APPENDIX G

Section 17

Outfall 003, February 3, 2008

Test America Analytical Laboratory Report

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

LABORATORY REPORT

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

Project: Annual Outfall 003

Sampled: 02/03/08
Received: 02/03/08
Issued: 03/07/08 10:54

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.

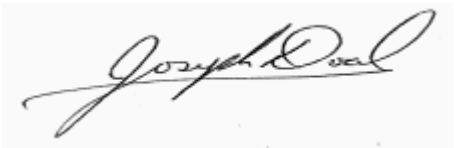
SAMPLE CROSS REFERENCE

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

ADDITIONAL INFORMATION: This is a revised report to calculate QC results for Pesticides utilizing the same Low Level calibration curve as the sample.

LABORATORY ID	CLIENT ID	MATRIX
IRB0148-01	Outfall 003	Water
IRB0148-02	Trip Blanks	Water

Reviewed By:



TestAmerica Irvine

Joseph Doak
Project Manager

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

Project ID: Annual Outfall 003
Report Number: IRB0148

Sampled: 02/03/08
Received: 02/03/08

PURGEABLES BY GC/MS (EPA 624)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRB0148-01 (Outfall 003 - Water)									
Reporting Units: ug/l									
1,1,1-Trichloroethane	EPA 624	8B04007	0.30	0.50	ND	1	02/04/08	02/04/08	
1,1,2,2-Tetrachloroethane	EPA 624	8B04007	0.24	0.50	ND	1	02/04/08	02/04/08	
1,1,2-Trichloroethane	EPA 624	8B04007	0.30	0.50	ND	1	02/04/08	02/04/08	
1,1-Dichloroethane	EPA 624	8B04007	0.27	0.50	ND	1	02/04/08	02/04/08	
1,1-Dichloroethene	EPA 624	8B04007	0.42	0.50	ND	1	02/04/08	02/04/08	
1,2-Dichloroethane	EPA 624	8B04007	0.28	0.50	ND	1	02/04/08	02/04/08	
1,2-Dichlorobenzene	EPA 624	8B04007	0.32	0.50	ND	1	02/04/08	02/04/08	
1,2-Dichloropropane	EPA 624	8B04007	0.35	0.50	ND	1	02/04/08	02/04/08	
1,3-Dichlorobenzene	EPA 624	8B04007	0.35	0.50	ND	1	02/04/08	02/04/08	
1,4-Dichlorobenzene	EPA 624	8B04007	0.37	0.50	ND	1	02/04/08	02/04/08	
Benzene	EPA 624	8B04007	0.28	0.50	ND	1	02/04/08	02/04/08	
Bromodichloromethane	EPA 624	8B04007	0.30	0.50	ND	1	02/04/08	02/04/08	
Bromoform	EPA 624	8B04007	0.40	0.50	ND	1	02/04/08	02/04/08	
Bromomethane	EPA 624	8B04007	0.42	1.0	ND	1	02/04/08	02/04/08	
Carbon tetrachloride	EPA 624	8B04007	0.28	0.50	ND	1	02/04/08	02/04/08	
Chlorobenzene	EPA 624	8B04007	0.36	0.50	ND	1	02/04/08	02/04/08	
Chloroethane	EPA 624	8B04007	0.40	1.0	ND	1	02/04/08	02/04/08	
Chloroform	EPA 624	8B04007	0.33	0.50	ND	1	02/04/08	02/04/08	
Chloromethane	EPA 624	8B04007	0.40	0.50	ND	1	02/04/08	02/04/08	
cis-1,3-Dichloropropene	EPA 624	8B04007	0.22	0.50	ND	1	02/04/08	02/04/08	
Dibromochloromethane	EPA 624	8B04007	0.28	0.50	ND	1	02/04/08	02/04/08	
Ethylbenzene	EPA 624	8B04007	0.25	0.50	ND	1	02/04/08	02/04/08	
Methylene chloride	EPA 624	8B04007	0.95	1.0	**1.6**	1	02/04/08	02/04/08	
Tetrachloroethene	EPA 624	8B04007	0.32	0.50	ND	1	02/04/08	02/04/08	
Toluene	EPA 624	8B04007	0.36	0.50	ND	1	02/04/08	02/04/08	
trans-1,2-Dichloroethene	EPA 624	8B04007	0.27	0.50	ND	1	02/04/08	02/04/08	
trans-1,3-Dichloropropene	EPA 624	8B04007	0.32	0.50	ND	1	02/04/08	02/04/08	
Trichloroethene	EPA 624	8B04007	0.26	0.50	ND	1	02/04/08	02/04/08	
Trichlorofluoromethane	EPA 624	8B04007	0.34	0.50	ND	1	02/04/08	02/04/08	
Trichlorotrifluoroethane (Freon 113)	EPA 624	8B04007	0.50	5.0	ND	1	02/04/08	02/04/08	
Vinyl chloride	EPA 624	8B04007	0.30	0.50	ND	1	02/04/08	02/04/08	
Xylenes, Total	EPA 624	8B04007	0.90	1.5	ND	1	02/04/08	02/04/08	
Surrogate: Dibromofluoromethane (80-120%)					*113 %*				
Surrogate: Toluene-d8 (80-120%)					*102 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*93 %*				

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

Project ID: Annual Outfall 003
Report Number: IRB0148

Sampled: 02/03/08
Received: 02/03/08

PURGEABLES BY GC/MS (EPA 624)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRB0148-02 (Trip Blanks - Water)									
Reporting Units: ug/l									
1,1,1-Trichloroethane	EPA 624	8B04007	0.30	0.50	ND	1	02/04/08	02/04/08	
1,1,2,2-Tetrachloroethane	EPA 624	8B04007	0.24	0.50	ND	1	02/04/08	02/04/08	
1,1,2-Trichloroethane	EPA 624	8B04007	0.30	0.50	ND	1	02/04/08	02/04/08	
1,1-Dichloroethane	EPA 624	8B04007	0.27	0.50	ND	1	02/04/08	02/04/08	
1,1-Dichloroethene	EPA 624	8B04007	0.42	0.50	ND	1	02/04/08	02/04/08	
1,2-Dichloroethane	EPA 624	8B04007	0.28	0.50	ND	1	02/04/08	02/04/08	
1,2-Dichlorobenzene	EPA 624	8B04007	0.32	0.50	ND	1	02/04/08	02/04/08	
1,2-Dichloropropane	EPA 624	8B04007	0.35	0.50	ND	1	02/04/08	02/04/08	
1,3-Dichlorobenzene	EPA 624	8B04007	0.35	0.50	ND	1	02/04/08	02/04/08	
1,4-Dichlorobenzene	EPA 624	8B04007	0.37	0.50	ND	1	02/04/08	02/04/08	
Benzene	EPA 624	8B04007	0.28	0.50	ND	1	02/04/08	02/04/08	
Bromodichloromethane	EPA 624	8B04007	0.30	0.50	ND	1	02/04/08	02/04/08	
Bromoform	EPA 624	8B04007	0.40	0.50	ND	1	02/04/08	02/04/08	
Bromomethane	EPA 624	8B04007	0.42	1.0	ND	1	02/04/08	02/04/08	
Carbon tetrachloride	EPA 624	8B04007	0.28	0.50	ND	1	02/04/08	02/04/08	
Chlorobenzene	EPA 624	8B04007	0.36	0.50	ND	1	02/04/08	02/04/08	
Chloroethane	EPA 624	8B04007	0.40	1.0	ND	1	02/04/08	02/04/08	
Chloroform	EPA 624	8B04007	0.33	0.50	ND	1	02/04/08	02/04/08	
Chloromethane	EPA 624	8B04007	0.40	0.50	ND	1	02/04/08	02/04/08	
cis-1,3-Dichloropropene	EPA 624	8B04007	0.22	0.50	ND	1	02/04/08	02/04/08	
Dibromochloromethane	EPA 624	8B04007	0.28	0.50	ND	1	02/04/08	02/04/08	
Ethylbenzene	EPA 624	8B04007	0.25	0.50	ND	1	02/04/08	02/04/08	
Methylene chloride	EPA 624	8B04007	0.95	1.0	**1.2**	1	02/04/08	02/04/08	
Tetrachloroethene	EPA 624	8B04007	0.32	0.50	ND	1	02/04/08	02/04/08	
Toluene	EPA 624	8B04007	0.36	0.50	ND	1	02/04/08	02/04/08	
trans-1,2-Dichloroethene	EPA 624	8B04007	0.27	0.50	ND	1	02/04/08	02/04/08	
trans-1,3-Dichloropropene	EPA 624	8B04007	0.32	0.50	ND	1	02/04/08	02/04/08	
Trichloroethene	EPA 624	8B04007	0.26	0.50	ND	1	02/04/08	02/04/08	
Trichlorofluoromethane	EPA 624	8B04007	0.34	0.50	ND	1	02/04/08	02/04/08	
Trichlorotrifluoroethane (Freon 113)	EPA 624	8B04007	0.50	5.0	ND	1	02/04/08	02/04/08	
Vinyl chloride	EPA 624	8B04007	0.30	0.50	ND	1	02/04/08	02/04/08	
Xylenes, Total	EPA 624	8B04007	0.90	1.5	ND	1	02/04/08	02/04/08	
Surrogate: Dibromofluoromethane (80-120%)					*111 %*				
Surrogate: Toluene-d8 (80-120%)					*102 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*94 %*				

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

Project ID: Annual Outfall 003
Report Number: IRB0148

Sampled: 02/03/08
Received: 02/03/08

PURGEABLES-- GC/MS (EPA 624)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRB0148-01 (Outfall 003 - Water)									
Reporting Units: ug/l									
Acrolein	EPA 624	8B04007	4.0	5.0	ND	1	02/04/08	02/04/08	
Acrylonitrile	EPA 624	8B04007	0.70	2.0	ND	1	02/04/08	02/04/08	
2-Chloroethyl vinyl ether	EPA 624	8B04007	1.8	5.0	ND	1	02/04/08	02/04/08	
Surrogate: Dibromofluoromethane (80-120%)					*113 %*				
Surrogate: Toluene-d8 (80-120%)					*102 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*93 %*				
Sample ID: IRB0148-02 (Trip Blanks - Water)									
Reporting Units: ug/l									
Acrolein	EPA 624	8B04007	4.0	5.0	ND	1	02/04/08	02/04/08	
Acrylonitrile	EPA 624	8B04007	0.70	2.0	ND	1	02/04/08	02/04/08	
2-Chloroethyl vinyl ether	EPA 624	8B04007	1.8	5.0	ND	1	02/04/08	02/04/08	
Surrogate: Dibromofluoromethane (80-120%)					*111 %*				
Surrogate: Toluene-d8 (80-120%)					*102 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*94 %*				

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Project ID: Annual Outfall 003
Report Number: IRB0148

