APPENDIX G

Section 33

Outfall 006, January 5, 2008 Test America Analytical Laboratory Report

<u>TestAmerica</u>

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: Routine Outfall 006

Sampled: 01/05/08 Received: 01/05/08 Issued: 02/21/08 13:58

NELAP #01108CA California ELAP#1197 CSDLAC #10256

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and

is an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

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

ADDITIONAL

INFORMATION:

This final report includes initial and re-analysis of Nitrate+Nitrite. Please see case narrative.

LABORATORY ID	CLIENT ID	MATRIX
IRA0398-01	Outfall 006	Water

Reviewed By:

Joseph Dock

TestAmerica Irvine Joseph Doak Project Manager



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: Routine Outfall 006

Report Number: IRA0398

Sampled: 01/05/08 Received: 01/05/08

CORRECTIVE ACTION REPORT

Department: Wet Chemistry Method: EPA 300.0 OC Batch: 8A06026 Date: 02/18/2008 Matrix: Water

Identification and Definition of Problem:

The nitrate results for IRA0398-01 and IRA0400-01were reported incorrectly.

Determination of the Cause of the Problem:

The nitrate results were reported from a nitric acid-preserved container due to analyst error

Corrective Action Taken:

Nitrate results for samples IRA0398-01 and IRA0400-01 have been revised to include results from the unpreserved containers provided (sample suffix RE1), albeit outside the method-specified holding time, as well as the orginal results from the incorrect containers. Results have been qualified to note holding time exceedance. All personnel involved with the incorrect analysis have been retrained and discipinary taken.

()Date: 02/20/2008 04:01 PM Quality Assurance Approval: Dave Dawes

TestAmerica Irvine

Joseph Doak Project Manager

IRA0398 <Page 2 of 15> NPDES - 1371

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MWH-Pasadena/Boeing 618 Michillinda Avenue, Suite 200 Arcadia, CA 91007 Attention: Bronwyn Kelly Project ID: Routine Outfall 006

Report Number: IRA0398

Sampled: 01/05/08 Received: 01/05/08

METALS MDL Reporting Sample Dilution Date Date Data Analyte Method Batch Limit Limit Result Factor Extracted Analyzed Qualifiers Sample ID: IRA0398-01 (Outfall 006 - Water) Reporting Units: ug/l 8A07054 0.20 0.37 01/07/08 01/08/08 EPA 200.8 2.0 J Antimony 1 Cadmium EPA 200.8 8A07054 0.11 1.0 0.14 1 01/07/08 01/08/08 J 8A07054 0.75 2.0 1.9 01/07/08 01/08/08 Copper EPA 200.8 1 J Lead EPA 200.8 8A07054 0.30 1.0 0.70 01/07/08 01/08/08 J 1 Thallium EPA 200.8 8A07054 0.20 1.0 ND 1 01/07/08 01/08/08

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Report Number: IRA0398

Sampled: 01/05/08 Received: 01/05/08

DISSOLVED METALS									
Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result		Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA0398-01 (Outfall 006 - V	Vater) - cont.								
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	8A08129	0.20	2.0	0.35	1	01/08/08	01/08/08	J
Cadmium	EPA 200.8-Diss	8A08129	0.11	1.0	ND	1	01/08/08	01/08/08	
Copper	EPA 200.8-Diss	8A08129	0.75	2.0	ND	1	01/08/08	01/08/08	
Lead	EPA 200.8-Diss	8A08129	0.30	1.0	ND	1	01/08/08	01/08/08	
Thallium	EPA 200.8-Diss	8A08129	0.20	1.0	ND	1	01/08/08	01/08/08	

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Report Number: IRA0398

Sampled: 01/05/08 Received: 01/05/08

INORGANICS									
Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA0398-01 (Outfall 006 - V	Vater) - cont.								
Reporting Units: mg/l									
Hexane Extractable Material (Oil &	EPA 1664A	8A07065	1.3	4.8	ND	1	01/07/08	01/07/08	
Grease)									
Chloride	EPA 300.0	8A06026	5.0	10	110	20	01/06/08	01/06/08	
Nitrate/Nitrite-N	EPA 300.0	8A06026	15	26	420	100	01/06/08	01/06/08	A-01
Sulfate	EPA 300.0	8A06026	4.0	10	21	20	01/06/08	01/06/08	
Total Dissolved Solids	SM2540C	8A08083	10	10	370	1	01/08/08	01/08/08	
Sample ID: IRA0398-01RE1 (Outfall 00	6 - Water)								
Reporting Units: mg/l									
Nitrate/Nitrite-N	EPA 300.0	8B18046	0.15	0.26	1.2	1	01/18/08	02/18/08	Н

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Report Number: IRA0398

Sampled: 01/05/08 Received: 01/05/08

Metals by EPA 200 Series Methods									
Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA0398-01 (Outfall 006 - Wa	ater) - cont.								
Reporting Units: ug/l									
Mercury, Dissolved	EPA 245.1	W8A0148	0.050	0.20	ND	1	01/08/08	01/09/08	
Mercury, Total	EPA 245.1	W8A0148	0.050	0.20	ND	1	01/08/08	01/09/08	

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Report Number: IRA0398

Sampled: 01/05/08 Received: 01/05/08

SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: Outfall 006 (IRA0398-01) - Wate	er				
EPA 300.0	2	01/05/2008 10:45	01/05/2008 19:00	01/06/2008 07:00	01/06/2008 10:08
Sample ID: Outfall 006 (IRA0398-01RE1) -	Water				
EPA 300.0	2	01/05/2008 10:45	01/05/2008 19:00	01/18/2008 07:00	02/18/2008 11:35

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Report Number: IRA0398

Sampled: 01/05/08 Received: 01/05/08

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8A07054 Extracted: 01/07/08	8										
Blank Analyzed: 01/07/2008-01/08/2008	(8A07054_B)	[K 1)									
Antimony	ND	2.0	0.20	ug/l							
Cadmium	ND	1.0	0.11	ug/l							
Copper	ND	2.0	0.75	ug/l							
Lead	ND	1.0	0.30	ug/l							
Thallium	ND	1.0	0.20	ug/l							
LCS Analyzed: 01/07/2008-01/08/2008 (
	88.8	2.0	0.20	ug/l	80.0		111	85-115			
Antimony Cadmium	89.4	2.0	0.20	ug/l	80.0		111 112	85-115 85-115			
Copper	89.4 89.2	2.0	0.11	ug/l ug/l	80.0		112	85-115 85-115			
Lead	89.2 88.5	2.0	0.75	ug/l	80.0		112	85-115			
Thallium	86.1	1.0	0.30	ug/l	80.0		108	85-115			
Thannum	80.1	1.0	0.20	ug/1	80.0		108	85-115			
Matrix Spike Analyzed: 01/07/2008-01/0)8/2008 (8A0	7054-MS1)			Sou	rce: IRA	0401-01				
Antimony	89.1	2.0	0.20	ug/l	80.0	1.27	110	70-130			
Cadmium	84.7	1.0	0.11	ug/l	80.0	0.935	105	70-130			
Copper	83.7	2.0	0.75	ug/l	80.0	3.32	101	70-130			
Lead	83.6	1.0	0.30	ug/l	80.0	0.923	103	70-130			
Thallium	88.7	1.0	0.20	ug/l	80.0	ND	111	70-130			
Matrix Spike Analyzed: 01/07/2008-01/0)8/2008 (8A0	7054-MS2)			Sou	ırce: IRA	0399-01				
Antimony	85.0	2.0	0.20	ug/l	80.0	1.00	105	70-130			
Cadmium	85.6	1.0	0.11	ug/l	80.0	ND	107	70-130			
Copper	88.1	2.0	0.75	ug/l	80.0	5.80	103	70-130			
Lead	82.6	1.0	0.30	ug/l	80.0	2.27	100	70-130			
Thallium	86.9	1.0	0.20	ug/l	80.0	ND	109	70-130			
Matrix Spike Dup Analyzed: 01/07/2008	8-01/08/2008	(8A07054-MS	D1)		Sou	ırce: IRA	0401-01				
Antimony	87.9	2.0	0.20	ug/l	80.0	1.27	108	70-130	1	20	
Cadmium	84.2	1.0	0.11	ug/l	80.0	0.935	104	70-130	1	20	
Copper	83.2	2.0	0.75	ug/l	80.0	3.32	100	70-130	1	20	
Lead	83.1	1.0	0.30	ug/l	80.0	0.923	103	70-130	1	20	
Thallium	88.4	1.0	0.20	ug/l	80.0	ND	110	70-130	0	20	
				-							

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MWH-Pasadena/Boeing 618 Michillinda Avenue, Suite 200 Arcadia, CA 91007 Attention: Bronwyn Kelly Project ID: Routine Outfall 006

Report Number: IRA0398

Sampled: 01/05/08 Received: 01/05/08

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: 8A08129 Extracted: 01/08/08											
Datch. 6A0612) Extracted. 01/06/06	-										
Blank Analyzed: 01/08/2008 (8A08129-B	LK1)										
Antimony	ND	2.0	0.20	ug/l							
Cadmium	ND	1.0	0.11	ug/l							
Copper	ND	2.0	0.75	ug/l							
Lead	ND	1.0	0.30	ug/l							
Thallium	ND	1.0	0.20	ug/l							
LCS Analyzed: 01/08/2008 (8A08129-BS	1)										
Antimony	78.0	2.0	0.20	ug/l	80.0		98	85-115			
Cadmium	79.9	1.0	0.11	ug/l	80.0		100	85-115			
Copper	76.8	2.0	0.75	ug/l	80.0		96	85-115			
Lead	85.3	1.0	0.30	ug/l	80.0		107	85-115			
Thallium	86.4	1.0	0.20	ug/l	80.0		108	85-115			
Matrix Spike Analyzed: 01/08/2008 (8A0	8129-MS1)				Sou	rce: IRA	0393-01				
Antimony	79.2	2.0	0.20	ug/l	80.0	0.570	98	70-130			
Cadmium	76.6	1.0	0.11	ug/l	80.0	ND	96	70-130			
Copper	76.2	2.0	0.75	ug/l	80.0	2.23	92	70-130			
Lead	83.2	1.0	0.30	ug/l	80.0	ND	104	70-130			
Thallium	84.3	1.0	0.20	ug/l	80.0	ND	105	70-130			
Matrix Spike Dup Analyzed: 01/08/2008	(8A08129-M	ISD1)			Sou	rce: IRA	0393-01				
Antimony	79.1	2.0	0.20	ug/l	80.0	0.570	98	70-130	0	20	
Cadmium	76.4	1.0	0.11	ug/l	80.0	ND	96	70-130	0	20	
Copper	76.0	2.0	0.75	ug/l	80.0	2.23	92	70-130	0	20	
Lead	82.9	1.0	0.30	ug/l	80.0	ND	104	70-130	0	20	
Thallium	83.6	1.0	0.20	ug/l	80.0	ND	104	70-130	1	20	

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MWH-Pasadena/Boeing 618 Michillinda Avenue, Suite 200 Arcadia, CA 91007 Attention: Bronwyn Kelly Project ID: Routine Outfall 006

Report Number: IRA0398

Sampled: 01/05/08 Received: 01/05/08

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8A06026 Extracted: 01/06/08	_										
Blank Analyzed: 01/06/2008 (8A06026-B	LK1)										
Chloride	ND	0.50	0.25	mg/l							
Nitrate/Nitrite-N	ND	0.26	0.15	mg/l							
Sulfate	0.320	0.50	0.20	mg/l							J
LCS Analyzed: 01/06/2008 (8A06026-BS	1)										
Chloride	4.53	0.50	0.25	mg/l	5.00		91	90-110			
Sulfate	9.97	0.50	0.20	mg/l	10.0		100	90-110			
Matrix Spike Analyzed: 01/06/2008 (8A0	6026-MS1)				Sou	rce: IRA(0399-01				
Chloride	12.9	0.50	0.25	mg/l	5.00	7.84	101	80-120			
Sulfate	22.3	0.50	0.20	mg/l	10.0	12.0	103	80-120			
Matrix Spike Dup Analyzed: 01/06/2008	(8A06026-MS	5D1)			Sou	rce: IRA(0399-01				
Chloride	12.6	0.50	0.25	mg/l	5.00	7.84	94	80-120	3	20	
Sulfate	21.6	0.50	0.20	mg/l	10.0	12.0	96	80-120	3	20	
Batch: 8A07065 Extracted: 01/07/08	_										
Blank Analyzed: 01/07/2008 (8A07065-B	LK1)										
Hexane Extractable Material (Oil &	ND	5.0	1.4	mg/l							
Grease)				·							
LCS Analyzed: 01/07/2008 (8A07065-BS	1)										MNR1
Hexane Extractable Material (Oil & Grease)	17.9	5.0	1.4	mg/l	20.2		89	78-114			
LCS Dup Analyzed: 01/07/2008 (8A0706	5-BSD1)										
Hexane Extractable Material (Oil & Grease)	18.6	5.0	1.4	mg/l	20.2		92	78-114	4	11	



Arcadia, CA 91007

Attention: Bronwyn Kelly

MWH-Pasadena/Boeing 618 Michillinda Avenue, Suite 200 17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

Project ID: Routine Outfall 006

Report Number: IRA0398

Sampled: 01/05/08 Received: 01/05/08

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result %	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8A08083 Extracted: 01/08/08	<u>}</u>										
Blank Analyzed: 01/08/2008 (8A08083-B	LK1)										
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 01/08/2008 (8A08083-BS	1)										
Total Dissolved Solids	992	10	10	mg/l	1000		99	90-110			
Duplicate Analyzed: 01/08/2008 (8A0808	3-DUP1)				Sou	rce: IRA04	479-01				
Total Dissolved Solids	1930	10	10	mg/l		1940			0	10	
Batch: 8B18046 Extracted: 02/18/08	<u>1</u>										
Blank Analyzed: 02/18/2008 (8B18046-B	LK1)										
Nitrate/Nitrite-N	ND	0.26	0.15	mg/l							

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Report Number: IRA0398

Sampled: 01/05/08 Received: 01/05/08

METHOD BLANK/QC DATA

Metals by EPA 200 Series Methods

		Reporting			Spike	Source		%REC		RPD	Data
Analyte	Result	Limit	MDL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifiers
Batch: W8A0148 Extracted: 01/08/0	8										
Blank Analyzed: 01/09/2008 (W8A0148-	BLK1)										
Mercury, Dissolved	ND	0.20	0.050	ug/l							
Mercury, Total	ND	0.20	0.050	ug/l							
LCS Analyzed: 01/09/2008 (W8A0148-B	S1)										
Mercury, Dissolved	0.965	0.20	0.050	ug/l	1.00		96	85-115			
Mercury, Total	0.965	0.20	0.050	ug/l	1.00		96	85-115			
Matrix Spike Analyzed: 01/09/2008 (W8	A0148-MS1)				Sou	rce: 7120	722-01				
Mercury, Dissolved	1.97	0.40	0.10	ug/l	2.00	ND	98	70-130			
Mercury, Total	1.97	0.40	0.10	ug/l	2.00	ND	98	70-130			
Matrix Spike Analyzed: 01/09/2008 (W8	A0148-MS2)				Sou	rce: 7120	722-03				
Mercury, Dissolved	1.88	0.40	0.10	ug/l	2.00	ND	94	70-130			
Mercury, Total	1.88	0.40	0.10	ug/l	2.00	ND	94	70-130			
Matrix Spike Dup Analyzed: 01/09/2008	(W8A0148-M	SD1)			Sou	rce: 7120	722-01				
Mercury, Dissolved	1.92	0.40	0.10	ug/l	2.00	ND	96	70-130	2	20	
Mercury, Total	1.92	0.40	0.10	ug/l	2.00	ND	96	70-130	2	20	
Matrix Spike Dup Analyzed: 01/09/2008	(W8A0148-M	SD2)			Sou	rce: 7120	722-03				
Mercury, Dissolved	1.96	0.40	0.10	ug/l	2.00	ND	98	70-130	4	20	
Mercury, Total	1.96	0.40	0.10	ug/l	2.00	ND	98	70-130	4	20	

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Report Number: IRA0398

Sampled: 01/05/08 Received: 01/05/08

DATA QUALIFIERS AND DEFINITIONS

- A-01 Please see Corrective Action Report.
- **H** Sample analysis performed past method-specified holding time.
- J 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.
- MNR1 There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- **RPD** Relative Percent Difference

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Report Number: IRA0398

Sampled: 01/05/08 Received: 01/05/08

Certification Summary

TestAmerica Irvine

Method	Matrix	Nelac	California
EDD + Level 4	Water		
EPA 1664A	Water		
EPA 200.8-Diss	Water	Х	Х
EPA 200.8	Water	Х	Х
EPA 300.0	Water	Х	Х
SM2540C	Water	Х	

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

Aquatic Testing Laboratories-SUB California Cert #1775

4350 Transport Street, Unit 107 - Ventura, CA 93003

Analysis Performed: Bioassay-7 dy Chrnic Samples: IRA0398-01

Eberline Services - SUB

2030 Wright Avenue - Richmond, CA 94804

Analysis Performed: Gamma Spec Samples: IRA0398-01

Analysis Performed: Gross Alpha Samples: IRA0398-01

Analysis Performed: Gross Beta Samples: IRA0398-01

Analysis Performed: Radium, Combined Samples: IRA0398-01

Analysis Performed: Strontium 90 Samples: IRA0398-01

Analysis Performed: Tritium Samples: IRA0398-01

Analysis Performed: Uranium, Combined Samples: IRA0398-01

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MWH-Pasadena/Boeing	Project ID:	Routine Outfall 006		
618 Michillinda Avenue, Suite 200			Sampled:	01/05/08
Arcadia, CA 91007	Report Number:	IRA0398	Received:	01/05/08
Attention: Bronwyn Kelly				

Vista Analytical NELAC Cert #02102CA, California Cert #1640, Nevada Cert #CA-413 1104 Windfield Way - El Dorado Hills, CA 95762 Analysis Performed: 1613-Dioxin-HR-Alta

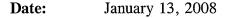
Samples: IRA0398-01

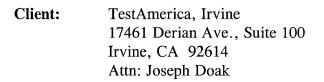
Weck Laboratories, Inc

14859 E. Clark Avenue - City of Industry, CA 91745 Method Performed: EPA 245.1 Samples: IRA0398-01

MVH-Arcadia 618 Michillinda Avenue. Suite 200 Arcadia, CA 91007 Test America Contact: Joseph Doak Project Manager: Bronwyn Kell Project Manager: Bronwyn Kell Sampler: アンパイ・シング・パーク ごディア・シンジ だ. Sample Container # Description Matrix Type © Outfall 006 W 1L Poly 1	Suite 200 seph Doa jwyn K€									ANALYSIS REQUIRED	S REQL	JIRED	
anager: E めんたいがん えど、 えど、 Matrix W	1wyn Ke		Boeing-S Routine (Stormwat	Boeing-SSFL NPDES Routine Outfall 006 Stormwater at FSDF-2						п 226 Вадіит Вадіит Падіит	42 .9646		Field readings Temp = アモッレニ 5 3 よぐ
Sample Matrix W			Phone Number: (626) 568-6691 Fax Number: (626) 568-6515	umber: 3-6691 ber: 3-6515		Recoverable , Cu, Pb, Hç	noo ila bns) D 	20N+EON '70		s Alpha(900.0 (900.0), Tritiui (90, 5r-90 (909 bined Radium (904.0), Uran (904.0), Uran (904.0), CS- (0 or 901.1) 0 or 901.1)	viic Toxicity	I D ssolved Me D, Pb, Hg, Tl	pH = 7° \hat{X} Time of readings = 70° 75°
W 11	Container	# of Cont.	Sampling Date/Time	Preservative	Bottle #				Sat	Beta (906) (903 (903 (903 (908) (908)			Comments
			5401	HNO3	1A	×							
3	1L Poly	-		HNO3	1B	×							
all 006 W	1L Amber	2		None	2A, 2B		×						
Outfall 006 W 1L A	1L Amber	2		HCI	3A, 3B		×						
Outfall 006 W 500 ml	iu >	2		None	4A, 4B			×					
Outfall 006 W 500 ml	lm v	-		None	ъ				×				
Outfall 006 W 2.5 G	2.5 Gal Cube 500 ml Amber			None None	6A 6B					×			Unfiltered and unpreserved analysis
Outfall 006 W 1 G	1 Gal Poly	-		None	7						×		Only test if second rain event of the year
3	1L Poly	-	1-5-08	None	ω							×	Filter w/in 24brs et receipt at lab
													Ro/ 5/1 /
							+						CAN N N
Relinquished By Cubir Bar		`	Date/Time: /- 5- <i>v</i> 3	133	Received By	× (12	H F	Date/Time	me: / 33	-	Tur 24 F	Turn around Time: (check) 24 Hours 5 Days
Beinquished By	HHH H	-	$\int \frac{\text{Date/Time:}}{0 > \sqrt{2} \xi}$	(90)	And By) 2 2	- ros	50	Date/Tim <i>t/S_1</i>	Time: 0 / βιςθο	ç	481	48 Hours 10 Days 72 Hours Normal X
Relinquished By		•	Date/Time:		Received By	ž			Date/ I Ime:			San	ntegrity: (che

LABORATORY REPORT







"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

Laboratory No.:A-08010504Sample I.D.:IRA0398-01 (Outfall 006)

Sample Control: The sample was received by ATL within the recommended hold time, chilled (sample brought directly from field) and with the chain of custody record attached. Testing conducted on only one sample per client instruction (rain runoff sample).

Date Sampled:	01/05/08
Date Received:	01/05/08
Temp. Received:	10°C
Chlorine (TRC):	0.0 mg/l
Date Tested:	01/06/08 to 01/12/08

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. L Laboratory Director

CERIODAPHNIA CHRONIC BIOASSAY EPA METHOD 1002.0



Lab No.: A-08010504-001 Client/ID: Test America – Outfall 006 Date Tested: 01/06/08 to 01/12/08

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-080106. 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: 6 days. Statistics: ToxCalc computer program.

RESULTS SUMMARY

Sample Concentration	Percent Survival	Mean Number of Young Per Female
Control	100%	19.4
100% Sample	100%	22.4
* Sample not s	tatistically significantly le	ess 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 (19.4 young)
≥60% surviving controls had 3 broods	Pass (80% with 3 broods)
PMSD $<47\%$ for reproduction; if $>47\%$ and no toxicity at IWC, the test must be repeated	Pass (PMSD = 18.6%)
Statistically significantly different concentrations relative difference >13%	Pass (no concentration significantly different)
Concentration response relationship acceptable	Pass (no significant response at concentration tested)

			Cerioda	aphnia Sur	rvival and	l Reprodu	ction Tes	st-Survi	val Day 6			
Start Date:	1/6/2008 1	3:00	Test ID:	8010504c		(Sample II	D:	Outfall 00	6		
End Date:	1/12/2008	13:00	Lab ID:	CAATL-Ac	uatic Tes	ting Labs	Sample T	vpe:	EFF2-Ind	ustrial		
Sample Date:	1/5/2008 1	0:45		FWCH 4T	-	-	•		CD-Cerio	daphnia c	lubia	
Comments:												
Conc-%	1	2	3	4	5	6	7	8	9	10		
<u> </u>	1 0 0 0 0	1 0 0 0 0										

Conc-%	ł		3	4	5	6	1	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	

				Not			Fisher's	1-Tailed	lsot	onic
Conc-%	Mean	N-Mean	Resp	Resp	Total	Ν	Exact P	Critical	Mean	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

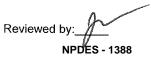
Hypothesis	Test (1-tail,	0.05)	NOEC	LOEC	ChV	TU		n an	
Fisher's Exa	ict Test		100	>100		1			
Treatments	vs D-Control								
				Line	ar Interpo	lation (20	0 Resamples)		***
Point	%	SD	95%		Skew	•	• /		
IC05	>100								
IC10	>100								
IC15	>100						1.0		
IC20	>100						4		
IC25	>100						0.9		
IC40	>100						0.8 -		
IC50	>100						0.7 -		
			Alexandre and a second s	**************************************	40.40 Alliantino and an and				
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							5 05]		
							ອເດີ 0.5 ອິມ 0.4		

0.3 0.2 0.1 0.0

50

Dose %

100



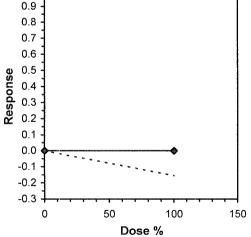
150

			Cerioda	phnia Su	rvival and	l Reprodu	iction Tes	st-Reprod	luction		
Start Date:	1/6/2008 1	3:00	Test ID: 8	B010504c		Ş	Sample ID	:	Outfall 006	3	
End Date:	1/12/2008	13:00	Lab ID: 0	CAATL-Ac	quatic Test	ting Labs S	Sample Ty	/pe:	EFF2-Indu	ustrial	
Sample Date:	1/5/0000 1	0.45	Drotocol: I			1 0 02 0 7	Test Spec	ies.	CD_Cerior	laphnia dubia	
Sample Date.	1/0/2000 1	0.40		WV01141	II-LFA-02	1-11-02-0	rear opec	100.	OD-OCHOC	aprilla Gubia	
Comments:	1/5/2006 1	0.40		- VUCH 41	II-LFA-02	1-11-02-0	rest opec		OD-OCHOC		
	1/3/2008 1	2	3	4	5	6	7	8	9	10	
Comments:	1						7 20.000	8 19.000	9 25.000		

				•	Transform	n: Untran	sformed			1-Tailed		Isot	onic
Co	nc-%	Mean	N-Mean	Mean	Min	Max	CV%	Ν	t-Stat	Critical	MSD	Mean	N-Mean
D	-Control	19.400	1.0000	19.400	11.000	25.000	21.350	10				20.900	1.0000
	100	22.400	1.1546	22.400	13.000	31.000	22.880	10	-1.440	1.734	3.613	20.900	1.0000

Auxiliary Tests	Statistic		Critical		Skew	Kurt
Shapiro-Wilk's Test indicates normal distribution (p > 0.05)	0.97752		0.905		-0.3274	0.0654
F-Test indicates equal variances (p = 0.54)	1.53109		6.54109			
Hypothesis Test (1-tail, 0.05)	MSDu	MSDp	MSB	MSE	F-Prob	df
Homoscedastic t Test indicates no significant differences	3.61344	0.18626	45	21.7111	0.16712	1, 18
Treatments vs D-Control						

			Lir	near Interpolation	(200 Resamples)	
Point	%	SD	95% CL	Skew		
IC05	>100					
IC10	>100					
IC15	>100				1.0	
IC20	>100				0.9	
IC25	>100				0.8 -	
IC40	>100				0.7	
IC50	>100				•	
					0.6 -	



CERIODAPHNIA DUBIA CHRONIC BIOASSAY EPA METHOD 1002.0 Raw Data Sheet



Lab No.: A-08010504

Client ID: TestAmerica - Outfall 006

Start Date: 01/06/2008

			V 1			7									Date: 01		
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		calinity (m							(e 1	<u></u>	5 			2-700	82		
	Ha	rdness (m	g/l CaCO)		R*W	- <u> </u>		92	8	M N#14-14-2				130		
	An	nmonia (m	g/l NH ₃ -N	<u>1)</u>					2	0-1					0.2		
	Source of Neonates																
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Circled fourth brood not used in statistical analysis.

 7^{th} day only used if <60% of the surviving control females have produced their third brood.

