	# Dead B	°C	DO	pH	# Dead A	# Dead B
Control	19.6	8.4	7.6	19.4	7.9	7.4	0	0	19.2	7.1	7.9	0	0
1.0 mg/l	19.6	8.5	7.6	19.2	8.0	7.4	0	0	19.2	7.3	7.7	0	0
2.0 mg/l	19.6	8.5	7.7	19.1	8.0	7.4	0	0	19.1	7.2	7.6	0	0
4.0 mg/l	19.6	8.5	7.7	19.1	7.6	7.4	0	0	19.1	7.2	7.6	0	0
8.0 mg/l	19.6	8.6	7.7	19.0	6.8	7.3	10	10	—	—	—	—	—

	RENEWAL			72 Hr					96 Hr				
Date/Time:	2-4-10 1200			2-5-10 1200					2-6-10 1130				
Analyst:													
	°C	DO	pH	°C	DO	pH	# Dead A	# Dead B	°C	DO	pH	# Dead A	# Dead B
Control	19.5	8.8	7.8	19.5	7.4	7.4	0	0	20.6	6.3	7.4	0	0
1.0 mg/l	19.5	8.8	7.8	19.4	7.4	7.4	0	0	20.6	6.6	7.4	0	0
2.0 mg/l	19.5	8.9	7.8	19.2	7.4	7.4	0	0	20.6	6.5	7.4	0	0
4.0 mg/l	19.5	8.9	7.8	19.2	7.3	7.4	0	0	20.5	6.4	7.4	0	0
8.0 mg/l	—	—	—	—	—	—	—	—	—	—	—	—	—

Comments: Control: Alkalinity: 69 mg/l; Hardness: 94 mg/l; Conductivity: 330 umho.
SDS: Alkalinity: 68 mg/l; Hardness: 94 mg/l; Conductivity: 333 umho.

Concentration-response relationship acceptable? (see attached computer analysis):
Yes (response curve normal)
No (dose interrupted indicated or non-normal)

Acute Fish Test-96 Hr Survival

Start Date:	2/2/2010 12:00	Test ID:	RT100202f	Sample ID:	REF-Ref Toxicant
End Date:	2/6/2010 11:30	Lab ID:	CAATL-Aquatic Testing Labs	Sample Type:	SDS-Sodium dodecyl sulfate
Sample Date:	2/2/2010	Protocol:	ACUTE-EPA-821-R-02-012	Test Species:	PP-Pimephales promelas
Comments:					

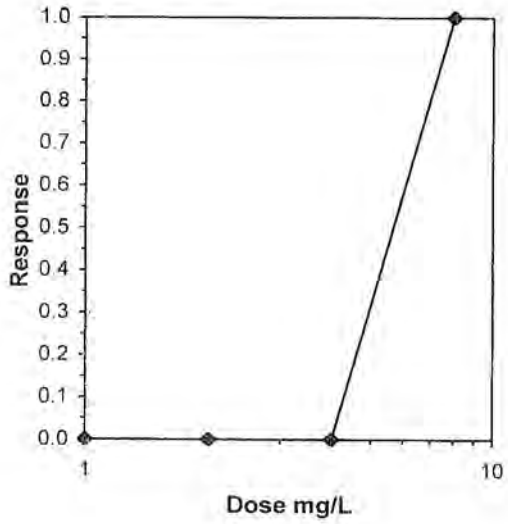
Conc-mg/L	1	2
D-Control	1.0000	1.0000
1	1.0000	1.0000
2	1.0000	1.0000
4	1.0000	1.0000
8	0.0000	0.0000

			Transform: Arcsin Square Root					Number	Total
Conc-mg/L	Mean	N-Mean	Mean	Min	Max	CV%	N	Resp	Number
D-Control	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	2	0	20
1	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	2	0	20
2	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	2	0	20
4	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	2	0	20
8	0.0000	0.0000	0.1588	0.1588	0.1588	0.000	2	20	20

Auxiliary Tests	Statistic	Critical	Skew	Kurt
Normality of the data set cannot be confirmed				
Equality of variance cannot be confirmed				

Graphical Method

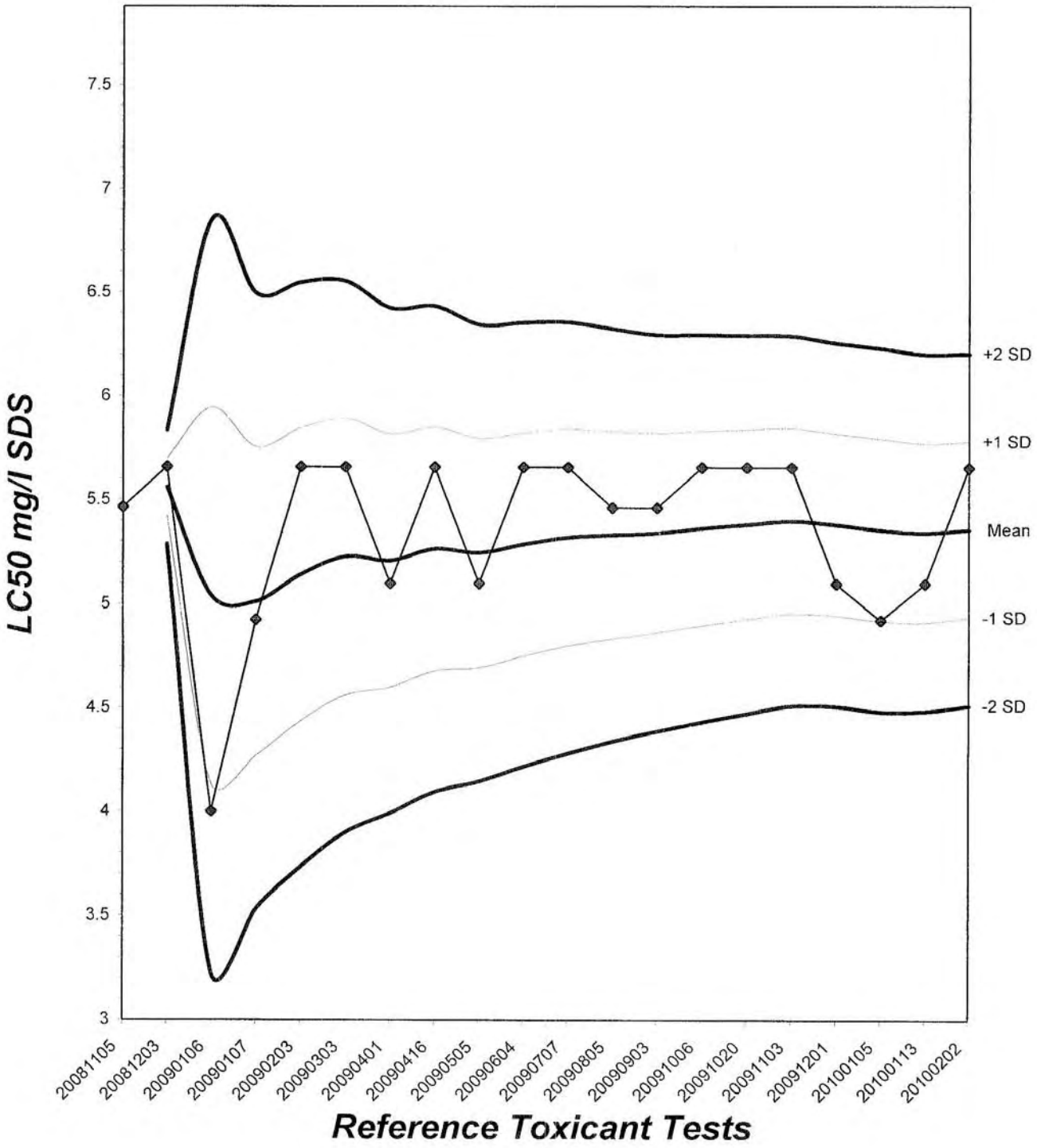
Trim Level	EC50
0.0%	5.6569
	5.6569



Reviewed by:

Fathead Minnow Acute Laboratory Control Chart

CV% = 7.91



TEST ORGANISM LOG

Aquatic Testing Laboratories

FATHEAD MINNOW - LARVAL
(Pimephales promelas)

QA/QC BATCH NO.: RT-100202

SOURCE: In-Lab Culture

DATE HATCHED: 1-20-10

APPROXIMATE QUANTITY: 400

GENERAL APPEARANCE: good

 # MORTALITIES 48 HOURS PRIOR TO TO USE IN TESTING: 0

DATE USED IN LAB: 1/5/10

AVERAGE FISH WEIGHT: 0.006 **gm**

LOADING LIMITS: 0.65 gm/liter @ 20°C, 0.40 gm/liter @ 25°C

Approximately 1000 fish per 10 liters limit if held overnight for acclimation without filtration @ 20°C for fish with a mean weight of 0.006 gm.

Approximately 650 fish per 10 liters limit if held overnight for acclimation without filtration @ 25°C for fish with a mean weight of 0.006 gm.