Sampled: 02/03/08
Received: 02/03/08

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

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRB0148-01 (Outfall 003 - Water)									
Reporting Units: ug/l									
Acenaphthene	EPA 625	8B04111	2.9	9.6	ND	0.962	02/04/08	02/07/08	
Acenaphthylene	EPA 625	8B04111	2.9	9.6	ND	0.962	02/04/08	02/07/08	
Aniline	EPA 625	8B04111	2.4	9.6	ND	0.962	02/04/08	02/07/08	
Anthracene	EPA 625	8B04111	1.9	9.6	ND	0.962	02/04/08	02/07/08	
Benzidine	EPA 625	8B04111	8.2	19	ND	0.962	02/04/08	02/07/08	L6
Benzoic acid	EPA 625	8B04111	9.6	19	ND	0.962	02/04/08	02/07/08	
Benzo(a)anthracene	EPA 625	8B04111	1.9	9.6	ND	0.962	02/04/08	02/07/08	
Benzo(b)fluoranthene	EPA 625	8B04111	1.9	9.6	ND	0.962	02/04/08	02/07/08	
Benzo(k)fluoranthene	EPA 625	8B04111	2.4	9.6	ND	0.962	02/04/08	02/07/08	
Benzo(g,h,i)perylene	EPA 625	8B04111	3.8	9.6	ND	0.962	02/04/08	02/07/08	
Benzo(a)pyrene	EPA 625	8B04111	1.9	9.6	ND	0.962	02/04/08	02/07/08	
Benzyl alcohol	EPA 625	8B04111	2.4	19	ND	0.962	02/04/08	02/07/08	
Bis(2-chloroethoxy)methane	EPA 625	8B04111	2.9	9.6	ND	0.962	02/04/08	02/07/08	
Bis(2-chloroethyl)ether	EPA 625	8B04111	2.9	9.6	ND	0.962	02/04/08	02/07/08	
Bis(2-chloroisopropyl)ether	EPA 625	8B04111	2.4	9.6	ND	0.962	02/04/08	02/07/08	
Bis(2-ethylhexyl)phthalate	EPA 625	8B04111	3.8	48	ND	0.962	02/04/08	02/07/08	
4-Bromophenyl phenyl ether	EPA 625	8B04111	2.9	9.6	ND	0.962	02/04/08	02/07/08	
Butyl benzyl phthalate	EPA 625	8B04111	3.8	19	ND	0.962	02/04/08	02/07/08	
4-Chloroaniline	EPA 625	8B04111	1.9	9.6	ND	0.962	02/04/08	02/07/08	
2-Chloronaphthalene	EPA 625	8B04111	2.9	9.6	ND	0.962	02/04/08	02/07/08	
4-Chloro-3-methylphenol	EPA 625	8B04111	2.4	19	ND	0.962	02/04/08	02/07/08	
2-Chlorophenol	EPA 625	8B04111	2.9	9.6	ND	0.962	02/04/08	02/07/08	
4-Chlorophenyl phenyl ether	EPA 625	8B04111	2.4	9.6	ND	0.962	02/04/08	02/07/08	
Chrysene	EPA 625	8B04111	2.4	9.6	ND	0.962	02/04/08	02/07/08	
Dibenz(a,h)anthracene	EPA 625	8B04111	2.9	19	ND	0.962	02/04/08	02/07/08	
Dibenzofuran	EPA 625	8B04111	3.8	9.6	ND	0.962	02/04/08	02/07/08	
Di-n-butyl phthalate	EPA 625	8B04111	2.9	19	ND	0.962	02/04/08	02/07/08	
1,3-Dichlorobenzene	EPA 625	8B04111	2.9	9.6	ND	0.962	02/04/08	02/07/08	
1,4-Dichlorobenzene	EPA 625	8B04111	2.4	9.6	ND	0.962	02/04/08	02/07/08	
1,2-Dichlorobenzene	EPA 625	8B04111	2.9	9.6	ND	0.962	02/04/08	02/07/08	
3,3-Dichlorobenzidine	EPA 625	8B04111	2.9	19	ND	0.962	02/04/08	02/07/08	
2,4-Dichlorophenol	EPA 625	8B04111	3.4	9.6	ND	0.962	02/04/08	02/07/08	
Diethyl phthalate	EPA 625	8B04111	3.4	9.6	ND	0.962	02/04/08	02/07/08	
2,4-Dimethylphenol	EPA 625	8B04111	3.4	19	ND	0.962	02/04/08	02/07/08	
Dimethyl phthalate	EPA 625	8B04111	1.9	9.6	ND	0.962	02/04/08	02/07/08	
4,6-Dinitro-2-methylphenol	EPA 625	8B04111	3.8	19	ND	0.962	02/04/08	02/07/08	
2,4-Dinitrophenol	EPA 625	8B04111	7.7	19	ND	0.962	02/04/08	02/07/08	
2,4-Dinitrotoluene	EPA 625	8B04111	3.4	9.6	ND	0.962	02/04/08	02/07/08	
2,6-Dinitrotoluene	EPA 625	8B04111	1.9	9.6	ND	0.962	02/04/08	02/07/08	
Di-n-octyl phthalate	EPA 625	8B04111	3.4	19	ND	0.962	02/04/08	02/07/08	
Fluoranthene	EPA 625	8B04111	2.9	9.6	ND	0.962	02/04/08	02/07/08	

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Attention: Bronwyn Kelly

Project ID: Annual Outfall 003
Report Number: IRB0148

Sampled: 02/03/08
Received: 02/03/08

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

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRB0148-01 (Outfall 003 - Water) - cont.									
Reporting Units: ug/l									
Fluorene	EPA 625	8B04111	2.9	9.6	ND	0.962	02/04/08	02/07/08	
Hexachlorobenzene	EPA 625	8B04111	2.9	9.6	ND	0.962	02/04/08	02/07/08	
Hexachlorobutadiene	EPA 625	8B04111	3.8	9.6	ND	0.962	02/04/08	02/07/08	
Hexachlorocyclopentadiene	EPA 625	8B04111	4.8	19	ND	0.962	02/04/08	02/07/08	
Hexachloroethane	EPA 625	8B04111	3.4	9.6	ND	0.962	02/04/08	02/07/08	
Indeno(1,2,3-cd)pyrene	EPA 625	8B04111	3.4	19	ND	0.962	02/04/08	02/07/08	
Isophorone	EPA 625	8B04111	2.4	9.6	ND	0.962	02/04/08	02/07/08	
2-Methylnaphthalene	EPA 625	8B04111	1.9	9.6	ND	0.962	02/04/08	02/07/08	
2-Methylphenol	EPA 625	8B04111	2.9	9.6	ND	0.962	02/04/08	02/07/08	
4-Methylphenol	EPA 625	8B04111	2.9	9.6	ND	0.962	02/04/08	02/07/08	
Naphthalene	EPA 625	8B04111	2.9	9.6	ND	0.962	02/04/08	02/07/08	
2-Nitroaniline	EPA 625	8B04111	1.9	19	ND	0.962	02/04/08	02/07/08	
3-Nitroaniline	EPA 625	8B04111	2.9	19	ND	0.962	02/04/08	02/07/08	
4-Nitroaniline	EPA 625	8B04111	3.8	19	ND	0.962	02/04/08	02/07/08	
Nitrobenzene	EPA 625	8B04111	2.4	19	ND	0.962	02/04/08	02/07/08	
2-Nitrophenol	EPA 625	8B04111	3.4	9.6	ND	0.962	02/04/08	02/07/08	
4-Nitrophenol	EPA 625	8B04111	5.3	19	ND	0.962	02/04/08	02/07/08	
N-Nitrosodiphenylamine	EPA 625	8B04111	1.9	9.6	ND	0.962	02/04/08	02/07/08	
N-Nitroso-di-n-propylamine	EPA 625	8B04111	3.4	9.6	ND	0.962	02/04/08	02/07/08	
Pentachlorophenol	EPA 625	8B04111	3.4	19	ND	0.962	02/04/08	02/07/08	
Phenanthrene	EPA 625	8B04111	3.4	9.6	ND	0.962	02/04/08	02/07/08	
Phenol	EPA 625	8B04111	1.9	9.6	ND	0.962	02/04/08	02/07/08	
Pyrene	EPA 625	8B04111	3.8	9.6	ND	0.962	02/04/08	02/07/08	
1,2,4-Trichlorobenzene	EPA 625	8B04111	2.4	9.6	ND	0.962	02/04/08	02/07/08	
2,4,5-Trichlorophenol	EPA 625	8B04111	2.9	19	ND	0.962	02/04/08	02/07/08	
2,4,6-Trichlorophenol	EPA 625	8B04111	4.3	19	ND	0.962	02/04/08	02/07/08	
1,2-Diphenylhydrazine/Azobenzene	EPA 625	8B04111	2.4	19	ND	0.962	02/04/08	02/07/08	
N-Nitrosodimethylamine	EPA 625	8B04111	2.4	19	ND	0.962	02/04/08	02/07/08	
Surrogate: 2-Fluorophenol (30-120%)					*54 %*				
Surrogate: Phenol-d6 (35-120%)					*58 %*				
Surrogate: 2,4,6-Tribromophenol (40-120%)					*59 %*				
Surrogate: Nitrobenzene-d5 (45-120%)					*63 %*				
Surrogate: 2-Fluorobiphenyl (50-120%)					*73 %*				
Surrogate: Terphenyl-d14 (50-125%)					*95 %*				

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Arcadia, CA 91007
Attention: Bronwyn Kelly

Project ID: Annual Outfall 003
Report Number: IRB0148

Sampled: 02/03/08
Received: 02/03/08

ORGANOCHLORINE PESTICIDES (EPA 608)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRB0148-01 (Outfall 003 - Water) - cont.									
Reporting Units: ug/l									
Aldrin	EPA 608	8B04071	0.0014	0.0047	ND	0.943	02/04/08	02/05/08	
alpha-BHC	EPA 608	8B04071	0.0024	0.0047	ND	0.943	02/04/08	02/05/08	
beta-BHC	EPA 608	8B04071	0.0038	0.0094	ND	0.943	02/04/08	02/05/08	
delta-BHC	EPA 608	8B04071	0.0033	0.0047	ND	0.943	02/04/08	02/05/08	
gamma-BHC (Lindane)	EPA 608	8B04071	0.0028	0.0094	ND	0.943	02/04/08	02/05/08	
Chlordane	EPA 608	8B04071	0.028	0.094	ND	0.943	02/04/08	02/05/08	
4,4'-DDD	EPA 608	8B04071	0.0019	0.0047	ND	0.943	02/04/08	02/05/08	
4,4'-DDE	EPA 608	8B04071	0.0028	0.0047	ND	0.943	02/04/08	02/05/08	
4,4'-DDT	EPA 608	8B04071	0.0038	0.0094	ND	0.943	02/04/08	02/05/08	
Dieldrin	EPA 608	8B04071	0.0019	0.0047	ND	0.943	02/04/08	02/05/08	
Endosulfan I	EPA 608	8B04071	0.0019	0.0047	ND	0.943	02/04/08	02/05/08	
Endosulfan II	EPA 608	8B04071	0.0028	0.0047	ND	0.943	02/04/08	02/05/08	
Endosulfan sulfate	EPA 608	8B04071	0.0028	0.0094	ND	0.943	02/04/08	02/05/08	
Endrin	EPA 608	8B04071	0.0019	0.0047	ND	0.943	02/04/08	02/05/08	
Endrin aldehyde	EPA 608	8B04071	0.0019	0.0094	ND	0.943	02/04/08	02/05/08	
Endrin ketone	EPA 608	8B04071	0.0028	0.0094	ND	0.943	02/04/08	02/05/08	
Heptachlor	EPA 608	8B04071	0.0028	0.0094	ND	0.943	02/04/08	02/05/08	
Heptachlor epoxide	EPA 608	8B04071	0.0024	0.0047	ND	0.943	02/04/08	02/05/08	
Methoxychlor	EPA 608	8B04071	0.0033	0.0047	ND	0.943	02/04/08	02/05/08	
Toxaphene	EPA 608	8B04071	0.066	0.094	ND	0.943	02/04/08	02/05/08	
Surrogate: Decachlorobiphenyl (45-120%)					*75 %*				
Surrogate: Tetrachloro-m-xylene (35-115%)					*70 %*				

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TOTAL PCBS (EPA 608)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRB0148-01 (Outfall 003 - Water) - cont.									
Reporting Units: ug/l									
Aroclor 1016	EPA 608	8B04071	0.42	0.47	ND	0.943	02/04/08	02/06/08	
Aroclor 1221	EPA 608	8B04071	0.24	0.47	ND	0.943	02/04/08	02/06/08	
Aroclor 1232	EPA 608	8B04071	0.24	0.47	ND	0.943	02/04/08	02/06/08	
Aroclor 1242	EPA 608	8B04071	0.24	0.47	ND	0.943	02/04/08	02/06/08	
Aroclor 1248	EPA 608	8B04071	0.24	0.47	ND	0.943	02/04/08	02/06/08	
Aroclor 1254	EPA 608	8B04071	0.24	0.47	ND	0.943	02/04/08	02/06/08	
Aroclor 1260	EPA 608	8B04071	0.28	0.47	ND	0.943	02/04/08	02/06/08	
Surrogate: Decachlorobiphenyl (45-120%)					*87 %*				

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METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRB0148-01 (Outfall 003 - Water) - cont.									
Reporting Units: mg/l									
Hardness as CaCO3	SM2340B	[CALC]	N/A	0.33	**160**	1	02/04/08	02/04/08	
Boron	EPA 200.7	8B04079	0.020	0.050	**0.12**	1	02/04/08	02/04/08	
Calcium	EPA 200.7	8B04079	0.050	0.10	**44**	1	02/04/08	02/04/08	
Iron	EPA 200.7	8B04079	0.015	0.040	**0.081**	1	02/04/08	02/04/08	
Magnesium	EPA 200.7	8B04079	0.012	0.020	**12**	1	02/04/08	02/04/08	