JAN. 5. 2008 7	: 30 P M	DEL MAR ANA	LYTICAL TRACT ORDER	NO. 679 P. 1
			TestAmerica Irvine IRA0398	
SENDING LABORATORY	″. ≟	in the second	RECEIVING LAB	ORATORY:
TestAmerica Irvine 17461 Derian Avenue. S Irvine, CA 92614 Phone: (949) 261-1022	Suite 100		4350 Transport Ventura, CA 93	
Fax: (949) 260-3297 Project Manager: Josept	n Doak		Phone :(805) 65 Fax: (805) 650 Project Locatior Receipt Tempera	-0756 n: California
Analysis	Units	Due	Expires	Comments
Sample ID: IRA0398-01	Water		Sampled: 01/05/08 10):45 ph≔7.8, temp=53.60
Bioassay-7 dy Chrnic Containers Supplied: 1 gal Poly (M)	N/A	01/16/08	01/06/08 22:45	Cerio, EPA/821-R02-013, Sub to Aquatic testing

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1			A.M.	2011
Released By	\leq	Date/Time	Received By	<u>1-5-08</u> 1700 Date/Time
Released By		Date/Time	Received By	Date/Time Page 1 of
			· •	

and and sold in the second

NPDES - 1391

Page 1 of 1		Field readings: Temp = 12 ビット こ 5 3、 6 の	pH = 7.8 Time of readings = 10.45	Summers							Unfiltered and unpreserved analysis	Only test if second rain event of the year	Filter w/in 24hrs of receipt at lab			Turn around Time: (check) 24 Hours 5 Days 48 Hours 10 Days 72 Hours Normal X Sample Integrity: (check) Intact On fce:
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	S RE		ronic Toxicity	чэ								×				
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0		Jdeuers)	DD (and all con	IDT			×								 	-call
CUSTODY FORM		g, Tl B, Tl	al Recoverable Cd, Cu, Pb, H	toT ,dS	×	×										y y y
		0 0		Bottle #	1A	1B	2A, 2B	3A, 3B	4A, 4B	5	6A 6B	2	8			Received By
CHAIN O		Boeing-SSFL NPDES Routine Outfall 006 Stormwater at FSDF-2	mber: -6691 -6515 -6515	Preservative	HNO ₃	HNO ₃	None	HCI	None	None	None None	None	None			1200
-	Project:	Boeing-SS Routine C Stormwate	Phone Number: (626) 568-6691 Fax Number: (626) 568-6515	Sampling Date/Time	5401								1-5-08	2		Date/Time: Date/Time: Date/Time: Date/Time:
2/20/0		a o	elly	# of Cont.		~	2	2	2	-		-	-			
J Version 12	SS:	ue, Suite 20 Joseph Do	Bronwyn Kelly ^{#1,} Å·	Container Tvpe	1L Poly	1L Poly	1L Amber	1L Amber	500 ml Poly	500 ml Poly	2.5 Gal Cube 500 ml Amber	1 Gal Poly	1L Poly			See
Jericá	e/Addre	cadia da Aveni 91007 Contact:	nager. NREISCI	Sample Matrix	M	M	N	M	X	M	3	3	N			d By d By d By
Test America version 12/20/07	Client Name/Address	MWH-Arcadia 618 Michillinda Avenue, Suite 200 Arcadia, CA 91007 Test America Contact: Joseph Doak	Project Manager: Bronv Sampler: MARISCHI, J	Sample	Outfall 006	Outfall 006- Dun	Outfall 006	Outfall 006	Outfall 006	Outfall 006	Outfall 006	Outfall 006	Outfall 006			Relinquished By Relinquished By Relinquished By Relinquished By

NPDES - 1392





REFERENCE TOXICANT DATA

CERIODAPHNIA CHRONIC BIOASSAY EPA METHOD 1002.0 REFERENCE TOXICANT - NaCl



QA/QC Batch No.: RT-080106

Date Tested: 01/06/08 to 01/12/08

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: 6 days. Statistics: ToxCalc computer program.

Sample Concentration	Percent Sur	vival	Mean Number of Young Per Female					
Control	100%		20.5					
0.25 g/l	100%		19.5					
0.5 g/l	100%		19.5					
1.0 g/l	100%		14.0	*				
2.0 g/l	80%		3.2	*				
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.								

RESULTS SUMMARY

CHRONIC TOXICITY

Survival LC50	2.5 g/l
Reproduction IC25	0.88 g/l

QA/QC TEST ACCEPTABILITY

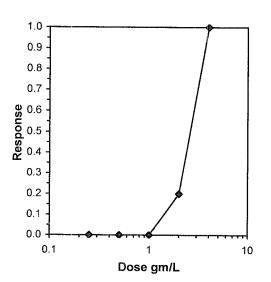
Parameter	Result
Control survival ≥80%	Pass (100% Survival)
≥15 young per surviving control female	Pass (20.5 young)
$\geq 60\%$ surviving controls had 3 broods	Pass (90% with 3 broods)
PMSD <47% for reproduction	Pass (PMSD = 19.1%)
Stat. sig. diff. conc. relative difference >13%	Pass (Stat. sig. diff. conc. $= 31.7\%$)
Concentration response relationship acceptable	Pass (Response curve normal)

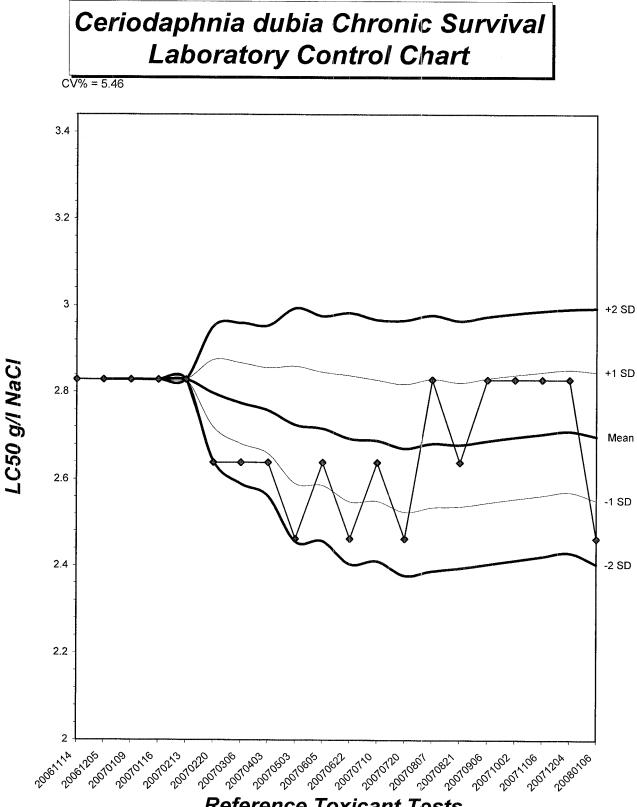
			Ceriod	aphnia Su	vival and	Reprod	uction Tes	st-Surviv	al Day 6	******	
Start Date:	1/6/2008 1	3:00		RT-08010		the second s	Sample ID	CONTRACTOR OF THE OWNER WATER OF THE OWNER OWNER OF THE OWNER	REF-Ref Toxicant		
End Date:	1/12/2008	13:00	Lab ID:	CAATL-Ac	uatic Tes	ting Labs	Sample Ty	/pe:	NACL-Soc	lium chloride	
Sample Date: Comments:	1/6/2008			FWCH-EP			Test Spec	•	CD-Cerioo	laphnia dubia	
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	0.0000	0.0000	
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	

				Not			Fisher's	1-Tailed	Number	Total
Conc-gm/L	Mean	N-Mean	Resp	Resp	Total	Ν	Exact P	Critical	Resp	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	Ő	10
1	1.0000	1.0000	0	10	10	10	1.0000		Ő	10
2	0.8000	0.8000	2	8	10	10	0.2368	0.0500	2	10
4	0.0000	0.0000	10	0	10	10	0.2000	0.0000	10	10

Hypothesis Test (1-tail, 0.05)	NOEC	LOEC	ChV	TU	an a
Fisher's Exact Test	2	4	2.82843		
Treatments vs D-Control					
			Trimmed S	Spearman-Karber	den men men men de la proprieta en anten en person de la den en en en en person de la menorma en en persona de

Trim Level	EC50	95%	CL
0.0%	2.4623	2.0663	2.9342
5.0%	2.5108	2.0545	3.0683
10.0%	2.5519	1.9976	3.2599
20.0%	2.5937	2.2616	2.9745
Auto-0.0%	2.4623	2.0663	2.9342





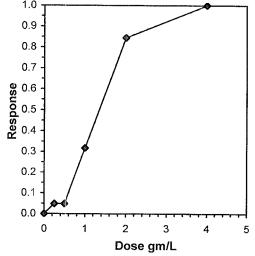
Reference Toxicant Tests

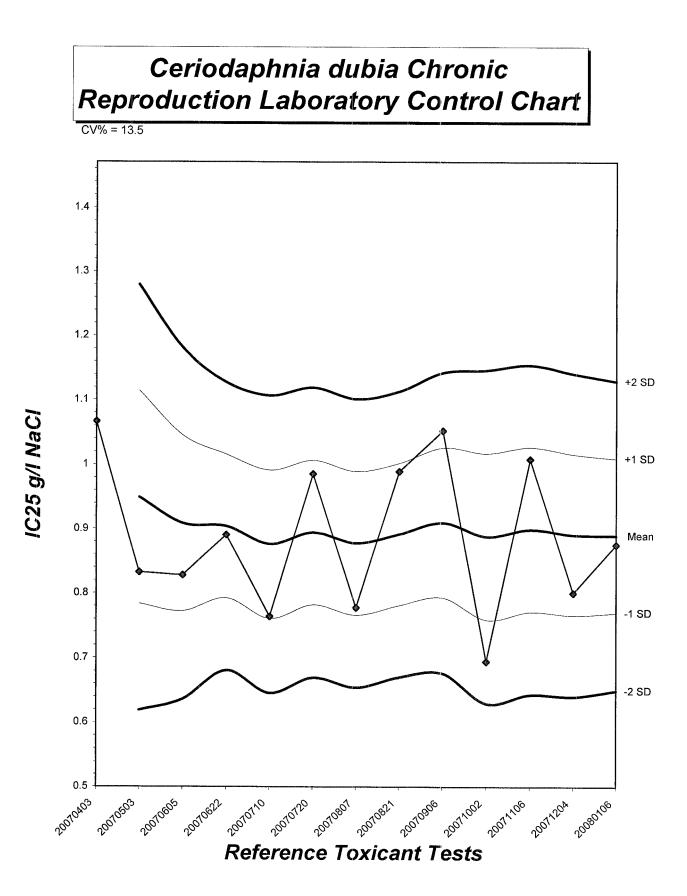
			Ceriod	aphnia Su	rvival and	d Reprod	uction Tes	st-Repro	duction		
Start Date:	1/6/2008 1	3:00	Test ID:	RT-08010	6c		Sample ID):	REF-Ref Toxicant		
End Date:	1/12/2008 13:00		Lab ID:	CAATL-Ad	quatic Tes	ting Labs	Sample Ty	ype:	NACL-Soc	dium chloride	
Sample Date:	1/6/2008		Protocol:	FWCH-EF	PA-821-R-	02-013	Test Spec	ies:	CD-Cerioo	laphnia dubia	
Comments:											
Conc-gm/L	1	2	3	4	5	6	7	8	9	10	
D-Control	23.000	11.000	21.000	21.000	23.000	20.000	19.000	22.000	20.000	25.000	
0.25	12.000	24.000	19.000	22.000	9.000	20.000	21.000	21.000	22.000	25.000	
0.5	21.000	19.000	21.000	22.000	16.000	12.000	22.000	21.000	22.000	19.000	
1	19.000	9.000	9.000	19.000	14.000	10.000	16.000	17.000	19.000	8.000	
2	8.000	2.000	2.000	5.000	4.000	3.000	3.000	5.000	0.000	0.000	
4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

		_		Transform	n: Untran	sformed		Rank	1-Tailed	Isot	onic
Conc-gm/L	Mean	N-Mean	Mean	Min	Max	CV%	N	Sum	Critical	Mean	N-Mean
D-Control	20.500	1.0000	20.500	11.000	25.000	18.432	10			20.500	1.0000
0.25	19.500	0.9512	19.500	9.000	25.000	26.177	10	102.00	76.00	19.500	0.9512
0.5	19.500	0.9512	19.500	12.000	22.000	16.617	10	94.50	76.00	19.500	0.9512
*1	14.000	0.6829	14.000	8.000	19.000	32.819	10	62.50	76.00	14.000	0.6829
*2	3.200	0.1561	3.200	0.000	8.000	76.263	10	55.00	76.00	3.200	0.1561
4	0.000	0.0000	0.000	0.000	0.000	0.000	10			0.000	0.0000

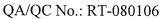
Auxiliary Tests					Statistic	Critical	Skew	Kurt
Shapiro-Wilk's Test indicates nor			(p <= 0.05)		0.91281	0.947	-0.9793	0.67912
Bartlett's Test indicates equal van	riances (p =	: 0.25)			5.39	13.2767		
Hypothesis Test (1-tail, 0.05)	NOEC	LOEC	ChV	TU				
Steel's Many-One Rank Test	0.5	1	0.70711					
Treatments vs D-Control								

				Linea	ar Interpola	tion (200 Resamples)
Point	gm/L	SD	95%	CL	Skew	
IC05	0.5023	0.1876	0.0809	0.6178	-0.0659	
IC10	0.5955	0.1768	0.1617	0.7497	-0.5184	
IC15	0.6886	0.1424	0.2426	0.9253	-0.5389	1.0
IC20	0.7818	0.1259	0.4995	1.0352	0.2728	
IC25	0.8750	0.1224	0.6413	1.1094	0.3153	0.9
IC40	1.1574	0.1139	0.9216	1.3331	-0.0890	0.8
IC50	1.3472	0.0972	1.1197	1.4847	-0.4227	
						0.7 -
						4 06-





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



IL

Start Date: 01/06/2008

	D			Nu	mbe	r of Y	oung	Prod	uced			Total	No.	Analyst
Sample	Day	Α	В	С	D	E	F	G	н	I	J	Live Young	Live Adults	Initials
	1	\mathcal{O}	\mathcal{O}	\mathcal{O}	\bigcirc	\bigcirc	0	\mathcal{O}	\bigcirc	\circ	C	U	10	A
	2	0	\mathcal{O}	0	\mathcal{O}	\mathcal{O}	C	\mathcal{O}	C	0	\bigcirc	C	10	6
	3	0	\mathcal{C}	2	\mathcal{O}	0	C	M	C	3	0	8	10	2
	4	4	3	ð	Ч	3	S	Ø	2	\mathcal{O}	З	21	10	R
Control	5	9	8	2	7	6	7	6	2	6	7	70	10	N
	6	10	Ó	12	10	14	/	10	13	11	15	106	10	
	7		_	- <u>-</u>		-	-		-		-			
	Total	23	11	21	સ	23	20	19	22	20	3 5	205	7 <i>V</i>	h
	1	\mathcal{O}	0	0	\bigcirc	\mathcal{O}	0	\mathcal{O}	\mathcal{O}	\sim	\mathcal{O}	\mathcal{O}	10	
2		0	0	0	\mathcal{O}	0	\mathcal{O}	\mathcal{O}	\mathcal{O}	\mathcal{O}	Ø	0	10	
0.25 g/l	3	\bigcirc	3	0	3	\mathcal{O}	2	$\cdot \circ$	\sim	3	\mathcal{O}	((IV	h
	4	4	\mathcal{O}	2	\mathcal{O}	3	6	4	2	\mathcal{O}	3	24	10	h
	5	8	T	7	5	6	\mathcal{O}	7	6	7	8	62	10	6
	6	0	B	(Õ	14	0	12	10	13	12	14	98	10	1
	7		-	(-	^	_; , , , , , , , , , , , , , , , , , , ,		cyperante inc.				
	Total	12	24	19	22	9	20	21	21	22	25	195	10	
	1	0	\mathcal{O}	0	O	\mathcal{O}	\mathcal{O}	0	0	0	\mathcal{O}	\bigcirc	10	A
	2	\mathcal{O}	\mathcal{O}	\mathcal{O}	\circ	O	\bigcirc	\bigcirc	\mathcal{O}	\mathcal{C}	\mathcal{O}	\mathcal{C}	10	h
	3	2	\mathcal{O}	2	\mathcal{O}	0	\sim	3	ړ	-0	\mathcal{O}	9	10	6
0.5 ~/1	4	0	3	O	3	4	3	\mathcal{C}	O	3	3	19	10	h
0.5 g/l	5	9	6	7	2	\mathcal{O}	9	б	7	2	6	66	10	6
	6	10	10	12	12	12	0	11	12	12	10	101	10	6
	7		1	_	-					~~			-	
	Total	21	19	21	22	16	12	22	21	22	19	195	10	P
Circled fourth brood not used in statistical analysis. 7^{th} day only used if <60% of the surviving control females have produced their third brood.														

Aquatic Testing Laboratories

N_{a} , DT 090106

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

Aquatic Testing Laboratories

QA/QC No.: RT-080106

Start Date: 01/06/2008

C 1				Nı	ımbe	r of Y	oung	Produ	ced			Total	No.	Analyst
Sample	Day	Α	В	С	D	E	F	G	н	Ι	J	Live Young	Live Adults	Initials
	1	O	0	0	∂	0	0	\mathcal{O}	0	\mathcal{O}	\mathcal{O}	\bigcirc	10	h
	2	0	Ø	0	0	0	0	\mathcal{O}	\mathcal{O}	\mathcal{O}	C	0	10	6
1.0 g/l	3	Ø	0	\mathcal{O}	0	0	3	0	Ũ	Z	\mathcal{O}	5	10	\square
	4	3	~2	Z	3	0	0	3	2	0	2	17	10	h
1.0 g/1	5	5	\sum	\wedge	ú	5	2	5	Ч	7	6	57	10	K
	6	1(\mathcal{O}	0	12	9	0	8	11	10	0	61	10	P
	7	((مەربىرىيە)	* 🖛		question	(1	and the second se	12.9	-
	Total	19	9	9	19	14	10	16	17	19	8	140	\mathcal{O}	
	1	0	Ò	∂	\circ	\mathcal{O}	\mathcal{O}	\mathcal{O}	$^{\circ}$	\times	Ó	0	9	h
	2	\mathcal{O}	\mathcal{O}	\mathcal{O}	0	0	0	0	\mathcal{O}	-	0	C	9	6
2.0 g/l	3	Ø	\mathcal{O}	0	\mathcal{O}	0	0	\mathcal{O}	C	/	\mathcal{O}	0	9	h
	4	2	O	Z	Z	\mathcal{O}	\mathcal{O}	\mathcal{O}	2	, and the second	0	9	9	-
	5	3	0	\mathcal{O}	2	2	M	3	\mathcal{O})	0	13	9	1
	6	3	2	- 0	0	2	C	\mathcal{O}	3		X	10	8	P
	7	_			*****	Catron and	Ngggon	-parmen	-		. 0900-a	,	Xeeninger,	
	Total	B	2	2	5	4	3	3	5	\mathcal{O}	0	32	8	\sim
	1	\times	\sim	\times	\times	\mathbf{X}	\mathbf{X}	\times	\times	\mathbf{i}	入	\mathcal{O}^{-}	O	A
	2	\sim	-			and the second s				-				~
	3	-)	يىرىمەرىيى. سەرەمەرىي)			~			
4.0 ~/1	4		1	_	(-	~		Q					
4.0 g/l	5	~	ç	_					Coloman,	Sector and the sector of the s		Quantum and a second		
	6		-		-		_	er	Y	~	,			
	7	-			-	-	,	<i>_</i>		e		-		<u> </u>
	Total		c	\mathcal{C}	\bigcirc	\circ	C	C	0	0	\mathcal{O}	\mathcal{O}	0	R
Circled fourth 7 th day only us	brood not use and if $<60\%$ o	d in st f the s	tatisti urviv	cal an ing co	alysis ontrol	femal	es hav	e prod	uced t	heir th	ird br	ood.		

CERIODAPHNIA DUBIA CHRONIC BIOASSAY Reference Toxicant - NaCl Water Chemistries Raw Data Sheet

QA/QC No.: RT-080106

Start Date: 01/06/2008

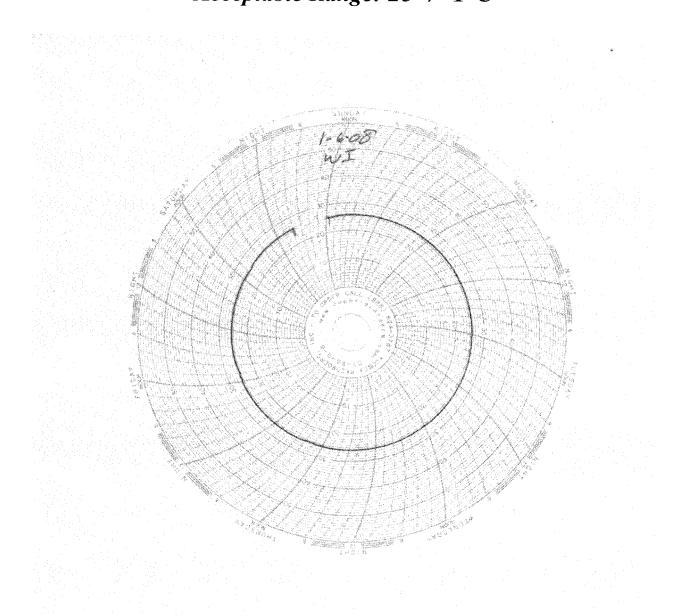
		DAY 1 DAY 2 DAY 3								DA	Y 5	DA	Y 6	DA	Y 7
		Initial	Final	Initial	Final	Initial	Final	Initial	Y 4 Final	Initial	Final	Initial	Final	Initial	Final
Analyst I	nitials:	n	\overline{h}	K	1	1	h	T	2	2	5		Th		
Time of R		130	1330	1330	13W	13a	1230	1230	1300	12W	130	130	Da		-
	DO	7.6	22	2.4	7.7	7.4	7.6	7.4	25	8.2	7.8	7.9	7.7	(_
Control	pН	7.6	24	7.4	7.3	7.3	7.2	7-2	7.7	7.5	2-6	7.5	7.6		-
	Temp	243	25.1	25.4	24.8	241	24.9	249	25.1	24.4	25.0	24:6	25-1	-	
	DO	7.5	7.3	7.5	7.5	7-5	7.7	7.3	24	8.2	25	7.9	2.7	1	-
0.25 g/l	pН	75	7.3	5.4	7.4	7.1	7.2	7.3	7.4	24	5-5	24	77		~
	Temp	24.4	252	253	24.4	242	24.5	24.7	250	24.4	25-1	24.6	25-1	(
	DO	24	22	24	7.6	7.01	7.9	7.4	7.6	8.5	7.6	8.0	75		-
0.5 g/l	pН	7.5	73	24	7.4	5-4	7.2	7.3	75	7.6	3-5	7.7	7-7	,	1
	Temp	243	251	25.3	249	24,1	252	246	24.9	24.4	24.9	24.4	-249		/
	DO	7.5	22	26).)	7.3	7.8	24	7.4	F,U	25	7.7	7-7		
1.0 g/l	pН	7.5	7.3	ש.ר	2.5	7.4	7.2	7-3	75	7.0	7-6	7.4	7-6	1)
	Temp	244	25.2	25-1	247	24.2	25.2	24.6	25.0	24.4	249	24.6	250		/
	DO	7.4	24	7.6	7.5	24	78	22	7.6	8.2	7-6	26	7.7		-
2.0 g/l	рН	7.5	7.4	7-6	7.6	7.4	73	22	7.6	25	7-6	29	7-6		-
	Temp	245	25-1	24.0	246	24.2	253	24.8	25.2	24-4	24.8	24.6	25.1		<u> </u>
	DO	7-5	7-8		900aa,	huiggen.	- ARE		Organica and a second	A DECEMBER OF THE OWNER	constants,	.commun.		·	
4.0 g/l	pН	7.4	7.8	Titco					A STREET, STRE	'maniantes.				-	~
	Temp	243	24,6	*3880mo++	and the second s	-500000			~				,		lingere
	Di	ssolved	Oxyge	n (DO)	reading	s are in	mg/l (O ₂ ; Tem	perature	(Temp)	reading	gs are ii	ı°C.		
	Additional	Paramet	ers				Contr	ol				High Co	ncentrat	ion	
Additional Parameters					Day	1	Day 3		Day 5		Day 1]	Day 3	D	ay 5
	Conductivity (µS)				350	2	342	8	305	6	400		100	32	210
	Alkalinity (mg/l CaCO ₃)				66		65		63	ls	65		66		1
Hardness (mg/l CaCO ₃)					92		97		90		8	9)	9	8
Source o					T		<u> </u>				1				
	licate:		A	<u>в</u> [В	<u> </u>		D	E	F ST		G	<u>H</u>	<u> </u>		J J- Con
LBro	od ID:		212	<u>[Þ</u>	30	<u> </u>	-C	VM	172	25		24	136		7-61

Aquatic Testing Laboratories



Laboratory Temperature Chart

QA/QC Batch No: RT-080106 Date Tested: 01/06/08 to 01/12/08 Acceptable Range: 25+/- 1°C





February 20, 2008

Mr. Joseph Doak Test America, Inc. 17461 Derian Avenue, Suite 100 Irvine, CA 92614

Reference: Test America Project Nos. IRA0393, IRA0398, IRA0399, IRA0400, IRA0906 Eberline Services NELAP Cert #01120CA Eberline Services Reports R801023-8676, R801024-8677, R801025-8678 R801029-8679, R801048-8680

Dear Mr. Doak:

Enclosed are results from the analyses of five water samples. Four of the samples were received at Eberline Services on January 8, and one on January 12, 2008. The samples were analyzed according to the accompanying Test America Subcontract Order Forms, the requested analyses were: gross alpha/gross beta (EPA 900.0), tritium (H-3, EPA906.0), Sr-90 (EPA905.0), Ra-226 (EPA903.1), Ra-228 (EPA 904.0), total uranium (ASTM D-5174), and gamma spectroscopy (EPA901.1, K-40 and Cs-137). Batch quality control samples consisted of LCS's, blank analyses, duplicate analyses, and matrix spike analyses (gross alpha/gross beta, H-3, Ra-226, Total-U only). All QC sample results were within the limits defined in Eberline Services Quality Control Procedures Manual.

Please call me if you have any questions concerning this report.