200 ml test solution volume = 0.013 gm mean fish weight limit @ 20°C; 0.008 @ 25°C
250 ml test solution volume = 0.016 gm mean fish weight limit @ 20°C; 0.010 @ 25°C

ACCLIMATION WATER QUALITY:

Temp.: 19.6 **°C** **pH:** 7.6 **Ammonia:** <0.1 **mg/l NH_3-N**

DO: 8.4 **mg/l** **Alkalinity:** 69 **mg/l** **Hardness:** 94 **mg/l**

READINGS RECORDED BY: _____ **DATE:** 2-3-10

Aquatic Testing Laboratories

Test Temperature Chart

Test No: RT-100202

Date Tested: 02/02/10 to 02/06/10

Acceptable Range: 20+/- 1°C

SUBCONTRACT ORDER
TestAmerica Irvine

ITB0895 987713

SENDING LABORATORY:

TestAmerica Irvine
17461 Derian Avenue. Suite 100
Irvine, CA 92614
Phone: (949) 261-1022
Fax: (949) 260-3297
Project Manager: Joseph Doak

RECEIVING LABORATORY:

Truesdail Laboratories-SUB
14201 Franklin Avenue
Tustin, CA 92680
Phone :(714) 730-6239
Fax: (714) 730-6462
Project Location: CA - CALIFORNIA
Receipt Temperature:_____°C Ice: Y / N

Rec'd 02/08/10
s9b 987713

Standard TAT is requested unless specific due date is requested. => Due Date: _____ Initials: _____

Analysis	Units	Expires	Comments
Sample ID: ITB0895-01 (Outfall 018 - Water)		Sampled: 02/07/10 10:45	
Hydrazine-OUT	%	02/10/10 10:45	Sub Truesdail for Monomethylhydrazine, J flags

Containers Supplied:
1 L Amber (AA) 1 L Amber (Z)

Level 4 Data Package ok 2/10/10

ALERT !!
Level IV QC

For Sample Conditions See Form Attached

Released By	Date/Time	Received By	Date/Time
[signature]	2-8-10 7:00	[signature]	2-8-10 7:00
[signature]	2-8-10 742	L. Shakespeare	2/8/10 7:42

TRUESDAIL LABORATORIES, INC.
EXCELLENCE IN INDEPENDENT TESTING

Established 1931

14201 FRANKLIN AVENUE · TUSTIN, CALIFORNIA 92780-7008
(714) 730-6239 · FAX (714) 730-6462 · www.truesdail.com

Client: **Test America - Irvine**
17461 Derian Avenue, Suite 100
Irvine, CA 92614-5817

REPORT

Attention: **Joseph Doak**
Sample: Water / 1 Sample
Project Name: **ITB0895**
Project Number: **ITB0895**
Method Number: **EPA 8315 (Modified)**
Investigation: **Hydrazines**

Laboratory No: 987713
Report Date: February 11, 2010
Sampling Date: February 7, 2010
Receiving Date: February 8, 2010
Extraction Date: February 8, 2010
Analysis Date: February 9, 2010
Units: µg/L
Reported By: JS

Analytical Results

Sample ID	Sample Description	Sample Amount (mL)	Dilution Factor	Monomethyl Hydrazine	u-Dimethyl Hydrazine	Hydrazine	Qualifier Codes
708690-MB	Method Blank	100	1	ND	ND	ND	None
987713	ITB0895-01	100	1	ND	ND	ND	None
MDL				0.857	1.42	0.452	
PQL				5.0	5.0	1.00	
Sample Reporting Limits				5.0	5.0	1.00	

Note: Results based on detector #1 (UV=365nm) data.

Linda Saetern, Project Manager
Analytical Services, Truesdail Laboratories, Inc.

TRUESDAIL LABORATORIES, INC.

EXCELLENCE IN INDEPENDENT TESTING

Established 1931

14201 FRANKLIN AVENUE · TUSTIN, CALIFORNIA 92780-7008
(714) 730-6239 · FAX (714) 730-6462 · www.truesdail.com

Client: **Test America - Irvine**
17461 Derian Avenue, Suite 100
Irvine, CA 92614-5817

Client Contact: **Joseph Doak**
Sample: Water / 1 Sample
Project Number: **ITB0895**
Method Number: **EPA 8315 (Modified)**
Investigation: **Hydrazines**
Run Batch No.: Extraction: 5138; Analysis: 678

QC Lab. No.: 708690
Project Lab. No.: 987713
Spiked Sample ID: 987712
Report Date: February 11, 2010
Sampling Date: February 7, 2010
Receiving Date: February 8, 2010
Extraction Date: February 8, 2010
Analysis Date: February 9, 2010
Reported By: JS

Quality Control/Quality Assurance Calibration Report

ICV

Parameter	Theoretical Value (ug/L)	Measured Value (ug/L)	Percent Recovery	Control Limits	Flag
Monomethyl Hydrazine	25.0	25.1	100	85-115	PASS
u-Dimethyl Hydrazine	25.0	25.7	103	85-115	PASS
Hydrazine	5.0	4.76	95.2	85-115	PASS

QCS

Parameter	Theoretical Value (ug/L)	Measured Value (ug/L)	Percent Recovery	Control Limits	Flag
Monomethyl Hydrazine	50.0	46.4	92.7	85-115	PASS
u-Dimethyl Hydrazine	50.0	48.0	96.0	85-115	PASS
Hydrazine	10.0	10.2	102	85-115	PASS

Quality Control/Quality Assurance Spikes Report

LCS/LCSD

Parameter	Spiked Conc. ug/L	Recovered Concentration LCS	LCSD	MB	Percent Recovery (%) LCS	LCSD	LCS/LCSD RPD	Flag	Control Limits %D	% Rec.
Monomethyl Hydrazine	50.0	52.3	50.8	0.0	105	102	2.93%	PASS	20	50-150
u-Dimethyl Hydrazine	50.0	53.4	51.6	0.0	107	103	3.30%	PASS	20	50-150
Hydrazine	10.0	11.3	11.0	0.0	113	110	2.77%	PASS	20	50-150

MS/MSD

Recovered Concentration MS	MSD	Sample	Percent Recovery (%) MS	MSD	MS/MSD RPD	Flag	Accuracy Control Limits %D	% Rec.
41.5	40.8	0.00	83.0	81.7	1.55%	PASS	20	50-150
44.9	45.7	0.00	89.7	91.4	1.91%	PASS	20	50-150
10.3	10.7	0.00	103	107	3.33%	PASS	20	50-150

Note: Results based on detector #1 (UV=365nm) data.

Linda Saetern, Project Manager
Analytical Services, Truesdail Laboratories, Inc.

LABORATORY REPORT

Aquatic Testing Laboratories

"dedicated to providing quality aquatic toxicity testing"

4350 Transport Street, Unit 107
Ventura, CA 93003
(805) 650-0546 FAX (805) 650-0756
CA DOHS ELAP Cert. No.: 1775

Date: February 17, 2010

Client: TestAmerica, Irvine
17461 Derian Ave., Suite 100
Irvine, CA 92614
Attn: Joseph Doak

Laboratory No.: A-10020803-001
Sample I.D.: ITB0895-01 (Outfall 018)

Sample Control: The sample was received by ATL within the recommended hold time, chilled and with the chain of custody record attached. Testing conducted on only one sample per client instruction (rain runoff sample). Chronic testing initiated outside the recommended hold time of 36 hr per additional client instruction.

Date Sampled:	02/07/10
Date Received:	02/08/10
Temp. Received:	1.3°C
Chlorine (TRC):	0.0 mg/l
Date Tested:	02/09/10 to 02/16/10

Sample Analysis: The following analyses were performed on your sample:

Ceriodaphnia dubia Survival and Reproduction Test (EPA Method 1002).

Attached are the test data generated from the analysis of your sample.

Result Summary:

	NOEC	TUc
Ceriodaphnia Survival:	100%	1.0
Ceriodaphnia Reproduction:	100%	1.0

Quality Control: Reviewed and approved by:

Joseph A. LeMay
Laboratory Director

CERIODAPHNIA CHRONIC BIOASSAY
EPA METHOD 1002.0

Aquatic Testing Laboratories

Lab No.: A-10020803-001
Client/ID: Test America – ITB0895-01 (Outfall 018)

Date Tested: 02/09/10 to 02/16/10

TEST SUMMARY

Test type: Daily static-renewal.
Species: *Ceriodaphnia dubia*.
Age: < 24 hrs; all released within 8 hrs.
Test vessel size: 30 ml.
Number of test organisms per vessel: 1.
Temperature: 25 +/- 1°C.
Dilution water: Mod. hard reconstituted (MHRW).
QA/QC Batch No.: RT-100207.

Endpoints: Survival and Reproduction.
Source: In-laboratory culture.
Food: .1 ml YTC, algae per day.
Test solution volume: 15 ml.
Number of replicates: 10.
Photoperiod: 16/8 hrs. light/dark cycle.
Test duration: 7 days.
Statistics: ToxCalc computer program.

RESULTS SUMMARY

Sample Concentration	Percent Survival	Mean Number of Young Per Female
Control	100%	27.1
100% Sample	100%	30.5
* Sample not statistically significantly less than Control.		