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METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRB0148-01 (Outfall 003 - Water) - cont.									
Reporting Units: ug/l									
Aluminum	EPA 200.7	8B04079	40	50	**61**	1	02/04/08	02/04/08	
Antimony	EPA 200.8	8B04080	0.20	2.0	**0.42**	1	02/04/08	02/05/08	J
Arsenic	EPA 200.7	8B04079	7.0	10	ND	1	02/04/08	02/04/08	
Beryllium	EPA 200.7	8B04079	0.90	2.0	ND	1	02/04/08	02/04/08	
Cadmium	EPA 200.8	8B04080	0.11	1.0	**0.19**	1	02/04/08	02/04/08	J
Chromium	EPA 200.7	8B04079	2.0	5.0	**2.2**	1	02/04/08	02/04/08	J
Copper	EPA 200.8	8B04080	0.75	2.0	**3.4**	1	02/04/08	02/04/08	
Lead	EPA 200.8	8B04080	0.30	1.0	ND	1	02/04/08	02/04/08	
Nickel	EPA 200.7	8B04079	2.0	10	**2.3**	1	02/04/08	02/04/08	J
Selenium	EPA 200.7	8B04079	8.0	10	ND	1	02/04/08	02/04/08	
Silver	EPA 200.7	8B04079	6.0	10	ND	1	02/04/08	02/04/08	
Thallium	EPA 200.8	8B04080	0.20	1.0	ND	1	02/04/08	02/04/08	
Vanadium	EPA 200.7	8B04079	3.0	10	ND	1	02/04/08	02/04/08	
Zinc	EPA 200.7	8B04079	6.0	20	**14**	1	02/04/08	02/04/08	J

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DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRB0148-01 (Outfall 003 - Water) - cont.									
Reporting Units: mg/l									
Boron	EPA 200.7-Diss	8B05111	0.020	0.050	**0.11**	1	02/05/08	02/06/08	
Calcium	EPA 200.7-Diss	8B05111	0.050	0.10	**44**	1	02/05/08	02/06/08	
Iron	EPA 200.7-Diss	8B05111	0.015	0.040	**0.026**	1	02/05/08	02/06/08	J
Magnesium	EPA 200.7-Diss	8B05111	0.012	0.020	**12**	1	02/05/08	02/06/08	
Hardness (as CaCO3)	SM2340B	8B05111	1.0	1.0	**160**	1	02/05/08	02/06/08	

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DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRB0148-01 (Outfall 003 - Water) - cont.									
Reporting Units: ug/l									
Aluminum	EPA 200.7-Diss	8B05111	40	50	ND	1	02/05/08	02/06/08	
Antimony	EPA 200.8-Diss	8B04144	0.20	2.0	**0.33**	1	02/04/08	02/05/08	J
Arsenic	EPA 200.7-Diss	8B05111	7.0	10	ND	1	02/05/08	02/06/08	
Beryllium	EPA 200.7-Diss	8B05111	0.90	2.0	ND	1	02/05/08	02/06/08	
Cadmium	EPA 200.8-Diss	8B04144	0.11	1.0	ND	1	02/04/08	02/05/08	
Chromium	EPA 200.7-Diss	8B05111	2.0	5.0	ND	1	02/05/08	02/06/08	
Copper	EPA 200.8-Diss	8B04144	0.75	2.0	**2.5**	1	02/04/08	02/05/08	
Lead	EPA 200.8-Diss	8B04144	0.30	1.0	ND	1	02/04/08	02/05/08	
Nickel	EPA 200.7-Diss	8B05111	2.0	10	**2.4**	1	02/05/08	02/06/08	J
Selenium	EPA 200.7-Diss	8B05111	8.0	10	ND	1	02/05/08	02/06/08	
Silver	EPA 200.7-Diss	8B05111	6.0	10	ND	1	02/05/08	02/06/08	
Thallium	EPA 200.8-Diss	8B04144	0.20	1.0	ND	1	02/04/08	02/05/08	
Vanadium	EPA 200.7-Diss	8B05111	3.0	10	**3.3**	1	02/05/08	02/06/08	J
Zinc	EPA 200.7-Diss	8B05111	6.0	20	**11**	1	02/05/08	02/06/08	J

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRB0148-01 (Outfall 003 - Water) - cont.									
Reporting Units: mg/l									
Hexane Extractable Material (Oil & Grease)	EPA 1664A	8B12074	1.3	4.8	**1.7**	1	02/12/08	02/12/08	J
Chloride	EPA 300.0	8B04043	0.25	0.50	**17**	1	02/04/08	02/04/08	
Fluoride	EPA 300.0	8B04043	0.15	0.50	**0.36**	1	02/04/08	02/04/08	J
Nitrate/Nitrite-N	EPA 300.0	8B04043	0.15	0.26	**1.8**	1	02/04/08	02/04/08	
Sulfate	EPA 300.0	8B04043	0.20	0.50	**38**	1	02/04/08	02/04/08	
Total Dissolved Solids	SM2540C	8B07122	10	10	**280**	1	02/07/08	02/07/08	
Total Suspended Solids	EPA 160.2	8B04128	10	10	ND	1	02/04/08	02/04/08	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRB0148-01 (Outfall 003 - Water) - cont.									
Reporting Units: ug/l									
Total Cyanide	EPA 335.2	8B04112	2.2	5.0	ND	1	02/04/08	02/04/08	
Perchlorate	EPA 314.0	8B12073	1.5	4.0	ND	1	02/12/08	02/13/08	

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ORGANIC COMPOUNDS BY GC/MS (EPA 525.2)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRB0148-01 (Outfall 003 - Water) - cont.									**P, pH**
Reporting Units: ug/l									
Chlorpyrifos	EPA 525.2	C8B0516	0.10	1.0	ND	1.01	02/05/08	02/07/08	
Diazinon	EPA 525.2	C8B0516	0.24	0.25	ND	1.01	02/05/08	02/07/08	
Surrogate: 1,3-Dimethyl-2-nitrobenzene (70-130%)					*90 %*				
Surrogate: Triphenylphosphate (70-130%)					*107 %*				
Surrogate: Perylene-d12 (70-130%)					*88 %*				

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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: IRB0148-01 (Outfall 003 - Water) - cont.									
Reporting Units: ug/l									
Mercury, Dissolved	EPA 245.1	W8B0171	0.050	0.20	ND	1	02/06/08	02/07/08	
Mercury, Total	EPA 245.1	W8B0171	0.050	0.20	ND	1	02/06/08	02/07/08	

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SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: Outfall 003 (IRB0148-01) - Water					
EPA 300.0	2	02/03/2008 14:45	02/03/2008 18:25	02/04/2008 05:00	02/04/2008 06:48
EPA 624	3	02/03/2008 14:45	02/03/2008 18:25	02/04/2008 00:00	02/04/2008 12:55
Sample ID: Trip Blanks (IRB0148-02) - Water					
EPA 624	3	02/03/2008 14:45	02/03/2008 18:25	02/04/2008 00:00	02/04/2008 13:24

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METHOD BLANK/QC DATA

PURGEABLES BY GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8B04007 Extracted: 02/04/08											
Blank Analyzed: 02/04/2008 (8B04007-BLK1)											
1,1,1-Trichloroethane	ND	0.50	0.30	ug/l							
1,1,2,2-Tetrachloroethane	ND	0.50	0.24	ug/l							
1,1,2-Trichloroethane	ND	0.50	0.30	ug/l							
1,1-Dichloroethane	ND	0.50	0.27	ug/l							
1,1-Dichloroethene	ND	0.50	0.42	ug/l							
1,2-Dichloroethane	ND	0.50	0.28	ug/l							
1,2-Dichlorobenzene	ND	0.50	0.32	ug/l							
1,2-Dichloropropane	ND	0.50	0.35	ug/l							
1,3-Dichlorobenzene	ND	0.50	0.35	ug/l							
1,4-Dichlorobenzene	ND	0.50	0.37	ug/l							
Benzene	ND	0.50	0.28	ug/l							
Bromodichloromethane	ND	0.50	0.30	ug/l							
Bromoform	ND	0.50	0.40	ug/l							
Bromomethane	ND	1.0	0.42	ug/l							
Carbon tetrachloride	ND	0.50	0.28	ug/l							
Chlorobenzene	ND	0.50	0.36	ug/l							
Chloroethane	ND	1.0	0.40	ug/l							
Chloroform	ND	0.50	0.33	ug/l							
Chloromethane	ND	0.50	0.40	ug/l							
cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l							
Dibromochloromethane	ND	0.50	0.28	ug/l							
Ethylbenzene	ND	0.50	0.25	ug/l							
Methylene chloride	ND	1.0	0.95	ug/l							
Tetrachloroethene	ND	0.50	0.32	ug/l							
Toluene	ND	0.50	0.36	ug/l							
trans-1,2-Dichloroethene	ND	0.50	0.27	ug/l							
trans-1,3-Dichloropropene	ND	0.50	0.32	ug/l							
Trichloroethene	ND	0.50	0.26	ug/l							
Trichlorofluoromethane	ND	0.50	0.34	ug/l							
Trichlorotrifluoroethane (Freon 113)	ND	5.0	0.50	ug/l							
Vinyl chloride	ND	0.50	0.30	ug/l							
Xylenes, Total	ND	1.5	0.90	ug/l							
Surrogate: Dibromofluoromethane	*27.7*			*ug/l*	*25.0*		*111*	*80-120*			
Surrogate: Toluene-d8	*25.2*			*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*22.9*			*ug/l*	*25.0*		*91*	*80-120*			

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METHOD BLANK/QC DATA

PURGEABLES BY GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8B04007 Extracted: 02/04/08											
LCS Analyzed: 02/04/2008 (8B04007-BS1)											
1,1,1-Trichloroethane	30.6	0.50	0.30	ug/l	25.0		122	65-135			
1,1,2,2-Tetrachloroethane	27.3	0.50	0.24	ug/l	25.0		109	55-130			
1,1,2-Trichloroethane	25.9	0.50	0.30	ug/l	25.0		103	70-125			
1,1-Dichloroethane	29.2	0.50	0.27	ug/l	25.0		117	70-125			
1,1-Dichloroethene	25.5	0.50	0.42	ug/l	25.0		102	70-125			
1,2-Dichloroethane	27.2	0.50	0.28	ug/l	25.0		109	60-140			
1,2-Dichlorobenzene	26.5	0.50	0.32	ug/l	25.0		106	75-120			
1,2-Dichloropropane	26.7	0.50	0.35	ug/l	25.0		107	70-125			
1,3-Dichlorobenzene	26.4	0.50	0.35	ug/l	25.0		106	75-120			
1,4-Dichlorobenzene	24.3	0.50	0.37	ug/l	25.0		97	75-120			
Benzene	25.9	0.50	0.28	ug/l	25.0		103	70-120			
Bromodichloromethane	29.9	0.50	0.30	ug/l	25.0		120	70-135			
Bromoform	22.2	0.50	0.40	ug/l	25.0		89	55-130			
Bromomethane	29.3	1.0	0.42	ug/l	25.0		117	65-140			
Carbon tetrachloride	29.8	0.50	0.28	ug/l	25.0		119	65-140			
Chlorobenzene	24.8	0.50	0.36	ug/l	25.0		99	75-120			
Chloroethane	30.1	1.0	0.40	ug/l	25.0		120	60-140			
Chloroform	30.2	0.50	0.33	ug/l	25.0		121	70-130			
Chloromethane	28.5	0.50	0.40	ug/l	25.0		114	50-140			
cis-1,3-Dichloropropene	24.0	0.50	0.22	ug/l	25.0		96	75-125			
Dibromochloromethane	25.6	0.50	0.28	ug/l	25.0		103	70-140			
Ethylbenzene	27.1	0.50	0.25	ug/l	25.0		108	75-125			
Methylene chloride	27.1	1.0	0.95	ug/l	25.0		108	55-130			
Tetrachloroethene	22.8	0.50	0.32	ug/l	25.0		91	70-125			
Toluene	26.1	0.50	0.36	ug/l	25.0		104	70-120			
trans-1,2-Dichloroethene	29.8	0.50	0.27	ug/l	25.0		119	70-125			
trans-1,3-Dichloropropene	24.1	0.50	0.32	ug/l	25.0		96	70-125			
Trichloroethene	24.6	0.50	0.26	ug/l	25.0		99	70-125			
Trichlorofluoromethane	34.8	0.50	0.34	ug/l	25.0		139	65-145			
Vinyl chloride	29.8	0.50	0.30	ug/l	25.0		119	55-135			
Xylenes, Total	78.7	1.5	0.90	ug/l	75.0		105	70-125			
Surrogate: Dibromofluoromethane	*27.9*			*ug/l*	*25.0*		*112*	*80-120*			
Surrogate: Toluene-d8	*25.5*			*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*26.0*			*ug/l*	*25.0*		*104*	*80-120*			