Regards,

Melissa Mannu

Melissa Mannion Senior Program Manager

MCM/njv

Enclosure: Reports/CoC's Invoices

> Analytical Services 2030 Wright Avenue P.O. Box 4040 Richmond, California 94804-0040 (510) 235-2633 Fax (510) 235-0438 Toll Free (800) 841-5487 www.eherlingservices.com

Eberline Services

ANALYSIS RESULTS

SDG	8677	Client	TA IRVINE
Work Order	R801024-01	Contract	PROJECT# IRA0398
Received Date	01/08/08	Matrix	WATER

Client <u>Sample ID</u>	Lab <u>Sample ID</u>	Collected Analyzed	Nuclide	<u>Results ± 20</u>	<u>Units</u>	MDA
IRA0398-01	8677-001	01/05/08 01/21/08	GrossAlpha	-0.498 ± 1.4	pCi/L	2.4
		01/21/08	Gross Beta	9.99 ± 1.2	pCi/L	1.6
		01/23/08	Ra-228	0.018 ± 0.21	pCi/L	0.44
		01/12/08	K-40 (G)	22.0 ± 12	pCi/L	9.4
		01/12/08	Cs-137 (G)	U	pCi/L	0.89
		01/23/08	H-3	-63.3 ± 86	pCi/L	150
		01/25/08	Ra-226	0.077 ± 0.38	pCi/L	0.76
		01/28/08	Sr-90	-0.087 ± 0.41	pCi/L	0.96
		02/15/08	Total U	0.301 ± 0.035	pCi/L	0.021

Certified by
Report Date 02/19/08
Page 1

7

QC RESULTS

	SDG <u>8677</u> Order <u>R80103</u> d Date <u>01/08</u> ,			Contract	TA IRVINE PROJECT# IR WATER	 A0398
Lab umple ID	Nuclide	<u>Results</u>	Units	Amount Added	MDA	Evaluation
JCS						
8676-002	GrossAlpha	13.0 ± 0.93	pCi/Smpl	10.1	0.43	129% recovery
	Gross Beta	9.21 ± 0.38	pCi/Smpl	9.41	0.29	98% recovery
	Ra-228	7.16 ± 0.54	pCi/Smpl	7.97	0.85	90% recovery
	Co-60 (G)	220 ± 17	pCi/Smpl	228	11	96% recovery
	Cs-137 (G)	256 ± 14	pCi/Smpl	236	9.8	108% recovery
	H-3	189 ± 14	pCi/Smpl	203	15	93% recovery
	Ra-226	4.87 ± 0.23	pCi/Smpl	4.46	0.083	109% recovery
	Sr-90	8.90 ± 0.73	pCi/Smpl	9.40	0.33	95% recovery
	Total U	1.05 ± 0.12	pCi/Smpl	1.13	0.004	93% recovery
LANK						
8676-003	GrossAlpha	0.067 ± 0.16	pCi/Smpl	NA	0.27	<mda< td=""></mda<>
	Gross Beta	-0.079 ± 0.26	pCi/Smpl	NA	0.44	<mda< td=""></mda<>
	Ra-228	-0.491 ± 0.26	pCi/Smpl	NA	0.79	<mda< td=""></mda<>
	K-40 (G)	U	pCi/Smpl	NA	220	<mda< td=""></mda<>
	Cs-137 (G)	U	pCi/Smpl	NA	8.0	<mda< td=""></mda<>
	H-3	-1.49 ± 8.7	pCi/Smpl	NA	15	<mda< td=""></mda<>
	Ra-226	-0.012 ± 0.035	pCi/Smpl	NA	0.083	<mda< td=""></mda<>
	Sr-90	-0.030 ± 0.18	pCi/Smpl	NA	0.45	<mda< td=""></mda<>
	Total U	0.00E 00 ± 1.8E-04	pCi/Smpl	NA	4.2E-04	<mda< td=""></mda<>

	DUPLICATES				ORIGINALS				
								3σ	
Sample ID	Nuclide	<u>Results ± 20</u>	MDA	Sample ID	<u>Results ± 20</u>	MDA	RPD	(Tot)	Eval
8676-004	GrossAlpha	-0.027 ± 1.1	1.9	8676-001	0.784 ± 2.0	2.8	-	0	satis.
	Gross Beta	62.4 ± 2.4	2.4		62.4 ± 2.4	2.1	0	43	satis.
	K-40 (G)	Ŭ	32		62.0 ± 8.4	5.3	64	108	satis.
	Cs-137 (G)	U	1.1		U	0.54	-	0	satis.
	Н-З	-71.6 <u>+</u> 86	150		-15.1 ± 88	150	-	0	satis.
	Ra-226	-0.062 ± 0.36	0.71		0.081 ± 0.44	0.81	-	0	satis.
	Sr-90	-0.067 ± 0.35	0.86		0.063 ± 0.44	1.0	-	0	satis.
	Total U	2.58 ± 0.29	0.021		2.58 ± 0.29	0.021	0	31	satis.
8677-002	Ra-228	0.008 ± 0.15	0.41	8677-001	0.018 ± 0.21	0.44	-	0	satis.

Certified by
Report Date 02/19/08
Page 2

 SDG
 8677
 Client
 TA
 IRVINE

 Work Order
 R801024-01
 Contract
 PR0JECT#
 IRA0398

 Received Date
 01/08/08
 Matrix
 WATER

SDG <u>8677</u> Work Order <u>R8010</u> Received Date <u>01/08</u>	24-01			Client Contract Matrix	PROJEC	CT# IRA03	98	
8676-005 GrossAlpha	154 ± 8.1	2.8	8676-001	0.784 ±	2.0	2.8	115	133
Gross Beta	161 ± 3.3	1.5		62.4 ±	2.4	2.1	102	97
H-3	15700 ± 510	260		-15.1 ±	88	150	16100	98
Ra-226	116 ± 4.3	0.75		0.081 ±	0.44	0.81	112	103
Total U	111 ± 14	2.1		2.58 ±	0.29	0.021	113	96

Eberline Services

Certified by 20	
Report Date <u>02/19/08</u>	
Page 3	

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TestAmerica Irvine

IRA0398

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:

Eberline Services - SUB 2030 Wright Avenue Richmond, CA 94804 Phone :(510) 235-2633 Fax: (510) 235-0438 Project Location: California Receipt Temperature: 4.0 °C

Ν Ice:

Analysis	Units	Due	Expires	Comments
Sample ID: IRA0398-01	Water		Sampled: 01/05/08 10:45	ph=7.8, temp=53.60
Gamma Spec-O	mg/kg	01/16/08	01/04/09 10:45	Out to Eberline, K-40 and CS-137 only
Gross Alpha-O	pCi/L	01/16/08	07/03/08 10:45	Out to Eberline
Gross Beta-O	pCi/L	01/16/08	07/03/08 10:45	Out to eberline
Level 4 Data Package - Ou	t N/A	01/16/08	02/02/08 10:45	
Radium, Combined-O	pCi/L	01/16/08	01/04/09 10:45	Out to Eberline
Strontium 90-0	pCi/L	01/16/08	01/04/09 10:45	Out to Eberline
Tritium-O	pCi/L	01/16/08	01/04/09 10:45	Out to Eberline
Uranium, Combined-O	pCi/L	01/16/08	01/04/09 10:45	Out to Eberline
Containers Supplied:				**
2.5 gal Poly (K)	500 mL Amt	per (L)		

2	112/28	1200 Feder	1/2/08 1702
Released By	Date/Time	Received By	Date/Time
		MANY	000808 29:70

Released By

Date/Time

Receive

Page 1 of 1

Date/Time



January 23, 2008

Vista Project I.D.: 30121

Mr. Joseph Doak Test America-Irvine, CA 17461 Derian Avenue Suite 100 Irvine, CA 92614

Dear Mr. Doak,

Enclosed are the results for the one aqueous samples received at Vista Analytical Laboratory on January 08, 2008 under your Project Name "IRA0398". This sample was extracted and analyzed using EPA Method 1613 for tetra-through-octa chlorinated dioxins and furans. A standard turnaround time was provided for this work.

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

Vista Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at mmaier@vista-analytical.com. Thank you for choosing Vista as part of your analytical support team.

Sincerely,

Marline More-

Martha M. Maier Laboratory Director



Vista Analytical Laboratory certifies that the report herein meets all the requirements set forth by NELAC for those applicable test methods. Results relate only to the samples as received by the laboratory. This report should not be reproduced except in full without the written approval of Vista Analytical Laboratory.



Section I: Sample Inventory Report Date Received: 1/8/2008

<u>Vista Lab. ID</u>

Client Sample ID

30121-001

IRA0398-01

SECTION II

Method Blank					EPA Method 1613
Matrix:	Aqueous	QC Batch No.:	9886	Lab Sample: 0-MB001	1
Sample Size:	1.00 L	Date Extracted:	17-Jan-08	Date Analyzed DB-5: 19-Jan-0	8 Date Analyzed DB-225: NA
Analyte	Conc. (ug/L)	DL ^a E	MPC ^b Qualifiers	Labeled Standard	%R LCL-UCL ^d Qualifiers
2,3,7,8-TCDD	ND	0.00000111		<u>IS</u> 13C-2,3,7,8-TCDD	85.7 25 - 164
1,2,3,7,8-PeCDI	D ND	0.00000171		13C-1,2,3,7,8-PeCDD	76.8 25 - 181
1,2,3,4,7,8-HxC	DD ND	0.00000174		13C-1,2,3,4,7,8-HxCDD	75.3 32 - 141
1,2,3,6,7,8-HxC	DD ND	0.00000184		13C-1,2,3,6,7,8-HxCDD	75.1 28 - 130
1,2,3,7,8,9-HxC	DD ND	0.00000172		13C-1,2,3,4,6,7,8-HpCDD	87.8 23 - 140
1,2,3,4,6,7,8-Hp	CDD ND	0.00000243		13C-OCDD	70.8 17 - 157
OCDD	ND	0.00000780		13C-2,3,7,8-TCDF	83.6 24 - 169
2,3,7,8-TCDF	ND	0.00000116		13C-1,2,3,7,8-PeCDF	72.8 24 - 185
1,2,3,7,8-PeCDF	F ND	0.00000159		13C-2,3,4,7,8-PeCDF	75.3 21 - 178
2,3,4,7,8-PeCDF	F ND	0.00000156		13C-1,2,3,4,7,8-HxCDF	72.9 26 - 152
1,2,3,4,7,8-HxC		0.000000815		13C-1,2,3,6,7,8-HxCDF	73.2 26 - 123
1,2,3,6,7,8-HxC		0.00000832		13C-2,3,4,6,7,8-HxCDF	76.3 28 - 136
2,3,4,6,7,8-HxC	DF ND	0.00000894		13C-1,2,3,7,8,9-HxCDF	79.4 29 - 147
1,2,3,7,8,9-HxC	DF ND	0.00000120		13C-1,2,3,4,6,7,8-HpCDF	88.5 28 - 143
1,2,3,4,6,7,8-Hp	CDF ND	0.00000977		13C-1,2,3,4,7,8,9-HpCDF	86.1 26 - 138
1,2,3,4,7,8,9-Hp		0.00000133		13C-OCDF	72.3 17 - 157
OCDF	ND	0.00000313		<u>CRS</u> 37Cl-2,3,7,8-TCDD	105 35 - 197
Totals				Footnotes	
Total TCDD	ND	0.00000111		a. Sample specific estimated detection limit	
Total PeCDD	ND	0.00000373		b. Estimated maximum possible concentrati	on.
Total HxCDD	ND	0.00000177		c. Method detection limit.	
Total HpCDD	ND	0.00000314		d. Lower control limit - upper control limit.	
Total TCDF	ND	0.00000116			
Total PeCDF	ND	0.00000157			
Total HxCDF	ND	0.000000928			
Total HpCDF	ND	0.00000114			

Analyst: MAS

OPR Results					EP	A Method 1	1613
Matrix: Aqueous Sample Size: 1.00 L		QC Batch No.: Date Extracted:	9886 17-Jan-08	Lab Sample:0-OPR001Date Analyzed DB-5:19-Jan-08	Date Analy	zed DB-225:	NA
Analyte	Spike Conc.	Conc. (ng/mL)	OPR Limits	Labeled Standard	%R	LCL-UCL	Qualifier
2,3,7,8-TCDD	10.0	10.4	6.7 - 15.8	<u>IS</u> 13C-2,3,7,8-TCDD	76.2	25 - 164	
1,2,3,7,8-PeCDD	50.0	52.4	35 - 71	13C-1,2,3,7,8-PeCDD	68.3	25 - 181	
1,2,3,4,7,8-HxCDD	50.0	52.8	35 - 82	13C-1,2,3,4,7,8-HxCDD	66.2	32 - 141	
1,2,3,6,7,8-HxCDD	50.0	51.4	38 - 67	13C-1,2,3,6,7,8-HxCDD	66.8	28 - 130	
1,2,3,7,8,9-HxCDD	50.0	52.3	32 - 81	13C-1,2,3,4,6,7,8-HpCDD	87.2	23 - 140	
1,2,3,4,6,7,8-HpCDD	50.0	51.7	35 - 70	13C-OCDD	70.1	17 - 157	
OCDD	100	103	78 - 144	13C-2,3,7,8-TCDF	74.1	24 - 169	
2,3,7,8-TCDF	10.0	9.71	7.5 - 15.8	13C-1,2,3,7,8-PeCDF	64.3	24 - 185	
1,2,3,7,8-PeCDF	50.0	50.9	40 - 67	13C-2,3,4,7,8-PeCDF	67.4	21 - 178	
2,3,4,7,8-PeCDF	50.0	51.2	34 - 80	13C-1,2,3,4,7,8-HxCDF	62.5	26 - 152	
1,2,3,4,7,8-HxCDF	50.0	51.5	36 - 67	13C-1,2,3,6,7,8-HxCDF	63.5	26 - 123	
1,2,3,6,7,8-HxCDF	50.0	52.2	42 - 65	13C-2,3,4,6,7,8-HxCDF	66.6	28 - 136	
2,3,4,6,7,8-HxCDF	50.0	52.3	35 - 78	13C-1,2,3,7,8,9-HxCDF	69.3	29 - 147	
1,2,3,7,8,9-HxCDF	50.0	51.7	39 - 65	13C-1,2,3,4,6,7,8-HpCDF	76.7	28 - 143	
1,2,3,4,6,7,8-HpCDF	50.0	50.6	41 - 61	13C-1,2,3,4,7,8,9-HpCDF	85.4	26 - 138	
1,2,3,4,7,8,9-HpCDF	50.0	51.2	39 - 69	13C-OCDF	71.9	17 - 157	
OCDF	100	104	63 - 170	<u>CRS</u> 37Cl-2,3,7,8-TCDD	84.4	35 - 197	

Analyst: MAS

Approved By: Martha M. Maier 23-Jan-2008 08:41

Sample ID: IRA0	398-01								EPA N	Aethod 1613
Client Data Name: Test A Project: IRA0 Date Collected: 5-Jan Time Collected: 1045			Sample Data Matrix: Sample Size:	Aqueous 0.991 L	Lab QC	oratory Data Sample: Batch No.: Analyzed DB-5:	30121-001 9886 19-Jan-08	Date Re Date Ex Date An		8-Jan-08 17-Jan-08 NA
Analyte C	Conc. (ug/L)	DL ^a	EMPC ^b	Qualifiers		Labeled Standa	rd	%R	LCL-UCL ^d	Qualifiers
2,3,7,8-TCDD 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD	ND ND ND ND	0.000001 0.000004 0.000002 0.000002	52 45 53		IS	13C-2,3,7,8-TCD 13C-1,2,3,7,8-PeC 13C-1,2,3,4,7,8-H 13C-1,2,3,6,7,8-H 13C-1,2,3,4,6,7,8-	CDD IxCDD IxCDD	80.8 75.1 73.4 71.1 83.4	25 - 164 25 - 181 32 - 141 28 - 130 23 - 140	
1,2,3,4,6,7,8-HpCDD OCDD 2,3,7,8-TCDF	ND 0.0000273 ND	0.000006		J		13C-OCDD 13C-2,3,7,8-TCD 13C-1,2,3,7,8-PeC		69.6 81.2 70.2	17 - 157 24 - 169 24 - 185	
1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF	ND ND ND	0.000001 0.000001 0.000000	56			13C-2,3,4,7,8-PeC 13C-1,2,3,4,7,8-H 13C-1,2,3,6,7,8-H	IxCDF	72.8 70.7 71.4	21 - 178 26 - 152 26 - 123	
1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF	ND ND ND	0.000000	687			13C-2,3,4,6,7,8-H 13C-1,2,3,7,8,9-H 13C-1,2,3,4,6,7,8-	IxCDF	72.6 79.0 83.2	28 - 136 29 - 147 28 - 143	
1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF OCDF	ND ND ND	0.000001 0.000001 0.000003	89		CRS	13C-1,2,3,4,7,8,9- 13C-OCDF 37Cl-2,3,7,8-TCD	•	76.5 69.2 90.9	26 - 138 17 - 157 35 - 197	
Totals					Foo	otnotes				
Total TCDD Total PeCDD Total HxCDD	ND ND ND	0.000001 0.000001 0.000002	46 45		b. E: c. M	mple specific estimated timated maximum possi ethod detection limit.	ble concentration.			
Total HpCDD Total TCDF Total PeCDF Total HxCDF Total HpCDF	ND ND ND ND	0.000000 0.000001 0.000000 0.000001	62 717	5U /	d. Lo	ower control limit - uppe	r control limit.			

Analyst: MAS

APPENDIX

DATA QUALIFIERS & ABBREVIATIONS

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

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

CERTIFICATIONS

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

SUBCONTRACT ORDER

TestAmerica Irvine 10 4 0 200

	IRA0398 30/2/
SENDING LABORATORY:	RECEIVING LABORATORY: 1.6°C
TestAmerica Irvine	Vista Analytical Laboratory- SUB
17461 Derian Avenue. Suite 100	1104 Windfield Way
Irvine, CA 92614	El Dorado Hills, CA 95762
Phone: (949) 261-1022	Phone :(916) 673-1520
Fax: (949) 260-3297	Fax: (916) 673-0106
Project Manager: Joseph Doak	Project Location: California
	Receipt Temperature:°C Ice: Y / N

Analysis	Units	Due	Expires	Comments	
Sample ID: IRA0398-01	Water		Sampled: 01/05/08 10:45	ph=7.8, temp=53.60	
1613-Dioxin-HR-Alta	ug/l	01/16/08	01/12/08 10:45	J flags,17 congeners,no TEQ,ug/L,sub=Vista	
Containers Supplied:					
1 L Amber (C)	1 L Amber (D)				

Reteased By

Released By

1700 Date/Time

Date/Time

<u>1/7/08/700</u> Date/Time Received By Bonediet Received By

1/8/08 Date/Time

Page 1 of 1 NPDES - 1417 Page 10 of 255

Project 30121

	· · ·			UNLIG	I		V.	VISLC Analytical) Laborato
Vista Project #:	301	21			Т	ат_С	Sfan : WR	dar	d
	Date/Time		Initials:	Л	Loc	ation	:WR	-2	
Samples Arrival:	1/8/08	0909	12	Ø			ck:/		
	Date/Time		Initials:		Loc	ation	: Wr	2-2	L
Logged In:	18/08	1151	Mall)	She	elf/Ra	ck:	3	
Delivered By:	FedEx	UPS	Cal	DHL	-		and vered	Oth	ner
Preservation:	(Ice) E	lue lce	Dr	y Ice			None	
Temp °C	·c	Time: 🔗	929		The	rmon	neter II): IR-	1
	/-! B	-10					YES	NO	NA
Adequate Sample		ved?					V		
Holding Time Acce						-	V	ł 	
Shipping Container					· !"				
Shipping Custody S	Seals Intact?	•, · · · ·				<u>,</u>	V	 	
Shipping Documen	tation Presen		01 71	01.			/	ļ 	
Airbill	Trk #	1926	2674	347	6		· V		
Sample Container	Intact?						V		
Sample Custody S	eals Intact?								1
Chain of Custody / Sample Documentation Present?							\checkmark		1
COC Anomaly/San	nple Acceptar	nce Form cor	npleted?			÷		\bigvee	
If Chlorinated or Dr	inking Water	Samples, Ac	ceptable Pre	eservatio					~
Na ₂ S ₂ O ₃ Preservat	ion Documen	ted?	coc	· .		nple ainer	. (None	
Shipping Container	ſ	Vista	Client	Reta	iin	Re	turn	Disp	oose

Comments:

SUBCONTRACT ORDER

TestAmerica Irvine

IRA0398

8010769

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:

Weck Laboratories, Inc-SUB	
14859 E. Clark Avenue	
City of Industry, CA 91745	
Phone :(626) 336-2139	
Fax: (626) 336-2634	
Project Location: California	7
Receipt Temperature: 3	Ice: / / N

Analysis	Units	Due	Expires	Comments
Sample ID: IRA0398-01	Water		Sampled: 01/05/08 10:45	ph=7.8, temp=53.60
Level 4 + EDD-OUT	N/A	01/16/08	02/02/08 10:45	Sub to Weck, transfer file EDD
Level 4 Data Package - Wec	N/A	01/16/08	02/02/08 10:45	Out to Weck
Mercury - 245.1, Diss -OUT	mg/l	01/16/08	02/02/08 10:45	Weck, Boeing, J flags
Mercury - 245.1-OUT	mg/l	01/16/08	02/02/08 10:45	Weck,Boeing, permit, J flags, if result>ND.call TA
Containers Supplied:				,
125 mL Poly w/HNO3 12 (N)	25 mL Poly (O)		

	1/1/08 090	a Arton 7	77 1/7/08 0900
Released By	Date/Time AZ 1/7/08 142	2 Received By	Date/Time
Released By	Date/Time	Received By	Date/Time NPDESPages of 1



Weck Laboratories, Inc.

Analytical Laboratory Services - Since 1964

14859 E. Clark Ave., Industry, CA 91745 Phone 626.336.2139 Fax 626.336.2634 info@weeklabs.com www.weeklabs.com

CERTIFICATE OF ANALYSIS

Client:	TestAmerica, Inc Irvine	Report Date:	01/10/08 08:44
	17461 Derian Ave, Suite 100	Received Date:	01/07/08 14:20
	Irvine, CA 92614	Turn Around:	7 days
	Attention: Joseph Doak	Work Order #: 8010769	
	Phone: (949) 261-1022 Fax: (949) 260-3297	Client Project: IRA0398	

NELAP #04229CA ELAP#1132 NEVADA #CA211 HAWAII LACSD #10143

The results in this report apply to the samples analyzed in accordance with the Chain of Custody document. Weck Laboratories, Inc. certifies that the test results meet all NELAC requirements unless noted in the case narrative. This analytical report is confidential and is only intended for the use of Weck Laboratories, Inc. and its client. This report contains the Chain of Custody document, which is an integral part of it, and can only be reproduced in full with the authorization of Weck Laboratories, Inc.

Dear Joseph Doak :

Enclosed are the results of analyses for samples received 01/07/08 14:20 with the Chain of Custody document. The samples were received in good condition. The samples were received at 3.1 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Reviewed by: in

Kim G Tu

Project Manager







14859 E. Clark Ave. Industry, CA 91745 Phone 626.336.2139 Fax 626.336.2634

Weck Laboratories, Inc.

 Date Received:
 01/07/08 14:20

 Date Reported:
 01/10/08 08:44

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Sampled by:	Sample Comments	Laboratory	Matrix	Date Sampled
IRA0398-01	Client		8010769-01	Water	01/05/08 10:45

Report ID: 8010769

Project ID: IRA0398



Date Received: 01/07/08 14:20 Date Reported: 01/10/08 08:44

IRA0398-01	8010769-01 (Water)
------------	--------------------

Report ID: 8010769

Project ID: IRA0398

Date Sampled: 01/05/08 10:45

Metals by EPA 200 Series Methods

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Data Qualifiers
Mercury, Dissolved Mercury, Total	ND ND	0.050 0.050	ug/l ug/l	0.20 0.20	1	EPA 245.1 EPA 245.1	W8A0148 W8A0148	01/08/08 01/08/08	01/09/08 jlp 01/09/08 jlp	



Report ID: 8010769 Project ID: IRA0398 Weck Laboratories, Inc. 14859 E. Clark Ave. Industry, CA 91745 Phone 626.336.2139 Fax 626.336.2634

 Date Received:
 01/07/08 14:20

 Date Reported:
 01/10/08 08:44

QUALITY CONTROL SECTION



Date Received: 01/07/08 14:20 Date Reported: 01/10/08 08:44

Metals by EPA 200 Series Methods - Quality Control

Report ID: 8010769

Project ID: IRA0398

							%REC			
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch W8A0148 - EPA 245.1										
Blank (W8A0148-BLK1)				Analyzed:	01/09/08					
Mercury, Dissolved	ND	0.20	ug/l							
Mercury, Total	ND	0.20	ug/l							
LCS (W8A0148-BS1)				Analyzed:	01/09/08					
Mercury, Dissolved	0.965	0.20	ug/l	1.00		96	85-115			
Mercury, Total	0.965	0.20	ug/l	1.00		96	85-115			
Matrix Spike (W8A0148-MS1)	S	ource: 7120722	-01	Analyzed: 01/09/08						
Mercury, Dissolved	1.97	0.40	ug/l	2.00	ND	98	70-130			
Mercury, Total	1.97	0.40	ug/l	2.00	ND	98	70-130			
Matrix Spike (W8A0148-MS2)	S	ource: 7120722	-03	Analyzed: 01/09/08						
Mercury, Dissolved	1.88	0.40	ug/l	2.00	ND	94	70-130			
Mercury, Total	1.88	0.40	ug/l	2.00	ND	94	70-130			
Matrix Spike Dup (W8A0148-MSD1)	Se	ource: 7120722	-01	Analyzed:	01/09/08					
Mercury, Dissolved	1.92	0.40	ug/l	2.00	ND	96	70-130	2	20	
Mercury, Total	1.92	0.40	ug/l	2.00	ND	96	70-130	2	20	
Matrix Spike Dup (W8A0148-MSD2)	Se	ource: 7120722	-03	Analyzed:	01/09/08					
Mercury, Dissolved	1.96	0.40	ug/l	2.00	ND	98	70-130	4	20	
Mercury, Total	1.96	0.40	ug/l	2.00	ND	98	70-130	4	20	



Report ID: 8010769 Project ID: IRA0398 Weck Laboratories, Inc. 14859 E. Clark Ave. Industry, CA 91745 Phone 626.336.2139 Fax 626.336.2634

Date Received: 01/07/08 14:20 Date Reported: 01/10/08 08:44

Notes and Definitions

- ND NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL)
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- % Rec Percent Recovery
- Sub Subcontracted analysis, original report available upon request
- MDL Method Detection Limit
- MDA Minimum Detectable Activity

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

An Absence of Total Coliform meets the drinking water standards as established by the California Department of Health Services.

The Reporting Limit (RL) is referenced as the Laboratory's Practical Quantitation Limit (PQL) or the Detection Limit for Reporting Purposes (DLR).