CHRONIC TOXICITY

Survival NOEC	100%
Survival TUc	1.0
Reproduction NOEC	100%
Reproduction TUc	1.0

QA/QC TEST ACCEPTABILITY

Parameter	Result
Control survival ≥80%	Pass (100% survival)
≥15 young per surviving control female	Pass (27.1 young)
≥60% surviving controls had 3 broods	Pass (100% with 3 broods)
PMSD <47% for reproduction; if >47% and no toxicity at IWC, the test must be repeated	Pass (PMSD = 10.7%)
Statistically significantly different concentrations relative difference >13%	Pass (no concentration significantly different)
Concentration response relationship acceptable	Pass (no significant response at concentration tested)

Ceriodaphnia Survival and Reproduction Test-7 Day Survival

Start Date:	2/9/2010 15:00	Test ID:	10020803c	Sample ID:	ITB0895-01
End Date:	2/16/2010 15:00	Lab ID:	CAATL-Aquatic Testing Labs	Sample Type:	EFF2-Industrial
Sample Date:	2/7/2010 10:45	Protocol:	FWCH EPA	Test Species:	CD-Ceriodaphnia dubia

Comments:

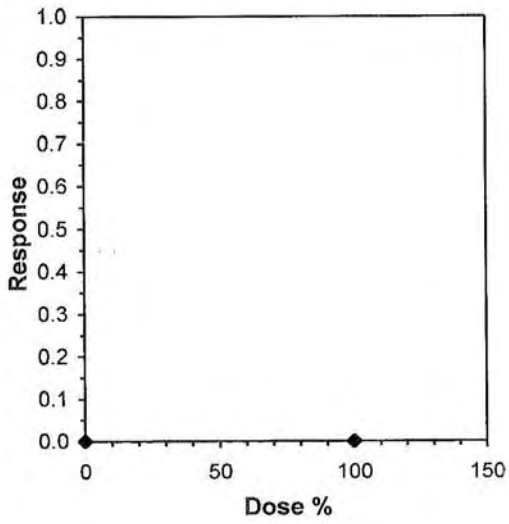
Conc-%	1	2	3	4	5	6	7	8	9	10
D-Control	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

Conc-%	Mean	N-Mean	Resp	Not Resp	Total	N	Fisher's Exact P	1-Tailed Critical	Isotonic Mean	Isotonic N-Mean
D-Control	1.0000	1.0000	0	10	10	10			1.0000	1.0000
100	1.0000	1.0000	0	10	10	10	1.0000	0.0500	1.0000	1.0000

Hypothesis Test (1-tail, 0.05)	NOEC	LOEC	ChV	TU
Fisher's Exact Test	100	>100		1
Treatments vs D-Control				

Linear Interpolation (200 Resamples)

Point	%	SD	95% CL	Skew
IC05	>100			
IC10	>100			
IC15	>100			
IC20	>100			
IC25	>100			
IC40	>100			
IC50	>100			



Reviewed by: _____

Ceriodaphnia Survival and Reproduction Test-Reproduction

Start Date:	2/9/2010 15:00	Test ID:	10020803c	Sample ID:	ITB0895-01
End Date:	2/16/2010 15:00	Lab ID:	CAATL-Aquatic Testing Labs	Sample Type:	EFF2-Industrial
Sample Date:	2/7/2010 10:45	Protocol:	FWCH EPA	Test Species:	CD-Ceriodaphnia dubia

Comments:

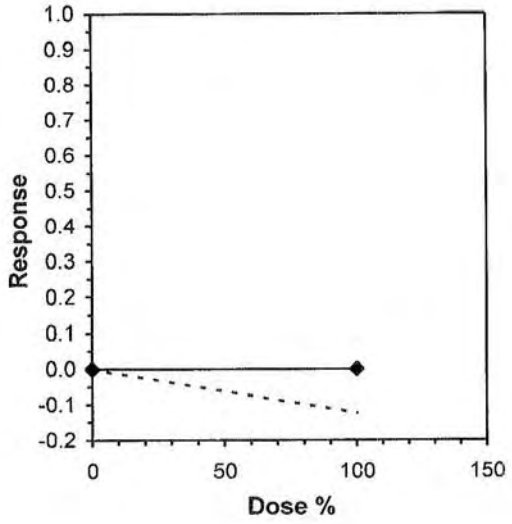
Conc-%	1	2	3	4	5	6	7	8	9	10
D-Control	23.000	23.000	30.000	27.000	31.000	26.000	31.000	32.000	23.000	25.000
100	30.000	27.000	30.000	34.000	32.000	35.000	34.000	27.000	33.000	23.000

			Transform: Untransformed					1-Tailed			Isotonic	
Conc-%	Mean	N-Mean	Mean	Min	Max	CV%	N	t-Stat	Critical	MSD	Mean	N-Mean
D-Control	27.100	1.0000	27.100	23.000	32.000	13.412	10				28.800	1.0000
100	30.500	1.1255	30.500	23.000	35.000	12.675	10	-2.026	1.734	2.910	28.800	1.0000

Auxiliary Tests	Statistic		Critical		Skew	Kurt
Shapiro-Wilk's Test indicates normal distribution (p > 0.05)	0.92598		0.905		-0.3226	-1.0223
F-Test indicates equal variances (p = 0.86)	1.1312		6.54109			
Hypothesis Test (1-tail, 0.05)	**MSDu**	**MSDp**	**MSB**	**MSE**	**F-Prob**	**df**
Homoscedastic t Test indicates no significant differences	2.90969	0.10737	57.8	14.0778	0.05782	1, 18
Treatments vs D-Control						

Linear Interpolation (200 Resamples)

Point	%	SD	95% CL	Skew
IC05	>100			
IC10	>100			
IC15	>100			
IC20	>100			
IC25	>100			
IC40	>100			
IC50	>100			



Reviewed by:

CERIODAPHNIA DUBIA CHRONIC BIOASSAY
EPA METHOD 1002.0 Raw Data Sheet

Aquatic Testing Laboratories

Lab No.: A-10020803-001
Client ID: TestAmerica - ITB0895-01 Outfall 018
Start Date: 02/09/2010

		DAY 1		DAY 2		DAY 3		DAY 4		DAY 5		DAY 6		DAY 7	
		0 hr	24hr	0 hr	24hr	0 hr	24hr	0 hr	24hr	0 hr	24hr	0 hr	24hr	0 hr	24hr
Analyst Initials:															
Time of Readings:		1500	1500	1500	1430	1430	1600	1600	1600	1600	1400	1400		1540	1500
Control	DO	8.2	8.4	8.2	8.5	8.3	8.2	8.1	8.0	8.0	8.1	7.8	8.1	8.2	8.2
	pH	7.8	7.6	7.7	7.6	7.7	7.6	7.7	7.8	7.6	7.8	7.5	7.8	7.8	7.9
	Temp	25.6	25.6	24.4	25.7	25.7	25.7	25.4	25.8	25.9	26.1	25.6	25.2	25.1	24.3
100%	DO	9.2	8.3	10.8	8.2	10.8	8.1	10.2	7.9	10.0	8.1	10.1	8.2	8.9	8.6
	pH	7.9	7.5	7.2	7.4	7.1	7.5	7.3	7.4	7.5	7.4	7.2	7.5	7.6	7.6
	Temp	24.4	25.5	24.6	25.7	25.0	25.8	25.0	26.0	25.1	26.2	25.6	26.2	25.1	24.6

Additional Parameters	Control	100% Sample
Conductivity (umohms)	349	324
Alkalinity (mg/l $CaCO_3$)	67	43
Hardness (mg/l $CaCO_3$)	90	90
Ammonia (mg/l NH_3-N)	<0.1	0.1

Source of Neonates

Replicate:	A	B	C	D	E	F	G	H	I	J
Brood ID:	6A	5D	6D	4E	4F	5F	6F	4G	5G	6G

Sample	Day	Number of Young Produced										Total Live Young	No. Live Adults	Analyst Initials
		A	B	C	D	E	F	G	H	I	J			
Control	1	0	0	0	0	0	0	0	0	0	0	0	10	
	2	0	0	0	0	0	0	0	0	0	0	0	10	
	3	3	0	0	0	0	0	4	0	0	0	47	10	
	4	0	4	5	5	4	4	0	5	4	4	35	10	
	5	6	7	10	9	8	7	9	11	0	0	67	10	
	6	0	0	15	0	19	0	0	16	7	6	63	10	
	7	14	12	0	13	0	15	18	0	12	15	99	10	
	Total	23	23	30	27	31	26	31	32	23	25	268	10	
100%	1	0	0	0	0	0	0	0	0	0	0	0	10	
	2	0	0	0	0	0	0	0	0	0	0	0	10	
	3	0	4	0	4	4	4	0	0	0	0	16	10	
	4	4	7	5	0	0	0	5	5	4	4	34	10	
	5	9	0	11	14	13	14	12	9	12	9	103	10	
	6	0	16	0	16	15	17	17	13	17	0	111	10	
	7	17	(18)	14	(18)	(12)	(16)	0	0	(10)	10	41	10	
	Total	30	27	30	34	32	35	34	27	33	23	305	10	

Circled fourth brood not used in statistical analysis.
7th day only used if <60% of the surviving control females have produced their third brood.

SUBCONTRACT ORDER
TestAmerica Irvine

ITB0895

SENDING LABORATORY:

TestAmerica Irvine
17461 Derian Avenue. Suite 100
Irvine, CA 92614
Phone: (949) 261-1022
Fax: (949) 260-3297
Project Manager: Joseph Doak

RECEIVING LABORATORY:

Aquatic Testing Laboratories-SUB
4350 Transport Street, Unit 107
Ventura, CA 93003
Phone :(805) 650-0546
Fax: (805) 650-0756
Project Location: CA - CALIFORNIA
Receipt Temperature: 1.3 °C Ice: (Y) / N

Standard TAT is requested unless specific due date is requested. => Due Date: _____ Initials: _____

Analysis	Units	Expires	Comments
Sample ID: ITB0895-01 (Outfall 018 - Water)		Sampled: **02/07/10 10:45**	
Bioassay-~~Acute 96hr~~	~~% Survival~~	02/08/10 22:45	~~FH minnow, EPA/821-R02-012~~, Sub to AqTox Labs
Level 4 Data Package	N/A	03/07/10 10:45	C Ch
Containers Supplied:			

Released By	2/8/10 0730 Date/Time	Received By	2/8/10 0730 Date/Time
Released By	2/8/10 1220 Date/Time	Received By	2-8-10 1220 Date/Time

Aquatic
Testing
Laboratories

Ceriodaphnia dubia
Chronic Toxicity Test
Reference
Toxicant
Data

CERIODAPHNIA CHRONIC BIOASSAY
EPA METHOD 1002.0
REFERENCE TOXICANT - NaCl

Aquatic Testing Laboratories

QA/QC Batch No.: RT-100207

Date Tested: 02/07/10 to 02/14/10

TEST SUMMARY

Test type: Daily static-renewal.
Species: *Ceriodaphnia dubia.*
Age: <24 hrs; all released within 8 hrs.
Test vessel size: 30 ml.
Number of test organisms per vessel: 1.
Temperature: 25 +/- 1°C.
Dilution water: Mod. hard reconstituted (MHRW).
Reference Toxicant: Sodium chloride (NaCl).