TestAmerica Irvine

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Attention: Bronwyn Kelly

Project ID: Annual Outfall 003
Report Number: IRB0148

Sampled: 02/03/08
Received: 02/03/08

METHOD BLANK/QC DATA

PURGEABLES BY GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8B04007 Extracted: 02/04/08											
Matrix Spike Analyzed: 02/04/2008 (8B04007-MS1)						**Source: IRB0146-01**					
1,1,1-Trichloroethane	29.1	0.50	0.30	ug/l	25.0	ND	117	65-140			
1,1,2,2-Tetrachloroethane	27.0	0.50	0.24	ug/l	25.0	ND	108	55-135			
1,1,2-Trichloroethane	24.6	0.50	0.30	ug/l	25.0	ND	98	65-130			
1,1-Dichloroethane	27.8	0.50	0.27	ug/l	25.0	ND	111	65-130			
1,1-Dichloroethene	24.9	0.50	0.42	ug/l	25.0	ND	100	60-130			
1,2-Dichloroethane	26.1	0.50	0.28	ug/l	25.0	ND	104	60-140			
1,2-Dichlorobenzene	25.7	0.50	0.32	ug/l	25.0	ND	103	75-125			
1,2-Dichloropropane	25.3	0.50	0.35	ug/l	25.0	ND	101	65-130			
1,3-Dichlorobenzene	25.8	0.50	0.35	ug/l	25.0	ND	103	75-125			
1,4-Dichlorobenzene	23.6	0.50	0.37	ug/l	25.0	ND	94	75-125			
Benzene	25.1	0.50	0.28	ug/l	25.0	ND	101	65-125			
Bromodichloromethane	28.8	0.50	0.30	ug/l	25.0	ND	115	70-135			
Bromoform	21.5	0.50	0.40	ug/l	25.0	ND	86	55-135			
Bromomethane	28.6	1.0	0.42	ug/l	25.0	ND	114	55-145			
Carbon tetrachloride	28.4	0.50	0.28	ug/l	25.0	ND	113	65-140			
Chlorobenzene	23.9	0.50	0.36	ug/l	25.0	ND	96	75-125			
Chloroethane	28.9	1.0	0.40	ug/l	25.0	ND	115	55-140			
Chloroform	28.9	0.50	0.33	ug/l	25.0	ND	116	65-135			
Chloromethane	28.8	0.50	0.40	ug/l	25.0	ND	115	45-145			
cis-1,3-Dichloropropene	22.8	0.50	0.22	ug/l	25.0	ND	91	70-130			
Dibromochloromethane	24.4	0.50	0.28	ug/l	25.0	ND	98	65-140			
Ethylbenzene	26.4	0.50	0.25	ug/l	25.0	ND	106	65-130			
Methylene chloride	26.1	1.0	0.95	ug/l	25.0	ND	104	50-135			
Tetrachloroethene	22.0	0.50	0.32	ug/l	25.0	ND	88	65-130			
Toluene	25.3	0.50	0.36	ug/l	25.0	ND	101	70-125			
trans-1,2-Dichloroethene	28.4	0.50	0.27	ug/l	25.0	ND	114	65-130			
trans-1,3-Dichloropropene	22.5	0.50	0.32	ug/l	25.0	ND	90	65-135			
Trichloroethene	23.9	0.50	0.26	ug/l	25.0	ND	96	65-125			
Trichlorofluoromethane	34.2	0.50	0.34	ug/l	25.0	ND	137	60-145			
Vinyl chloride	29.4	0.50	0.30	ug/l	25.0	ND	118	45-140			
Xylenes, Total	76.3	1.5	0.90	ug/l	75.0	ND	102	60-130			
Surrogate: Dibromofluoromethane	*27.8*			*ug/l*	*25.0*		*111*	*80-120*			
Surrogate: Toluene-d8	*25.7*			*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.7*			*ug/l*	*25.0*		*103*	*80-120*			

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Project ID: Annual Outfall 003
Report Number: IRB0148

Sampled: 02/03/08
Received: 02/03/08

METHOD BLANK/QC DATA

PURGEABLES BY GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8B04007 Extracted: 02/04/08											
Matrix Spike Dup Analyzed: 02/04/2008 (8B04007-MSD1)						**Source: IRB0146-01**					
1,1,1-Trichloroethane	28.6	0.50	0.30	ug/l	25.0	ND	114	65-140	2	20	
1,1,2,2-Tetrachloroethane	29.1	0.50	0.24	ug/l	25.0	ND	116	55-135	7	30	
1,1,2-Trichloroethane	26.1	0.50	0.30	ug/l	25.0	ND	104	65-130	6	25	
1,1-Dichloroethane	28.1	0.50	0.27	ug/l	25.0	ND	112	65-130	1	20	
1,1-Dichloroethene	25.1	0.50	0.42	ug/l	25.0	ND	100	60-130	1	20	
1,2-Dichloroethane	26.8	0.50	0.28	ug/l	25.0	ND	107	60-140	2	20	
1,2-Dichlorobenzene	25.8	0.50	0.32	ug/l	25.0	ND	103	75-125	1	20	
1,2-Dichloropropane	25.8	0.50	0.35	ug/l	25.0	ND	103	65-130	2	20	
1,3-Dichlorobenzene	25.4	0.50	0.35	ug/l	25.0	ND	101	75-125	2	20	
1,4-Dichlorobenzene	23.4	0.50	0.37	ug/l	25.0	ND	94	75-125	1	20	
Benzene	25.4	0.50	0.28	ug/l	25.0	ND	102	65-125	1	20	
Bromodichloromethane	29.0	0.50	0.30	ug/l	25.0	ND	116	70-135	1	20	
Bromoform	22.6	0.50	0.40	ug/l	25.0	ND	91	55-135	5	25	
Bromomethane	29.3	1.0	0.42	ug/l	25.0	ND	117	55-145	2	25	
Carbon tetrachloride	27.6	0.50	0.28	ug/l	25.0	ND	110	65-140	3	25	
Chlorobenzene	23.7	0.50	0.36	ug/l	25.0	ND	95	75-125	1	20	
Chloroethane	30.2	1.0	0.40	ug/l	25.0	ND	121	55-140	4	25	
Chloroform	28.8	0.50	0.33	ug/l	25.0	ND	115	65-135	0	20	
Chloromethane	30.9	0.50	0.40	ug/l	25.0	ND	124	45-145	7	25	
cis-1,3-Dichloropropene	23.2	0.50	0.22	ug/l	25.0	ND	93	70-130	2	20	
Dibromochloromethane	24.9	0.50	0.28	ug/l	25.0	ND	100	65-140	2	25	
Ethylbenzene	26.2	0.50	0.25	ug/l	25.0	ND	105	65-130	1	20	
Methylene chloride	27.0	1.0	0.95	ug/l	25.0	ND	108	50-135	3	20	
Tetrachloroethene	21.9	0.50	0.32	ug/l	25.0	ND	88	65-130	1	20	
Toluene	25.2	0.50	0.36	ug/l	25.0	ND	101	70-125	0	20	
trans-1,2-Dichloroethene	28.5	0.50	0.27	ug/l	25.0	ND	114	65-130	1	20	
trans-1,3-Dichloropropene	23.4	0.50	0.32	ug/l	25.0	ND	94	65-135	4	25	
Trichloroethene	24.1	0.50	0.26	ug/l	25.0	ND	96	65-125	1	20	
Trichlorofluoromethane	33.1	0.50	0.34	ug/l	25.0	ND	132	60-145	3	25	
Vinyl chloride	30.5	0.50	0.30	ug/l	25.0	ND	122	45-140	3	30	
Xylenes, Total	74.9	1.5	0.90	ug/l	75.0	ND	100	60-130	2	20	
Surrogate: Dibromofluoromethane	*27.6*			*ug/l*	*25.0*		*110*	*80-120*			
Surrogate: Toluene-d8	*25.7*			*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.5*			*ug/l*	*25.0*		*102*	*80-120*			

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Project ID: Annual Outfall 003
Report Number: IRB0148

Sampled: 02/03/08
Received: 02/03/08

METHOD BLANK/QC DATA

PURGEABLES-- GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8B04007 Extracted: 02/04/08											
Blank Analyzed: 02/04/2008 (8B04007-BLK1)											
Acrolein	ND	5.0	4.0	ug/l							
Acrylonitrile	ND	2.0	0.70	ug/l							
2-Chloroethyl vinyl ether	ND	5.0	1.8	ug/l							
Surrogate: Dibromofluoromethane	*27.7*			*ug/l*	*25.0*		*111*	*80-120*			
Surrogate: Toluene-d8	*25.2*			*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*22.9*			*ug/l*	*25.0*		*91*	*80-120*			
LCS Analyzed: 02/04/2008 (8B04007-BS1)											
2-Chloroethyl vinyl ether	29.5	5.0	1.8	ug/l	25.0		118	25-170			
Surrogate: Dibromofluoromethane	*27.9*			*ug/l*	*25.0*		*112*	*80-120*			
Surrogate: Toluene-d8	*25.5*			*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*26.0*			*ug/l*	*25.0*		*104*	*80-120*			
Matrix Spike Analyzed: 02/04/2008 (8B04007-MS1)						**Source: IRB0146-01**					
2-Chloroethyl vinyl ether	27.8	5.0	1.8	ug/l	25.0	ND	111	25-170			
Surrogate: Dibromofluoromethane	*27.8*			*ug/l*	*25.0*		*111*	*80-120*			
Surrogate: Toluene-d8	*25.7*			*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.7*			*ug/l*	*25.0*		*103*	*80-120*			
Matrix Spike Dup Analyzed: 02/04/2008 (8B04007-MSD1)						**Source: IRB0146-01**					
2-Chloroethyl vinyl ether	31.1	5.0	1.8	ug/l	25.0	ND	124	25-170	11	25	
Surrogate: Dibromofluoromethane	*27.6*			*ug/l*	*25.0*		*110*	*80-120*			
Surrogate: Toluene-d8	*25.7*			*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.5*			*ug/l*	*25.0*		*102*	*80-120*			

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Project ID: Annual Outfall 003
Report Number: IRB0148

Sampled: 02/03/08
Received: 02/03/08

METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8B04111 Extracted: 02/04/08											
Blank Analyzed: 02/07/2008 (8B04111-BLK1)											
Acenaphthene	ND	10	3.0	ug/l							
Acenaphthylene	ND	10	3.0	ug/l							
Aniline	ND	10	2.5	ug/l							
Anthracene	ND	10	2.0	ug/l							
Benzidine	ND	20	8.5	ug/l							
Benzoic acid	ND	20	10	ug/l							
Benzo(a)anthracene	ND	10	2.0	ug/l							
Benzo(b)fluoranthene	ND	10	2.0	ug/l							
Benzo(k)fluoranthene	ND	10	2.5	ug/l							
Benzo(g,h,i)perylene	ND	10	4.0	ug/l							
Benzo(a)pyrene	ND	10	2.0	ug/l							
Benzyl alcohol	ND	20	2.5	ug/l							
Bis(2-chloroethoxy)methane	ND	10	3.0	ug/l							
Bis(2-chloroethyl)ether	ND	10	3.0	ug/l							
Bis(2-chloroisopropyl)ether	ND	10	2.5	ug/l							
Bis(2-ethylhexyl)phthalate	ND	50	4.0	ug/l							
4-Bromophenyl phenyl ether	ND	10	3.0	ug/l							
Butyl benzyl phthalate	ND	20	4.0	ug/l							
4-Chloroaniline	ND	10	2.0	ug/l							
2-Chloronaphthalene	ND	10	3.0	ug/l							
4-Chloro-3-methylphenol	ND	20	2.5	ug/l							
2-Chlorophenol	ND	10	3.0	ug/l							
4-Chlorophenyl phenyl ether	ND	10	2.5	ug/l							
Chrysene	ND	10	2.5	ug/l							
Dibenz(a,h)anthracene	ND	20	3.0	ug/l							
Dibenzofuran	ND	10	4.0	ug/l							
Di-n-butyl phthalate	ND	20	3.0	ug/l							
1,3-Dichlorobenzene	ND	10	3.0	ug/l							
1,4-Dichlorobenzene	ND	10	2.5	ug/l							
1,2-Dichlorobenzene	ND	10	3.0	ug/l							
3,3-Dichlorobenzidine	ND	20	3.0	ug/l							
2,4-Dichlorophenol	ND	10	3.5	ug/l							
Diethyl phthalate	ND	10	3.5	ug/l							
2,4-Dimethylphenol	ND	20	3.5	ug/l							
Dimethyl phthalate	ND	10	2.0	ug/l							