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

APPENDIX G

Section 34

Outfall 006 – BMP Effectiveness, January 4-5, 2008 Test America Analytical Laboratory Report

THE LEADER IN ENVIRONMENTAL TESTING

LABORATORY REPORT

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

Sampled: 01/04/08-01/05/08 Received: 01/07/08 Issued: 01/16/08 13:40

NELAP #01108CA California ELAP#1197 CSDLAC #10256

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain(s) of Custody, 4 pages, are

included and are an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

LABORATORY ID	CLIENT ID	MATRIX
IRA0414-01	006 EFF-1	Water
IRA0414-02	006 EFF-2	Water
IRA0414-03	006 EFF-3	Water
IRA0414-04	006 EFF-4	Water
IRA0414-05	006 EFF-5	Water
IRA0414-06	006 EFF-6	Water
IRA0414-07	006 EFF-7	Water
IRA0414-08	006 EFF-8	Water
IRA0414-09	006 EFF-9	Water
IRA0414-10	006 EFF-10	Water
IRA0414-11	006 EFF-11	Water
IRA0414-12	006 EFF-12	Water
IRA0414-13	006 INF-1	Water
IRA0414-14	006 INF-2	Water
IRA0414-15	006 INF-3	Water
IRA0414-16	006 INF-4	Water
IRA0414-17	010 EFF-1	Water
IRA0414-18	010 EFF-2	Water
IRA0414-19	010 EFF-3	Water
IRA0414-20	010 EFF-4	Water
IRA0414-21	010 EFF-5	Water
IRA0414-22	010 EFF-6	Water
IRA0414-23	010 EFF-7	Water

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THE LEADER IN ENVIRONMENTAL TES	TING	17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297					
MWH-Pasadena/Boeing	Project ID:	BMP Effectiveness					
518 Michillinda Avenue, Suite 200		Monitoring Program	1	01/04/08-01/05/0			
Arcadia, CA 91007	Report Number:	IRA0414	Received:	01/07/08			
Attention: Bronwyn Kelly							
LABORATORY ID	(LIENT ID	MATR	IX			
IRA0414-24		010 EFF-8	Water	r			
IRA0414-25		010 EFF-9	Water	r			
IRA0414-26	0	010 EFF-10	Water	r			
IRA0414-27	0	010 EFF-11	Water	r			
IRA0414-28	0	010 EFF-12	Water	r			
IRA0414-29	0	010 EFF-13	Water	r			
IRA0414-30	0	010 EFF-14	Water	r			
IRA0414-31	0	10 EFF-15	Water	r			
IRA0414-32	0	10 EFF-16	Water	r			
IRA0414-33	0	10 EFF-17	Water	r			
IRA0414-34		010 INF-1	Water	r			
IRA0414-35		010 INF-2	Water	r			
IRA0414-36		010 INF-3	Water	r			
IRA0414-37		010 INF-4	Water	r			
IRA0414-38		010 INF-5	Water	r			
IRA0414-39		010 INF-6	Water	r			
IRA0414-40		010 INF-7	Water	r			
IRA0414-41		010 INF-8	Water	r			
IRA0414-42		010 INF-9	Water	r			
IRA0414-43	(010 INF-10	Water	r			
IRA0414-44	(010 INF-11	Water	r			
IRA0414-45	(010 INF-12	Water	r			
IRA0414-46	(010 INF-13	Wate	r			
IRA0414-47	(010 INF-14	Water	r			

Reviewed By:

Joseph Dock ¢

TestAmerica Irvine Joseph Doak Project Manager

IRA0414 <*Page 2 of 16*> NPDES - 1428

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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: IRA0414

Sampled: 01/04/08-01/05/08 Received: 01/07/08

INORGANICS										
Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers		
Sample ID: IRA0414-01 (006 EFF-1 - Water) Reporting Units: g/cc)			Sampled	: 01/04/08					
Density	Displacement	8A08079	NA	1.0	1	1/8/2008	1/10/2008			
Sample ID: IRA0414-01 (006 EFF-1 - Water) Reporting Units: mg/l)			Sampled	: 01/04/08					
Sediment	ASTM D3977	8A16083	10	48	1	1/16/2008	1/16/2008			
Total Suspended Solids	EPA 160.2	8A07105	10	48	1	1/7/2008	1/7/2008			
Sample ID: IRA0414-02 (006 EFF-2 - Water) Reporting Units: g/cc)			Sampled	: 01/04/08					
Density	Displacement	8A08079	NA	1.0	1	1/8/2008	1/10/2008			
Sample ID: IRA0414-02 (006 EFF-2 - Water) Reporting Units: mg/l)			Sampled	: 01/04/08					
Sediment	ASTM D3977	8A16083	10	42	1	1/16/2008	1/16/2008			
Total Suspended Solids	EPA 160.2	8A07105	10	42	1	1/7/2008	1/7/2008			
Sample ID: IRA0414-03 (006 EFF-3 - Water) Reporting Units: g/cc)			Sampled	: 01/04/08					
Density	Displacement	8A08079	NA	1.0	1	1/8/2008	1/10/2008			
Sample ID: IRA0414-03 (006 EFF-3 - Water) Reporting Units: mg/l)			Sampled	: 01/04/08					
Sediment	ASTM D3977	8A16083	10	42	1	1/16/2008	1/16/2008			
Total Suspended Solids	EPA 160.2	8A07105	10	42	1	1/7/2008	1/7/2008			
Sample ID: IRA0414-04 (006 EFF-4 - Water) Reporting Units: g/cc)			Sampled	: 01/04/08					
Density	Displacement	8A08079	NA	0.99	1	1/8/2008	1/10/2008			
Sample ID: IRA0414-04 (006 EFF-4 - Water) Reporting Units: mg/l)			Sampled	: 01/04/08					
Sediment	ASTM D3977	8A16083	10	29	1	1/16/2008	1/16/2008			
Total Suspended Solids	EPA 160.2	8A07105	10	29	1	1/7/2008	1/7/2008			
Sample ID: IRA0414-05 (006 EFF-5 - Water) Reporting Units: g/cc)			Sampled	: 01/04/08					
Density	Displacement	8A08079	NA	1.0	1	1/8/2008	1/10/2008			
Sample ID: IRA0414-05 (006 EFF-5 - Water) Reporting Units: mg/l				Sampled	: 01/04/08					
Sediment	ASTM D3977	8A16083	10	30	1	1/16/2008	1/16/2008			
Total Suspended Solids	EPA 160.2	8A07105	10	30	1	1/7/2008	1/7/2008			

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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: IRA0414

Sampled: 01/04/08-01/05/08 Received: 01/07/08

INORGANICS										
Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers		
Sample ID: IRA0414-06 (006 EFF-6 - Water) Reporting Units: g/cc)			Sampled	: 01/05/08					
Density	Displacement	8A08079	NA	0.99	1	1/8/2008	1/10/2008			
Sample ID: IRA0414-06 (006 EFF-6 - Water) Reporting Units: mg/l)			Sampled	: 01/05/08					
Sediment	ASTM D3977	8A16083	10	18	1	1/16/2008	1/16/2008			
Total Suspended Solids	EPA 160.2	8A07105	10	18	1	1/7/2008	1/7/2008			
Sample ID: IRA0414-07 (006 EFF-7 - Water) Reporting Units: g/cc)			Sampled	: 01/05/08					
Density	Displacement	8A08079	NA	1.0	1	1/8/2008	1/10/2008			
Sample ID: IRA0414-07 (006 EFF-7 - Water) Reporting Units: mg/l)			Sampled	: 01/05/08					
Sediment	ASTM D3977	8A16083	10	20	1	1/16/2008	1/16/2008			
Total Suspended Solids	EPA 160.2	8A07105	10	20	1	1/7/2008	1/7/2008			
Sample ID: IRA0414-08 (006 EFF-8 - Water) Reporting Units: g/cc)			Sampled	: 01/05/08					
Density	Displacement	8A08079	NA	0.99	1	1/8/2008	1/10/2008			
Sample ID: IRA0414-08 (006 EFF-8 - Water) Reporting Units: mg/l)			Sampled	: 01/05/08					
Sediment	ASTM D3977	8A16083	10	11	1	1/16/2008	1/16/2008			
Total Suspended Solids	EPA 160.2	8A07105	10	11	1	1/7/2008	1/7/2008			
Sample ID: IRA0414-09 (006 EFF-9 - Water) Reporting Units: g/cc)			Sampled	: 01/05/08					
Density	Displacement	8A08079	NA	1.0	1	1/8/2008	1/10/2008			
Sample ID: IRA0414-09 (006 EFF-9 - Water) Reporting Units: mg/l)			Sampled	: 01/05/08					
Sediment	ASTM D3977	8A16083	10	11	1	1/16/2008	1/16/2008			
Total Suspended Solids	EPA 160.2	8A07105	10	11	1	1/7/2008	1/7/2008			
Sample ID: IRA0414-10 (006 EFF-10 - Water Reporting Units: g/cc	r)			Sampled	: 01/05/08					
Density	Displacement	8A08079	NA	1.0	1	1/8/2008	1/10/2008			
Sample ID: IRA0414-10 (006 EFF-10 - Water) Reporting Units: mg/l			Sampled	: 01/05/08						
Sediment	ASTM D3977	8A16083	10	20	1	1/16/2008	1/16/2008			
Total Suspended Solids	EPA 160.2	8A07106	10	20	1	1/7/2008	1/7/2008			

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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: IRA0414

Sampled: 01/04/08-01/05/08 Received: 01/07/08

		INOF	RGANICS					
Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA0414-11 (006 EFF-11 - Wate Reporting Units: g/cc	er)			Sampled	: 01/05/08			
Density	Displacement	8A08079	NA	0.99	1	1/8/2008	1/10/2008	
Sample ID: IRA0414-11 (006 EFF-11 - Wate Reporting Units: mg/l	er)			Sampled	: 01/05/08			
Sediment	ASTM D3977	8A16083	10	38	1	1/16/2008	1/16/2008	
Total Suspended Solids	EPA 160.2	8A07106	10	38	1	1/7/2008	1/7/2008	
Sample ID: IRA0414-12 (006 EFF-12 - Wate Reporting Units: g/cc	er)			Sampled	: 01/05/08			
Density	Displacement	8A08079	NA	0.99	1	1/8/2008	1/10/2008	
Sample ID: IRA0414-12 (006 EFF-12 - Wate Reporting Units: mg/l	er)			Sampled	: 01/05/08			
Sediment	ASTM D3977	8A16083	10	29	1	1/16/2008	1/16/2008	
Total Suspended Solids	EPA 160.2	8A07106	10	29	1	1/7/2008	1/7/2008	
Sample ID: IRA0414-13 (006 INF-1 - Water Reporting Units: g/cc)			Sampled	: 01/04/08			
Density	Displacement	8A08079	NA	1.0	1	1/8/2008	1/10/2008	
Sample ID: IRA0414-13 (006 INF-1 - Water Reporting Units: mg/l)			Sampled	: 01/04/08			
Sediment	ASTM D3977	8A16083	10	120	1	1/16/2008	1/16/2008	
Total Suspended Solids	EPA 160.2	8A07106	10	120	1	1/7/2008	1/7/2008	
Sample ID: IRA0414-14 (006 INF-2 - Water Reporting Units: g/cc)			Sampled	: 01/04/08			
Density	Displacement	8A08079	NA	1.0	1	1/8/2008	1/10/2008	
Sample ID: IRA0414-14 (006 INF-2 - Water Reporting Units: mg/l)			Sampled	: 01/04/08			
Sediment	ASTM D3977	8A16083	10	110	1	1/16/2008	1/16/2008	
Total Suspended Solids	EPA 160.2	8A07106	10	110	1	1/7/2008	1/7/2008	
Sample ID: IRA0414-15 (006 INF-3 - Water Reporting Units: g/cc)			Sampled	: 01/04/08			
Density	Displacement	8A08079	NA	1.0	1	1/8/2008	1/10/2008	
Sample ID: IRA0414-15 (006 INF-3 - Water Reporting Units: mg/l)			Sampled	: 01/04/08			
Sediment	ASTM D3977	8A16083	10	73	1	1/16/2008	1/16/2008	
Total Suspended Solids	EPA 160.2	8A07106	10	73	1	1/7/2008	1/7/2008	

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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: IRA0414

Sampled: 01/04/08-01/05/08 Received: 01/07/08

INORGANICS										
Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers		
Sample ID: IRA0414-16 (006 INF-4 - Water) Reporting Units: g/cc				Sampled	: 01/04/08					
Density	Displacement	8A08079	NA	1.0	1	1/8/2008	1/10/2008			
Sample ID: IRA0414-16 (006 INF-4 - Water) Reporting Units: mg/l				Sampled	: 01/04/08					
Sediment	ASTM D3977	8A16083		72	1	1/16/2008	1/16/2008			
Total Suspended Solids	EPA 160.2	8A07106	10	72	1	1/7/2008	1/7/2008			
Sample ID: IRA0414-17 (010 EFF-1 - Water) Reporting Units: g/cc)			Sampled	: 01/04/08					
Density	Displacement	8A08079	NA	1.0	1	1/8/2008	1/10/2008			
Sample ID: IRA0414-17 (010 EFF-1 - Water) Reporting Units: mg/l)			Sampled	: 01/04/08					
Sediment	ASTM D3977	8A16083	10	66	1	1/16/2008	1/16/2008			
Total Suspended Solids	EPA 160.2	8A07106	10	66	1	1/7/2008	1/7/2008			
Sample ID: IRA0414-18 (010 EFF-2 - Water) Reporting Units: g/cc)			Sampled	: 01/04/08					
Density	Displacement	8A08079	NA	1.0	1	1/8/2008	1/10/2008			
Sample ID: IRA0414-18 (010 EFF-2 - Water) Reporting Units: mg/l)			Sampled	: 01/04/08					
Sediment	ASTM D3977	8A16083	10	39	1	1/16/2008	1/16/2008			
Total Suspended Solids	EPA 160.2	8A07106	10	39	1	1/7/2008	1/7/2008			
Sample ID: IRA0414-19 (010 EFF-3 - Water) Reporting Units: g/cc)			Sampled	: 01/04/08					
Density	Displacement	8A08079	NA	1.0	1	1/8/2008	1/10/2008			
Sample ID: IRA0414-19 (010 EFF-3 - Water) Reporting Units: mg/l)			Sampled	: 01/04/08					
Sediment	ASTM D3977	8A16083	10	44	1	1/16/2008	1/16/2008			
Total Suspended Solids	EPA 160.2	8A07106	10	44	1	1/7/2008	1/7/2008			
Sample ID: IRA0414-20 (010 EFF-4 - Water) Reporting Units: g/cc)			Sampled	: 01/04/08					
Density	Displacement	8A08079	NA	1.0	1	1/8/2008	1/10/2008			
Sample ID: IRA0414-20 (010 EFF-4 - Water) Reporting Units: mg/l)			Sampled	: 01/04/08					
Sediment	ASTM D3977	8A16083	10	22	1	1/16/2008	1/16/2008			
Total Suspended Solids	EPA 160.2	8A07106	10	22	1	1/7/2008	1/7/2008			

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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: IRA0414

Sampled: 01/04/08-01/05/08 Received: 01/07/08

INORGANICS										
Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers		
Sample ID: IRA0414-21 (010 EFF-5 - Water) Reporting Units: g/cc	,			Sampled	: 01/04/08					
Density	Displacement	8A08080	NA	1.0	1	1/8/2008	1/10/2008			
Sample ID: IRA0414-21 (010 EFF-5 - Water) Reporting Units: mg/l)			Sampled	: 01/04/08					
Sediment	ASTM D3977	8A16085	10	22	1	1/16/2008	1/16/2008			
Total Suspended Solids	EPA 160.2	8A07106	10	22	1	1/7/2008	1/7/2008			
Sample ID: IRA0414-22 (010 EFF-6 - Water) Reporting Units: g/cc)			Sampled	: 01/05/08					
Density	Displacement	8A08080	NA	1.0	1	1/8/2008	1/10/2008			
Sample ID: IRA0414-22 (010 EFF-6 - Water) Reporting Units: mg/l)			Sampled	: 01/05/08					
Sediment	ASTM D3977	8A16085	10	12	1	1/16/2008	1/16/2008			
Total Suspended Solids	EPA 160.2	8A07106	10	12	1	1/7/2008	1/7/2008			
Sample ID: IRA0414-23 (010 EFF-7 - Water) Reporting Units: g/cc)			Sampled	: 01/05/08					
Density	Displacement	8A08080	NA	1.0	1	1/8/2008	1/10/2008			
Sample ID: IRA0414-23 (010 EFF-7 - Water) Reporting Units: mg/l)			Sampled	: 01/05/08					
Sediment	ASTM D3977	8A16085	10	10	1	1/16/2008	1/16/2008			
Total Suspended Solids	EPA 160.2	8A07106	10	10	1	1/7/2008	1/7/2008			
Sample ID: IRA0414-24 (010 EFF-8 - Water) Reporting Units: g/cc)			Sampled	: 01/05/08					
Density	Displacement	8A08080	NA	1.0	1	1/8/2008	1/10/2008			
Sample ID: IRA0414-24 (010 EFF-8 - Water) Reporting Units: mg/l)			Sampled	: 01/05/08					
Sediment	ASTM D3977	8A16085	10	10	1	1/16/2008	1/16/2008			
Total Suspended Solids	EPA 160.2	8A08116	10	10	1	1/8/2008	1/8/2008			
Sample ID: IRA0414-25 (010 EFF-9 - Water) Reporting Units: g/cc	1			Sampled	: 01/05/08					
Density	Displacement	8A08080	NA	1.0	1	1/8/2008	1/10/2008			
Sample ID: IRA0414-25 (010 EFF-9 - Water) Reporting Units: mg/l)			Sampled	: 01/05/08					
Sediment	ASTM D3977	8A16085	10	ND	1	1/16/2008	1/16/2008			
Total Suspended Solids	EPA 160.2	8A08116	10	ND	1	1/8/2008	1/8/2008			

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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: IRA0414

Sampled: 01/04/08-01/05/08 Received: 01/07/08

		INOF	RGANICS					
Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA0414-26 (010 EFF-10 - Wa Reporting Units: g/cc	ater)			Sampled	: 01/05/08			
Density	Displacement	8A08080	NA	1.0	1	1/8/2008	1/10/2008	
Sample ID: IRA0414-26 (010 EFF-10 - Wa Reporting Units: mg/l	ater)			Sampled	: 01/05/08			
Sediment	ASTM D3977	8A16085	10	ND	1	1/16/2008	1/16/2008	
Total Suspended Solids	EPA 160.2	8A08116	10	ND	1	1/8/2008	1/8/2008	
Sample ID: IRA0414-27 (010 EFF-11 - Wa Reporting Units: g/cc	ater)			Sampled	: 01/05/08			
Density	Displacement	8A08080	NA	1.0	1	1/8/2008	1/10/2008	
Sample ID: IRA0414-27 (010 EFF-11 - Wa Reporting Units: mg/l	ater)			Sampled	: 01/05/08			
Sediment	ASTM D3977	8A16085	10	ND	1	1/16/2008	1/16/2008	
Total Suspended Solids	EPA 160.2	8A08116	10	ND	1	1/8/2008	1/8/2008	
Sample ID: IRA0414-28 (010 EFF-12 - Wa Reporting Units: g/cc	ater)			Sampled	: 01/05/08			
Density	Displacement	8A08080	NA	0.99	1	1/8/2008	1/10/2008	
Sample ID: IRA0414-28 (010 EFF-12 - Wa Reporting Units: mg/l	ater)			Sampled	: 01/05/08			
Sediment	ASTM D3977	8A16085	10	ND	1	1/16/2008	1/16/2008	
Total Suspended Solids	EPA 160.2	8A08116	10	ND	1	1/8/2008	1/8/2008	
Sample ID: IRA0414-29 (010 EFF-13 - Wa Reporting Units: g/cc	ater)			Sampled	: 01/05/08			
Density	Displacement	8A08080	NA	1.0	1	1/8/2008	1/10/2008	
Sample ID: IRA0414-29 (010 EFF-13 - Wa Reporting Units: mg/l	ater)			Sampled	: 01/05/08			
Sediment	ASTM D3977	8A16085	10	ND	1	1/16/2008	1/16/2008	
Total Suspended Solids	EPA 160.2	8A08116	10	ND	1	1/8/2008	1/8/2008	
Sample ID: IRA0414-30 (010 EFF-14 - Wa Reporting Units: g/cc	ater)			Sampled	: 01/05/08			
Density	Displacement	8A08080	NA	1.0	1	1/8/2008	1/10/2008	
Sample ID: IRA0414-30 (010 EFF-14 - Water) Reporting Units: mg/l				Sampled	: 01/05/08			
Sediment	ASTM D3977	8A16085	10	ND	1	1/16/2008	1/16/2008	
Total Suspended Solids	EPA 160.2	8A08116	10	ND	1	1/8/2008	1/8/2008	

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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: IRA0414

Sampled: 01/04/08-01/05/08 Received: 01/07/08

		INOF	RGANICS					
Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA0414-31 (010 EFF-15 - Wate Reporting Units: g/cc	er)			Sampled	: 01/05/08			
Density	Displacement	8A08080	NA	1.0	1	1/8/2008	1/10/2008	
Sample ID: IRA0414-31 (010 EFF-15 - Wate Reporting Units: mg/l	er)			Sampled	: 01/05/08			
Sediment	ASTM D3977	8A16085	10	ND	1	1/16/2008	1/16/2008	
Total Suspended Solids	EPA 160.2	8A08116	10	ND	1	1/8/2008	1/8/2008	
Sample ID: IRA0414-32 (010 EFF-16 - Wate Reporting Units: g/cc	er)			Sampled	: 01/05/08			
Density	Displacement	8A08080	NA	1.0	1	1/8/2008	1/10/2008	
Sample ID: IRA0414-32 (010 EFF-16 - Wate Reporting Units: mg/l	er)			Sampled	: 01/05/08			
Sediment	ASTM D3977	8A16085	10	ND	1	1/16/2008	1/16/2008	
Total Suspended Solids	EPA 160.2	8A08116	10	ND	1	1/8/2008	1/8/2008	
Sample ID: IRA0414-33 (010 EFF-17 - Wate Reporting Units: g/cc	er)			Sampled	: 01/05/08			
Density	Displacement	8A08080	NA	1.0	1	1/8/2008	1/10/2008	
Sample ID: IRA0414-33 (010 EFF-17 - Wate Reporting Units: mg/l	er)			Sampled	: 01/05/08			
Sediment	ASTM D3977	8A16085	10	ND	1	1/16/2008	1/16/2008	
Total Suspended Solids	EPA 160.2	8A08116	10	ND	1	1/8/2008	1/8/2008	
Sample ID: IRA0414-34 (010 INF-1 - Water Reporting Units: g/cc)			Sampled	: 01/04/08			
Density	Displacement	8A08080	NA	1.0	1	1/8/2008	1/10/2008	
Sample ID: IRA0414-34 (010 INF-1 - Water Reporting Units: mg/l)			Sampled	: 01/04/08			
Sediment	ASTM D3977	8A16085	10	170	1	1/16/2008	1/16/2008	
Total Suspended Solids	EPA 160.2	8A08116	10	170	1	1/8/2008	1/8/2008	
Sample ID: IRA0414-35 (010 INF-2 - Water Reporting Units: g/cc				Sampled	: 01/04/08			
Density	Displacement	8A08080	NA	1.0	1	1/8/2008	1/10/2008	
Sample ID: IRA0414-35 (010 INF-2 - Water Reporting Units: mg/l)			Sampled	: 01/04/08			
Sediment	ASTM D3977	8A16085	10	150	1	1/16/2008	1/16/2008	
Total Suspended Solids	EPA 160.2	8A08116	10	160	1	1/8/2008	1/8/2008	

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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: IRA0414

Sampled: 01/04/08-01/05/08 Received: 01/07/08

INORGANICS										
Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers		
Sample ID: IRA0414-36 (010 INF-3 - Water) Reporting Units: g/cc				Sampled	: 01/04/08					
Density	Displacement	8A08080	NA	1.0	1	1/8/2008	1/10/2008			
Sample ID: IRA0414-36 (010 INF-3 - Water) Reporting Units: mg/l				Sampled	: 01/04/08					
Sediment	ASTM D3977	8A16085	10	270	1	1/16/2008	1/16/2008			
Total Suspended Solids	EPA 160.2	8A08116	10	270	1	1/8/2008	1/8/2008			
Sample ID: IRA0414-37 (010 INF-4 - Water) Reporting Units: g/cc				Sampled	: 01/04/08					
Density	Displacement	8A08080	NA	1.0	1	1/8/2008	1/10/2008			
Sample ID: IRA0414-37 (010 INF-4 - Water) Reporting Units: mg/l				Sampled	: 01/04/08					
Sediment	ASTM D3977	8A16085	10	260	1	1/16/2008	1/16/2008			
Total Suspended Solids	EPA 160.2	8A08116	10	260	1	1/8/2008	1/8/2008			
Sample ID: IRA0414-38 (010 INF-5 - Water) Reporting Units: g/cc				Sampled	: 01/04/08					
Density	Displacement	8A08080	NA	1.0	1	1/8/2008	1/10/2008			
Sample ID: IRA0414-38 (010 INF-5 - Water) Reporting Units: mg/l				Sampled	: 01/04/08					
Sediment	ASTM D3977	8A16085	10	510	1	1/16/2008	1/16/2008			
Total Suspended Solids	EPA 160.2	8A08116	10	510	1	1/8/2008	1/8/2008			
Sample ID: IRA0414-39 (010 INF-6 - Water) Reporting Units: g/cc				Sampled	: 01/05/08					
Density	Displacement	8A08080	NA	1.0	1	1/8/2008	1/10/2008			
Sample ID: IRA0414-39 (010 INF-6 - Water) Reporting Units: mg/l				Sampled	: 01/05/08					
Sediment	ASTM D3977	8A16085	10	310	1	1/16/2008	1/16/2008			
Total Suspended Solids	EPA 160.2	8A08116	10	310	1	1/8/2008	1/8/2008			
Sample ID: IRA0414-40 (010 INF-7 - Water) Reporting Units: g/cc				Sampled	: 01/05/08					
Density	Displacement	8A08080	NA	1.0	1	1/8/2008	1/10/2008			
Sample ID: IRA0414-40 (010 INF-7 - Water) Reporting Units: mg/l				Sampled	: 01/05/08					
Sediment	ASTM D3977	8A16085	10	280	1	1/16/2008	1/16/2008			
Total Suspended Solids	EPA 160.2	8A08116	10	280	1	1/8/2008	1/8/2008			

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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: IRA0414

Sampled: 01/04/08-01/05/08 Received: 01/07/08

INORGANICS									
Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers	
Sample ID: IRA0414-41 (010 INF-8 - Water) Reporting Units: g/cc)			Sampled	: 01/05/08				
Density	Displacement	8A08081	NA	1.0	1	1/8/2008	1/10/2008		
Sample ID: IRA0414-41 (010 INF-8 - Water) Reporting Units: mg/l)			Sampled	: 01/05/08				
Sediment	ASTM D3977	8A16086	10	140	1	1/16/2008	1/16/2008		
Total Suspended Solids	EPA 160.2	8A08117	10	140	1	1/8/2008	1/8/2008		
Sample ID: IRA0414-42 (010 INF-9 - Water) Reporting Units: g/cc)			Sampled	: 01/05/08				
Density	Displacement	8A08081	NA	1.0	1	1/8/2008	1/10/2008		
Sample ID: IRA0414-42 (010 INF-9 - Water) Reporting Units: mg/l	1			Sampled	: 01/05/08				
Sediment	ASTM D3977	8A16086	10	86	1	1/16/2008	1/16/2008		
Total Suspended Solids	EPA 160.2	8A08117	10	86	1	1/8/2008	1/8/2008		
Sample ID: IRA0414-43 (010 INF-10 - Water Reporting Units: g/cc	r)			Sampled	: 01/05/08				
Density	Displacement	8A08081	NA	1.0	1	1/8/2008	1/10/2008		
Sample ID: IRA0414-43 (010 INF-10 - Water Reporting Units: mg/l	r)			Sampled	: 01/05/08				
Sediment	ASTM D3977	8A16086	10	71	1	1/16/2008	1/16/2008		
Total Suspended Solids	EPA 160.2	8A08117	10	71	1	1/8/2008	1/8/2008		
Sample ID: IRA0414-44 (010 INF-11 - Water Reporting Units: g/cc	r)			Sampled	: 01/05/08				
Density	Displacement	8A08081	NA	1.0	1	1/8/2008	1/10/2008		
Sample ID: IRA0414-44 (010 INF-11 - Water Reporting Units: mg/l	r)			Sampled	: 01/05/08				
Sediment	ASTM D3977	8A16086	10	64	1	1/16/2008	1/16/2008		
Total Suspended Solids	EPA 160.2	8A08117	10	64	1	1/8/2008	1/8/2008		
Sample ID: IRA0414-45 (010 INF-12 - Water Reporting Units: g/cc	r)			Sampled	: 01/05/08				
Density	Displacement	8A08081	NA	1.0	1	1/8/2008	1/10/2008		
Sample ID: IRA0414-45 (010 INF-12 - Water Reporting Units: mg/l	r)			Sampled	: 01/05/08				
Sediment	ASTM D3977	8A16086	10	56	1	1/16/2008	1/16/2008		
Total Suspended Solids	EPA 160.2	8A08117	10	56	1	1/8/2008	1/8/2008		

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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: IRA0414