Endpoints: Survival and Reproduction.
Source: In-laboratory culture.
Food: .1 ml YTC, algae per day.
Test solution volume: 20 ml.
Number of replicates: 10.
Photoperiod: 16/8 hrs. light/dark cycle.
Test duration: 7 days.
Statistics: ToxCalc computer program.

RESULTS SUMMARY

Sample Concentration	Percent Survival		Mean Number of Young Per Female	
Control	100%		28.5	
0.25 g/l	100%		30.9	
0.5 g/l	100%		25.5	
1.0 g/l	100%		15.4	*
2.0 g/l	100%		2.9	*
4.0 g/l	0%	*	0	**

* Statistically significantly less than control at P = 0.05 level
** Reproduction data from concentrations greater than survival NOEC are excluded from statistical analysis.

CHRONIC TOXICITY

Survival LC50	2.8 g/l
Reproduction IC25	0.66 g/l

QA/QC TEST ACCEPTABILITY

Parameter	Result
Control survival ≥80%	Pass (100% Survival)
≥15 young per surviving control female	Pass (28.5 young)
≥60% surviving controls had 3 broods	Pass (100% with 3 broods)
PMSD <47% for reproduction	Pass (PMSD = 14.7%)
Stat. sig. diff. conc. relative difference >13%	Pass (Stat. sig. diff. conc. Relative difference= 46.0%)
Concentration response relationship acceptable	Pass (Response curve normal)

Ceriodaphnia Survival and Reproduction Test-7 Day Survival

Start Date:	2/7/2010 15:00	Test ID:	RT100207c	Sample ID:	REF-Ref Toxicant
End Date:	2/14/2010 14:00	Lab ID:	CAATL-Aquatic Testing Labs	Sample Type:	NACL-Sodium chloride
Sample Date:	2/7/2010	Protocol:	FWCH EPA	Test Species:	CD-Ceriodaphnia dubia

Comments:

Conc-gm/L	1	2	3	4	5	6	7	8	9	10
D-Control	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
0.25	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
0.5	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
1	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
2	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

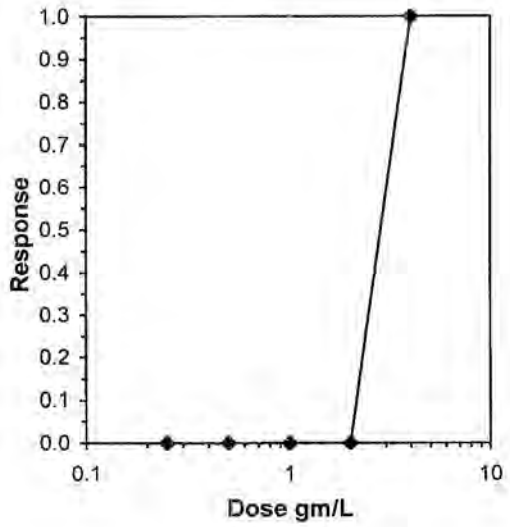
Conc-gm/L	Mean	N-Mean	Resp	Not Resp	Total	N	Fisher's Exact P	1-Tailed Critical	Number Resp	Total Number
D-Control	1.0000	1.0000	0	10	10	10			0	10
0.25	1.0000	1.0000	0	10	10	10	1.0000	0.0500	0	10
0.5	1.0000	1.0000	0	10	10	10	1.0000	0.0500	0	10
1	1.0000	1.0000	0	10	10	10	1.0000	0.0500	0	10
2	1.0000	1.0000	0	10	10	10	1.0000	0.0500	0	10
4	0.0000	0.0000	10	0	10	10			10	10

Hypothesis Test (1-tail, 0.05)	NOEC	LOEC	ChV	TU
Fisher's Exact Test	2	4	2.82843	
Treatments vs D-Control				

Graphical Method

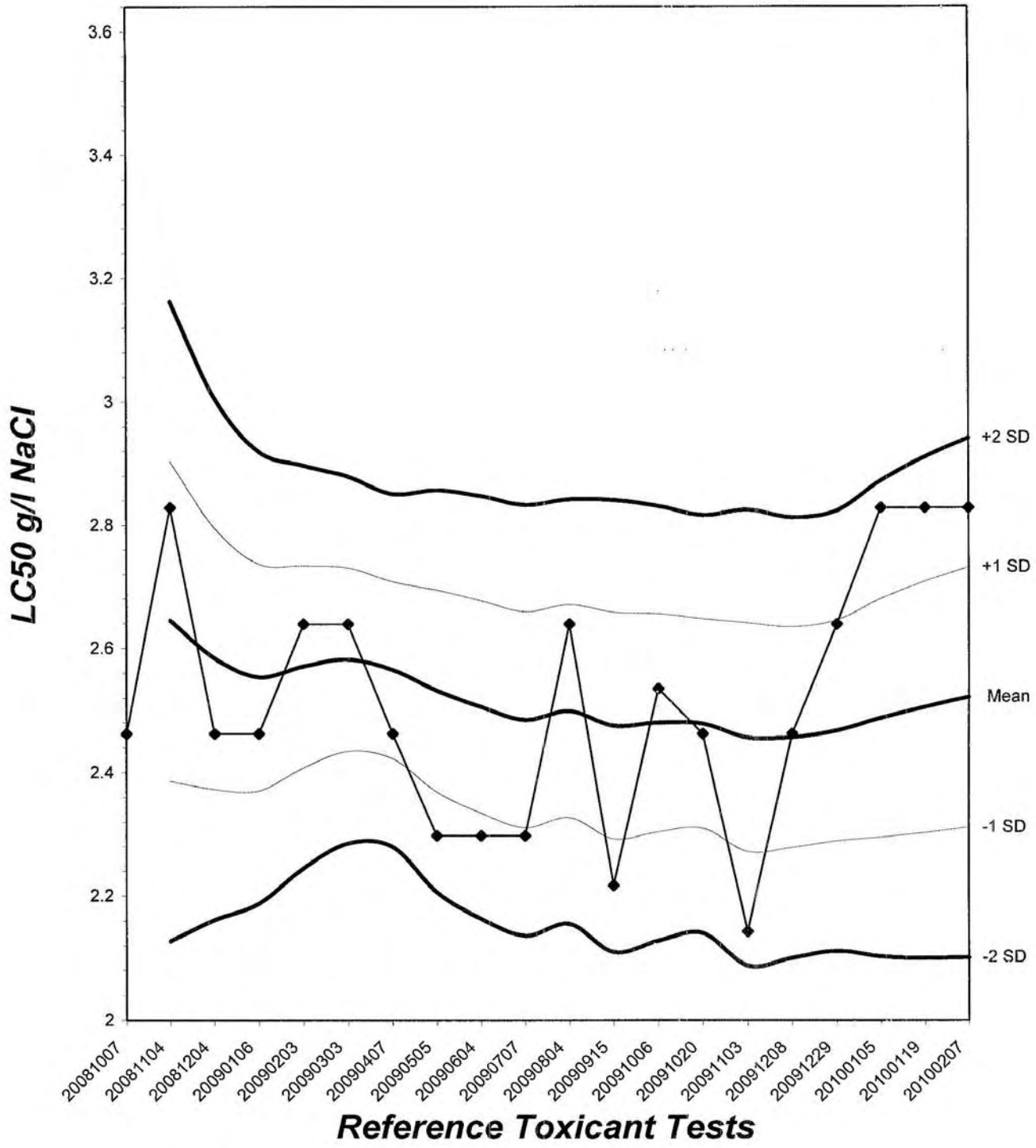
Trim Level	EC50
0.0%	2.8284

2.8284



Ceriodaphnia Chronic Survival Laboratory Control Chart

CV% = 8.34



Ceriodaphnia Survival and Reproduction Test-Reproduction

Start Date:	2/7/2010 15:00	Test ID:	RT100207c	Sample ID:	REF-Ref Toxicant
End Date:	2/14/2010 14:00	Lab ID:	CAATL-Aquatic Testing Labs	Sample Type:	NACL-Sodium chloride
Sample Date:	2/7/2010	Protocol:	FWCH EPA	Test Species:	CD-Ceriodaphnia dubia
Comments:					

Conc-gm/L	1	2	3	4	5	6	7	8	9	10
D-Control	30.000	29.000	30.000	32.000	29.000	30.000	30.000	25.000	26.000	24.000
0.25	48.000	29.000	31.000	31.000	27.000	27.000	28.000	36.000	25.000	27.000
0.5	27.000	26.000	26.000	28.000	25.000	25.000	30.000	25.000	18.000	25.000
1	24.000	13.000	15.000	19.000	24.000	13.000	11.000	13.000	11.000	11.000
2	3.000	3.000	2.000	3.000	2.000	3.000	4.000	4.000	2.000	3.000
4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