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Sampled: 02/03/08
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METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8B04111 Extracted: 02/04/08											
Blank Analyzed: 02/07/2008 (8B04111-BLK1)											
4,6-Dinitro-2-methylphenol	ND	20	4.0	ug/l							
2,4-Dinitrophenol	ND	20	8.0	ug/l							
2,4-Dinitrotoluene	ND	10	3.5	ug/l							
2,6-Dinitrotoluene	ND	10	2.0	ug/l							
Di-n-octyl phthalate	ND	20	3.5	ug/l							
Fluoranthene	ND	10	3.0	ug/l							
Fluorene	ND	10	3.0	ug/l							
Hexachlorobenzene	ND	10	3.0	ug/l							
Hexachlorobutadiene	ND	10	4.0	ug/l							
Hexachlorocyclopentadiene	ND	20	5.0	ug/l							
Hexachloroethane	ND	10	3.5	ug/l							
Indeno(1,2,3-cd)pyrene	ND	20	3.5	ug/l							
Isophorone	ND	10	2.5	ug/l							
2-Methylnaphthalene	ND	10	2.0	ug/l							
2-Methylphenol	ND	10	3.0	ug/l							
4-Methylphenol	ND	10	3.0	ug/l							
Naphthalene	ND	10	3.0	ug/l							
2-Nitroaniline	ND	20	2.0	ug/l							
3-Nitroaniline	ND	20	3.0	ug/l							
4-Nitroaniline	ND	20	4.0	ug/l							
Nitrobenzene	ND	20	2.5	ug/l							
2-Nitrophenol	ND	10	3.5	ug/l							
4-Nitrophenol	ND	20	5.5	ug/l							
N-Nitrosodiphenylamine	ND	10	2.0	ug/l							
N-Nitroso-di-n-propylamine	ND	10	3.5	ug/l							
Pentachlorophenol	ND	20	3.5	ug/l							
Phenanthrene	ND	10	3.5	ug/l							
Phenol	ND	10	2.0	ug/l							
Pyrene	ND	10	4.0	ug/l							
1,2,4-Trichlorobenzene	ND	10	2.5	ug/l							
2,4,5-Trichlorophenol	ND	20	3.0	ug/l							
2,4,6-Trichlorophenol	ND	20	4.5	ug/l							
1,2-Diphenylhydrazine/Azobenzene	ND	20	2.5	ug/l							
N-Nitrosodimethylamine	ND	20	2.5	ug/l							
Surrogate: 2-Fluorophenol	*159*			*ug/l*	*200*		*80*	*30-120*			

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METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8B04111 Extracted: 02/04/08											
Blank Analyzed: 02/07/2008 (8B04111-BLK1)											
Surrogate: Phenol-d6	*166*			*ug/l*	*200*		*83*	*35-120*			
Surrogate: 2,4,6-Tribromophenol	*129*			*ug/l*	*200*		*64*	*40-120*			
Surrogate: Nitrobenzene-d5	*83.8*			*ug/l*	*100*		*84*	*45-120*			
Surrogate: 2-Fluorobiphenyl	*82.4*			*ug/l*	*100*		*82*	*50-120*			
Surrogate: Terphenyl-d14	*82.8*			*ug/l*	*100*		*83*	*50-125*			
LCS Analyzed: 02/07/2008 (8B04111-BS1)											
Acenaphthene	92.8	10	3.0	ug/l	100		93	60-120			
Acenaphthylene	97.0	10	3.0	ug/l	100		97	60-120			
Aniline	86.7	10	2.5	ug/l	100		87	35-120			
Anthracene	91.1	10	2.0	ug/l	100		91	65-120			
Benzidine	161	20	8.5	ug/l	100		161	30-160			*L6*
Benzoic acid	74.5	20	10	ug/l	100		74	25-120			
Benzo(a)anthracene	95.9	10	2.0	ug/l	100		96	65-120			
Benzo(b)fluoranthene	87.2	10	2.0	ug/l	100		87	55-125			
Benzo(k)fluoranthene	88.9	10	2.5	ug/l	100		89	50-125			
Benzo(g,h,i)perylene	83.0	10	4.0	ug/l	100		83	45-135			
Benzo(a)pyrene	91.9	10	2.0	ug/l	100		92	55-130			
Benzyl alcohol	99.9	20	2.5	ug/l	100		100	50-120			
Bis(2-chloroethoxy)methane	92.9	10	3.0	ug/l	100		93	55-120			
Bis(2-chloroethyl)ether	86.4	10	3.0	ug/l	100		86	50-120			
Bis(2-chloroisopropyl)ether	98.4	10	2.5	ug/l	100		98	45-120			
Bis(2-ethylhexyl)phthalate	99.9	50	4.0	ug/l	100		100	65-130			
4-Bromophenyl phenyl ether	86.0	10	3.0	ug/l	100		86	60-120			
Butyl benzyl phthalate	104	20	4.0	ug/l	100		104	55-130			
4-Chloroaniline	95.8	10	2.0	ug/l	100		96	55-120			
2-Chloronaphthalene	91.9	10	3.0	ug/l	100		92	60-120			
4-Chloro-3-methylphenol	97.9	20	2.5	ug/l	100		98	60-120			
2-Chlorophenol	86.3	10	3.0	ug/l	100		86	45-120			
4-Chlorophenyl phenyl ether	89.9	10	2.5	ug/l	100		90	65-120			
Chrysene	92.3	10	2.5	ug/l	100		92	65-120			
Dibenz(a,h)anthracene	84.8	20	3.0	ug/l	100		85	50-135			
Dibenzofuran	93.2	10	4.0	ug/l	100		93	65-120			
Di-n-butyl phthalate	85.8	20	3.0	ug/l	100		86	60-125			
1,3-Dichlorobenzene	74.9	10	3.0	ug/l	100		75	35-120			
1,4-Dichlorobenzene	79.8	10	2.5	ug/l	100		80	35-120			

TestAmerica Irvine

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

Project ID: Annual Outfall 003
Report Number: IRB0148

Sampled: 02/03/08
Received: 02/03/08

METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8B04111 Extracted: 02/04/08											
LCS Analyzed: 02/07/2008 (8B04111-BS1)											
1,2-Dichlorobenzene	80.6	10	3.0	ug/l	100		81	40-120			
3,3-Dichlorobenzidine	84.1	20	3.0	ug/l	100		84	45-135			
2,4-Dichlorophenol	91.0	10	3.5	ug/l	100		91	55-120			
Diethyl phthalate	92.2	10	3.5	ug/l	100		92	55-120			
2,4-Dimethylphenol	80.5	20	3.5	ug/l	100		81	40-120			
Dimethyl phthalate	89.5	10	2.0	ug/l	100		90	30-120			
4,6-Dinitro-2-methylphenol	85.8	20	4.0	ug/l	100		86	45-120			
2,4-Dinitrophenol	94.2	20	8.0	ug/l	100		94	40-120			
2,4-Dinitrotoluene	101	10	3.5	ug/l	100		101	65-120			
2,6-Dinitrotoluene	98.1	10	2.0	ug/l	100		98	65-120			
Di-n-octyl phthalate	89.3	20	3.5	ug/l	100		89	65-135			
Fluoranthene	82.3	10	3.0	ug/l	100		82	60-120			
Fluorene	95.6	10	3.0	ug/l	100		96	65-120			
Hexachlorobenzene	80.7	10	3.0	ug/l	100		81	60-120			
Hexachlorobutadiene	76.8	10	4.0	ug/l	100		77	40-120			
Hexachlorocyclopentadiene	105	20	5.0	ug/l	100		105	25-120			
Hexachloroethane	76.5	10	3.5	ug/l	100		77	35-120			
Indeno(1,2,3-cd)pyrene	85.2	20	3.5	ug/l	100		85	45-135			
Isophorone	93.8	10	2.5	ug/l	100		94	50-120			
2-Methylnaphthalene	91.2	10	2.0	ug/l	100		91	55-120			
2-Methylphenol	90.9	10	3.0	ug/l	100		91	50-120			
4-Methylphenol	90.3	10	3.0	ug/l	100		90	50-120			
Naphthalene	87.4	10	3.0	ug/l	100		87	55-120			
2-Nitroaniline	105	20	2.0	ug/l	100		105	65-120			
3-Nitroaniline	97.2	20	3.0	ug/l	100		97	60-120			
4-Nitroaniline	99.5	20	4.0	ug/l	100		99	55-125			
Nitrobenzene	93.5	20	2.5	ug/l	100		94	55-120			
2-Nitrophenol	90.9	10	3.5	ug/l	100		91	50-120			
4-Nitrophenol	90.3	20	5.5	ug/l	100		90	45-120			
N-Nitrosodiphenylamine	94.4	10	2.0	ug/l	100		94	60-120			
N-Nitroso-di-n-propylamine	94.6	10	3.5	ug/l	100		95	45-120			
Pentachlorophenol	76.0	20	3.5	ug/l	100		76	50-120			
Phenanthrene	87.8	10	3.5	ug/l	100		88	65-120			
Phenol	84.3	10	2.0	ug/l	100		84	40-120			
Pyrene	112	10	4.0	ug/l	100		112	55-125			

TestAmerica Irvine

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MWH-Pasadena/Boeing
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Project ID: Annual Outfall 003
Report Number: IRB0148

Sampled: 02/03/08
Received: 02/03/08

METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8B04111 Extracted: 02/04/08											
LCS Analyzed: 02/07/2008 (8B04111-BS1)											
1,2,4-Trichlorobenzene	82.1	10	2.5	ug/l	100		82	45-120			
2,4,5-Trichlorophenol	94.0	20	3.0	ug/l	100		94	55-120			
2,4,6-Trichlorophenol	91.5	20	4.5	ug/l	100		92	55-120			
1,2-Diphenylhydrazine/Azobenzene	97.8	20	2.5	ug/l	100		98	60-120			
N-Nitrosodimethylamine	98.9	20	2.5	ug/l	100		99	45-120			
Surrogate: 2-Fluorophenol	*167*			*ug/l*	*200*		*83*	*30-120*			
Surrogate: Phenol-d6	*171*			*ug/l*	*200*		*86*	*35-120*			
Surrogate: 2,4,6-Tribromophenol	*153*			*ug/l*	*200*		*77*	*40-120*			
Surrogate: Nitrobenzene-d5	*89.0*			*ug/l*	*100*		*89*	*45-120*			
Surrogate: 2-Fluorobiphenyl	*87.6*			*ug/l*	*100*		*88*	*50-120*			
Surrogate: Terphenyl-d14	*100*			*ug/l*	*100*		*100*	*50-125*			
Matrix Spike Analyzed: 02/07/2008 (8B04111-MS1)						**Source: IRA3018-06**					
Acenaphthene	93.7	48	14	ug/l	95.2	ND	98	60-120			
Acenaphthylene	40.8	48	14	ug/l	95.2	ND	43	60-120			*M2, J*
Aniline	53.5	48	12	ug/l	95.2	ND	56	35-120			
Anthracene	84.9	48	9.5	ug/l	95.2	ND	89	65-120			
Benzidine	ND	95	40	ug/l	95.2	ND		30-160			*M2*
Benzoic acid	107	95	48	ug/l	95.2	ND	112	25-125			
Benzo(a)anthracene	89.0	48	9.5	ug/l	95.2	ND	94	65-120			
Benzo(b)fluoranthene	83.0	48	9.5	ug/l	95.2	ND	87	55-125			
Benzo(k)fluoranthene	95.6	48	12	ug/l	95.2	ND	100	55-125			
Benzo(g,h,i)perylene	68.7	48	19	ug/l	95.2	ND	72	45-135			
Benzo(a)pyrene	90.1	48	9.5	ug/l	95.2	ND	95	55-130			
Benzyl alcohol	34.9	95	12	ug/l	95.2	ND	37	40-120			*M2, J*
Bis(2-chloroethoxy)methane	76.3	48	14	ug/l	95.2	ND	80	50-120			
Bis(2-chloroethyl)ether	106	48	14	ug/l	95.2	ND	112	50-120			
Bis(2-chloroisopropyl)ether	86.9	48	12	ug/l	95.2	ND	91	45-120			
Bis(2-ethylhexyl)phthalate	91.0	240	19	ug/l	95.2	ND	96	65-130			*J*
4-Bromophenyl phenyl ether	75.0	48	14	ug/l	95.2	ND	79	60-120			
Butyl benzyl phthalate	92.6	95	19	ug/l	95.2	ND	97	55-130			*J*
4-Chloroaniline	19.6	48	9.5	ug/l	95.2	ND	21	55-120			*M2, J*
2-Chloronaphthalene	83.3	48	14	ug/l	95.2	ND	87	60-120			
4-Chloro-3-methylphenol	84.0	95	12	ug/l	95.2	ND	88	60-120			*J*
2-Chlorophenol	77.2	48	14	ug/l	95.2	ND	81	45-120			
4-Chlorophenyl phenyl ether	92.5	48	12	ug/l	95.2	ND	97	65-120			