Sampled: 01/04/08-01/05/08 Received: 01/07/08

INORGANICS									
Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers	
Sample ID: IRA0414-46 (010 INF-13 - Wate	r)			Sampled:	: 01/05/08				
Reporting Units: g/cc	Dianla com out	0 4 00001	NTA	1.0	1	1/0/2000	1/10/2009		
Density	Displacement	8A08081	NA	1.0	1	1/8/2008	1/10/2008		
Sample ID: IRA0414-46 (010 INF-13 - Wate	r)			Sampled:	: 01/05/08				
Reporting Units: mg/l		0.1.1.600.6	10			1 11 4 10 000			
Sediment	ASTM D3977	8A16086	10	53	1	1/16/2008	1/16/2008		
Total Suspended Solids	EPA 160.2	8A08117	10	53	1	1/8/2008	1/8/2008		
Sample ID: IRA0414-47 (010 INF-14 - Wate	r)			Sampled:	: 01/05/08				
Reporting Units: g/cc									
Density	Displacement	8A08081	NA	1.0	1	1/8/2008	1/10/2008		
Sample ID: IRA0414-47 (010 INF-14 - Wate	r)			Sampled:	: 01/05/08				
Reporting Units: mg/l									
Sediment	ASTM D3977	8A16086	10	58	1	1/16/2008	1/16/2008		
Total Suspended Solids	EPA 160.2	8A08117	10	58	1	1/8/2008	1/8/2008		

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THE LEADER IN ENVIRONMENTAL TESTING

MWH-Pasadena/Boeing 618 Michillinda Avenue, Suite 200 Arcadia, CA 91007 Attention: Bronwyn Kelly Project ID: BMP Effectiveness Monitoring Program Report Number: IRA0414

Sampled: 01/04/08-01/05/08 Received: 01/07/08

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8A07105 Extracted: 01/07/08										
Blank Analyzed: 01/07/2008 (8A07105-I Total Suspended Solids	BLK1) ND	10								
LCS Analyzed: 01/07/2008 (8A07105-BS		10	mg/l							
Total Suspended Solids	965	10	mg/l	1000		96	85-115			
Duplicate Analyzed: 01/07/2008 (8A071	,				Source: I	RA0401-0	1			
Total Suspended Solids	ND	10	mg/l		ND				10	
Batch: 8A07106 Extracted: 01/07/08										
Blank Analyzed: 01/07/2008 (8A07106-I Total Suspended Solids	BLK1) ND	10	mg/l							
LCS Analyzed: 01/07/2008 (8A07106-BS Total Suspended Solids	51) 973	10	mg/l	1000		97	85-115			
Duplicate Analyzed: 01/07/2008 (8A071	06-DUP1)				Source: I	RA0414-2	3			
Total Suspended Solids	11.0	10	mg/l		10.0			10	10	
Batch: 8A08079 Extracted: 01/08/08										
Duplicate Analyzed: 01/10/2008 (8A080 Density	79-DUP1) 1.00	NA	g/cc		Source: I 1.00	RA0414-0	1	0	20	
Batch: 8A08080 Extracted: 01/08/08			5							
Duplicate Analyzed: 01/10/2008 (8A080	80-DUP1)				Source: I	RA0414-2	1			
Density	1.00	NA	g/cc		1.00			0	20	

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THE LEADER IN ENVIRONMENTAL TESTING

MWH-Pasadena/Boeing 618 Michillinda Avenue, Suite 200 Arcadia, CA 91007 Attention: Bronwyn Kelly Project ID: BMP Effectiveness Monitoring Program Report Number: IRA0414

Sampled: 01/04/08-01/05/08 Received: 01/07/08

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8A08081 Extracted: 01/08/08										
Duplicate Analyzed: 01/10/2008 (8A08081-DUP1)			Source: IRA0414-41							
Density	1.00	NA	g/cc		1.00			0	20	
Batch: 8A08116 Extracted: 01/08/08										
Blank Analyzed: 01/08/2008 (8A08116-F	BLK1)									
Total Suspended Solids	ND	10	mg/l							
LCS Analyzed: 01/08/2008 (8A08116-BS	51)									
Total Suspended Solids	991	10	mg/l	1000		99	85-115			
Duplicate Analyzed: 01/08/2008 (8A08116-DUP1)				Source: IRA0414-30						
Total Suspended Solids	ND	10	mg/l		ND				10	
Batch: 8A08117 Extracted: 01/08/08										
Blank Analyzed: 01/08/2008 (8A08117-BLK1)										
Total Suspended Solids	ND	10	mg/l							
LCS Analyzed: 01/08/2008 (8A08117-BS	51)									
Total Suspended Solids	993	10	mg/l	1000		99	85-115			
Duplicate Analyzed: 01/08/2008 (8A08117-DUP1)				Source: IRA0446-01						
Total Suspended Solids	ND	10	mg/l		ND				10	

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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: IRA0414

Sampled: 01/04/08-01/05/08 Received: 01/07/08

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

DATA QUALIFIERS AND DEFINITIONS

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

RPD Relative Percent Difference

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

MWH-Pasadena/Boeing	Project ID:	BMP Effectiveness		
618 Michillinda Avenue, Suite 200		Monitoring Program	Sampled:	01/04/08-01/05/08
Arcadia, CA 91007	Report Number:	IRA0414	Received:	01/07/08
Attention: Bronwyn Kelly				

Certification Summary

TestAmerica Irvine

Method	Matrix	Nelac	California
ASTM D3977	Water		
Displacement	Water		
EPA 160.2	Water	Х	Х

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

		Distrat: Desing BMD	a BMD					ANAI YSIS	RFOURED	L L	
Client Name/Address: MWH-Arca dia		Project. Boeing Dwr Effectiveness Monitoring Program	g omr Monitorinç		-			5		Field readings:	
o to inicialitida Avenue, Julio 200 Arcadía, CA 91007 Test America Contact: Joseph Doak)			tn: MTSA ,C					d	
acri Drommin Kolly		Dhone Number	۰. ۲)SS au					⊀ 2 _{= Hd}	
Project Manager: Brutwyn Neny		(626) 568-6691 Eax Number	Ξ		2) noit					Time of readings = N i	
DAMAN -		(626) 568-6515	2		entneo Pendeo					Comments	
Sample Container Matrix Type	# of Cont.		Preservative	Bottle #	no⊃					₹ € €	
	-		None		×>						
		1/4/08 - 2040 1/4/08 - 2140	None	v e	< ×						
W 500 mL Polv		1/4/08 - 2240	None	94	×						
	-	1/4/08 – 2340	None	5	×				_		
	-	1/5/08 - 0040	None	9	× ;						
	-	1/5/08 - 0140	None	~ (×			-			
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		1/5/08 - 0540	None	=	×						
+		1/5/08 - 0640	None	<u>51</u>	×		_	_	_		
W 500 mL Pely	+		None	با							
W 500 mL Poly			None	4	×						
	-		None	15	×	4	(
			None	16	× >	1					
			None	18	< ×						
			None	19	< ×						
W 300 IIIL FOIY	- -		None	20	×						
	-		None	21	×			/			
	-		None	22	×			4			
W 500 mL Poly			None	23	×			/			
	-		None	24	×						
Relinquished By 1-6.08	Date/Time:	ne:	Received By		LAT L		01/0 6/0g	1210		Turn around Time: (check) 24 Hours5 Days	
Relinguished En TO the UN POLOS EMERTIME	Ene/Tir		Received By			Date/Time:	ne:				>
6	0	REF/ 5%0,	-			1				12 Hours Normal	< 7
Relinquished By	Date/Time:	1	Received By EVIM HOLD	E C	HOLD.		-			Sample Integrity: (check) Intact On Ice:	5
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Tact America Version 12/20/07	vica v	/ersion 12/20/07		CHAIN OF CUSTODY FORM	JF CUS	TOD	Y FOR	Σ				Page 1 of 1
Client Name/Address	vddress.			Project: Boeing BMP	g BMP				A	ANALYSIS REQ	REQUIRED	
MWH-Arcadia	Jia			Effectiveness Monitoring	Monitorinç						Field r	Field readings:
618 Michillinda Avenue. Suite 200 Arcadia, CA 91007	Avenue. 007	Suite 200		rtogram			-MT2A				Temp =	52 =
Test America Contact: Joseph Doak	ontact: J	loseph Doak					, ,Os				= Hq	52
Project Manager: Bronwyn Kelly ג אאאאייגיא נ Sampler: אאאייגיא נ	ager: Bronw 25,21,22 o 21,21 of 19	nwyn Kelly 5 o 1 L		Phone Number: (626) 568-6691 Fax Number: (626) 568-6515	<u>ت</u> 1		nibəS bəbnə Phtration (SS (7991-7				Time	Time of readings = N_{M}
Sample	Sample	Container	t of #	Sampling Date/Time	Preservative	Bottle #	Conc					
006 INF-1	N	500 mL Poly	+		None	-	×					
006 INF-2	3	500 mL Poly			None	~ ~	× >					
006 INF-3	3	500 mL Poly		1	None	n -	< >					
006 INF-4	× ×	500 mL Poly		1/4/08 - 22 10	Nulle	1						
UUB INE 6		500 mL Polv			None	9	×					
006 INF-7	: 3	500 mL Poly	-		None	7	×					
006 INF-8	N	500 mL Poly	-		None	8	×					
006 INF-9	M	500 mL Poly	-		None	6	×;	7				
006 INF-10	W	500 mL Poly	-		None	2	×					
006 INF-11	N	500 mL Poly	-		None	5	× >					
006 INF-12	Ň	500 mir Puly	,-		Nono				MY		-	
006 INF-13	3	500 mL Poly	-		None	2	<>				_	
006 INF-14	3	500 mL Poly			None	1 7 4	< ×					
006 INF-15	8	500 mL Poly	-		None	14	<					
006 INF-16	>	500 mL Poly			None	1	< ×					
006 INF-17	<u> </u>	500 mL Poly			None	18	×					
000 INF-10	~ ~	500 ml Polv			None	19	×					
006 INF-20	: >	500 mL Poly	-		None	20	×					
006 INF-21	8	500 mL Poly	-		None	21	×					
006 INF-22	3	500 mL Poly	1		None	52	×				-	
006 INF-23	3	500 mL Poly	1		None	23	×					
006 INF-24	N	^o oly			None	_				_	1	
Relinguished By	` 	-6-08	Date/Time:	ы: /2/ ^д	Received By	c	An Ta	TAT DIE INTE	80%	1210	Turn £ 24 Hoi	Turn around Time: (check) 24 Hours 5 Days
Relinctished R	1.	こ、Hain For NY - Date/Time	Date/Tim	le:	Received By	2277	and the second s	Date/Time:			48 Hours	urs 10 Days
A		D TAI	0/0	16 1 Le							72 Hours	urs Normal X
Relincuished Bv	d d	Acres	Date/Time:	100 / / /	Received By			Date/Time:			Intact	Sample integrity: (cireck) Intact On Ice:
	~											

with addition of the second second

Test America Version 12/20/07	erica	/ersion 12/20/07		CHAIN OF CUSTODY	DF CUS	STOL	NY FORM	ž				Page 1 of
Client Name/Address:	Address.			Project: Boeing BMP	ng BMP					ANAL YSIS F	REQUIRED	
MWH-Arcadia	dia			Effectiveness Monit	s Monitoring	g						
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Test America Contact: Joseph Doak	Contact:	Joseph Doak										
Project Manager: Bronwyn Kelly	ger: Bro	nwyn Kelly		Phone Number	er:							
S.	F BANAUSC			(626) 568-6691	11		uc			,		Time of readings = \sqrt{M}
Sampler: 5 monse		ۍ ر نه		Fax Number: (626) 568-6515	5		behded pitentraci 7997-77					Comments
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	Conc					
010 EFF-1	3	500 mL Poly	٢	1/4/08 - 1945	None	-	×					
010 EFF-2	N	500 mL Poly	-	1/4/08 - 2045	None	2	×					
010 EFF-3	≥	500 mL Poly	~	1/4/08 – 2145	None	e	×		-			
010 EFF-4	33	500 mL Poly	τ τ	1/4/08 - 2245 1/1/08 - 2245	None	4 v	× >					
010 555-6	: >	500 mL Polv		1/5/08 - 0045	None	ي د	: ×					
010 FFF-7	: >	500 mL Polv	-	1/5/08 - 0145	None	~	× ×					
010 EFF-8	N	500 mL Poly	-	1/5/08 - 0245	None	8	×					
010 EFF-9	M	500 mL Poly	-	1/5/08 - 0345	None	6	×					
010 EFF-10	N	500 mL Poly	1	1/5/08 – 0445	None	10	×					
010 EFF-11	N	500 mL Poly	1	1/5/08 – 0545	None	1	×					
010 EFF 12	Ŵ	500 mL Poly	۳.	1/5/08 - 0645	None	6 i	×				+	
010 EFF-13	8	500 mL Poly	-	1/5/08 - 0745	None	13	×					
010 EFF-14	3	500 mL Poly	-	1/5/08 – 0845	None	14	×					
010 EFF-15	3	500 mL Poly	-	1/5/08 – 0945	None	15	×					
010 EFF-16	3	500 mL Poly	-	1/5/08 - 1045	None	16	×					
010 EFF-17	≥	500 mL Poly		1/5/08 - 1145	None	17	×					
010.EEE-18	A	500 mL Poly	┥		None	4	∦ ×					
010 EFF-19	8	500 mL Poly	-		None	19	×	Å				
010 EFF-20	3	500 mL Poly			None	50	×	, 				
010 EFF-21	8	500 mL Poly	-		None	5	× ;		X			•
010 EFF-22	≥	500 mL Poly	-		None	52	×			/		
010 EFF-23	≥	500 mL Poly			None	23	×			/		
010 EFF-24	N	Poly	-		None	24		i			/	
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shed	J.		Date/Time:	ne:	Received By			Date/Time:				Sample Integrity: (check) Intact On Ice:

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618 Michillinda Avenue, Suite 200 Arcadia, CA 91007	Avenue, { 007	Suite 200		Program			·MT8					Field readings Tamp =
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Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	uoŊ					
010 INF-1	3	500 mL Poly	-	1/4/08 - 1930	None	-	×					
010 INF-2	N	500 mL Poly	-	1/4/08 – 2030	None	0	××					
010 INF-3	>	500 mL Poly		1/4/08 - 2130	None		< >					
010 INF-4	23	500 mL Polv		1/4/08 - 2230	None	5 4	< ×			_	-	
010 INF-6	. M	500 mL Polv		1/5/08 - 0030	None	9	×					
010 INF-7	3	500 mL Poly	-	1/5/08 - 0130	None	7	×					
010 INF-8	N	500 mL Poly	-	1/5/08 - 0230	None	8	×					
010 INF-9	N	500 mL Poly	-	1/5/08 - 0330	None	6	×					
010 INF-10	3	500 mL Poly	-	1/5/08 - 0430	None	9	× ;					
010 INF-11	≥	500 mL Poly		1/5/08 - 0530	None	; 1	×					
010 INF-12	2	bùu mL Poiy		1/5/08 - 0050		7	< >	-	-	+		
010 INF-13	8	500 mL Poly		1/5/08 - 0/30	None	5	< >					
010 INF-14	N	500 ML Poly		0000 - 00/0/1	None	7 - t	< >					
			- -		Nono	46			-			
010 INF-16	8	500 mL Poly			None	<u>o</u> t	< >	7				
010 INF-17	3	500 mL Poly			None	101	< >	/ 				
010 INF-18	3	500 mL Poly			None	0	< ×					
010 INF-19	~ ~	500 mL Polv	- -		None	20	×					
010 INF-21	: 3	500 mL Poly			None	21	×					
010 INF-22	3	500 mL Poly	-		None	22	×)	/		
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APPENDIX G

Section 35

Outfall 006, January 24, 2008 MEC^X Data Validation Reports



DATA VALIDATION REPORT

Boeing SSFL NPDES

SAMPLE DELIVERY GROUP: IRA2349

Prepared by

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

I. INTRODUCTION

Task Order Title: Contract Task Order:	Boeing SSFL NPDES 1261.100D.00
Sample Delivery Group:	IRA2349
Project Manager:	B. Kelly
Matrix:	Soil
QC Level:	IV
No. of Samples:	1
No. of Reanalyses/Dilutions:	0
Laboratory:	TestAmerica-Irvine

Table 1. Sample Identification

Client ID	Laboratory ID	Sub-Laboratory ID	Matrix	Collected	Method
Outfall 006	IRA2349-01	30202-001, 8012534-01	Water	01/24/08 0900	200.8, 245.1, 900.0, 901.1, 903.0, 904.0, 905.0, 906.0, 1613, ASTM D-5174

II. Sample Management

No anomalies were observed regarding sample management. The sample in this SDG was received at TestAmerica-Irvine and Vista within the temperature limits of 4°C ±2°C. The sample was received above the temperature limit at Weck; however, mercury is not considered volatile. The sample was received above the temperature limit at Eberline; however, radiological samples are not required to be chilled. According to the case narrative for this SDG, the sample was received intact at all laboratories. The COCs were appropriately signed and dated by field and/or laboratory personnel. As the sample was couriered to TestAmerica-Irvine, custody seals were not required. Custody seals were intact upon arrival at Eberline and Vista. No custody seals were present upon receipt at Weck. If necessary, the client ID was added to the sample result summary by the reviewer.

Qualifie	r 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.	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.
Ν	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.

Data Qualifier Reference Table

Qualifier	Organics	Inorganics
н	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
С	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.
В	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.
Е	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.
Μ	Tuning (BFB or DFTPP) was noncompliant.	Not applicable.
Т	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

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.
Ρ	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.
*11, *111	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: K. Shadowlight Date Reviewed: March 1, 2008

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 (8/02).

- 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 not analyzed prior to the initial calibration sequence or at the beginning of each analytical sequence; however, the first and last eluting congeners and isomer specificity compounds were added to the midpoint of the initial calibration and to the continuing calibration standards. 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 no target compound detects above the EDL.

- Blank Spikes and Laboratory Control Samples: 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 any sample detects and a representative number of blank spike concentrations. The laboratory calculated and reported compound-specific detection limits. Any detects below the laboratory lower calibration level were qualified as estimated, "J," and coded with "DNQ," in order to comply with the NPDES permit. Nondetects are valid to the estimated detection limit (EDL).

B. EPA METHODS 200.8, 245.1—Metals and Mercury

Reviewed By: P. Meeks Date Reviewed: March 4, 2008

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-5, Rev. 0 and DVP-21, Rev. 0), EPA Methods 200.8 and 245.1, and the National Functional Guidelines for Inorganic Data Review (2/94).

- Holding Times: The analytical holding times, 6 months for metals and 28 days for mercury, were met.
- Tuning: The mass calibration and resolution checks criteria were met. All tuning solution %RSDs were ≤5%, and all masses of interest were calibrated to ≤ 0.1 amu and ≤0.9 amu at 10% peak height.
- Calibration: Calibration criteria were met. Mercury initial calibration r² values were ≥0.995 and all initial and continuing calibration recoveries were within 90-110% for the ICP-MS metals and 85-115% for mercury. The cadmium 0.2 ppb check standard was recovered

above the control limit at 139%; therefore, total cadmium detected in the sample was qualified as an estimated detect, "J." All remaining check standard recoveries were within the control limits of 70-130%

- Blanks: There were no applicable detects in the method blanks or CCBs.
- Interference Check Samples: ICSA/B analyses were performed in association with the total metals analyses only. Recoveries were within the method-established control limits. Most analytes were reported in the 6020 ICSA solution; however, the reviewer was not able to ascertain if the detection was indicative of matrix interference.
- Blank Spikes and Laboratory Control Samples: The recoveries were within laboratoryestablished QC limits.
- Laboratory Duplicates: No laboratory duplicate analyses were performed.
- Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were performed on the dissolved aliquot and a matrix spike analysis was performed on the total metals aliquot. All recoveries and RPDs were within the laboratory-established control limits. Evaluation of the mercury method accuracy was based on LCS results.
- Serial Dilution: No serial dilution analyses were performed.
- Internal Standards Performance: All sample internal standard intensities were within 30-120% of the internal standard intensities measured in the initial calibration. The bracketing CCV and CCB internal standard intensities were within 80-120% of the internal standard intensities measured in the initial calibration.
- 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. Detects reported below 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.

C. VARIOUS EPA METHODS — Radionuclides

Reviewed By: P. Meeks Date Reviewed: March 5, 2008

The sample listed in Table 1 for this analysis was 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* (2/94).

- Holding Times: The tritium sample was analyzed within 180 days of collection. Aliquots for gross alpha, gross beta, radium-226, radium-228, strontium-90, and gamma spectroscopy were prepared within the five-day analytical holding time for unpreserved samples. The aliquot for total uranium was prepared within five days of collection.
- Calibration: The laboratory calibration information included the standard certificates and applicable preparation/dilutions logs for NIST-traceability.

The gross alpha detector efficiency was less than 20%; therefore, gross alpha detected in the sample was qualified as an estimated detect, "J." The gross beta detector efficiency was greater than 20%.

The tritium aliquot was spiked for efficiency determination; therefore, no calibration was necessary. The tritium detector efficiency for the sample was at least 20% and was considered acceptable. The internal spike efficiency to default efficiency ratios was near 1, indicating that quenching was not significant.

The strontium chemical yield was at least 70% and was considered acceptable. The strontium continuing calibration results were within the laboratory control limits.

The radium-226 cell efficiencies were determined in September 2006. The radium-226 continuing calibration results were within the laboratory-established control limits. The radium-228 calibration utilized actinium-228 and was verified in February 2001. The radium-228 tracer, yttrium oxalate yields were greater than 70%.

The gamma spectroscopy geometry-specific, detector efficiencies were determined in September 1999 and February 2007. All analytes were determined at the maximum photopeak energy.

The kinetic phosphorescence analyzer (KPA) was calibrated immediately prior to the sample analysis. All calibration check standard recoveries were within 90-110% and were deemed acceptable.

- Blanks: There were no analytes detected in the method blanks.
- Blank Spikes and Laboratory Control Samples: The recoveries were within laboratoryestablished control limits.

- Laboratory Duplicates: No laboratory duplicate analysis 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. Reported nondetects are valid to the MDA.
- 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:
 - o 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.

Client Data				Sample Data		Laboratory Data				
Name: Project: Date Collected: Time Collected:	Test America-Irvine, CA IRA2349 24-Jan-08 0930	vine, CA		Matrix: Sample Size:	Aqueous 1.00 L	Lab Sample: QC Batch No.: Date Analyzed DB-5:	30201-001 9917 6-Feb-08	Date Received: Date Extracted: Date Analyzed DB-225:	: DB-225;	26-Jan-08 31-Jan-08 NA
Analyte	Conc. (ug/L)		DL ^a	EMPC ^b	Qualifiers	Labeled Standard	ıdard	%R LCL	rcr-ucr ^d	Qualifiers
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Project 30201

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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: Routine Outfall 006

Report Number: IRA2349

Sampled: 01/24/08 Received: 01/24/08

		1								
Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers	
Sample ID: IRA2349-01 (Outfall 006 -	Water)									
Reporting Units: ug/l										
Antimony J/DNQ	EPA 200.8	8A25068	0.20	2.0	0.45	1	01/25/08	01/25/08	J	
Cadmium J/XTT, DNQ	EPA 200.8	8A25068	0.11	1.0	0.12	1	01/25/08	01/25/08	J	
Copper J/DNQ	EPA 200.8	8A25068	0.75	2.0	1.9	1	01/25/08	01/25/08	J	
Lead	EPA 200.8	8A25068	0.30	1.0	1.1	1	01/25/08	01/25/08		
Thallium U	EPA 200.8	8A25068	0.20	1.0	ND	1	01/25/08	01/25/08		

METALS

LEVEL IV

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Joseph Doak Project Manager

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IRA2349 <Page 2 of 15>

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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: Routine Outfall 006

Report Number: IRA2349

Sampled: 01/24/08 Received: 01/24/08

DISSOLVED METALS

Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Water) - cont.								
EPA 200.8-Diss	8A24169	0.20	2.0	0.42	1	01/24/08	01/25/08	J
EPA 200.8-Diss	8A24169	0.11	1.0	ND	1	01/24/08	01/24/08	
EPA 200.8-Diss	8A24169	0.75	2.0	ND	1	01/24/08	01/24/08	
EPA 200.8-Diss	8A24169	0.30	1.0	ND	1	01/24/08	01/24/08	
EPA 200.8-Diss	8A24169	0.20	1.0	ND	1	01/24/08	01/24/08	
	Water) - cont. EPA 200.8-Diss EPA 200.8-Diss EPA 200.8-Diss EPA 200.8-Diss	Water) - cont. EPA 200.8-Diss 8A24169 EPA 200.8-Diss 8A24169 EPA 200.8-Diss 8A24169 EPA 200.8-Diss 8A24169 EPA 200.8-Diss 8A24169	Method Batch Limit Water) - cont. EPA 200.8-Diss 8A24169 0.20 EPA 200.8-Diss 8A24169 0.11 EPA 200.8-Diss 8A24169 0.75 EPA 200.8-Diss 8A24169 0.30	Method Batch Limit Limit Water) - cont. EPA 200.8-Diss 8A24169 0.20 2.0 EPA 200.8-Diss 8A24169 0.11 1.0 EPA 200.8-Diss 8A24169 0.75 2.0 EPA 200.8-Diss 8A24169 0.75 2.0 EPA 200.8-Diss 8A24169 0.30 1.0	Method Batch Limit Limit Result Water) - cont. EPA 200.8-Diss 8A24169 0.20 2.0 0.42 EPA 200.8-Diss 8A24169 0.11 1.0 ND EPA 200.8-Diss 8A24169 0.75 2.0 ND EPA 200.8-Diss 8A24169 0.75 2.0 ND EPA 200.8-Diss 8A24169 0.30 1.0 ND	Method Batch Limit Limit Result Factor Water) - cont. EPA 200.8-Diss 8A24169 0.20 2.0 0.42 1 EPA 200.8-Diss 8A24169 0.11 1.0 ND 1 EPA 200.8-Diss 8A24169 0.75 2.0 ND 1 EPA 200.8-Diss 8A24169 0.75 2.0 ND 1 EPA 200.8-Diss 8A24169 0.30 1.0 ND 1	Method Batch Limit Limit Result Factor Extracted Water) - cont. <td>Method Batch Limit Limit Result Factor Extracted Analyzed Water) - cont. Analyzed Water) - cont. Analyzed EPA 200.8-Diss 8A24169 0.20 2.0 0.42 1 01/24/08 01/25/08 EPA 200.8-Diss 8A24169 0.11 1.0 ND 1 01/24/08 01/24/08 EPA 200.8-Diss 8A24169 0.75 2.0 ND 1 01/24/08 01/24/08 EPA 200.8-Diss 8A24169 0.30 1.0 ND 1 01/24/08 01/24/08</td>	Method Batch Limit Limit Result Factor Extracted Analyzed Water) - cont. Analyzed Water) - cont. Analyzed EPA 200.8-Diss 8A24169 0.20 2.0 0.42 1 01/24/08 01/25/08 EPA 200.8-Diss 8A24169 0.11 1.0 ND 1 01/24/08 01/24/08 EPA 200.8-Diss 8A24169 0.75 2.0 ND 1 01/24/08 01/24/08 EPA 200.8-Diss 8A24169 0.30 1.0 ND 1 01/24/08 01/24/08

LEVEL IV

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IRA2349 <Page 3 of 15>



LEVEL IV

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 MWH-Pasadena/Boeing
 Project ID:
 Routine Outfall 006

 618 Michillinda Avenue, Suite 200
 Sampled:
 01/24/08

 Arcadia, CA 91007
 Report Number:
 IRA2349
 Received:
 01/24/08

 Attention:
 Bronwyn Kelly
 IRA2349
 Received:
 01/24/08

Metals by EPA 200 Series Methods

Analyte		Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA2349-01	(Outfall 006 - W	ater) - cont.								
Reporting Units: ug	уЛ									
Mercury, Dissolved	\cup	EPA 245.1	W8A1076	0.050	0.20	ND	1	01/30/08	01/31/08	
Mercury, Total	U	EPA 245.1	W8A1076	0.050	0.20	ND	1	01/30/08	01/31/08	

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IRA2349 <Page 5 of 15>

Eberline Services

SDG	8685	Client	TA IRVINE
Work Order	R801163-01	Contract	PR0JECT# IRA2349
Received Date	01/26/08	Matrix	WATER

ANALYSIS RESULTS

Client	Lab						
Sample ID	Sample ID	Collected	Analyzed	Nuclide	Results ± 20	Units	MDA
outfall 006							,
IRA2349-01	8685-001	01/24/08	02/06/08	GrossAlpha	1.67 ± 1.0	pCi/L	1.3 J/R
			02/06/08	Gross Beta	6.62 ± 1.3	pCi/L	1.8
			02/04/08	Ra-228	0.176 ± 0.15	pCi/L	0.42 U
			01/31/08	K-40 (G)	U	pCi/L	34
			01/31/08	Cs-137 (G)	υ	pCi/L	1.4
			02/15/08	H-3	-32.5 ± 93	pCi/L	160
			02/11/08	Ra-226	-0.103 ± 0.44	pCi/L	0.87
			02/07/08	Sr-90	-0.081 ± 0.28	pCi/L	0.58 🗸
			02/19/08	Total U	0.859 ± 0.094	pCi/L	0.022

LEVEL IV

Certified by____ n Report Date 02/22/08 Page 1

APPENDIX G

Section 36

Outfall 006, January 24, 2008 Test America Analytical Laboratory Report

<u>TestAmerica</u>

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: Routine Outfall 006

Sampled: 01/24/08 Received: 01/24/08 Issued: 02/25/08 16:52

NELAP #01108CA California ELAP#1197 CSDLAC #10256

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and

is an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

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

This is a Final report to include all subcontract data.