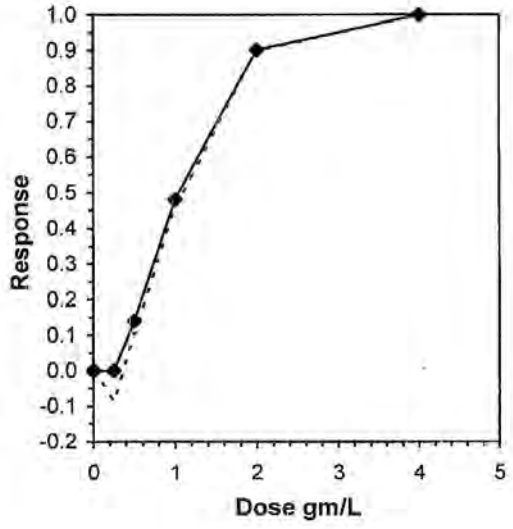
			Transform: Untransformed					Rank	1-Tailed	Isotonic	
Conc-gm/L	Mean	N-Mean	Mean	Min	Max	CV%	N	Sum	Critical	Mean	N-Mean
D-Control	28.500	1.0000	28.500	24.000	32.000	9.097	10			29.700	1.0000
0.25	30.900	1.0842	30.900	25.000	48.000	21.867	10	110.50	76.00	29.700	1.0000
0.5	25.500	0.8947	25.500	18.000	30.000	12.158	10	79.00	76.00	25.500	0.8586
*1	15.400	0.5404	15.400	11.000	24.000	33.280	10	56.00	76.00	15.400	0.5185
*2	2.900	0.1018	2.900	2.000	4.000	25.444	10	55.00	76.00	2.900	0.0976
4	0.000	0.0000	0.000	0.000	0.000	0.000	10			0.000	0.0000

Auxiliary Tests	Statistic	Critical	Skew	Kurt
Shapiro-Wilk's Test indicates non-normal distribution (p <= 0.05)	0.87968	0.947	1.72192	5.90298
Bartlett's Test indicates unequal variances (p = 1.75E-06)	32.1843	13.2767		

Hypothesis Test (1-tail, 0.05)	NOEC	LOEC	ChV	TU
Steel's Many-One Rank Test	0.5	1	0.70711	
Treatments vs D-Control				

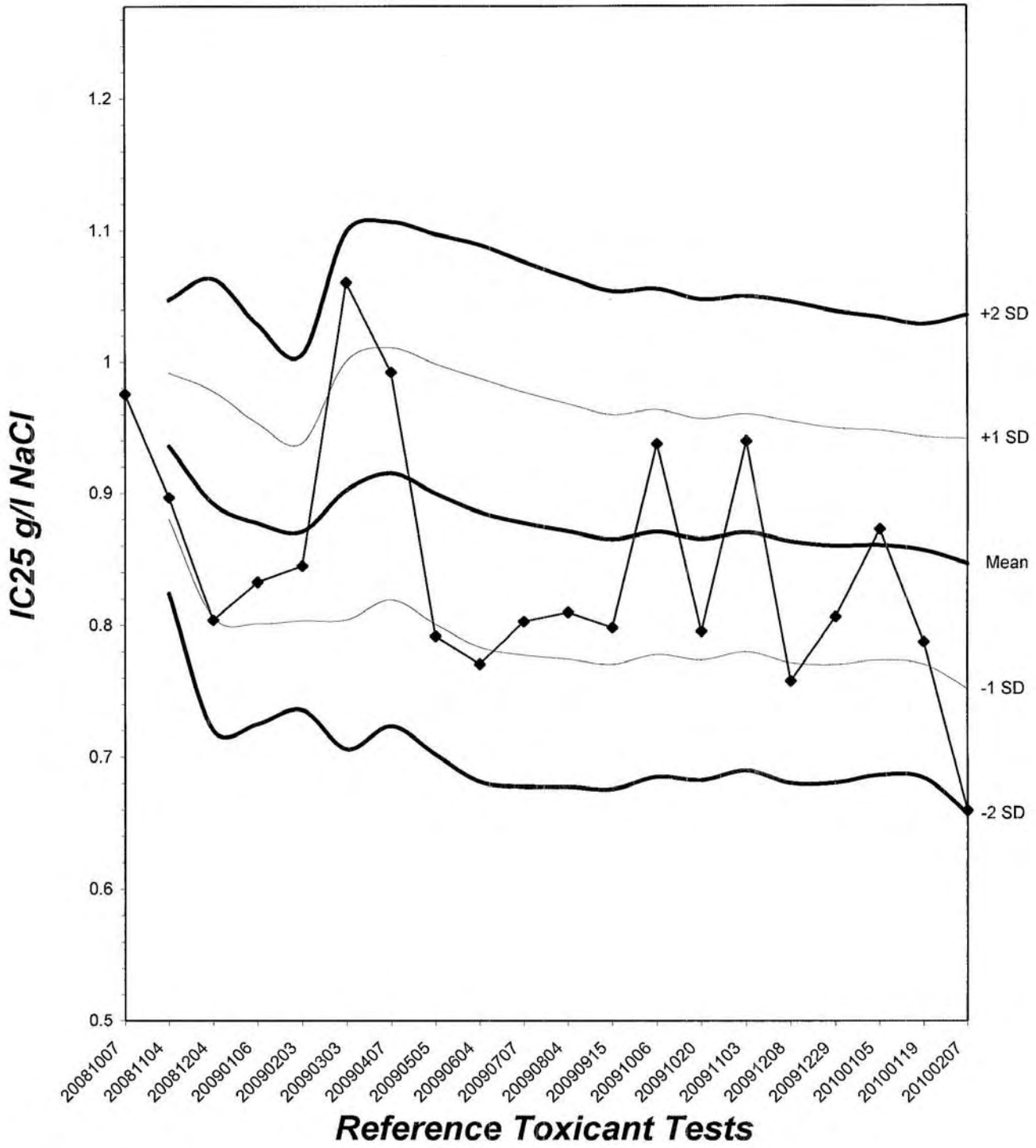
Linear Interpolation (200 Resamples)

Point	gm/L	SD	95% CL		Skew
IC05	0.3384	0.0442	0.2691	0.4525	0.4001
IC10	0.4268	0.0548	0.3537	0.5444	0.4118
IC15	0.5126	0.0553	0.4160	0.6069	0.0105
IC20	0.5861	0.0571	0.4714	0.6748	-0.2745
IC25	0.6597	0.0572	0.5402	0.7608	-0.3338
IC40	0.8802	0.0645	0.7629	1.0101	0.4008
IC50	1.0440	0.0882	0.8903	1.2112	0.2244



Ceriodaphnia Chronic Reproduction Laboratory Control Chart

CV% = 11.2



CERIODAPHNIA DUBIA CHRONIC BIOASSAY
Reference Toxicant - NaCl
Reproduction and Survival Raw Data Sheet

Aquatic Testing Laboratories

QA/QC No.: RT-100207

Start Date:02/07/2010

Sample	Day	Number of Young Produced										Total Live Young	No. Live Adults	Analyst Initials
		A	B	C	D	E	F	G	H	I	J			
Control	1	0	0	0	0	0	0	0	0	0	0	0	10	
	2	0	0	0	0	0	0	0	0	0	0	0	10	
	3	5	0	4	4	3	4	4	4	3	4	35	10	
	4	0	5	0	0	0	9	10	7	9	9	49	10	
	5	8	8	12	11	10	0	16	14	14	11	104	10	
	6	0	0	0	0	0	17	(17)	(15)	(17)	(12)	17	10	
	7	17	16	14	17	16	(15)	0	0	0	0	80	10	
	Total	30	29	30	32	29	30	30	25	26	24	285	10	
0.25 g/l	1	0	0	0	0	0	0	0	0	0	0	0	10	
	2	0	0	0	0	0	0	0	0	0	0	0	10	
	3	0	4	4	4	5	3	4	0	4	3	31	10	
	4	0	0	0	0	9	8	11	10	9	0	47	10	
	5	11	8	8	10	13	0	13	11	12	8	94	10	
	6	18	17	19	17	(15)	16	(13)	0	(17)	16	103	10	
	7	19	0	(7)	(16)	0	(17)	0	15	0	(15)	34	10	
	Total	88	29	31	31	27	27	28	36	25	27	309	10	
0.5 g/l	1	0	0	0	0	0	0	0	0	0	0	0	10	
	2	0	0	0	0	0	0	0	0	0	0	0	10	
	3	2	0	3	0	3	3	0	0	4	3	18	10	
	4	0	4	4	2	5	0	6	4	6	5	36	10	
	5	7	5	0	0	0	7	8	6	8	0	41	10	
	6	18	17	19	12	17	0	16	0	0	0	99	10	
	7	0	0	0	14	(16)	15	0	15	(14)	17	61	10	
	Total	27	26	26	28	25	25	30	25	10	25	255	10	

Circled fourth brood not used in statistical analysis.
7th day only used if <60% of the surviving control females have produced their third brood.