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Attention: Bronwyn Kelly

Project ID: Annual Outfall 003
Report Number: IRB0148

Sampled: 02/03/08
Received: 02/03/08

METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8B04111 Extracted: 02/04/08											
Matrix Spike Analyzed: 02/07/2008 (8B04111-MS1)						**Source: IRA3018-06**					
Chrysene	85.3	48	12	ug/l	95.2	ND	90	65-120			
Dibenz(a,h)anthracene	71.9	95	14	ug/l	95.2	ND	76	45-135			*J*
Dibenzofuran	89.2	48	19	ug/l	95.2	ND	94	65-120			
Di-n-butyl phthalate	80.5	95	14	ug/l	95.2	ND	84	60-125			*J*
1,3-Dichlorobenzene	71.9	48	14	ug/l	95.2	ND	76	35-120			
1,4-Dichlorobenzene	181	48	12	ug/l	95.2	ND	190	35-120			*M1*
1,2-Dichlorobenzene	139	48	14	ug/l	95.2	65.3	78	40-120			
3,3-Dichlorobenzidine	ND	95	14	ug/l	95.2	ND		45-135			*M2*
2,4-Dichlorophenol	81.7	48	17	ug/l	95.2	ND	86	55-120			
Diethyl phthalate	89.8	48	17	ug/l	95.2	ND	94	55-120			
2,4-Dimethylphenol	83.3	95	17	ug/l	95.2	ND	87	40-120			*J*
Dimethyl phthalate	93.8	48	9.5	ug/l	95.2	ND	98	30-120			
4,6-Dinitro-2-methylphenol	121	95	19	ug/l	95.2	ND	128	45-120			*M1*
2,4-Dinitrophenol	112	95	38	ug/l	95.2	ND	118	40-120			
2,4-Dinitrotoluene	81.5	48	17	ug/l	95.2	ND	86	65-120			
2,6-Dinitrotoluene	81.5	48	9.5	ug/l	95.2	ND	86	65-120			
Di-n-octyl phthalate	87.2	95	17	ug/l	95.2	ND	92	65-135			*J*
Fluoranthene	82.8	48	14	ug/l	95.2	ND	87	60-120			
Fluorene	93.2	48	14	ug/l	95.2	ND	98	65-120			
Hexachlorobenzene	70.5	48	14	ug/l	95.2	ND	74	60-120			
Hexachlorobutadiene	73.3	48	19	ug/l	95.2	ND	77	40-120			
Hexachlorocyclopentadiene	67.8	95	24	ug/l	95.2	ND	71	25-120			*J*
Hexachloroethane	68.9	48	17	ug/l	95.2	ND	72	35-120			
Indeno(1,2,3-cd)pyrene	71.6	95	17	ug/l	95.2	ND	75	40-135			*J*
Isophorone	49.0	48	12	ug/l	95.2	ND	52	50-120			
2-Methylnaphthalene	86.2	48	9.5	ug/l	95.2	ND	90	55-120			
2-Methylphenol	84.3	48	14	ug/l	95.2	ND	88	50-120			
4-Methylphenol	75.9	48	14	ug/l	95.2	ND	80	50-120			
Naphthalene	82.8	48	14	ug/l	95.2	ND	87	55-120			
2-Nitroaniline	91.7	95	9.5	ug/l	95.2	ND	96	65-120			*J*
3-Nitroaniline	27.3	95	14	ug/l	95.2	ND	29	60-120			*M2, J*
4-Nitroaniline	51.6	95	19	ug/l	95.2	ND	54	55-125			*M2, J*
Nitrobenzene	80.4	95	12	ug/l	95.2	ND	84	55-120			*J*
2-Nitrophenol	75.0	48	17	ug/l	95.2	ND	79	50-120			
4-Nitrophenol	110	95	26	ug/l	95.2	ND	115	45-120			

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Attention: Bronwyn Kelly

Project ID: Annual Outfall 003
Report Number: IRB0148

Sampled: 02/03/08
Received: 02/03/08

METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8B04111 Extracted: 02/04/08											
Matrix Spike Analyzed: 02/07/2008 (8B04111-MS1)						**Source: IRA3018-06**					
N-Nitrosodiphenylamine	78.2	48	9.5	ug/l	95.2	ND	82	60-120			
N-Nitroso-di-n-propylamine	ND	48	17	ug/l	95.2	ND		45-120			*M2*
Pentachlorophenol	81.0	95	17	ug/l	95.2	ND	85	50-120			*J*
Phenanthrene	84.2	48	17	ug/l	95.2	ND	88	65-120			
Phenol	79.1	48	9.5	ug/l	95.2	ND	83	40-120			
Pyrene	100	48	19	ug/l	95.2	ND	105	55-125			
1,2,4-Trichlorobenzene	197	48	12	ug/l	95.2	130	71	45-120			
2,4,5-Trichlorophenol	88.3	95	14	ug/l	95.2	ND	93	55-120			*J*
2,4,6-Trichlorophenol	88.8	95	21	ug/l	95.2	ND	93	55-120			*J*
1,2-Diphenylhydrazine/Azobenzene	ND	95	12	ug/l	95.2	ND		60-120			*M2*
N-Nitrosodimethylamine	ND	95	12	ug/l	95.2	ND		45-120			*M2*
Surrogate: 2-Fluorophenol	*148*			*ug/l*	*190*		*77*	*30-120*			
Surrogate: Phenol-d6	*150*			*ug/l*	*190*		*78*	*35-120*			
Surrogate: 2,4,6-Tribromophenol	*147*			*ug/l*	*190*		*77*	*40-120*			
Surrogate: Nitrobenzene-d5	*74.0*			*ug/l*	*95.2*		*78*	*45-120*			
Surrogate: 2-Fluorobiphenyl	*80.5*			*ug/l*	*95.2*		*84*	*50-120*			
Surrogate: Terphenyl-d14	*92.3*			*ug/l*	*95.2*		*97*	*50-125*			
Matrix Spike Dup Analyzed: 02/07/2008 (8B04111-MSD1)						**Source: IRA3018-06**					
Acenaphthene	91.1	48	14	ug/l	95.2	ND	96	60-120	3	25	
Acenaphthylene	53.7	48	14	ug/l	95.2	ND	56	60-120	27	25	*M2, R-3*
Aniline	49.4	48	12	ug/l	95.2	ND	52	35-120	8	30	
Anthracene	82.0	48	9.5	ug/l	95.2	ND	86	65-120	3	25	
Benzidine	ND	95	40	ug/l	95.2	ND		30-160		35	*M2*
Benzoic acid	104	95	48	ug/l	95.2	ND	110	25-125	3	30	
Benzo(a)anthracene	83.4	48	9.5	ug/l	95.2	ND	88	65-120	7	20	
Benzo(b)fluoranthene	79.0	48	9.5	ug/l	95.2	ND	83	55-125	5	25	
Benzo(k)fluoranthene	87.0	48	12	ug/l	95.2	ND	91	55-125	9	30	
Benzo(g,h,i)perylene	65.9	48	19	ug/l	95.2	ND	69	45-135	4	30	
Benzo(a)pyrene	85.2	48	9.5	ug/l	95.2	ND	90	55-130	6	25	
Benzyl alcohol	36.6	95	12	ug/l	95.2	ND	38	40-120	5	30	*M2, J*
Bis(2-chloroethoxy)methane	70.4	48	14	ug/l	95.2	ND	74	50-120	8	25	
Bis(2-chloroethyl)ether	68.1	48	14	ug/l	95.2	ND	72	50-120	44	25	*R*
Bis(2-chloroisopropyl)ether	83.1	48	12	ug/l	95.2	ND	87	45-120	4	25	
Bis(2-ethylhexyl)phthalate	86.8	240	19	ug/l	95.2	ND	91	65-130	5	25	*J*
4-Bromophenyl phenyl ether	69.8	48	14	ug/l	95.2	ND	73	60-120	7	25	

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Report Number: IRB0148

Sampled: 02/03/08
Received: 02/03/08

METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8B04111 Extracted: 02/04/08											
Matrix Spike Dup Analyzed: 02/07/2008 (8B04111-MSD1)						**Source: IRA3018-06**					
Butyl benzyl phthalate	90.5	95	19	ug/l	95.2	ND	95	55-130	2	25	*J*
4-Chloroaniline	39.1	48	9.5	ug/l	95.2	ND	41	55-120	66	25	*M2, R-3, J*
2-Chloronaphthalene	78.2	48	14	ug/l	95.2	ND	82	60-120	6	20	
4-Chloro-3-methylphenol	82.4	95	12	ug/l	95.2	ND	86	60-120	2	25	*J*
2-Chlorophenol	69.2	48	14	ug/l	95.2	ND	73	45-120	11	25	
4-Chlorophenyl phenyl ether	84.3	48	12	ug/l	95.2	ND	88	65-120	9	25	
Chrysene	83.3	48	12	ug/l	95.2	ND	87	65-120	2	25	
Dibenz(a,h)anthracene	69.2	95	14	ug/l	95.2	ND	73	45-135	4	30	*J*
Dibenzofuran	82.9	48	19	ug/l	95.2	ND	87	65-120	7	25	
Di-n-butyl phthalate	77.4	95	14	ug/l	95.2	ND	81	60-125	4	25	*J*
1,3-Dichlorobenzene	64.5	48	14	ug/l	95.2	ND	68	35-120	11	25	
1,4-Dichlorobenzene	168	48	12	ug/l	95.2	ND	177	35-120	7	25	*M1*
1,2-Dichlorobenzene	123	48	14	ug/l	95.2	65.3	61	40-120	12	25	
3,3-Dichlorobenzidine	ND	95	14	ug/l	95.2	ND		45-135		25	*M2*
2,4-Dichlorophenol	76.4	48	17	ug/l	95.2	ND	80	55-120	7	25	
Diethyl phthalate	85.0	48	17	ug/l	95.2	ND	89	55-120	6	30	
2,4-Dimethylphenol	75.8	95	17	ug/l	95.2	ND	80	40-120	9	25	*J*
Dimethyl phthalate	87.5	48	9.5	ug/l	95.2	ND	92	30-120	7	30	
4,6-Dinitro-2-methylphenol	112	95	19	ug/l	95.2	ND	118	45-120	8	25	
2,4-Dinitrophenol	91.4	95	38	ug/l	95.2	ND	96	40-120	20	25	*J*
2,4-Dinitrotoluene	69.1	48	17	ug/l	95.2	ND	73	65-120	16	25	
2,6-Dinitrotoluene	77.2	48	9.5	ug/l	95.2	ND	81	65-120	5	20	
Di-n-octyl phthalate	81.3	95	17	ug/l	95.2	ND	85	65-135	7	20	*J*
Fluoranthene	79.0	48	14	ug/l	95.2	ND	83	60-120	5	25	
Fluorene	88.1	48	14	ug/l	95.2	ND	92	65-120	6	25	
Hexachlorobenzene	69.5	48	14	ug/l	95.2	ND	73	60-120	1	25	
Hexachlorobutadiene	66.5	48	19	ug/l	95.2	ND	70	40-120	10	25	
Hexachlorocyclopentadiene	41.9	95	24	ug/l	95.2	ND	44	25-120	47	30	*R, J*
Hexachloroethane	58.5	48	17	ug/l	95.2	ND	61	35-120	16	25	
Indeno(1,2,3-cd)pyrene	67.4	95	17	ug/l	95.2	ND	71	40-135	6	30	*J*
Isophorone	50.0	48	12	ug/l	95.2	ND	52	50-120	2	25	
2-Methylnaphthalene	79.4	48	9.5	ug/l	95.2	ND	83	55-120	8	20	
2-Methylphenol	73.3	48	14	ug/l	95.2	ND	77	50-120	14	25	
4-Methylphenol	70.0	48	14	ug/l	95.2	ND	74	50-120	8	25	
Naphthalene	82.0	48	14	ug/l	95.2	ND	86	55-120	1	25	