ADDITIONAL

INFORMATION:

LABORATORY ID IRA2349-01 **CLIENT ID** Outfall 006 MATRIX Water

Reviewed By:

Joseph Dock

TestAmerica Irvine Joseph Doak Project Manager

<u>TestAmerica</u>

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: Routine Outfall 006

Report Number: IRA2349

Sampled: 01/24/08 Received: 01/24/08

METALS MDL Reporting Sample Dilution Date Date Data Analyte Method Batch Limit Limit Result Factor Extracted Analyzed Qualifiers Sample ID: IRA2349-01 (Outfall 006 - Water) Reporting Units: ug/l 0.20 EPA 200.8 8A25068 2.0 0.45 01/25/08 01/25/08 J Antimony 1 Cadmium EPA 200.8 8A25068 0.11 1.0 0.12 1 01/25/08 01/25/08 J 8A25068 0.75 2.0 1.9 01/25/08 01/25/08 Copper EPA 200.8 1 J Lead EPA 200.8 8A25068 0.30 1.0 1.1 01/25/08 01/25/08 1 Thallium EPA 200.8 8A25068 0.20 1.0 ND 1 01/25/08 01/25/08

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MWH-Pasadena/Boeing 618 Michillinda Avenue, Suite 200 Arcadia, CA 91007 Attention: Bronwyn Kelly Project ID: Routine Outfall 006

Report Number: IRA2349

Sampled: 01/24/08 Received: 01/24/08

DISSOLVED METALS												
Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers			
Sample ID: IRA2349-01 (Outfall 006 - V	Vater) - cont.											
Reporting Units: ug/l												
Antimony	EPA 200.8-Diss	8A24169	0.20	2.0	0.42	1	01/24/08	01/25/08	J			
Cadmium	EPA 200.8-Diss	8A24169	0.11	1.0	ND	1	01/24/08	01/24/08				
Copper	EPA 200.8-Diss	8A24169	0.75	2.0	ND	1	01/24/08	01/24/08				
Lead	EPA 200.8-Diss	8A24169	0.30	1.0	ND	1	01/24/08	01/24/08				
Thallium	EPA 200.8-Diss	8A24169	0.20	1.0	ND	1	01/24/08	01/24/08				

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THE LEADER IN ENVIRONMENTAL TESTING

Arcadia, CA 91007

Attention: Bronwyn Kelly

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MWH-Pasadena/Boeing 618 Michillinda Avenue, Suite 200

Report Number: IRA2349

Project ID: Routine Outfall 006

Sampled: 01/24/08 Received: 01/24/08

INORGANICS											
Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers		
Sample ID: IRA2349-01 (Outfall 006 - Reporting Units: mg/l	Water) - cont.										
Hexane Extractable Material (Oil & Grease)	EPA 1664A	8A31085	1.3	4.8	ND	1	01/31/08	01/31/08			
Chloride	EPA 300.0	8A24164	5.0	10	56	20	01/24/08	01/25/08			
Nitrate/Nitrite-N	EPA 300.0	8A24164	0.15	0.26	0.18	1	01/24/08	01/25/08	J		
Sulfate	EPA 300.0	8A24164	0.20	0.50	13	1	01/24/08	01/25/08			
Total Dissolved Solids	SM2540C	8A25141	10	10	250	1	01/25/08	01/25/08			

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MWH-Pasadena/Boeing 618 Michillinda Avenue, Suite 200 Arcadia, CA 91007 Attention: Bronwyn Kelly Project ID: Routine Outfall 006

Report Number: IRA2349

Sampled: 01/24/08 Received: 01/24/08

Metals by EPA 200 Series Methods												
Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers			
Sample ID: IRA2349-01 (Outfall 006 - Wa	ater) - cont.											
Reporting Units: ug/l												
Mercury, Dissolved	EPA 245.1	W8A1076	0.050	0.20	ND	1	01/30/08	01/31/08				
Mercury, Total	EPA 245.1	W8A1076	0.050	0.20	ND	1	01/30/08	01/31/08				

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MWH-Pasadena/Boeing 618 Michillinda Avenue, Suite 200 Arcadia, CA 91007 Project ID: Routine Outfall 006

Report Number: IRA2349

Sampled: 01/24/08 Received: 01/24/08

SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: Outfall 006 (IRA2349-01) - Wate	r				
EPA 300.0	2	01/24/2008 09:30	01/24/2008 18:15	01/24/2008 19:00	01/25/2008 00:25

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MWH-Pasadena/Boeing 618 Michillinda Avenue, Suite 200 Arcadia, CA 91007 Attention: Bronwyn Kelly Project ID: Routine Outfall 006

Report Number: IRA2349

Sampled: 01/24/08 Received: 01/24/08

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8A25068 Extracted: 01/25/08	8										
Blank Analyzed: 01/25/2008 (8A25068-B	LK1)										
Antimony	ND	2.0	0.20	ug/l							
Cadmium	ND	1.0	0.11	ug/l							
Copper	ND	2.0	0.75	ug/l							
Lead	ND	1.0	0.30	ug/l							
Thallium	ND	1.0	0.20	ug/l							
LCS Analyzed: 01/25/2008 (8A25068-BS	1)										
Antimony	84.5	2.0	0.20	ug/l	80.0		106	85-115			
Cadmium	84.8	1.0	0.11	ug/l	80.0		106	85-115			
Copper	86.4	2.0	0.75	ug/l	80.0		108	85-115			
Lead	85.0	1.0	0.30	ug/l	80.0		106	85-115			
Thallium	82.7	1.0	0.20	ug/l	80.0		103	85-115			
Matrix Spike Analyzed: 01/25/2008 (8A2	25068-MS1)				Sou	irce: IRA	2276-02				
Antimony	82.3	2.0	0.20	ug/l	80.0	ND	103	70-130			
Cadmium	82.0	1.0	0.11	ug/l	80.0	ND	102	70-130			
Copper	83.4	2.0	0.75	ug/l	80.0	ND	104	70-130			
Lead	81.0	1.0	0.30	ug/l	80.0	ND	101	70-130			
Thallium	80.4	1.0	0.20	ug/l	80.0	ND	101	70-130			
Matrix Spike Analyzed: 01/25/2008 (8A2	25068-MS2)				Sou	irce: IRA	2349-01				
Antimony	82.9	2.0	0.20	ug/l	80.0	0.445	103	70-130			
Cadmium	82.9	1.0	0.11	ug/l	80.0	0.119	104	70-130			
Copper	86.6	2.0	0.75	ug/l	80.0	1.92	106	70-130			
Lead	77.5	1.0	0.30	ug/l	80.0	1.14	95	70-130			
Thallium	77.7	1.0	0.20	ug/l	80.0	ND	97	70-130			
Matrix Spike Dup Analyzed: 01/25/2008	(8A25068-M	ISD1)			Sou	irce: IRA	2276-02				
Antimony	82.2	2.0	0.20	ug/l	80.0	ND	103	70-130	0	20	
Cadmium	82.6	1.0	0.11	ug/l	80.0	ND	103	70-130	1	20	
Copper	83.7	2.0	0.75	ug/l	80.0	ND	105	70-130	0	20	
Lead	81.7	1.0	0.30	ug/l	80.0	ND	102	70-130	1	20	
Thallium	81.7	1.0	0.20	ug/l	80.0	ND	102	70-130	2	20	

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MWH-Pasadena/Boeing 618 Michillinda Avenue, Suite 200 Arcadia, CA 91007 Attention: Bronwyn Kelly Project ID: Routine Outfall 006

Report Number: IRA2349

Sampled: 01/24/08 Received: 01/24/08

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: 8A24169 Extracted: 01/24/08	_										
Blank Analyzed: 01/24/2008-01/25/2008 (8A24169-BLF	(1)									
Antimony	ND	2.0	0.20	ug/l							
Cadmium	ND	1.0	0.11	ug/l							
Copper	ND	2.0	0.75	ug/l							
Lead	ND	1.0	0.30	ug/l							
Thallium	ND	1.0	0.20	ug/l							
LCS Analyzed: 01/24/2008-01/25/2008 (8	A24169-BS1)										
Antimony	83.6	2.0	0.20	ug/l	80.0		104	85-115			
Cadmium	80.4	1.0	0.11	ug/l	80.0		100	85-115			
Copper	84.6	2.0	0.75	ug/l	80.0		106	85-115			
Lead	78.0	1.0	0.30	ug/l	80.0		97	85-115			
Thallium	81.1	1.0	0.20	ug/l	80.0		101	85-115			
Matrix Spike Analyzed: 01/24/2008-01/25	5/2008 (8A241	69-MS1)			Sou	rce: IRA	2349-01				
Antimony	86.9	2.0	0.20	ug/l	80.0	0.421	108	70-130			
Cadmium	77.3	1.0	0.11	ug/l	80.0	ND	97	70-130			
Copper	78.7	2.0	0.75	ug/l	80.0	ND	98	70-130			
Lead	75.7	1.0	0.30	ug/l	80.0	ND	95	70-130			
Thallium	77.2	1.0	0.20	ug/l	80.0	ND	97	70-130			
Matrix Spike Dup Analyzed: 01/24/2008-	-01/25/2008 (8.	A24169-MS	D1)		Sou	rce: IRA2	2349-01				
Antimony	86.9	2.0	0.20	ug/l	80.0	0.421	108	70-130	0	20	
Cadmium	78.7	1.0	0.11	ug/l	80.0	ND	98	70-130	2	20	
Copper	79.3	2.0	0.75	ug/l	80.0	ND	99	70-130	1	20	
Lead	73.7	1.0	0.30	ug/l	80.0	ND	92	70-130	3	20	
Thallium	75.6	1.0	0.20	ug/l	80.0	ND	94	70-130	2	20	

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MWH-Pasadena/Boeing 618 Michillinda Avenue, Suite 200 Arcadia, CA 91007 Attention: Bronwyn Kelly Project ID: Routine Outfall 006

Report Number: IRA2349

Sampled: 01/24/08 Received: 01/24/08

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8A24164 Extracted: 01/24/08	_										
Blank Analyzed: 01/24/2008 (8A24164-B	LK1)										
Chloride	ND	0.50	0.25	mg/l							
Nitrate/Nitrite-N	ND	0.26	0.15	mg/l							
Sulfate	ND	0.50	0.20	mg/l							
LCS Analyzed: 01/24/2008 (8A24164-BS	1)										
Chloride	4.84	0.50	0.25	mg/l	5.00		97	90-110			M-3
Sulfate	9.79	0.50	0.20	mg/l	10.0		98	90-110			<i>M-3</i>
Matrix Spike Analyzed: 01/25/2008 (8A2	4164-MS2)				Sou	rce: IRA	2351-10				
Chloride	178	10	5.0	mg/l	50.0	133	90	80-120			
Sulfate	363	10	4.0	mg/l	100	275	88	80-120			
Batch: 8A25141 Extracted: 01/25/08	_										
	1 171)										
Blank Analyzed: 01/25/2008 (8A25141-B	<i>,</i>	10	10	4							
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 01/25/2008 (8A25141-BS	1)										
Total Dissolved Solids	1000	10	10	mg/l	1000		100	90-110			
Duplicate Analyzed: 01/25/2008 (8A2514	1-DUP1)				Sou	rce: IRA	2124-05				
Total Dissolved Solids	1920	10	10	mg/l		1920			0	10	
Batch: 8A31085 Extracted: 01/31/08	_										
Blank Analyzed: 01/31/2008 (8A31085-B	LK1)										
Hexane Extractable Material (Oil & Grease)	ND	5.0	1.4	mg/l							



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MWH-Pasadena/Boeing 618 Michillinda Avenue, Suite 200 Arcadia, CA 91007 Attention: Bronwyn Kelly Project ID: Routine Outfall 006

Report Number: IRA2349

Sampled: 01/24/08 Received: 01/24/08

METHOD BLANK/QC DATA

INORGANICS

Analyte <u>Batch: 8A31085 Extracted: 01/31/0</u> 2	Result	Reporting Limit	MDL	Units	Spike Level	Source Result		%REC Limits	RPD	RPD Limit	Data Qualifiers
LCS Analyzed: 01/31/2008 (8A31085-BS Hexane Extractable Material (Oil & Grease)	5 1) 19.8	5.0	1.4	mg/l	20.2		98	78-114			MNR1
LCS Dup Analyzed: 01/31/2008 (8A3108 Hexane Extractable Material (Oil & Grease)	8 5-BSD1) 19.4	5.0	1.4	mg/l	20.2		96	78-114	2	11	

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MWH-Pasadena/Boeing 618 Michillinda Avenue, Suite 200 Arcadia, CA 91007 Attention: Bronwyn Kelly Project ID: Routine Outfall 006

Report Number: IRA2349

Sampled: 01/24/08 Received: 01/24/08

METHOD BLANK/QC DATA

Metals by EPA 200 Series Methods

		Reporting			Spike	Source		%REC		RPD	Data
Analyte	Result	Limit	MDL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifiers
Batch: W8A1076 Extracted: 01/30/0)8										
Blank Analyzed: 01/31/2008 (W8A1076-	,										
Mercury, Dissolved	ND	0.20	0.050	ug/l							
Mercury, Total	ND	0.20	0.050	ug/l							
LCS Analyzed: 01/31/2008 (W8A1076-B	S1)										
Mercury, Dissolved	0.913	0.20	0.050	ug/l	1.00		91	85-115			
Mercury, Total	0.913	0.20	0.050	ug/l	1.00		91	85-115			
Matrix Spike Analyzed: 01/31/2008 (W8A1076-MS1)				Source: 8012935-01							
Mercury, Dissolved	0.971	0.20	0.050	ug/l	1.00	0.0450	93	70-130			
Mercury, Total	0.971	0.20	0.050	ug/l	1.00	0.0450	93	70-130			
Matrix Spike Analyzed: 01/31/2008 (W8A1076-MS2)				Sou	rce: 8012	939-01					
Mercury, Dissolved	2.01	0.20	0.050	ug/l	1.00	1.18	83	70-130			
Mercury, Total	2.01	0.20	0.050	ug/l	1.00	1.18	83	70-130			
Matrix Spike Dup Analyzed: 01/31/2008	Dup Analyzed: 01/31/2008 (W8A1076-MSD1)				Source: 8012935-01						
Mercury, Dissolved	0.957	0.20	0.050	ug/l	1.00	0.0450	91	70-130	1	20	
Mercury, Total	0.957	0.20	0.050	ug/l	1.00	0.0450	91	70-130	1	20	
Matrix Spike Dup Analyzed: 01/31/2008 (W8A1076-MSD2)					Sou	rce: 8012	939-01				
Mercury, Dissolved	1.99	0.20	0.050	ug/l	1.00	1.18	81	70-130	1	20	
Mercury, Total	1.99	0.20	0.050	ug/l	1.00	1.18	81	70-130	1	20	

TestAmerica Irvine



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: Routine Outfall 006

Report Number: IRA2349

Sampled: 01/24/08 Received: 01/24/08

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
IRA2349-01	1664-HEM	Hexane Extractable Material (Oil & Greas	mg/l	0.29	4.8	15
IRA2349-01	Antimony-200.8	Antimony	ug/l	0.45	2.0	6
IRA2349-01	Cadmium-200.8	Cadmium	ug/l	0.12	1.0	4
IRA2349-01	Chloride - 300.0	Chloride	mg/l	56	10	150
IRA2349-01	Copper-200.8	Copper	ug/l	1.92	2.0	14
IRA2349-01	Hg_w 245.1	Mercury, Total	ug/l	0.015	0.20	0.13
IRA2349-01	Lead-200.8	Lead	ug/l	1.14	1.0	5.2
IRA2349-01	Nitrogen, NO3+NO2 -N	Nitrate/Nitrite-N	mg/l	0.18	0.26	10
IRA2349-01	Sulfate-300.0	Sulfate	mg/l	13	0.50	250
IRA2349-01	TDS - SM 2540C	Total Dissolved Solids	mg/l	246	10	850
IRA2349-01	Thallium-200.8	Thallium	ug/l	0.036	1.0	2

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Report Number: IRA2349

Sampled: 01/24/08 Received: 01/24/08

DATA QUALIFIERS AND DEFINITIONS

- J 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.
- **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).
- MNR1 There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- **RPD** Relative Percent Difference



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MWH-Pasadena/Boeing 618 Michillinda Avenue, Suite 200 Arcadia, CA 91007 Attention: Bronwyn Kelly Project ID: Routine Outfall 006

Report Number: IRA2349

Sampled: 01/24/08 Received: 01/24/08

Certification Summary

TestAmerica Irvine

Method	Matrix	Nelac	California
EDD + Level 4	Water		
EPA 1664A	Water		
EPA 200.8-Diss	Water	Х	Х
EPA 200.8	Water	Х	Х
EPA 300.0	Water	Х	Х
SM2540C	Water	Х	

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

Aquatic Testing Laboratories-SUB California Cert #1775

4350 Transport Street, Unit 107 - Ventura, CA 93003

Analysis Performed: Bioassay-7 dy Chrnic Samples: IRA2349-01

Eberline Services - SUB

2030 Wright Avenue - Richmond, CA 94804

Analysis Performed: Gamma Spec Samples: IRA2349-01

Analysis Performed: Gross Alpha Samples: IRA2349-01

Analysis Performed: Gross Beta Samples: IRA2349-01

Analysis Performed: Radium, Combined Samples: IRA2349-01

Analysis Performed: Strontium 90 Samples: IRA2349-01

Analysis Performed: Tritium Samples: IRA2349-01

Analysis Performed: Uranium, Combined Samples: IRA2349-01

TestAmerica Irvine

Joseph Doak Project Manager

<u>TestAmerica</u>

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

MWH-Pasadena/Boeing	Project ID:	Routine Outfall 006		
618 Michillinda Avenue, Suite 200			Sampled:	01/24/08
Arcadia, CA 91007	Report Number:	IRA2349	Received:	01/24/08
Attention: Bronwyn Kelly				

Vista Analytical NELAC Cert #02102CA, California Cert #1640, Nevada Cert #CA-413 1104 Windfield Way - El Dorado Hills, CA 95762 Analysis Performed: 1613-Dioxin-HR-Alta

Samples: IRA2349-01

Weck Laboratories, Inc

14859 E. Clark Avenue - City of Industry, CA 91745 Method Performed: EPA 245.1 Samples: IRA2349-01

TestAmerica Irvine

Joseph Doak Project Manager

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LABORATORY REPORT



Date: February 1, 2008

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

"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

- Laboratory No.: A-08012503-001 Sample ID.: IRA2349-01 (Outfall 006)
- **Sample Control:** The sample was received by ATL within the recommended hold time, in a chilled state, and with the chain of custody record attached. Testing was conducted on only one sample per client instruction.

01/24/08
01/25/08
1°C
0.0 mg/l
01/25/08 to 02/01/08

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:

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

Quality Control:

Reviewed and approved by:

Joseph A. LeMay Laboratory Director

This report pertains only to the samples investigated and does not necessarily apply to other apparently identical or similar materials. This report is submitted for the exclusive use of the This report pertains only to the samples investigated and does not necessarily apply to outer apparently indicated or only in the samples investigated and does not necessarily apply to outer apparently indicated or only in the samples investigated and does not necessarily apply to outer apparently indicated or only in the samples investigated and does not necessarily apply to outer apparently indicated or only in the samples investigated and does not necessarily apply to outer apparently indicated or only in the samples investigated and does not necessarily apply to outer apparently indicated or only indinated or only indicated or only indicated or onl

CERIODAPHNIA CHRONIC BIOASSAY EPA METHOD 1002.0



Lab No.: A-08012503-001 Client/ID: Test America – Outfall 006

Date Tested: 01/25/08 to 02/01/08

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-080106. 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%	24.8
100% Sample	100%	29.5
Sample not statistically	significantly less than Co	ontrol for either endpoint.

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 (24.8 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 = 5.5%)
Statistically significantly different concentrations relative difference >13%	Pass (no concentration significantly different)
Concentration response relationship acceptable	Pass (no significant response at concentration tested)

			Cerioda	phnia Sur	vival and	l Reprodu	ction Tes	st-7 Day	Survival		
Start Date:	1/25/2008	14:00	Test ID:	8012503			Sample II	D:	Outfall 00	6	
End Date:	2/1/2008 1	3:00	Lab ID:	CAATL-Aq	uatic Tes	ting Labs	Sample T	ype:	EFF2-Ind	ustrial	
Sample Date:	1/24/2008	09:30	Protocol:	FWCH 4T	I-EPA-82	21-R-02-0	Test Spec	cies:	CD-Cerio	daphnia dub	pia
Comments:										-	
Conc-%	1	2	3	4	5	6	7	8	9	10	

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	

t de totes de com tendert desdeen se tra de tra		*****		Not			Fisher's	1-Tailed	Isote	onic
Conc-%	Mean	N-Mean	Resp	Resp	Total	Ν	Exact P	Critical	Mean	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		1992 - Linder Lander, and the second second and the second second second second second second second second sec
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Treatments	vs D-Control							
				Line	ar Interpol	lation (200	Resamples)	
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IC10	>100							
IC15	>100						1.0	
IC20	>100							
IC25	>100						0.9 -	
IC40	>100						0.8 -	
IC50	>100						0.7 -	
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Reviewed by:

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Dose %

			Ceriod	aphnia Su	rvival and	d Reprod	uction Tes	st-Repro	duction		
Start Date:	1/25/2008	14:00	Test ID:	8012503			Sample ID);	Outfall 000	3	
End Date:	2/1/2008 1	3:00	Lab ID:	CAATL-Ac	uatic Tes	ting Labs	Sample Ty	/pe:	EFF2-Indu	ustrial	
Sample Date:	1/24/2008	09:30	Protocol:	FWCH 4T	H-EPA-82	21-R-02-0	Test Spec	ies:	CD-Cerioo	laphnia dubia	
Comments:							-			·	
Conc-%	1	2	3	4	5	6	7	8	9	10	
D-Control	27.000	27.000	26.000	22.000	27.000	25.000	22.000	23.000	25.000	24.000	***********

31.000

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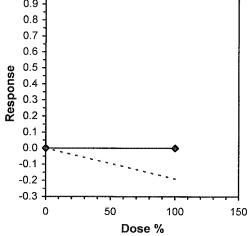
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			Transform: Untransformed						1-Tailed	Isotonic		
Conc-%	Mean	N-Mean	Mean	Min	Мах	CV%	Ν	t-Stat	Critical	MSD	Mean	N-Mean
D-Control	24.800	1.0000	24.800	22.000	27.000	8.020	10		- 662- Automatica		27.150	1.0000
100	29.500	1.1895	29.500	27.000	31.000	5.116	10	-5.953	1.734	1.369	27.150	1.0000

Auxiliary Tests	Statistic		Critical		Skew	Kurt
Shapiro-Wilk's Test indicates normal distribution (p > 0.05)	0.91591		0.905		-0.2946	-1.2537
F-Test indicates equal variances (p = 0.42)	1.73659		6.54109			
Hypothesis Test (1-tail, 0.05)	MSDu	MSDp	MSB	MSE	F-Prob	df
Homoscedastic t Test indicates no significant differences	1.36907	0.0552	110.45	3.11667	1.2E-05	1, 18
Treatments vs D-Control						

			Lir	near Interpolation	n (200 Resamples)	
Point	%	SD	95% CL	Skew		
IC05	>100				an a an	
IC10	>100					
IC15	>100				1.0	
IC20	>100				0.9	
IC25	>100				0.8 -	
IC40	>100					
IC50	>100				0.7 -	
					064	



100

27.000

31.000

31.000

30.000

CERIODAPHNIA DUBIA CHRONIC BIOASSAY EPA METHOD 1002.0 Raw Data Sheet



Start Date: 01/25/2008

Lab No.: A-08012503-001

Client ID: TestAmerica - IRA2349-01 (Outfall 006)

lient ID: 1	estAmen	[71		IT		1			
		DA	Y 1	DA	Y 2	ļ	DAY 3	DA	Y 4	D	AY 5	DA	Y 6		Y 7
		0 hr	24hr	0 hr	24hr	0 hr	24hr	0 hr	24lır	0 hr	24hr	0 hr	24hr	0 hr	24hr
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Time of Re	eadings:	1400	1500	1500	1300	136	1/150	1500	1500	1520	ISW	<u>15w</u>	1570	190	13cl
	DO	8.0	8.4	7.9	24	2.2	7-2	7.9	7.8	8.9	8.0	8.1	8.4	8.2	8.2
Control	pН	7.8	8.0	2.7	7.6	24	7.4	7-8	810	8.0	2.7	7.8	7.6	7.7	7.8
	Temp	25.3	24.3	25.4	24.6	251	24.6	24-2	246	24.7	25.0	24.6	24.4	25.1	242
	DO 11.1 8.8 10.4 7.8 10.			10.0	129	10.5	810	10.3	8:2	10.9	8.0	9.8	8.4		
100%	pН	2.1	8.0	7.0	0,6	21	7.7	7.2	7.8	2.1	7.7	7.1	7.7	7.3	7.7
					29;	724,6	24-6	24.7	24.4	25.0	24.8	246	24.6	24.1	
Additional Parameters								Con	itrol				100% Sam	ple	
	Conductivity (umohms) 290 365														
	Al	kalinity (n	nity (mg/l CaCO ₃) / / / / / / / / / / / / / / / / / / /												
	Hardness (mg/l CaCO ₃)							9	8				81		
	Ammonia (mg/l NH ₃ -N) $\langle 0, 2 \rangle = 0.4$														
	Source of Neonates														
Rep	licate:		A	В			D	E	F		G	Н			
Bro	od ID:		41	BI	<u> </u>	2	03	<u>E3</u>	H3	S A	14	<u>04</u>	FG	<u>, (</u>	35
Sample		Day			T	Numbe	er of Young Produced					otal Live	No. Live		nalyst
				A B	С	D	EF	G	н	I	J	Young	Adults		nitials
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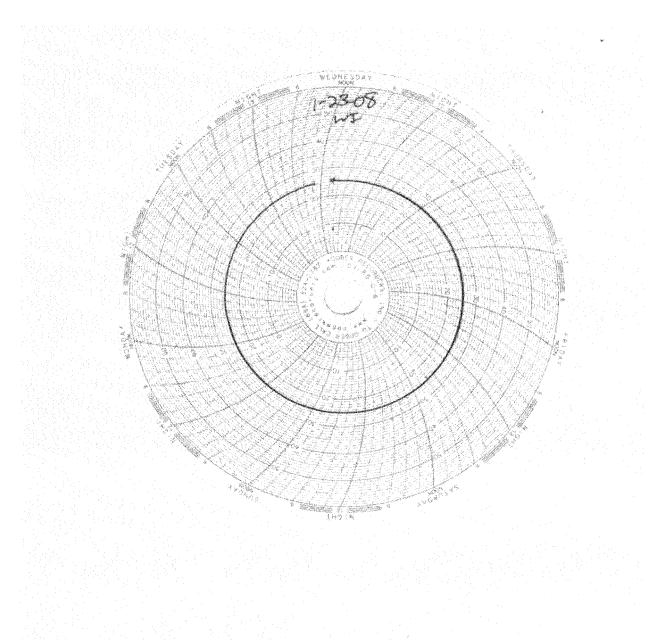
Circled fourth brood not used in statistical analysis.