CERIODAPHNIA DUBIA CHRONIC BIOASSAY
Reference Toxicant - NaCl
Reproduction and Survival Raw Data Sheet

Aquatic Testing Laboratories

QA/QC No.: RT-100207

Start Date:02/07/2010

Sample	Day	Number of Young Produced										Total Live Young	No. Live Adults	Analyst Initials
		A	B	C	D	E	F	G	H	I	J			
1.0 g/l	1	0	0	0	0	0	0	0	0	0	0	0	10	
	2	0	0	0	0	0	0	0	0	0	0	0	10	
	3	~~3~~	0	2	3	3	0	0	2	2	0	15	10	
	4	0	2	5	2	4	0	0	3	3	0	19	10	
	5	5	4	0	0	0	0	4	0	0	0	19	10	
	6	0	0	0	14	17	0	0	0	0	4	35	10	
	7	16	7	8	0	0	7	7	8	6	7	66	10	
	Total	24	13	15	19	24	13	11	13	11	11	154	10	
2.0 g/l	1	0	0	0	0	0	0	0	0	0	0	0	10	
	2	0	0	0	0	0	0	0	0	0	0	0	10	
	3	0	0	0	0	0	0	0	0	0	0	0	10	
	4	0	0	0	0	0	0	0	0	0	0	0	10	
	5	0	0	0	0	0	0	0	0	0	0	0	10	
	6	0	0	2	0	0	0	0	3	0	0	5	10	
	7	3	3	0	3	2	3	4	1	2	3	24	10	
	Total	3	3	2	3	2	3	4	4	2	3	29	10	
4.0 g/l	1	~~0~~	~~0~~	~~0~~	~~0~~	X	X	X	X	X	/	0	0	
	2	—	—	—	—	—	—	—	—	—	—	—	—	—
	3	—	—	—	—	—	—	—	—	—	—	—	—	—
	4	—	—	—	—	—	—	—	—	—	—	—	—	—
	5	—	—	—	—	—	—	—	—	—	—	—	—	—
	6	—	—	—	—	—	—	—	—	—	—	—	—	—
	7	—	—	—	—	—	—	—	—	—	—	—	—	—
	Total	~~0~~	0	0	0	0	0	0	0	0	0	0	0	

Circled fourth brood not used in statistical analysis.
7th day only used if <60% of the surviving control females have produced their third brood.

C\RIODAPHNIA DUBIA CHRONIC BIOASSAY
Reference Toxicant - NaCl
Water Chemistries Raw Data Sheet

Aquatic Testing Laboratories

QA/QC No.: RT-100207

Start Date:02/07/2010

		DAY 1		DAY 2		DAY 3		DAY 4		DAY 5		DAY 6		DAY 7	
		Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final
Analyst Initials:															
Time of Readings:		1540	1430	1430	1500	1500	1400	1400	1400	1400	1500	1500	1600	1600	1400
Control	DO	8.3	8.3	8.1	8.4	8.2	8.3	8.3	8.2	8.4	8.2	8.1	7.9	8.0	8.0
	pH	7.7	8.0	8.2	8.0	8.0	7.8	8.0	7.8	7.7	7.7	7.7	7.8	7.5	7.6
	Temp	24.3	24.2	24.7	25.0	25.7	25.1	24.4	24.0	25.7	24.8	25.4	25.2	25.9	24.5
0.25 g/l	DO	8.4	8.4	8.2	8.4	8.2	8.3	8.3	8.2	8.4	8.2	8.1	8.0	8.0	7.9
	pH	8.0	7.8	8.0	8.0	8.0	7.8	8.0	7.8	7.7	7.7	7.7	7.8	7.5	7.5
	Temp	24.4	24.2	24.6	25.1	25.8	25.2	24.5	24.2	25.7	24.9	25.4	25.3	25.9	25.0
0.5 g/l	DO	8.2	8.3	8.2	8.3	8.2	8.3	8.3	8.1	8.4	8.2	8.1	8.0	8.0	8.1
	pH	7.9	7.8	7.8	8.0	8.1	7.8	7.8	7.8	7.7	7.7	7.7	7.8	7.6	7.5
	Temp	24.4	24.6	24.4	25.2	25.8	25.4	24.5	24.2	25.7	25.0	25.5	25.4	25.8	24.7
1.0 g/l	DO	8.3	8.4	8.4	8.3	8.3	8.2	8.3	8.1	8.3	8.3	8.2	7.9	8.0	8.0
	pH	7.9	7.8	7.8	8.0	8.1	7.8	7.8	7.8	7.7	7.7	7.7	7.8	7.6	7.6
	Temp	24.4	24.6	24.5	25.2	25.9	25.4	24.6	24.1	25.8	25.0	25.6	25.4	25.8	24.6
2.0 g/l	DO	8.2	8.0	8.4	8.5	8.3	8.2	8.3	8.1	8.3	8.3	8.2	8.1	8.0	8.3
	pH	7.9	7.8	7.7	8.0	8.1	7.8	7.8	7.8	7.7	7.7	7.8	7.8	7.7	7.6
	Temp	24.6	24.8	24.5	25.2	26.0	25.3	24.8	24.1	25.9	25.1	25.8	25.3	25.1	24.7
4.0 g/l	DO	8.3	8.0	—	—	—	—	—	—	—	—	—	—	—	—
	pH	8.1	7.7	—	—	—	—	—	—	—	—	—	—	—	—
	Temp	24.5	25.1	—	—	—	—	—	—	—	—	—	—	—	—

Dissolved Oxygen (DO) readings are in mg/l O_2; Temperature (Temp) readings are in °C.

Additional Parameters	Control			High Concentration		
	Day 1	Day 3	Day 5	Day 1	Day 3	Day 5
Conductivity (µS)	349	335	341	6240	3390	3510
Alkalinity (mg/l $CaCO_3$)	67	68	67	67	68	68
Hardness (mg/l $CaCO_3$)	90	93	92	90	92	92

Source of Neonates

Replicate:	A	B	C	D	E	F	G	H	I	J
Brood ID:	3A	3B	2C	2D	1E	1F	3G	2H	3I	1J

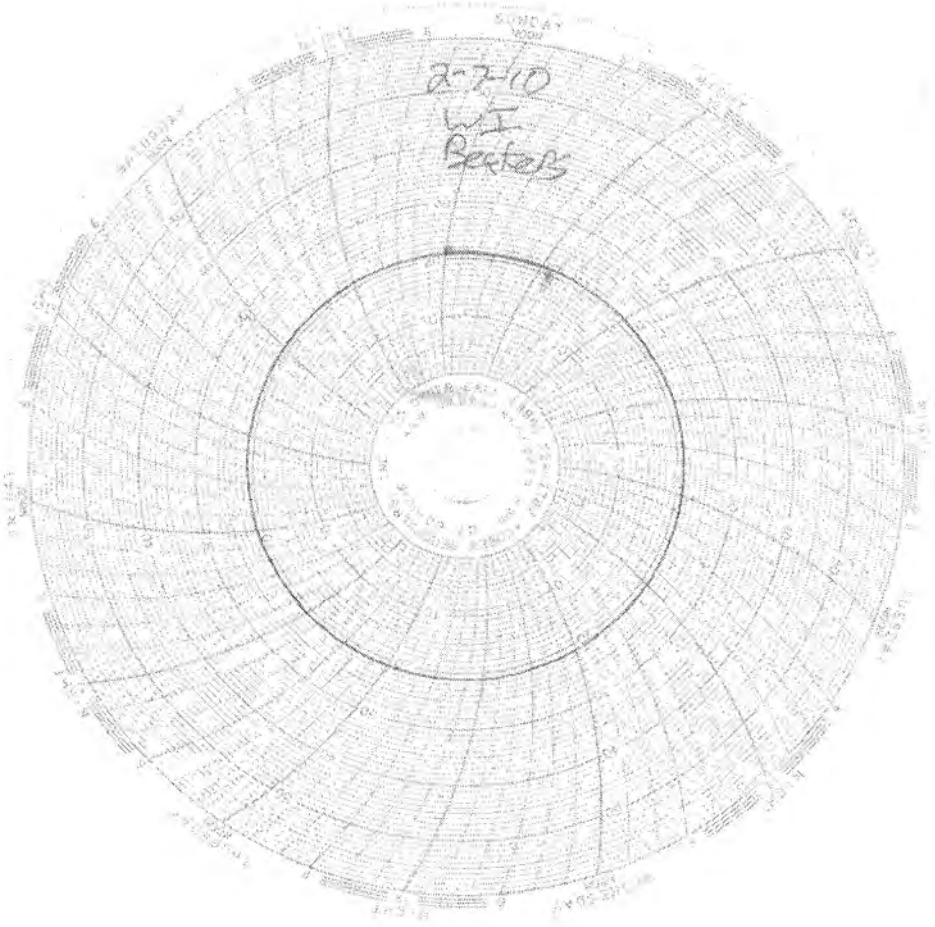
Aquatic Testing Laboratories

Test Temperature Chart

Test No: RT-100207

Date Tested: 02/07/10 to 02/14/10

Acceptable Range: 25+/- 1°C



TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

REVISED

PROJECT NO. ITB0895

MWH-Pasadena Boeing

Lot #: F0B090485

Joseph Doak

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817

TESTAMERICA LABORATORIES, INC.

Kay Clay
Project Manager

March 17, 2010

Case Narrative
LOT NUMBER: F0B090485
Revised 03-17-10

This report contains the analytical results for the sample received under chain of custody by TestAmerica St. Louis on February 9, 2010. This sample is associated with your MWH-Pasadena Boeing project.

The analytical results included in this report meet all applicable quality control procedure requirements, except as noted below.

The test results in this report meet all NELAP requirements for parameters in which accreditations are held by TestAmerica St. Louis. Any exceptions to NELAP requirements are noted in the case narrative. **TestAmerica St. Louis' Florida certification number is E87689.** The case narrative is an integral part of this report.

This report shall not be reproduced, except in full, without the written approval of the laboratory.

All chemical analysis results are based upon sample as received, wet weight, unless noted otherwise. All radiochemistry results are based upon sample as dried and ground with the exception of tritium, unless requested wet weight by the client.