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Project ID: Annual Outfall 003
Report Number: IRB0148

Sampled: 02/03/08
Received: 02/03/08

METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8B04111 Extracted: 02/04/08											
Matrix Spike Dup Analyzed: 02/07/2008 (8B04111-MSD1)						**Source: IRA3018-06**					
2-Nitroaniline	85.6	95	9.5	ug/l	95.2	ND	90	65-120	7	25	*J*
3-Nitroaniline	18.4	95	14	ug/l	95.2	ND	19	60-120	39	25	*M2, R-3, J*
4-Nitroaniline	31.6	95	19	ug/l	95.2	ND	33	55-125	48	25	*M2, R-3, J*
Nitrobenzene	80.5	95	12	ug/l	95.2	ND	84	55-120	0	25	*J*
2-Nitrophenol	72.8	48	17	ug/l	95.2	ND	76	50-120	3	25	
4-Nitrophenol	134	95	26	ug/l	95.2	ND	141	45-120	20	30	*M1*
N-Nitrosodiphenylamine	60.8	48	9.5	ug/l	95.2	ND	64	60-120	25	25	
N-Nitroso-di-n-propylamine	ND	48	17	ug/l	95.2	ND		45-120		25	*M2*
Pentachlorophenol	76.7	95	17	ug/l	95.2	ND	80	50-120	5	25	*J*
Phenanthrene	79.1	48	17	ug/l	95.2	ND	83	65-120	6	25	
Phenol	69.3	48	9.5	ug/l	95.2	ND	73	40-120	13	25	
Pyrene	96.9	48	19	ug/l	95.2	ND	102	55-125	3	25	
1,2,4-Trichlorobenzene	182	48	12	ug/l	95.2	130	55	45-120	8	20	
2,4,5-Trichlorophenol	75.5	95	14	ug/l	95.2	ND	79	55-120	16	30	*J*
2,4,6-Trichlorophenol	80.5	95	21	ug/l	95.2	ND	84	55-120	10	30	*J*
1,2-Diphenylhydrazine/Azobenzene	ND	95	12	ug/l	95.2	ND		60-120		25	*M2*
N-Nitrosodimethylamine	ND	95	12	ug/l	95.2	ND		45-120		25	*M2*
Surrogate: 2-Fluorophenol	*138*			*ug/l*	*190*		*72*	*30-120*			
Surrogate: Phenol-d6	*132*			*ug/l*	*190*		*70*	*35-120*			
Surrogate: 2,4,6-Tribromophenol	*134*			*ug/l*	*190*		*70*	*40-120*			
Surrogate: Nitrobenzene-d5	*72.5*			*ug/l*	*95.2*		*76*	*45-120*			
Surrogate: 2-Fluorobiphenyl	*77.3*			*ug/l*	*95.2*		*81*	*50-120*			
Surrogate: Terphenyl-d14	*86.6*			*ug/l*	*95.2*		*91*	*50-125*			

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METHOD BLANK/QC DATA

ORGANOCHLORINE PESTICIDES (EPA 608)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8B04071 Extracted: 02/04/08											
Blank Analyzed: 02/06/2008 (8B04071-BLK1)											
Aldrin	ND	0.0050	0.0015	ug/l							
alpha-BHC	ND	0.0050	0.0025	ug/l							
beta-BHC	ND	0.010	0.0040	ug/l							
delta-BHC	ND	0.0050	0.0035	ug/l							
gamma-BHC (Lindane)	ND	0.010	0.0030	ug/l							
Chlordane	ND	0.10	0.030	ug/l							
4,4'-DDD	ND	0.0050	0.0020	ug/l							
4,4'-DDE	ND	0.0050	0.0030	ug/l							
4,4'-DDT	ND	0.010	0.0040	ug/l							
Dieldrin	ND	0.0050	0.0020	ug/l							
Endosulfan I	ND	0.0050	0.0020	ug/l							
Endosulfan II	ND	0.0050	0.0030	ug/l							
Endosulfan sulfate	ND	0.010	0.0030	ug/l							
Endrin	ND	0.0050	0.0020	ug/l							
Endrin aldehyde	ND	0.010	0.0020	ug/l							
Endrin ketone	ND	0.010	0.0030	ug/l							
Heptachlor	ND	0.010	0.0030	ug/l							
Heptachlor epoxide	ND	0.0050	0.0025	ug/l							
Methoxychlor	ND	0.0050	0.0035	ug/l							
Toxaphene	ND	0.10	0.070	ug/l							
Surrogate: Decachlorobiphenyl	*0.473*			*ug/l*	*0.500*		*95*	*45-120*			
Surrogate: Tetrachloro-m-xylene	*0.447*			*ug/l*	*0.500*		*89*	*35-115*			
LCS Analyzed: 02/05/2008 (8B04071-BS1)											**MNR1**
Aldrin	0.437	0.0050	0.0015	ug/l	0.500		87	40-115			
alpha-BHC	0.482	0.0050	0.0025	ug/l	0.500		96	45-115			
beta-BHC	0.475	0.010	0.0040	ug/l	0.500		95	55-115			
delta-BHC	0.490	0.0050	0.0035	ug/l	0.500		98	55-115			
gamma-BHC (Lindane)	0.485	0.010	0.0030	ug/l	0.500		97	45-115			
4,4'-DDD	0.490	0.0050	0.0020	ug/l	0.500		98	55-120			
4,4'-DDE	0.451	0.0050	0.0030	ug/l	0.500		90	50-120			
4,4'-DDT	0.494	0.010	0.0040	ug/l	0.500		99	55-120			
Dieldrin	0.472	0.0050	0.0020	ug/l	0.500		94	55-115			
Endosulfan I	0.440	0.0050	0.0020	ug/l	0.500		88	55-115			
Endosulfan II	0.476	0.0050	0.0030	ug/l	0.500		95	55-120			
Endosulfan sulfate	0.476	0.010	0.0030	ug/l	0.500		95	60-120			

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METHOD BLANK/QC DATA

ORGANOCHLORINE PESTICIDES (EPA 608)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8B04071 Extracted: 02/04/08											
LCS Analyzed: 02/05/2008 (8B04071-BS1)											**MNR1**
Endrin	0.482	0.0050	0.0020	ug/l	0.500		96	55-115			
Endrin aldehyde	0.449	0.010	0.0020	ug/l	0.500		90	50-120			
Endrin ketone	0.471	0.010	0.0030	ug/l	0.500		94	55-120			
Heptachlor	0.468	0.010	0.0030	ug/l	0.500		94	45-115			
Heptachlor epoxide	0.453	0.0050	0.0025	ug/l	0.500		91	55-115			
Methoxychlor	0.474	0.0050	0.0035	ug/l	0.500		95	60-120			
Surrogate: Decachlorobiphenyl	*0.464*			*ug/l*	*0.500*		*93*	*45-120*			
Surrogate: Tetrachloro-m-xylene	*0.433*			*ug/l*	*0.500*		*87*	*35-115*			
LCS Dup Analyzed: 02/05/2008 (8B04071-BSD1)											
Aldrin	0.433	0.0050	0.0015	ug/l	0.500		87	40-115	1	30	
alpha-BHC	0.474	0.0050	0.0025	ug/l	0.500		95	45-115	2	30	
beta-BHC	0.466	0.010	0.0040	ug/l	0.500		93	55-115	2	30	
delta-BHC	0.480	0.0050	0.0035	ug/l	0.500		96	55-115	2	30	
gamma-BHC (Lindane)	0.476	0.010	0.0030	ug/l	0.500		95	45-115	2	30	
4,4'-DDD	0.481	0.0050	0.0020	ug/l	0.500		96	55-120	2	30	
4,4'-DDE	0.450	0.0050	0.0030	ug/l	0.500		90	50-120	0	30	
4,4'-DDT	0.483	0.010	0.0040	ug/l	0.500		97	55-120	2	30	
Dieldrin	0.463	0.0050	0.0020	ug/l	0.500		93	55-115	2	30	
Endosulfan I	0.439	0.0050	0.0020	ug/l	0.500		88	55-115	0	30	
Endosulfan II	0.466	0.0050	0.0030	ug/l	0.500		93	55-120	2	30	
Endosulfan sulfate	0.466	0.010	0.0030	ug/l	0.500		93	60-120	2	30	
Endrin	0.471	0.0050	0.0020	ug/l	0.500		94	55-115	2	30	
Endrin aldehyde	0.441	0.010	0.0020	ug/l	0.500		88	50-120	2	30	
Endrin ketone	0.460	0.010	0.0030	ug/l	0.500		92	55-120	2	30	
Heptachlor	0.461	0.010	0.0030	ug/l	0.500		92	45-115	2	30	
Heptachlor epoxide	0.444	0.0050	0.0025	ug/l	0.500		89	55-115	2	30	
Methoxychlor	0.464	0.0050	0.0035	ug/l	0.500		93	60-120	2	30	
Surrogate: Decachlorobiphenyl	*0.453*			*ug/l*	*0.500*		*91*	*45-120*			
Surrogate: Tetrachloro-m-xylene	*0.430*			*ug/l*	*0.500*		*86*	*35-115*			

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Report Number: IRB0148

Sampled: 02/03/08
Received: 02/03/08

METHOD BLANK/QC DATA

TOTAL PCBS (EPA 608)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8B04071 Extracted: 02/04/08											
Blank Analyzed: 02/05/2008 (8B04071-BLK1)											
Aroclor 1016	ND	0.50	0.45	ug/l							
Aroclor 1221	ND	0.50	0.25	ug/l							
Aroclor 1232	ND	0.50	0.25	ug/l							
Aroclor 1242	ND	0.50	0.25	ug/l							
Aroclor 1248	ND	0.50	0.25	ug/l							
Aroclor 1254	ND	0.50	0.25	ug/l							
Aroclor 1260	ND	0.50	0.30	ug/l							
Surrogate: Decachlorobiphenyl	*0.484*			*ug/l*	*0.500*		*97*	*45-120*			
LCS Analyzed: 02/05/2008 (8B04071-BS2)											**MNR1**
Aroclor 1016	3.71	0.50	0.45	ug/l	4.00		93	50-115			
Aroclor 1260	3.92	0.50	0.30	ug/l	4.00		98	60-120			
Surrogate: Decachlorobiphenyl	*0.462*			*ug/l*	*0.500*		*92*	*45-120*			
LCS Dup Analyzed: 02/05/2008 (8B04071-BSD2)											
Aroclor 1016	3.60	0.50	0.45	ug/l	4.00		90	50-115	3	30	
Aroclor 1260	3.98	0.50	0.30	ug/l	4.00		100	60-120	2	25	
Surrogate: Decachlorobiphenyl	*0.489*			*ug/l*	*0.500*		*98*	*45-120*			

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8B04079 Extracted: 02/04/08											
Blank Analyzed: 02/04/2008 (8B04079-BLK1)											
Aluminum	ND	50	40	ug/l							
Arsenic	ND	10	7.0	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Boron	ND	0.050	0.020	mg/l							
Calcium	ND	0.10	0.050	mg/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Magnesium	ND	0.020	0.012	mg/l							
Nickel	ND	10	2.0	ug/l							
Selenium	ND	10	8.0	ug/l							
Silver	ND	10	6.0	ug/l							
Vanadium	ND	10	3.0	ug/l							
Zinc	ND	20	6.0	ug/l							
LCS Analyzed: 02/04/2008 (8B04079-BS1)											
Aluminum	524	50	40	ug/l	500		105	85-115			
Arsenic	504	10	7.0	ug/l	500		101	85-115			
Beryllium	510	2.0	0.90	ug/l	500		102	85-115			
Boron	0.514	0.050	0.020	mg/l	0.500		103	85-115			
Calcium	2.65	0.10	0.050	mg/l	2.50		106	85-115			
Chromium	517	5.0	2.0	ug/l	500		103	85-115			
Iron	0.529	0.040	0.015	mg/l	0.500		106	85-115			
Magnesium	2.63	0.020	0.012	mg/l	2.50		105	85-115			
Nickel	513	10	2.0	ug/l	500		103	85-115			
Selenium	492	10	8.0	ug/l	500		98	85-115			
Silver	262	10	6.0	ug/l	250		105	85-115			
Vanadium	503	10	3.0	ug/l	500		101	85-115			
Zinc	507	20	6.0	ug/l	500		101	85-115			