7th day only used if <60% of the surviving control females have produced their third brood.



Laboratory Temperature Chart

QA/QC Batch No: A-08012503 Date Tested: 01/25/08 to 02/01/08 Acceptable Range: 25+/- 1°C



SUBCONTRACT ORDER

TestAmerica Irvine

IRA2349

SENDING LABORATORY:	RECEIVING LABORATORY:
TestAmerica Irvine	Aquatic Testing Laboratories-SUB
17461 Derian Avenue. Suite 100	4350 Transport Street, Unit 107
Irvine, CA 92614	Ventura, CA 93003
Phone: (949) 261-1022	Phone :(805) 650-0546
Fax: (949) 260-3297	Fax: (805) 650-0756
Project Manager: Joseph Doak	Project Location: California
	Receipt Temperature: $\int \partial O$ °C Ice: $(Y) / N$

Analysis	Units	Due	Expires	Comments
Sample ID: IRA2349-01	Water		Sampled: 01/24/08 09:30	ph=7.4. temp=47.8
Bioassay-7 dy Chrnic	N/A	02/04/08	01/25/08 21:30	Cerio, EPA/821-R02-013, Sub to AqTox Labs
Containers Supplied:				
1 gal Poly (M)				

7<u>E</u> 1/25/68 08 05 Date/Time 1/25/08 0805 Date/Time 1/25/08 1130 Received By Released By <u>/-25-08</u> Date/Time 1130 72 Date/Time Released By Received By Page 1 of 1 NPDES - 1486



REFERENCE TOXICANT DATA

CERIODAPHNIA CHRONIC BIOASSAY EPA METHOD 1002.0 REFERENCE TOXICANT - NaCl



QA/QC Batch No.: RT-080106

Date Tested: 01/06/08 to 01/12/08

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: 6 days. Statistics: ToxCalc computer program.

Sample Concentration	Percent Surv	rival	Mean Number of Young Per Female		
Control	100%		20.5		
0.25 g/l	100%		19.5		
0.5 g/l	100%		19.5		
1.0 g/l	100%		14.0	*	
2.0 g/l	80%		3.2	*	
4.0 g/l	0%	*	0	**	
* Statistically signif ** Reproduction data from exclue		reater th	an survival NO		

RESULTS SUMMARY

CHRONIC TOXICITY

Survival LC50	2.5 g/l
Reproduction IC25	0.88 g/l

QA/QC TEST ACCEPTABILITY

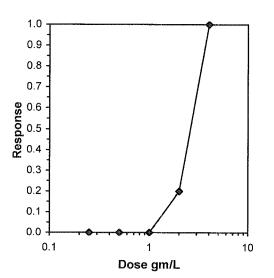
Parameter	Result
Control survival ≥80%	Pass (100% Survival)
≥15 young per surviving control female	Pass (20.5 young)
$\geq 60\%$ surviving controls had 3 broods	Pass (90% with 3 broods)
PMSD <47% for reproduction	Pass (PMSD = 19.1%)
Stat. sig. diff. conc. relative difference > 13%	Pass (Stat. sig. diff. conc. $= 31.7\%$)
Concentration response relationship acceptable	Pass (Response curve normal)

••••••••••••••••••••••••••••••••••••••			Ceriod	aphnia Su	rvival and	Reprod	uction Tes	t-Surviv	al Day 6		
Start Date:	1/6/2008 1	3:00	D Test ID: RT-080106c Sample ID: REF-Ref Toxicant								
End Date:	1/12/2008	13:00	Lab ID:	CAATL-Ad	uatic Tes	ting Labs	Sample Ty	/pe:	NACL-Soc	dium chloride	
Sample Date: Comments:	1/6/2008		Protocol:	FWCH-EF	WCH-EPA-821-R-02-013 Test Species: CD-Ceriodaphnia dubia						
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	0.0000	0.0000	
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	

				Not			Fisher's	1-Tailed	Number	Total
Conc-gm/L	Mean	N-Mean	Resp	Resp	Total	N	Exact P	Critical	Resp	Number
D-Control	1.0000	1.0000	0	10	10	10		7999/1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	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	0.8000	0.8000	2	8	10	10	0.2368	0.0500	2	10
4	0.0000	0.0000	10	0	10	10			10	10

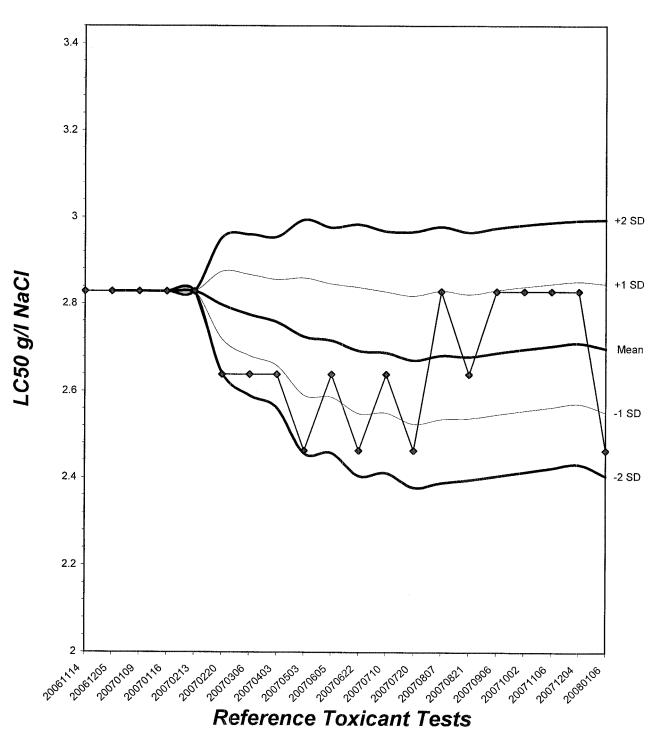
Hypothesis Test (1-tail, 0.05)	NOEC	LOEC	ChV	TU	ՠՠՠՠՠ֎ֈֈ֎ֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈ
Fisher's Exact Test	2	4	2.82843		
Treatments vs D-Control					
			Trimmed	Spearman-Karber	

_	Trim Level	EC50	95%	CL	
	0.0%	2.4623	2.0663	2.9342	in Helena
	5.0%	2.5108	2.0545	3.0683	
	10.0%	2.5519	1.9976	3.2599	
	20.0%	2.5937	2.2616	2.9745	
_	Auto-0.0%	2.4623	2.0663	2.9342	



Ceriodaphnia dubia Chronic Survival Laboratory Control Chart

CV% = 5.46

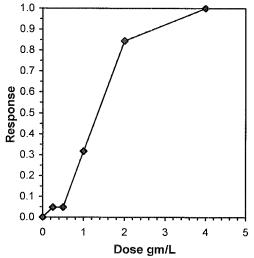


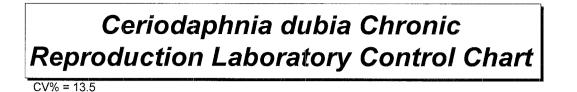
			Ceriod	aphnia Su	rvival and	Reprod	uction Tes	st-Repro	duction	Wiikkadaddadaa Adamaa aa aa aa aa aa
Start Date:	1/6/2008 1	3:00	Test ID: RT-080106c Sample				Sample ID) <u>:</u>	REF-Ref	loxicant
End Date:	1/12/2008	13:00	Lab ID:	CAATL-Ad	quatic Tes	ting Labs	Sample Ty	/pe:	NACL-Soc	dium chloride
Sample Date: Comments:	1/6/2008		Protocol:	FWCH-EF	PA-821-R-	02-013	Test Spec	ies:	CD-Cerioo	daphnia dubia
Conc-gm/L	1	2	3	4	5	6	7	8	9	10
D-Control	23.000	11.000	21.000	21.000	23.000	20.000	19.000	22.000	20.000	25.000
0.25	12.000	24.000	19.000	22.000	9.000	20.000	21.000	21.000	22.000	25.000
0.5	21.000	19.000	21.000	22.000	16.000	12.000	22.000	21.000	22.000	19.000
1	19.000	9.000	9.000	19.000	14.000	10.000	16.000	17.000	19.000	8.000
2	8.000	2.000	2.000	5.000	4.000	3.000	3.000	5.000	0.000	0.000
4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

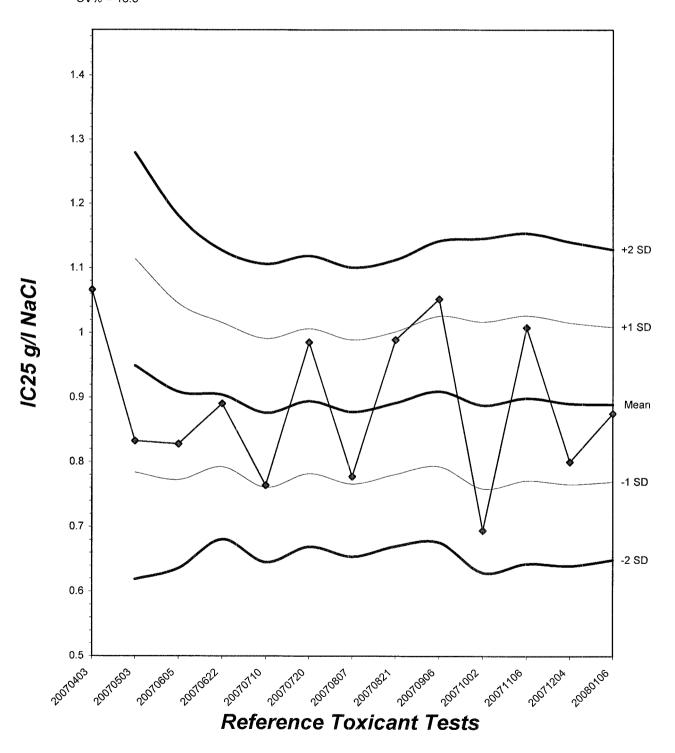
		-		Transform	n: Untran	sformed		Rank	1-Tailed	Isote	onic
Conc-gm/L	Mean	N-Mean	Mean	Min	Max	CV%	N	Sum	Critical	Mean	N-Mean
D-Control	20.500	1.0000	20.500	11.000	25.000	18.432	10		**************************************	20.500	1.0000
0.25	19.500	0.9512	19.500	9.000	25.000	26.177	10	102.00	76.00	19.500	0.9512
0.5	19.500	0.9512	19.500	12.000	22.000	16.617	10	94.50	76.00	19.500	0.9512
*1	14.000	0.6829	14.000	8.000	19.000	32.819	10	62.50	76.00	14.000	0.6829
*2	3.200	0.1561	3.200	0.000	8.000	76.263	10	55.00	76.00	3.200	0.1561
4	0.000	0.0000	0.000	0.000	0.000	0.000	10			0.000	0.0000

Auxiliary Tests			94 Mileton		Statistic	Critical	Skew	Kurt
Shapiro-Wilk's Test indicates nor	n-normal dis	stribution	(p <= 0.05)		0.91281	0.947	-0.9793	0.67912
Bartlett's Test indicates equal val			. ,		5.39	13.2767		
Hypothesis Test (1-tail, 0.05)	NOEC	LOEC	ChV	TU				
Steel's Many-One Rank Test	0.5	1	0.70711	6414				
Treatments vs D-Control								

				Linea	ar Interpolatior	ו (200 Resamples)	
Point	gm/L	SD	95%	CL	Skew		
IC05	0.5023	0.1876	0.0809	0.6178	-0.0659		аналанан алан алан алан алан алан алан
IC10	0.5955	0.1768	0.1617	0.7497	-0.5184		
IC15	0.6886	0.1424	0.2426	0.9253	-0.5389	1.0	
IC20	0.7818	0.1259	0.4995	1.0352	0.2728		
IC25	0.8750	0.1224	0.6413	1.1094	0.3153	0.9 -	
IC40	1.1574	0.1139	0.9216	1.3331	-0.0890	0.8 -	y
IC50	1.3472	0.0972	1.1197	1.4847	-0.4227	0.7	







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

QA/QC No.: RT-080106

Start Date: 01/06/2008

<u> </u>	Sampla Day				mbe	r of Y	oung	Prod	uced			Total	No.	Analyst
Sample	Day	Α	В	С	D	E	F	G	н	Ι	J	Live Young	Live Adults	Initials
	1	\mathcal{O}	Ø	\mathcal{O}	\bigcirc	\bigcirc	0	\bigcirc	\mathcal{O}	\mathcal{O}	C	Ü	10	h
	2	0	\mathcal{O}	0	\mathcal{O}	\mathcal{O}	C	\mathcal{O}	\mathcal{C}	0	C	C	10	2
	3	0	0	2	\mathcal{O}	0	C	3	c	3	\mathcal{O}	8	10	2
Control	4	Ц	3	0	4	3	Z	ð	2	\mathcal{O}	3	21	10	h
Control	5	9	8	2	7	6	7	6	2	6	7	70	10	M
	6	10	0	12	10	14	15	10	13	11	15	106	10	
	7	_		~~~~	, ,		_							
	Total	23	11	21	ઝ	23	20	19	22	20	25	205	10	h
	1	0	0	0	\mathcal{O}	\mathcal{O}	\mathcal{O}	C	\mathcal{O}	\sim	\mathcal{C}	\mathcal{O}	10	
	2	0	\mathcal{O}	\mathcal{O}	\mathcal{O}	\mathcal{O}	\mathcal{O}	\mathcal{O}	\mathcal{O}	0	0	0	10	
	3	o	3	0	3	\mathcal{O}	2	$\cdot C$	\sim	3	\mathcal{O}	(IV	h
0.25 g/l	4	4	\mathcal{O}	2	\mathcal{O}	3	6	4	2	\mathcal{O}	3	24	10	6
0.25 g/l	5	8	8	7	5	6	\mathcal{O}	7	6	7	8	62	10	6
	6	0	B	10	14	0	12	10	13	12	14	98	10	6
	7	-					(- Jones						
	Total	12	24	19	22	9	20	21	21	.22	25	195	10	
	1	0	\mathcal{O}	0	0	\mathcal{O}	\mathcal{O}	\mathcal{O}	\mathcal{O}	\mathcal{O}	\mathcal{O}	\mathcal{O}	10	h
	2	Ó	\mathcal{O}	\mathcal{O}	\diamond	$^{\prime}\mathcal{O}$	\mathcal{O}	\bigcirc	\mathcal{O}	Ô	\mathcal{O}	\mathcal{O}	10	h
	3	2	\mathcal{O}	2	O	0	\sim	3	2	-0	\mathcal{O}	9	10	ĥ
0.5 ~/1	4	0	3	O	3	Ų	3	\mathcal{C}	0	3	3	19	10	In
0.5 g/l	5	9	6	7	7	0	9	б	7	7	6	66	10	5
	6	10	10	12	N.	12	0	١١	ĨZ	12	10	101	10	6
	7	·	~	and the second sec			متصمير			·		California and a second	_	5
	Total	21	19	21	22	16	12	22	21	22	19	195	10	P
Circled fourth brood not used in statistical analysis. 7^{th} day only used if <60% of the surviving control females have produced their third brood.								rood.						



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

Aquatic Testing C

QA/QC No.: RT-080106

Start Date: 01/06/2008

C I	D			Nı	ımbe	r of Y	oung	Produ	ced			Total	No.	Analyst
Sample	Day	A	В	С	D	E	F	G	н	Ι	J	Live Young	Live Adults	Initials
	1	O	0	0	0	0	0	\mathcal{O}	0	\mathcal{O}	0	\mathcal{O}	10	h
	2	0	0	0	0	0	0	\mathcal{O}	Ò	\circ	\mathcal{C}	0	10	6
	3	Ø	U	\mathcal{O}	0	0	3	0	Ó	2	\mathcal{O}	5	10	h
1.0 /1	4	3	2	2	.2	0	0	3	2	0	2	17	10	h
1.0 g/l	5	5	Ş	>	4	5	2	2	Ч	7	6	57	10	K
	6	1(\mathcal{O}	0	12	9	Ũ	8	11	10	0	61	10	P
	7	((·	~		-	-			-			(
	Total	19	9	9	19	14	10	16	17	19	8	140	10	\square
	1	0	Ò	∂	0	\mathcal{O}	\mathcal{O}	0	C	X	Õ	\bigcirc	9	h
	2	0	\mathcal{O}	\mathcal{O}	\mathcal{O}	\mathcal{O}	\mathcal{O}	0	0	- interace	0	0	9	6
	3	Ø	\mathcal{O}	C/	0	0	0	\mathcal{O}	C	/	\mathcal{O}	0	9	4
2.0 - /l	4	2	\circ	R	3	\mathcal{O}	\circ	0	2	, en	0	9	9	- Ch
2.0 g/l	5	3	O	\mathcal{O}	2	2	R	3	\mathcal{O}	*******	\mathcal{O}	13	9.	1
	6	3	N	· 0	O	2	C	Ò	3	~	×	10	8	P
	7			****	*****	Cammun	Waggebran.		~	-مسيبين	69	Carried Contraction	******	
	Total	$\widehat{\mathcal{S}}$	2	2	5	4	3	3	5	Ø	0	32	8	\sim
	1	X	X	X	X	X	Х	\times	${\boldsymbol{\lambda}}$	\succ	$\left \times \right $	\mathcal{O}	O	A
	2										-		-	~
	3	_			. ()		Ļ	-	-filinger	(Continuerou)	\sim
4.0 //	4		gatiting.)		(a got dive on	Gantana	1	-			
4.0 g/l	5	-	~				_)	-	internation.	-	e	france,	
-	6	-				_	(-		(and a state of the
	7	_	798008.com.							ę	·	~	Querra and a second	
	Total	\bigcirc	C	\mathcal{C}	\bigcirc	\mathcal{O}	С	\mathcal{O}	0	0	o	\mathcal{O}	0	6
Circled fourth 7 th day only us	Circled fourth brood not used in statistical analysis. 7^{th} day only used if <60% of the surviving control females have produced their third brood.													

CERIODAPHNIA DUBIA CHRONIC BIOASSAY Reference Toxicant - NaCl Water Chemistries Raw Data Sheet

QA/QC No.: RT-080106

Start Date: 01/06/2008

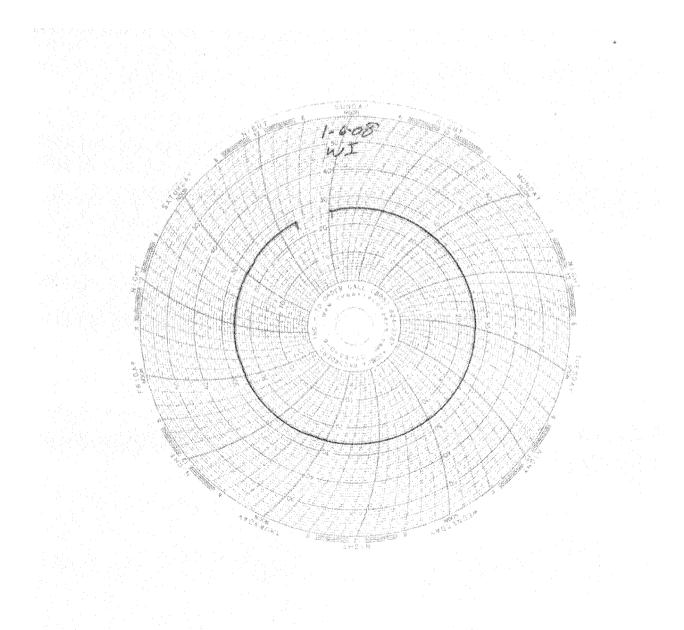
		DA	.Y 1	DA	Y 2	DA	Y 3	DA	Y 4	DA	Y 5	DA	Y 6	DA	Y 7
		Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final
Analyst I	nitials:	n	h	M	4-	K	h	Λ	2	C	h	~	- A		يالعوديو
Time of R	eadings:	130	1330	1330	13W	Ba	1730	1270	1300	BW	1300	Ba	pa	-	
	DO	7.6	7,2	2.4	7.7	7.4	7.6	7.4	7.5	8,2	7.8	7.9	7.7	(
Control	pН	7.6	7.4	7.4	23	7.3	7.2	7.2	7.7	7.5	2-6	7-9	7.6		
	Temp	243	25.1	25.4	24.8	24.1	2-4.9	249	25.1	24.4	25.V	24:6	25-1		
	DO	7.5	7-3	7.5	7.5	7.5	7.7	7-3	24	8,2	3.8	29	7.7		
0.25 g/l	pН	75	7.3	2.4	7.4	7.5	7-2	2.3	7.4	26	7-5	7.6	77		(
	Temp	244	252	253	249	242	24.5	24.7	250	24.4	25-1	24.6	25-1		
	DO	24	7.2	7.4	7.6	7.01	7.4	7.4	7.6	8.5	7.6	8.0	78		~
0.5 g/l	pН	2.5	7.3	74	, 7.4	7-4	7.2	7.3	7.5	7.6	3-5	7.7	7-7	·	
	Temp	24.3	251	25.3	249	24,1	25.2	246	24.9	24.4	24.9	24.4	249		/
	DO	7.5	22	26).)	7.3	7.8	24	7.4	8,d	7.8	7.7	7-7		(
1.0 g/l	pН	7.5	7.3	7.6	7.5	7.4	7.2	7-3	7-5	7,0	7-6	7.4	7-6	<u> </u>	(
	Temp	244	25.2	25-(24.7	24.2		24.6	25.0	24.4	249	24.6	250		/
	DO	7.4	7.4	7.6	7.5	7.4	28	22	7.6	8.2	2-6	26	7.7		<u> </u>
2.0 g/l	pН	7.5	2.4	7-6	7.6	7.4	23	22	7.6	75	7-6	29	7-6		/
	Temp	245	251	24.0	246	24.2	253	24.8	25.2	24-4	24.4	24.6	25.1		
	DO	7.5	7.8	Langestin-	sim _{u.}	Voternon-		A. 100000000.	Colonier -		12000			francessor.	-
4.0 g/l	рН	2.4	7.8	Winter	-bastoine -	~	-			300000/mga,			-	~	<u> </u>
<u> </u>	Temp	24.3	24.6	1984 (Januarian			3660		\square				grammer.		,
	Di	ssolved	Oxyge	n (DO)	reading	s are in	1 mg/l (D₂; Tem	perature	(Temp)	reading	gs are ir	n °C.		
	Additional	Paramet	ers	=		<u> </u>	Contr					High Co	ncentrat	ion	
							Day 3		Day 5		Day 1]	Day 3		ay 5
	Conductivity (µS)				350		342	8	305	6	400		100		10
	Alkalinity (mg/l CaCO ₃) Hardness (mg/l CaCO ₃)				<u>66</u> 95	apex-	65		63 98	6	······		-6	64	~
		ing/1 CaCC	J ₃)	<u>_</u>			<u> </u>	leonates	<u>40</u>	6	Ď	9	<u>) </u>	92	0
Rep	Replicate: A B					Source of Net		E F		G		Н	1	<u> </u>	J
	Brood ID: 2B 11				30	2	-C	2A	30	35		26/	36		+61





Laboratory Temperature Chart

QA/QC Batch No: RT-080106 Date Tested: 01/06/08 to 01/12/08 Acceptable Range: 25+/- 1°C





February 22, 2008

Mr. Joseph Doak Test America, Inc. 17461 Derian Avenue, Suite 100 Irvine, CA 92614

 Reference:
 Eberline Services NELAP Cert #01120CA

 Test America Project Nos.
 IRA1233, IRA2025, IRA2352, IRA2350,

 IRA2349, IRA2156
 Eberline Services Reports

 R801067-8681, R801142-8682, R801161-8683

 R801162-8684, R801163-8685, R801164-8686

Dear Mr. Doak:

Enclosed are results from the analyses of six water samples. One sample was received on January 16, one on January 24, three on January 26, and one on January 28, 2008. The samples were analyzed according to the accompanying Test America Subcontract Order Forms, the requested analyses were: gross alpha/gross beta (EPA 900.0), tritium (H-3, EPA906.0), Sr-90 (EPA905.0), Ra-226 (EPA903.1), Ra-228 (EPA 904.0), total uranium (ASTM D-5174), and gamma spectroscopy (EPA901.1, K-40 and Cs-137 only). Batch quality control samples consisted of LCS's, blank analyses, duplicate analyses, and matrix spike analyses (gross alpha/gross beta, H-3, Ra-226, Total-U only). All QC sample results were within the limits defined in Eberline Services Quality Control Procedures Manual.

Please call me if you have any questions concerning this report.