Report revised to report the KPA uranium results in pCi/L.

Observations/Nonconformances
Reference the chain of custody and condition upon receipt report for any variations on receipt conditions and temperature of samples on receipt.

Gross Alpha/Beta (EPA 900.0 MOD)
There was insufficient sample volume remaining to perform the gross alpha/beta at the full aliquot amount of 200mL. The aliquot used was 173mL. This had no affect on achieving the client requested reporting limit.

Affected Samples:
F0B090485 (1): ITB0895-01

Radium-228 by GFPC (EPA 904 MOD)
The Radium 228 LCS analyte recovery is outside the lower QC limit, indicating a potential negative bias for the analyte. The sample re-extract LCS recovered within acceptable QC limits.

Affected Samples:
F0B090485 (1): ITB0895-01

METHODS SUMMARY

F0B090485

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Gamma Spectroscopy - Cesium-137 & Hits	EPA 901.1 MOD	
Gross Alpha/Beta EPA 900	EPA 900.0 MOD	EPA 900.0
H-3 by Distillation & LSC	EPA 906.0 MOD	
Radium-226 by GFPC	EPA 903.0 MOD	
Radium-228 by GFPC	EPA 904 MOD	
Strontium 90 by GFPC	EPA 905 MOD	
Total Uranium By Laser Ph osphorimetry	ASTM 5174-91	

References:

ASTM Annual Book Of ASTM Standards.

EPA "EASTERN ENVIRONMENTAL RADIATION FACILITY RADIOCHEMISTRY PROCEDURES MANUAL" US EPA EPA 520/5-84-006 AUGUST 1984

SAMPLE SUMMARY

F0B090485

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
LVF6L	001	ITB0895-01	02/07/10	10:45

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

TestAmerica Irvine

Client Sample ID: ITB0895-01

Radiochemistry

Lab Sample ID: F0B090485-001
Work Order: LVF6L
Matrix: WATER

Date Collected: 02/07/10 1045
Date Received: 02/09/10 1100

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	RL	mdc	Prep Date	Analysis Date
Gamma Cs-137 & Hits by EPA 901.1 MOD				**pCi/L**	**Batch # 0042136**		**Yld %**
Cesium 137	1.3	U	6.9	20.0	12	02/11/10	02/19/10
Potassium 40	-60	U	340		200	02/11/10	02/19/10
Gross Alpha/Beta EPA 900				**pCi/L**	**Batch # 0043108**		**Yld %**
Gross Alpha	-0.22	U	0.59	3.00	1.3	02/10/10	02/19/10
Gross Beta	**1.52**	**J**	**0.94**	4.00	**1.4**	**02/10/10**	**02/19/10**
SR-90 BY GFPC EPA-905 MOD				**pCi/L**	**Batch # 0041162**		**Yld % 76**
Strontium 90	0.004	U	0.26	3.00	0.45	02/10/10	02/19/10
TRITIUM (Distill) by EPA 906.0 MOD				**pCi/L**	**Batch # 0049035**		**Yld %**
Tritium	30	U	53	500	91	02/18/10	02/18/10
Total Uranium by KPA ASTM 5174-91				**pCi/L**	**Batch # 0053280**		**Yld %**
Total Uranium	0.125	U	0.015	0.693	0.21	02/23/10	02/26/10
Radium 226 by EPA 903.0 MOD				**pCi/L**	**Batch # 0041160**		**Yld % 99**
Radium (226)	0.0	U	0.10	1.00	0.20	02/10/10	02/26/10
Radium 228 by GFPC EPA 904 MOD				**pCi/L**	**Batch # 0060257**		**Yld % 86**
Radium 228	0.009	U	0.15	1.00	0.27	03/01/10	03/05/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC.

J Result is greater than sample detection limit but less than stated reporting limit.
U Result is less than the sample detection limit.

METHOD BLANK REPORT

Radiochemistry

Client Lot ID: F0B090485
Matrix: WATER

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	RL	MDC	Prep Date	Analysis Date	Lab Sample ID
Radium 228 by GFPC EPA 904 MOD			pCi/L	Batch # 0060257	Yld % 88			F0C010000-257B
Radium 228	0.08	U	0.23	1.00	0.39	03/01/10	03/05/10	
Radium 226 by EPA 903.0 MOD			pCi/L	Batch # 0041160	Yld % 95			F0B100000-160B
Radium (226)	0.092	U	0.095	1.00	0.14	02/10/10	02/26/10	
SR-90 BY GFPC EPA-905 MOD			pCi/L	Batch # 0041162	Yld % 80			F0B100000-162B
Strontium 90	-0.15	U	0.20	3.00	0.38	02/10/10	02/19/10	
Gamma Cs-137 & Hits by EPA 901.1 MOD			pCi/L	Batch # 0042136	Yld %			F0B110000-136B
Cesium 137	1.8	U	7.7	20.0	14	02/11/10	02/19/10	
Potassium 40	-80	U	620		210	02/11/10	02/19/10	
Gross Alpha/Beta EPA 900			pCi/L	Batch # 0043108	Yld %			F0B120000-108B
Gross Alpha	-0.28	U	0.35	2.00	0.87	02/10/10	02/19/10	
Gross Beta	-0.23	U	0.62	4.00	1.1	02/10/10	02/19/10	
TRITIUM (Distill) by EPA 906.0 MOD			pCi/L	Batch # 0049035	Yld %			F0B180000-035B
Tritium	165	J	85	500	95	02/18/10	02/18/10	
Total Uranium by KPA ASTM 5174-91			pCi/L	Batch # 0053280	Yld %			F0B220000-280B
Total Uranium	0.0460	U	0.0057	0.693	0.21	02/23/10	02/26/10	

NOTE(S)

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Bold results are greater than the MDC.

J Result is greater than sample detection limit but less than stated reporting limit.
U Result is less than the sample detection limit.

Laboratory Control Sample Report

Radiochemistry

Client Lot ID: F0B090485
Matrix: WATER

Parameter	Spike Amount	Result	Total Uncert. (2 σ+/-)	MDC	% Yld	% Rec	Lab Sample ID QC Control Limits
Radium 226 by EPA 903.0 MOD		pCi/L		903.0 MOD			F0B100000-160C
Radium (226)	11.3	10.4	1.1	0.2	97	93	(68 - 136)
	Batch #:	0041160		Analysis Date:	02/26/10		
SR-90 BY GFPC EPA-905 MOD		pCi/L		905 MOD			F0B100000-162C
Strontium 90	6.80	6.82	0.77	0.34	83	100	(80 - 130)
	Batch #:	0041162		Analysis Date:	02/19/10		
Gamma Cs-137 & Hits by EPA 901.1 MOD		pCi/L		901.1 MOD			F0B110000-136C
Americium 241	141000	140000	11000	500		99	(87 - 110)
Cesium 137	53100	52900	3000	200		100	(90 - 110)
Cobalt 60	87900	88000	5000	200		100	(89 - 110)
	Batch #:	0042136		Analysis Date:	02/19/10		
Gross Alpha/Beta EPA 900		pCi/L		900.0 MOD			F0B120000-108C
Gross Beta	68.0	71.6	6.0	1		105	(58 - 133)
	Batch #:	0043108		Analysis Date:	02/19/10		
Gross Alpha/Beta EPA 900		pCi/L		900.0 MOD			F0B120000-108C
Gross Alpha	49.4	34.8	4.3	1.2		70	(62 - 134)
	Batch #:	0043108		Analysis Date:	02/19/10		
TRITIUM (Distill) by EPA 906.0 MOD		pCi/L		906.0 MOD			F0B180000-035C
Tritium	4530	4440	460	90		98	(85 - 112)
	Batch #:	0049035		Analysis Date:	02/18/10		
Total Uranium by KPA ASTM 5174-91		pCi/L		5174-91			F0B220000-280C
Total Uranium	27.7	30.2	3.6	0.2		109	(90 - 120)
	Batch #:	0053280		Analysis Date:	02/26/10		
Total Uranium by KPA ASTM 5174-91		pCi/L		5174-91			F0B220000-280C
Total Uranium	5.54	5.97	0.61	0.21		108	(90 - 120)
	Batch #:	0053280		Analysis Date:	02/26/10		

NOTE(S)

MDC is determined by instrument performance only
Calculations are performed before rounding to avoid round-off error in calculated results

Laboratory Control Sample/LCS Duplicate Report

Radiochemistry

Client Lot ID: F0B090485
Matrix: WATER

Parameter		Spike Amount	Result	Total Uncert. (2 σ+/-)	% Yld	% Rec	QC Control Limits	Lab Sample ID Precision	
Radium 228 by GFPC EPA 904 MOD			**pCi/L**	**904 MOD**				**F0C010000-257C**	
Radium 228		6.40	6.23	0.74	87	97	(60 - 142)		
	Spk 2	6.40	6.35	0.77	84	99	(60 - 142)	2	%RPD
		Batch #:	0060257		**Analysis Date:**		03/05/10		

NOTE(S)

Calculations are performed before rounding to avoid round-off error in calculated results

MATRIX SPIKE REPORT

Radiochemistry

Client Lot Id: F0B090473
Matrix: WATER
Date Sampled: 02/05/10
Date Received: 02/09/10

Parameter	Spike Amount	Spike Result	Total Uncert. (2σ +/-)	Spike Yld.	Sample Result	Total Uncert. (2 σ +/-)	QC Sample ID %YLD	QC Sample ID %REC	QC Control Limits
TRITIUM (Distill) by EPA 906.0 MOD			**pCi/L**		**906.0 MOD**			**F0B090473-001**	
Tritium	4530	4650	470		122	77		100	(62 - 147)
	Batch #:	0049035		Analysis Date:		02/18/10			
Gross Alpha/Beta EPA 900			**pCi/L**		**900.0 MOD**			**F0B090470-001**	
Gross Alpha	49.4	47.2	5.2		2.00	0.88		91	(35 - 150)
	Batch #:	0043108		Analysis Date:		02/18/10			
Gross Alpha/Beta EPA 900			**pCi/L**		**900.0 MOD**			**F0B090470-001**	
Gross Beta	68.0	79.0	6.6		3.9	1.2		110	(54 - 150)
	Batch #:	0043108		Analysis Date:		02/18/10			

NOTE(S)

Data are incomplete without the case narrative.