Regards,

Melen Marmon

Melissa Mannion Senior Program Manager

MCM/njv

Enclosure: Reports/CoC's Invoices

> Analytical Services 2030 Wright Avenue P.O. Box 4040 Richmond, California 94804-0040 (510) 235-2633 Fax (510) 235-0438 Toll Free (800) 841-5487 www.eherlingservices.com

Eberline Services

ANALYSIS RESULTS

	SDG	8685	Client	TA IRVINE
	Work Order	<u>R801163-01</u>	Contract	PROJECT# IRA2349
	Received Date	01/26/08	Matrix	WATER
1				

Client <u>Sample ID</u>	Lab Sample ID	Collected Analyzed	Nuclide	<u>Results ± 20</u>	Units	MDA
IRA2349-01	8685-001	01/24/08 02/06/08	GrossAlpha	1.67 ± 1.0	pCi/L	1.3
		02/06/08	Gross Beta	6.62 ± 1.3	pCi/L	1.8
		02/04/08	Ra-228	0.176 ± 0.15	pCi/L	0.42
		01/31/08	K-40 (G)	U	pCi/L	34
		01/31/08	Cs-137 (G)	U	pCi/L	1.4
		02/15/08	H-3	-32.5 ± 93	pCi/L	160
		02/11/08	Ra-226	-0.103 ± 0.44	pCi/L	0.87
		02/07/08	Sr-90	-0.081 ± 0.28	pCi/L	0.58
		02/19/08	Total U	0.859 <u>+</u> 0.094	pCi/L	0.022

Certified h	x xX
Report Date	02/22/08
Page 1	

QC RESULTS

	SDG <u>8685</u> Order <u>R80116</u> d Date <u>01/26</u>		Client <u>TA IRVINE</u> Contract <u>PR0JECT# IRA2349</u> Matrix <u>WATER</u>						
Lab ample ID	Nuclide	<u>Results</u>	Units	Amount Added	MDA	<u>Evaluation</u>			
LCS									
3682-002	GrossAlpha	10.6 ± 0.84	pCi/Smpl	10.1	0.29	105% recovery			
	Gross Beta	9.49 ± 0.38	pCi/Smpl	9.39	0.29	101% recovery			
	Ra-228	8.69 ± 0.54	pCi/Smpl	8.73	0.75	100% recovery			
	Co-60 (G)	223 ± 11	pCi/Smpl	226	7.0	99% recovery			
	Cs-137 (G)	253 ± 11	pCi/Smpl	236	8.1	107% recovery			
	Am-241 (G)	215 ± 37	pCi/Smpl	252	47	85% recovery			
	H-3	228 ± 14	pCi/Smpl	240	16	95% recovery			
	Ra-226	5.92 ± 0.27	pCi/Smpl	5.58	0.085	106% recovery			
	Sr-90	9.45 ± 0.73	pCi/Smpl	9.40	0.32	101% recovery			
	Total U	1.06 ± 0.12	pCi/Smpl	1.13	0.004	94% recovery			
3LANK									
3682-003	GrossAlpha	0.006 ± 0.13	pCi/Smpl	NA	0.25	<mda< td=""></mda<>			
	Gross Beta	-0.090 ± 0.27	pCi/Smpl	NA	0.44	<mda< td=""></mda<>			
	Ra-228	-0.089 ± 0.33	pCi/Smpl	NA	0.78	<mda< td=""></mda<>			
	K-40 (G)	U	pCi/Smpl	NA	190	<mda< td=""></mda<>			
	Cs-137 (G)	U	pCi/Smpl	NA	7.4	<mda< td=""></mda<>			
	H-3	-4.88 ± 9.0	pCi/Smpl	NA	15	<mda< td=""></mda<>			
	Ra-226	-0.014 ± 0.026	pCi/Smpl	NA	0.071	<mda< td=""></mda<>			
	Sr-90	0.078 ± 0.24	pCi/Smpl	NA	0.54	<mda< td=""></mda<>			
	Total U	0.00E 00 ± 1.9E-04	pCi/Smpl	NA	4.4E-04	<mda< td=""></mda<>			

	DUPLICATES				ORIGINALS				
								3σ	
Sample ID	Nuclide	<u>Results ± 20</u>	MDA	Sample ID	<u>Results ± 20</u>	MDA	RPD	(Tot)	Eval
8682-004	GrossAlpha	3.13 ± 2.1	2.2	8682-001	2.52 ± 2.0	2.4	22	160	satis.
	Gross Beta	42.1 ± 2.3	2.1		42.3 ± 2.4	2.4	0	44	satis.
	Ra-228	0.070 ± 0.15	0.42		0.145 ± 0.17	0.44	-	0	satis.

Certified by nW
Report Date 02/22/08
Page 2

Eberline Services

SDG Work Order	<u>8685</u> R8011	.63-01		Client Contract			49		
Received Date				Matrix	WATER				
K - 40	(G)	42.6 ± 18	9.6	36.0 ±	19	13	17	102	satis.
Cs-137	(G)	U	0.92	U		1.1	-	0	satis.
T1-208	(G)	U	1.2	U			200	302	satis.
Pb-210	(G)	U	230	U			200	302	satis.
Bi-212	(G)	U	7.7	U			200	302	satis.
Pb-212	(G)	U	1.6	U			200	302	satis.
Bi-214	(G)	U	2.1	U			200	301	satis.
Pb-214	(G)	U	2.2	U			200	302	satis.
Ra-226	(G)	U	18	U			200	302	satis.
Ac-228	(G)	U	5.0	U			200	302	satis.
Th-234	(G)	U	31	Ŭ			200	302	satis.
U-235	(G)	U	6.5	U			200	302	satis.
U-238	(G)	U	130	U			200	302	satis.
Am-241	(G)	U	6.7	U			200	302	satis.
H-3		-73.7 ± 92	160	-62.4 ±	94	160	-	0	satis.
Ra-226		0.111 ± 0.44	0.80	-0.149 ±	0.46	0.96	-	0	satis.
Sr-90		-0.108 ± 0.44	1.1	0.032 ±	0.30	0.58	-	0	satis.
Total (J	2.88 ± 0.32	0.022	2.75 ±	0.30	0.022	5	30	satis.

	SPIKED SAMPLE		-		OR:	IGINAL SAMPLE			
Sample ID	Nuclide	Results	<u>± 20</u>	MDA	Sample ID	<u>Results ± 20</u>	MDA	Added	<u>%Recv</u>
8682-005	GrossAlpha	225 ±	12	2.5	8682-001	2.52 ± 2.0	2.4	163	136
	Gross Beta	192 ±	4.5	2.4		42.3 ± 2.4	2.4	145	103
	Н-З	15800 ±	310	160		-62.4 ± 94	160	16000	99
	Ra-226	124 ±	4.7	0.94		-0.149 ± 0.46	0.96	112	111
	Total U	120 ±	15	2.2		2.75 ± 0.30	0.022	113	104

Certified by 20
Report Date 02/22/08
Page 3

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SUBCONTRACT ORDER

TestAmerica Irvine

IRA2349

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:

Eberline Services - SUB 2030 Wright Avenue Richmond, CA 94804 Phone :(510) 235-2633 Fax: (510) 235-0438 Project Location: California Receipt Temperature: °C

Y Ice:)/ N

8685

Analysis	Units	Due	Expires	Comments
Sample ID: IRA2349-01	Water		Sampled: 01/24/08 09:30	ph=7.4. temp=47.8
Gamma Spec-O	mg/kg	02/04/08	01/23/09 09:30	Out to Eberline, K-40 and CS-137 only
Gross Alpha-O	pCi/L	02/04/08	07/22/08 09:30	Out to Eberline
Gross Beta-O	pCi/L	02/04/08	07/22/08 09:30	Out to Eberline
Level 4 + EDD-OUT	N/A	02/04/08	02/21/08 09:30	
Radium, Combined-O	pCi/L	02/04/08	01/23/09 09:30	Out to Eberline
Strontium 90-0	pCi/L	02/04/08	01/23/09 09:30	Out to Eberline
Tritium-O	pCi/L	02/04/08	01/23/09 09:30	Out to Eberline
Uranium, Combined-O	pCi/L	02/04/08	01/23/09 09:30	Out to Eberline
Containers Supplied:				
2.5 gal Poly (K)	500 mL Amt	ber (L)		

Released By

08 17:00

Date/Time

-04 Received By 0126 08

1/25/08 200 Date/Time 7070

Date/Time

Received By

Page 1 of 1

NPDES - 1501

11

Released By

Date/Time



February 09, 2008

Vista Project I.D.: 30201

Mr. Joseph Doak Test America-Irvine, CA 17461 Derian Avenue Suite 100 Irvine, CA 92614

Dear Mr. Doak,

Enclosed are the results for the one aqueous sample received at Vista Analytical Laboratory on January 26, 2008 under your Project Name "IRA2349". This sample was extracted and analyzed using EPA Method 1613 for tetra-through-octa chlorinated dioxins and furans. A standard turnaround time was provided for this work.

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

Vista Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at mmaier@vista-analytical.com. Thank you for choosing Vista as part of your analytical support team.

Sincerely,

Marchio Marier

Martha M. Maier Laboratory Director



Vista Analytical Laboratory certifies that the report herein meets all the requirements set forth by NELAC for those applicable test methods. Results relate only to the samples as received by the laboratory. This report should not be reproduced except in full without the written approval of Vista Analytical Laboratory.



Project 30201

Section I: Sample Inventory Report Date Received: 1/26/2008

<u>Vista Lab. ID</u>

Client Sample ID

30201-001

IRA2349-01

SECTION II

Method Blank				I				EPA Method 1613
Matrix: Aqu	eous	QC Batch No.: 99	17	Lab	Sample:	D-MB 001		
Sample Size: 1.	00 L	Date Extracted: 31	-Jan-08	Date	Analyzed DB-5:	6-Feb-08	Date An	alyzed DB-225: NA
Analyte	Conc. (ug/L)	DL ^a EMPC ^b	Qualifiers		Labeled Standard		%R	LCL-UCL ^d Qualifiers
2,3,7,8-TCDD	ND	0.000000997		IS	13C-2,3,7,8-TCDD	1	93.4	25 - 164
1,2,3,7,8-PeCDD	ND	0.000000625			13C-1,2,3,7,8-PeC	DD	84.1	25 - 181
1,2,3,4,7,8-HxCDD	ND	0.00000147			13С-1,2,3,4,7,8-Нх	CDD	92.1	32 - 141
1,2,3,6,7,8-HxCDD	ND	0.00000149			13С-1,2,3,6,7,8-Нх	CDD	91.6	28 - 130
1,2,3,7,8,9-HxCDD	ND	0.00000142			13C-1,2,3,4,6,7,8-I	IpCDD	94.6	23 - 140
1,2,3,4,6,7,8-HpCDI) ND	0.00000144			13C-OCDD		78.5	17 - 157
OCDD	ND	0.00000845			13C-2,3,7,8-TCDF		92.5	24 - 169
2,3,7,8-TCDF	ND	0.00000679			13C-1,2,3,7,8-PeC	DF	79.3	24 - 185
1,2,3,7,8-PeCDF	ND	0.00000815			13C-2,3,4,7,8-PeC	DF	77.4	21 - 178
2,3,4,7,8-PeCDF	ND	0.00000838			13С-1,2,3,4,7,8-Нх	CDF	93.1	26 - 152
1,2,3,4,7,8-HxCDF	ND	0.00000635			13С-1,2,3,6,7,8-Нх	CDF	88.7	26 - 123
1,2,3,6,7,8-HxCDF	ND	0.00000689			13C-2,3,4,6,7,8-Hx	CDF	87.8	28 - 136
2,3,4,6,7,8-HxCDF	ND	0.000000752			13С-1,2,3,7,8,9-Нх	CDF	97.5	29 - 147
1,2,3,7,8,9-HxCDF	ND	0.000000910			13C-1,2,3,4,6,7,8-I	IpCDF	85.2	28 - 143
1,2,3,4,6,7,8-HpCDF	7 ND	0.00000116			13C-1,2,3,4,7,8,9-I	IpCDF	90.7	26 - 138
1,2,3,4,7,8,9-HpCDF		0.00000122			13C-OCDF		87.0	17 - 157
OCDF	ND	0.00000291		CRS	37Cl-2,3,7,8-TCDI)	94.5	35 - 197
Totals				Foot	notes			
Total TCDD	ND	0.000000997		a. San	nple specific estimated det	ection limit.		
Total PeCDD	ND	0.00000191		b. Esti	imated maximum possible	concentration.		
Total HxCDD	ND	0.00000146		c. Met	thod detection limit.			
Total HpCDD	ND	0.00000353		d. Lov	wer control limit - upper co	ntrol limit.		
Total TCDF	ND	0.00000679						
Total PeCDF	ND	0.000000826						
Total HxCDF	ND	0.000000742						
Total HpCDF	ND	0.00000118						

Analyst: MAS

OPR Results					EP	A Method 1	1613
Matrix: Aqueous Sample Size: 1.00 L		QC Batch No.: Date Extracted:	9917 31-Jan-08	Lab Sample:0-OPR001Date Analyzed DB-5:6-Feb-08	Date Analy	zed DB-225:	NA
Analyte	Spike Conc.	Conc. (ng/mL)	OPR Limits	Labeled Standard	%R	LCL-UCL	Qualifier
2,3,7,8-TCDD	10.0	10.4	6.7 - 15.8	<u>IS</u> 13C-2,3,7,8-TCDD	91.2	25 - 164	
1,2,3,7,8-PeCDD	50.0	48.9	35 - 71	13C-1,2,3,7,8-PeCDD	83.6	25 - 181	
1,2,3,4,7,8-HxCDD	50.0	49.4	35 - 82	13C-1,2,3,4,7,8-HxCDD	89.8	32 - 141	
1,2,3,6,7,8-HxCDD	50.0	50.2	38 - 67	13C-1,2,3,6,7,8-HxCDD	86.1	28 - 130	
1,2,3,7,8,9-HxCDD	50.0	49.0	32 - 81	13C-1,2,3,4,6,7,8-HpCDD	88.4	23 - 140	
1,2,3,4,6,7,8-HpCDD	50.0	49.9	35 - 70	13C-OCDD	75.3	17 - 157	
OCDD	100	102	78 - 144	13C-2,3,7,8-TCDF	88.0	24 - 169	
2,3,7,8-TCDF	10.0	9.69	7.5 - 15.8	13C-1,2,3,7,8-PeCDF	76.4	24 - 185	
1,2,3,7,8-PeCDF	50.0	50.2	40 - 67	13C-2,3,4,7,8-PeCDF	74.3	21 - 178	
2,3,4,7,8-PeCDF	50.0	52.2	34 - 80	13C-1,2,3,4,7,8-HxCDF	87.1	26 - 152	
1,2,3,4,7,8-HxCDF	50.0	49.9	36 - 67	13C-1,2,3,6,7,8-HxCDF	83.7	26 - 123	
1,2,3,6,7,8-HxCDF	50.0	50.4	42 - 65	13C-2,3,4,6,7,8-HxCDF	84.8	28 - 136	
2,3,4,6,7,8-HxCDF	50.0	50.8	35 - 78	13C-1,2,3,7,8,9-HxCDF	87.0	29 - 147	
1,2,3,7,8,9-HxCDF	50.0	50.0	39 - 65	13C-1,2,3,4,6,7,8-HpCDF	80.8	28 - 143	
1,2,3,4,6,7,8-HpCDF	50.0	51.1	41 - 61	13C-1,2,3,4,7,8,9-HpCDF	87.0	26 - 138	
1,2,3,4,7,8,9-HpCDF	50.0	50.1	39 - 69	13C-OCDF	80.9	17 - 157	
OCDF	100	100	63 - 170	<u>CRS</u> 37Cl-2,3,7,8-TCDD	92.1	35 - 197	

Analyst: MAS

Approved By: William J. Luksemburg 08-Feb-2008 13:08

Sample ID: IRA2	349-01								EPA N	Aethod 1613
Client DataName:Test JProject:IRA2Date Collected:24-JaTime Collected:0930			Sample Data Matrix: Sample Size:	Aqueous 1.00 L	Lab QC 1	oratory Data Sample: Batch No.: Analyzed DB-5:	30201-001 9917 6-Feb-08	Date Re Date Ex Date An		26-Jan-08 31-Jan-08 NA
Analyte (Conc. (ug/L)	DL ^a	EMPC ^b	Qualifiers		Labeled Standa	rd	%R	LCL-UCL ^d	Qualifiers
2,3,7,8-TCDD	ND	0.000000	849		<u>IS</u>	13C-2,3,7,8-TCD	D	94.2	25 - 164	
1,2,3,7,8-PeCDD	ND	0.000000	869			13C-1,2,3,7,8-PeC	CDD	97.5	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.000001	87			13С-1,2,3,4,7,8-Н	xCDD	91.3	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.000001	89			13С-1,2,3,6,7,8-Н	xCDD	89.7	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.000001	80			13C-1,2,3,4,6,7,8-	HpCDD	97.5	23 - 140	
1,2,3,4,6,7,8-HpCDD	ND	0.000004	15			13C-OCDD		78.4	17 - 157	
OCDD	0.0000298			J		13C-2,3,7,8-TCD	F	91.7	24 - 169	
2,3,7,8-TCDF	ND	0.000000	883			13C-1,2,3,7,8-PeC	CDF	104	24 - 185	
1,2,3,7,8-PeCDF	ND	0.000000	642			13C-2,3,4,7,8-PeC	CDF	88.4	21 - 178	
2,3,4,7,8-PeCDF	ND	0.000000	711			13С-1,2,3,4,7,8-Н	xCDF	90.8	26 - 152	
1,2,3,4,7,8-HxCDF	ND	0.000000	562			13С-1,2,3,6,7,8-Н	IxCDF	86.0	26 - 123	
1,2,3,6,7,8-HxCDF	ND	0.000000	613			13С-2,3,4,6,7,8-Н	xCDF	85.4	28 - 136	
2,3,4,6,7,8-HxCDF	ND	0.000000	678			13С-1,2,3,7,8,9-Н	xCDF	90.4	29 - 147	
1,2,3,7,8,9-HxCDF	ND	0.000000	871			13C-1,2,3,4,6,7,8-	HpCDF	100	28 - 143	
1,2,3,4,6,7,8-HpCDF	ND	0.000000	899			13C-1,2,3,4,7,8,9-	HpCDF	90.4	26 - 138	
1,2,3,4,7,8,9-HpCDF	ND	0.000001	18			13C-OCDF		88.4	17 - 157	
OCDF	ND	0.000003	85		<u>CRS</u>	37Cl-2,3,7,8-TCD	D	99.5	35 - 197	
Totals					Foo	otnotes				
Total TCDD	ND	0.000001	46		a. Sa	mple specific estimated	detection limit.			
Total PeCDD	ND	0.000002	14		b. Es	timated maximum possi	ble concentration.			
Total HxCDD	ND	0.000001	85		c. M	ethod detection limit.				
Total HpCDD	0.00000483				d. Lo	ower control limit - upper	r control limit.			
Total TCDF	ND	0.000000	883							
Total PeCDF	ND	0.000000	674							
Total HxCDF	ND	0.000000	674							
Total HpCDF	ND	0.000001	02							

Analyst: MAS

APPENDIX

DATA QUALIFIERS & ABBREVIATIONS

В	This compound was also detected in the method blank.
D	Dilution
Ε	The amount detected is above the High Calibration Limit.
Р	The amount reported is the maximum possible concentration due to possible chlorinated diphenylether interference.
Н	The signal-to-noise ratio is greater than 10:1.
Ι	Chemical Interference
J	The amount detected is below the Low Calibration Limit.
*	See Cover Letter
Conc.	Concentration
DL	Sample-specific estimated detection limit
MDL	The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero in the matrix tested.
EMPC	Estimated Maximum Possible Concentration
NA	Not applicable
RL	Reporting Limit – concentrations that correspond to low calibration point
ND	Not Detected
TEQ	Toxic Equivalency

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

CERTIFICATIONS

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

SUBCONTRACT ORDER

TestAmerica Irvine

	IRA2349	3020
SENDING LABORATORY:	RECEIVING LABORATORY:	11 160
TestAmerica Irvine	Vista Analytical Laboratory- SUB	4.10
17461 Derian Avenue. Suite 100	1104 Windfield Way	
Irvine, CA 92614	El Dorado Hills, CA 95762	
Phone: (949) 261-1022	Phone :(916) 673-1520	
Fax: (949) 260-3297	Fax: (916) 673-0106	
Project Manager: Joseph Doak	Project Location: California	
	Receipt Temperature:°C	Ice: Y / N

Analysis	Units	Due	Expires	Comments
Sample ID: IRA2349-01	Water		Sampled: 01/24/08 09:30	ph=7.4. temp=47.8
1613-Dioxin-HR-Alta	ug/l	02/04/08	01/31/08 09:30	J flags,17 congeners,no TEQ,ug/L,sub=Vista
Level 4 Data Package - Out	N/A	02/04/08	02/21/08 09:30	TEQ,ug/E,Sub-Vista
Containers Supplied: 1 L Amber (C) 1	L Amber (D)			

Released By

Date/Time

Date/Time

<u>60'.71 -</u> |25/98 1200 Date/T,ime Received By 108 28 Page 1 of 1 NPDES - 1511 Page 10 of 274 Daté/Time Received By

Released By

Project 30201

SAMPLE LOG-IN CHECKLIST

Y.	Vista Analytical Laboratory
	4

Vista Project #:	3020	1			TAT	Unspec	itico	L			
	Date/Time		Initials:		Locati	on: WR-2					
Samples Arrival:	1/26/08	0944	FER	FEB Shelf/Ra				ack: NIA			
	Date/Time		Initials:	_	Locati	on: Wi	R-2	•			
Logged In:	1/28/88	0923	BSF	3	Shelf/F	Rack:	3-2	١			
Delivered By:	FedEx	UPS	Cal	DHL	1	Hand elivered	Oth	ner			
Preservation:	lce	> в	lue Ice	Dr	y Ice		None				
Temp °C Ц.	ometer II): IR-	1								
						YES	NO	NA			
Adequate Sample \					·						
Holding Time Accep	otable?										
Shipping Container	(s) Intact?	· · · ·				V	[
Shipping Custody S	Seals Intact?					~					
Shipping Document	tation Presen	t?		· · · ·		·					
Airbill	Trk #	1909 2	519 0-	739		2					
Sample Container I	ntact?				•	V					
Sample Custody Se	eals Intact?		· · · · · · · · · · · · · · · · · · ·					i			
Chain of Custody / Sample Documentation Present?											
COC Anomaly/Sample Acceptance Form completed?								ļ ,			
If Chlorinated or Dri	nking Water	Samples, Ac	ceptable Pre	servatio	n?			V			
Na ₂ S ₂ O ₃ Preservati	on Documen	ted?	COC		Sample Containe		None	\rightarrow			
Shipping Container		Vista	Client	Reta		Return	Disp	ose			

Comments:

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SUBCONTRACT ORDER

TestAmerica Irvine IRA2349

8012534

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:

Weck Laboratories, Inc-SUB 14859 E. Clark Avenue City of Industry, CA 91745 Phone :(626) 336-2139 Fax: (626) 336-2634 Project Location: California Receipt Temperature:_____°C Ice: Y / N

Analysis	Units	Due	Expires	Comments
Sample ID: IRA2349-01	Water		Sampled: 01/24/0	8 09:30 ph=7.4. temp=47.8
Level 4 Data Package - Weo	: N/A	02/04/08	02/21/08 09:30	Out to weck
Mercury - 245.1, Diss -OUT	mg/l	02/04/08	02/21/08 09:30	Boeing, J flags/ Out to Weck
Mercury - 245.1-OUT	mg/l	- 02/04/08	02/21/08 09:30	Boeing, permit, J flags/ Out to Weck
Containers Supplied: 125 mL Poly w/HNO3 1 (N)	25 mL Po	y (O)		

Open	25/08	Ven QU	1/25/08
Released By	Pate/Fime	Received By	Date/Time
Unfille	1 <u>B/03 100</u> +	<u> </u>	
Released By	Date/Time	Received By	Date/Time

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Weck Laboratories, Inc.

Analytical Laboratory Services - Since 1964

14859 E. Clark Ave., Industry, CA 91745 Phone 626.336.2139 Fax 626.336.2634 info@wecklabs.com www.wecklabs.com

CERTIFICATE OF ANALYSIS

Client:	TestAmerica, Inc Irvine	Report Date:	02/04/08 10:45
	17461 Derian Ave, Suite 100	Received Date:	01/25/08 08:20
	Irvine, CA 92614	Turn Around:	Normal
	Attention: Joseph Doak	Work Order #: 8012534	
	Phone: (949) 261-1022 Fax: (949) 260-3297	Client Project: IRA2349	

NELAP #04229CA ELAP#1132 NEVADA #CA211 HAWAII LACSD #10143

The results in this report apply to the samples analyzed in accordance with the Chain of Custody document. Weck Laboratories, Inc. certifies that the test results meet all NELAC requirements unless noted in the case narrative. This analytical report is confidential and is only intended for the use of Weck Laboratories, Inc. and its client. This report contains the Chain of Custody document, which is an integral part of it, and can only be reproduced in full with the authorization of Weck Laboratories, Inc.

Dear Joseph Doak :

Enclosed are the results of analyses for samples received 01/25/08 08:20 with the Chain of Custody document. The samples were received in good condition. The samples were received at 7.3 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Reviewed by: in

Kim G Tu

Project Manager







Report ID: 8012534 Project ID: IRA2349 Weck Laboratories, Inc. 14859 E. Clark Ave. Industry, CA 91745 Phone 626.336.2139 Fax 626.336.2634

Date Received: 01/25/08 08:20 Date Reported: 02/04/08 10:45

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Sampled by:	Sample Comments	Laboratory	Matrix	Date Sampled
IRA2349-01	Client		8012534-01	Water	01/24/08 09:30



Report ID: 8012534 Project ID: IRA2349 Date Received: 01/25/08 08:20 Date Reported: 02/04/08 10:45

IRA2349-01 8012534-01 (Water)

Date Sampled: 01/24/08 09:30

Metals by EPA 200 Series Methods

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Data Qualifiers
Mercury, Dissolved	ND	0.050	ug/l	0.20	1	EPA 245.1	W8A1076	01/30/08	01/31/08 jlp	
Mercury, Total	ND	0.050	ug/l	0.20	1	EPA 245.1	W8A1076	01/30/08	01/31/08 jlp	



Report ID: 8012534 Project ID: IRA2349 Weck Laboratories, Inc. 14859 E. Clark Ave. Industry, CA 91745 Phone 626.336.2139 Fax 626.336.2634

 Date Received:
 01/25/08 08:20

 Date Reported:
 02/04/08 10:45

QUALITY CONTROL SECTION



Date Received: 01/25/08 08:20 Date Reported: 02/04/08 10:45

Metals by EPA 200 Series Methods - Quality Control

Report ID: 8012534

Project ID: IRA2349

	%REC										
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers	
Batch W8A1076 - EPA 245.1											
Blank (W8A1076-BLK1)				Analyzed:	01/31/08						
Mercury, Dissolved	ND	0.20	ug/l								
Mercury, Total	ND	0.20	ug/l								
LCS (W8A1076-BS1)				Analyzed:	01/31/08						
Mercury, Dissolved	0.913	0.20	ug/l	1.00		91	85-115				
Mercury, Total	0.913	0.20	ug/l	1.00		91	85-115				
Matrix Spike (W8A1076-MS1)	So	urce: 8012935	-01	Analyzed: 01/31/08							
Mercury, Dissolved	0.971	0.20	ug/l	1.00	0.0450	93	70-130				
Mercury, Total	0.971	0.20	ug/l	1.00	0.0450	93	70-130				
Matrix Spike (W8A1076-MS2)	So	urce: 8012939	-01	Analyzed:	01/31/08						
Mercury, Dissolved	2.01	0.20	ug/l	1.00	1.18	83	70-130				
Mercury, Total	2.01	0.20	ug/l	1.00	1.18	83	70-130				
Matrix Spike Dup (W8A1076-MSD1)	So	urce: 8012935	-01	Analyzed:	01/31/08						
Mercury, Dissolved	0.957	0.20	ug/l	1.00	0.0450	91	70-130	1	20		
Mercury, Total	0.957	0.20	ug/l	1.00	0.0450	91	70-130	1	20		
Matrix Spike Dup (W8A1076-MSD2)	So	urce: 8012939	-01	Analyzed:	01/31/08						
Mercury, Dissolved	1.99	0.20	ug/l	1.00	1.18	81	70-130	1	20		
Mercury, Total	1.99	0.20	ug/l	1.00	1.18	81	70-130	1	20		



Report ID: 8012534 Project ID: IRA2349 Weck Laboratories, Inc. 14859 E. Clark Ave. Industry, CA 91745 Phone 626.336.2139 Fax 626.336.2634

Date Received: 01/25/08 08:20 Date Reported: 02/04/08 10:45

Notes and Definitions

- ND NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL)
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- % Rec Percent Recovery
- Sub Subcontracted analysis, original report available upon request
- MDL Method Detection Limit
- MDA Minimum Detectable Activity

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

An Absence of Total Coliform meets the drinking water standards as established by the California Department of Health Services.

The Reporting Limit (RL) is referenced as the Laboratory's Practical Quantitation Limit (PQL) or the Detection Limit for Reporting Purposes (DLR).

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.