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MATRIX SPIKE/MATRIX SPIKE DUPLICATE REPORT

Radiochemistry

Client Lot ID: F0B090470 Date Sampled: 02/07/10 1143
Matrix: WATER Date Received: 02/09/10 1100

Parameter		Spike Amount	SPIKE Result	Total Uncert. (2 σ+/-)	Spike Yld	SAMPLE Result		Total Uncert. (2σ +/-)	QC Sample ID % Yld	%Rec	QC Control Limits
Total Uranium by KPA ASTM 5				**pCi/L**		**5174-91**				**F0B090470-001**	
Total Uranium		27.7	29.7	3.1		0.566	J	0.068		105	(62 - 150)
	Spk2	27.7	30.0	3.1		0.566	J	0.068		106	(62 - 150)
									Precision:	1	%RPD

Batch #: 0053280 Analysis date: 02/26/10

NOTE(S)

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J Result is greater than sample detection limit but less than stated reporting limit.

DUPLICATE EVALUATION REPORT

Radiochemistry

Client Lot ID: F0B090485
Matrix: WATER

Date Sampled: 02/05/10
Date Received: 02/09/10

Parameter	SAMPLE Result		Total Uncert. (2σ+/-)	% Yld	DUPLICATE Result		Total Uncert. (2 σ+/-)	% Yld	QC Sample ID Precision	
Radium 226 by EPA 903.0 MOD				**pCi/L**	**903.0 MOD**				**F0B090467-001**	
Radium (226)	0.089	U	0.098	92	0.07	U	0.16	92	31	%RPD
	Batch #:		0041160 (Sample)		0041160 (Duplicate)					
Gamma Cs-137 & Hits by EPA 901.1 MOD				**pCi/L**	**901.1 MOD**				**F0B090470-001**	
Cesium 137	-2.9	U	9.0		1.2	U	7.8		479	%RPD
Potassium 40	-100	U	43000		-50	U	230		93	%RPD
	Batch #:		0042136 (Sample)		0042136 (Duplicate)					
Gross Alpha/Beta EPA 900				**pCi/L**	**900.0 MOD**				**F0B090470-001**	
Gross Alpha	2.00	J	0.88		0.84	U	0.66		82	%RPD
Gross Beta	3.9	J	1.2		3.2	J	1.1		20	%RPD
	Batch #:		0043108 (Sample)		0043108 (Duplicate)					
TRITIUM (Distill) by EPA 906.0 MOD				**pCi/L**	**906.0 MOD**				**F0B090470-001**	
Tritium	114	J	75		80	U	66		35	%RPD
	Batch #:		0049035 (Sample)		0049035 (Duplicate)					
SR-90 BY GFPC EPA-905 MOD				**pCi/L**	**905 MOD**				**F0B090475-001**	
Strontium 90	-0.05	U	0.23	72	-0.15	U	0.23	69	97	%RPD
	Batch #:		0041162 (Sample)		0041162 (Duplicate)					

NOTE(S)

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Calculations are performed before rounding to avoid round-off error in calculated results

J Result is greater than sample detection limit but less than stated reporting limit.
U Result is less than the sample detection limit.

F0B090485

SUBCONTRACT ORDER
TestAmerica Irvine
ITB0895 ~

SENDING LABORATORY:

TestAmerica Irvine
17461 Derian Avenue, Suite 100
Irvine, CA 92614
Phone: (949) 261-1022
Fax: (949) 260-3297
Project Manager: Joseph Doak
Client: MWH-Pasadena/Boeing

RECEIVING LABORATORY:

TestAmerica St. Louis
13715 Rider Trail North
Earth City, MO 63045
Phone :(314) 298-8566
Fax: (314) 298-8757
Project Location: CA - CALIFORNIA
Receipt Temperature: ____ °C Ice: Y / N

Analysis	Units	Due	Expires	Interlab Price	Surch	Comments
Sample ID: ITB0895-01 (Outfall 018 - Water) Sampled: 02/07/10 10:45						
Gamma Spec-O	mg/kg	02/17/10	02/07/11 10:45	$200.00	50%	Out St Louis, k-40 and cs-137 only, DO NOT FILTER!
Gross Alpha-O	pCi/L	02/17/10	08/06/10 10:45	$90.00	50%	Out St Louis, Boeing permit, DO NOT FILTER!
Gross Beta-O	pCi/L	02/17/10	08/06/10 10:45	$90.00	50%	Out St Louis, Boeing permit, DO NOT FILTER!
Level 4 + EDD-OUT	N/A	02/17/10	03/07/10 10:45	$0.00	0%	**LEVEL IV QC, ACCESS 7 EDD**
Radium, Combined-O	pCi/L	02/17/10	02/07/11 10:45	$200.00	50%	Out St Louis, Boeing permit, DO NOT FILTER!
Strontium 90-O	pCi/L	02/17/10	02/07/11 10:45	$140.00	50%	Out St Louis, Boeing permit, DO NOT FILTER!
Tritium-O	pCi/L	02/17/10	02/07/11 10:45	$80.00	50%	Out St Louis, Boeing permit, DO NOT FILTER!
Uranium, Combined-O	pCi/L	02/17/10	02/07/11 10:45	$100.00	50%	Out St Louis, Boeing permit, DO NOT FILTER!

Containers Supplied:
2.5 gal Poly (V) 500 mL Amber (W)

Lucrecia Frutos 2/8/10 17:00		Fedex	2/8/10 17:00
Released By	Date/Time	Received By	Date/Time
			2.9.10 1180
Released By	Date/Time	Received By	Date/Time

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CONDITION UPON RECEIPT FORM

Lot #(s): F0B090467, 481, 488, 470, 482, 489, 473, 484, 491, 475, 485, 494, 478, 486, 495

Client: TA Irvine

Quote No: 77635, 85044

COC/RFA No: below

122

Initiated By: SV   Date: 2-9-10   Time: 1100

Shipping Information

Shipper: (FedEx) UPS DHL Courier Client Other: ____   Multiple Packages: (Y) N

Shipping # (s):*		Sample Temperature (s):**	
1. 4289 2433 2309 MPS	6.	1. ambient	6.
2.	7.	2.	7.
3.	8.	3.	8.
4.	9.	4.	9.
5.	10.	5.	10.

*Numbered shipping lines correspond to Numbered Sample Temp lines

**Sample must be received at 4°C ± 2°C- If not, note contents below. Temperature variance does NOT affect the following: Metals-Liquid or Rad tests- Liquid or Solids

Condition (Circle "Y" for yes, "N" for no and "N/A" for not applicable):

1.	(Y) N	Are there custody seals present on the cooler?	8.	Y (N)	Are there custody seals present on bottles?
2.	Y (N) N/A	Do custody seals on cooler appear to be tampered with?	9.	Y N (N/A)	Do custody seals on bottles appear to be tampered with?
3.	(Y) N	Were contents of cooler frisked after opening, but before unpacking?	10.	Y N (N/A)	Was sample received with proper pH[1]? (If not, make note below)
4.	(Y) N SV 9.10	Sample received with Chain of Custody?	11.	(Y) N	Sample received in proper containers?
5.	~~Y~~ (N) N/A	Does the Chain of Custody match sample ID's on the container(s)?	12.	Y N (N/A)	Headspace in VOA or TOX liquid samples? (If Yes, note sample ID's below)
6.	Y (N)	Was sample received broken?	13.	(Y) N N/A	Was Internal COC/Workshare received?
7.	(Y) N	Is sample volume sufficient for analysis?	14.	(Y) N N/A	Was pH taken by original TestAmerica lab?

[1] For DOE-AL (Pantex, LANL, Sandia) sites, pH of ALL containers received must be verified, EXCEPT VOA, TOX and soils.

Notes:

ITB0887: (95), ~~88~~ SW 2.9.10, 94, 88, 92, 86, 85, 96

ITB0773: 36, 97, 98, 99, 0800, 0590, 0602

Revised chains were not relinquished for Boeing project

ITB0800 label time is 1315; c-o-c reads 1254

Corrective Action:

☐ Client Contact Name: ____   Informed by: ____

☐ Sample(s) processed "as is"

☐ Sample(s) on hold until: ____   If released, notify: ____

Project Management Review: Jaynah Pohl   Date: 2-16-10

THIS FORM MUST BE COMPLETED AT THE TIME THE ITEMS ARE BEING CHECKED IN. IF ANY ITEM IS COMPLETED BY SOMEONE OTHER THAN THE INITIATOR, THEN THAT PERSON IS REQUIRED TO APPLY THEIR INITIAL AND THE DATE NEXT TO THAT ITEM.

ADMIN-0004, REVISED 10/21/08 \\Slsvr01\QA\FORMS\ST-LOUIS\ADMIN\Admin004 rev11.doc

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