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METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8B04079 Extracted: 02/04/08											
Matrix Spike Analyzed: 02/04/2008 (8B04079-MS1)						**Source: IRB0153-01**					
Aluminum	611	50	40	ug/l	500	94.8	103	70-130			
Arsenic	496	10	7.0	ug/l	500	ND	99	70-130			
Beryllium	503	2.0	0.90	ug/l	500	ND	101	70-130			
Boron	0.503	0.050	0.020	mg/l	0.500	ND	101	70-130			
Calcium	53.7	0.10	0.050	mg/l	2.50	52.8	38	70-130			*MHA*
Chromium	502	5.0	2.0	ug/l	500	2.15	100	70-130			
Iron	0.590	0.040	0.015	mg/l	0.500	0.0952	99	70-130			
Magnesium	9.71	0.020	0.012	mg/l	2.50	7.62	84	70-130			
Nickel	495	10	2.0	ug/l	500	ND	99	70-130			
Selenium	470	10	8.0	ug/l	500	ND	94	70-130			
Silver	256	10	6.0	ug/l	250	ND	103	70-130			
Vanadium	487	10	3.0	ug/l	500	ND	97	70-130			
Zinc	496	20	6.0	ug/l	500	9.15	97	70-130			
Matrix Spike Analyzed: 02/04/2008 (8B04079-MS2)						**Source: IRB0155-01**					
Aluminum	1190	50	40	ug/l	500	692	100	70-130			
Arsenic	509	10	7.0	ug/l	500	ND	102	70-130			
Beryllium	515	2.0	0.90	ug/l	500	ND	103	70-130			
Boron	0.503	0.050	0.020	mg/l	0.500	ND	101	70-130			
Calcium	8.02	0.10	0.050	mg/l	2.50	5.65	95	70-130			
Chromium	522	5.0	2.0	ug/l	500	ND	104	70-130			
Iron	0.872	0.040	0.015	mg/l	0.500	0.382	98	70-130			
Magnesium	3.33	0.020	0.012	mg/l	2.50	0.768	102	70-130			
Nickel	515	10	2.0	ug/l	500	ND	103	70-130			
Selenium	487	10	8.0	ug/l	500	ND	97	70-130			
Silver	260	10	6.0	ug/l	250	ND	104	70-130			
Vanadium	501	10	3.0	ug/l	500	ND	100	70-130			
Zinc	538	20	6.0	ug/l	500	32.2	101	70-130			

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8B04079 Extracted: 02/04/08											
Matrix Spike Dup Analyzed: 02/04/2008 (8B04079-MSD1)						**Source: IRB0153-01**					
Aluminum	600	50	40	ug/l	500	94.8	101	70-130	2	20	
Arsenic	506	10	7.0	ug/l	500	ND	101	70-130	2	20	
Beryllium	516	2.0	0.90	ug/l	500	ND	103	70-130	3	20	
Boron	0.499	0.050	0.020	mg/l	0.500	ND	100	70-130	1	20	
Calcium	53.2	0.10	0.050	mg/l	2.50	52.8	19	70-130	1	20	*MHA*
Chromium	512	5.0	2.0	ug/l	500	2.15	102	70-130	2	20	
Iron	0.596	0.040	0.015	mg/l	0.500	0.0952	100	70-130	1	20	
Magnesium	9.64	0.020	0.012	mg/l	2.50	7.62	81	70-130	1	20	
Nickel	507	10	2.0	ug/l	500	ND	101	70-130	2	20	
Selenium	491	10	8.0	ug/l	500	ND	98	70-130	4	20	
Silver	256	10	6.0	ug/l	250	ND	102	70-130	0	20	
Vanadium	497	10	3.0	ug/l	500	ND	99	70-130	2	20	
Zinc	513	20	6.0	ug/l	500	9.15	101	70-130	3	20	
Batch: 8B04080 Extracted: 02/04/08											
Blank Analyzed: 02/04/2008-02/05/2008 (8B04080-BLK1)											
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: 02/04/2008-02/05/2008 (8B04080-BS1)											
Antimony	84.2	2.0	0.20	ug/l	80.0		105	85-115			
Cadmium	83.7	1.0	0.11	ug/l	80.0		105	85-115			
Copper	83.0	2.0	0.75	ug/l	80.0		104	85-115			
Lead	83.3	1.0	0.30	ug/l	80.0		104	85-115			
Thallium	83.4	1.0	0.20	ug/l	80.0		104	85-115			

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

Project ID: Annual Outfall 003
Report Number: IRB0148

Sampled: 02/03/08
Received: 02/03/08

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8B04080 Extracted: 02/04/08											
Matrix Spike Analyzed: 02/04/2008-02/05/2008 (8B04080-MS1)						**Source: IRB0150-01**					
Antimony	82.0	2.0	0.20	ug/l	80.0	0.423	102	70-130			
Cadmium	80.7	1.0	0.11	ug/l	80.0	0.208	101	70-130			
Copper	78.5	2.0	0.75	ug/l	80.0	1.69	96	70-130			
Lead	76.9	1.0	0.30	ug/l	80.0	0.512	96	70-130			
Thallium	79.0	1.0	0.20	ug/l	80.0	ND	99	70-130			
Matrix Spike Analyzed: 02/04/2008-02/05/2008 (8B04080-MS2)						**Source: IRB0152-01**					
Antimony	80.5	2.0	0.20	ug/l	80.0	1.58	99	70-130			
Cadmium	79.1	1.0	0.11	ug/l	80.0	0.164	99	70-130			
Copper	82.5	2.0	0.75	ug/l	80.0	4.75	97	70-130			
Lead	84.1	1.0	0.30	ug/l	80.0	6.01	98	70-130			
Thallium	80.7	1.0	0.20	ug/l	80.0	ND	101	70-130			
Matrix Spike Dup Analyzed: 02/04/2008-02/05/2008 (8B04080-MSD1)						**Source: IRB0150-01**					
Antimony	83.6	2.0	0.20	ug/l	80.0	0.423	104	70-130	2	20	
Cadmium	81.2	1.0	0.11	ug/l	80.0	0.208	101	70-130	1	20	
Copper	79.1	2.0	0.75	ug/l	80.0	1.69	97	70-130	1	20	
Lead	78.6	1.0	0.30	ug/l	80.0	0.512	98	70-130	2	20	
Thallium	80.1	1.0	0.20	ug/l	80.0	ND	100	70-130	1	20	

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DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8B04144 Extracted: 02/04/08											
Blank Analyzed: 02/05/2008 (8B04144-BLK1)											
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: 02/05/2008 (8B04144-BS1)											
Antimony	84.8	2.0	0.20	ug/l	80.0		106	85-115			
Cadmium	82.9	1.0	0.11	ug/l	80.0		104	85-115			
Copper	80.0	2.0	0.75	ug/l	80.0		100	85-115			
Lead	80.0	1.0	0.30	ug/l	80.0		100	85-115			
Thallium	82.5	1.0	0.20	ug/l	80.0		103	85-115			
Matrix Spike Analyzed: 02/05/2008 (8B04144-MS1)						**Source: IRB0073-01**					
Antimony	84.0	2.0	0.20	ug/l	80.0	0.305	105	70-130			
Cadmium	84.5	1.0	0.11	ug/l	80.0	0.221	105	70-130			
Copper	77.7	2.0	0.75	ug/l	80.0	1.70	95	70-130			
Lead	74.3	1.0	0.30	ug/l	80.0	ND	93	70-130			
Thallium	76.6	1.0	0.20	ug/l	80.0	ND	96	70-130			
Matrix Spike Dup Analyzed: 02/05/2008 (8B04144-MSD1)						**Source: IRB0073-01**					
Antimony	83.1	2.0	0.20	ug/l	80.0	0.305	103	70-130	1	20	
Cadmium	84.2	1.0	0.11	ug/l	80.0	0.221	105	70-130	0	20	
Copper	79.5	2.0	0.75	ug/l	80.0	1.70	97	70-130	2	20	
Lead	74.4	1.0	0.30	ug/l	80.0	ND	93	70-130	0	20	
Thallium	76.2	1.0	0.20	ug/l	80.0	ND	95	70-130	0	20	

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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: 8B05111 Extracted: 02/05/08											
Blank Analyzed: 02/06/2008 (8B05111-BLK1)											
Aluminum	ND	50	40	ug/l							
Arsenic	ND	10	7.0	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Boron	ND	0.050	0.020	mg/l							
Calcium	ND	0.10	0.050	mg/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Magnesium	ND	0.020	0.012	mg/l							
Nickel	ND	10	2.0	ug/l							
Selenium	ND	10	8.0	ug/l							
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							
Silver	ND	10	6.0	ug/l							
Vanadium	ND	10	3.0	ug/l							
Zinc	ND	20	6.0	ug/l							
LCS Analyzed: 02/06/2008 (8B05111-BS1)											
Aluminum	563	50	40	ug/l	500		113	85-115			
Arsenic	525	10	7.0	ug/l	500		105	85-115			
Beryllium	519	2.0	0.90	ug/l	500		104	85-115			
Boron	0.520	0.050	0.020	mg/l	0.500		104	85-115			
Calcium	2.67	0.10	0.050	mg/l	2.50		107	85-115			
Chromium	512	5.0	2.0	ug/l	500		102	85-115			
Iron	0.526	0.040	0.015	mg/l	0.500		105	85-115			
Magnesium	2.60	0.020	0.012	mg/l	2.50		104	85-115			
Nickel	515	10	2.0	ug/l	500		103	85-115			
Selenium	491	10	8.0	ug/l	500		98	85-115			
Silver	256	10	6.0	ug/l	250		102	85-115			
Vanadium	509	10	3.0	ug/l	500		102	85-115			
Zinc	509	20	6.0	ug/l	500		102	85-115			

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DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8B05111 Extracted: 02/05/08											
Matrix Spike Analyzed: 02/06/2008 (8B05111-MS1)						**Source: IRB0073-01**					
Aluminum	564	50	40	ug/l	500	62.5	100	70-130			
Arsenic	519	10	7.0	ug/l	500	ND	104	70-130			
Beryllium	513	2.0	0.90	ug/l	500	ND	103	70-130			
Boron	0.549	0.050	0.020	mg/l	0.500	0.0311	104	70-130			
Calcium	58.9	0.10	0.050	mg/l	2.50	55.2	147	70-130			*MHA*
Chromium	502	5.0	2.0	ug/l	500	ND	100	70-130			
Iron	0.554	0.040	0.015	mg/l	0.500	0.0302	105	70-130			
Magnesium	10.3	0.020	0.012	mg/l	2.50	7.52	112	70-130			
Nickel	514	10	2.0	ug/l	500	11.5	101	70-130			
Selenium	486	10	8.0	ug/l	500	ND	97	70-130			
Silver	257	10	6.0	ug/l	250	ND	103	70-130			
Vanadium	507	10	3.0	ug/l	500	ND	101	70-130			
Zinc	509	20	6.0	ug/l	500	11.6	99	70-130			
Matrix Spike Dup Analyzed: 02/06/2008 (8B05111-MSD1)						**Source: IRB0073-01**					
Aluminum	587	50	40	ug/l	500	62.5	105	70-130	4	20	
Arsenic	541	10	7.0	ug/l	500	ND	108	70-130	4	20	
Beryllium	518	2.0	0.90	ug/l	500	ND	104	70-130	1	20	
Boron	0.554	0.050	0.020	mg/l	0.500	0.0311	105	70-130	1	20	
Calcium	58.4	0.10	0.050	mg/l	2.50	55.2	125	70-130	1	20	*MHA*
Chromium	517	5.0	2.0	ug/l	500	ND	103	70-130	3	20	
Iron	0.565	0.040	0.015	mg/l	0.500	0.0302	107	70-130	2	20	
Magnesium	10.3	0.020	0.012	mg/l	2.50	7.52	112	70-130	0	20	
Nickel	530	10	2.0	ug/l	500	11.5	104	70-130	3	20	
Selenium	503	10	8.0	ug/l	500	ND	101	70-130	3	20	
Silver	262	10	6.0	ug/l	250	ND	105	70-130	2	20	
Vanadium	518	10	3.0	ug/l	500	ND	104	70-130	2	20	
Zinc	528	20	6.0	ug/l	500	11.6	103	70-130	4	20	

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8B04043 Extracted: 02/04/08											
Blank Analyzed: 02/04/2008 (8B04043-BLK1)											
Chloride	ND	0.50	0.25	mg/l							
Fluoride	ND	0.50	0.15	mg/l							
Nitrate/Nitrite-N	ND	0.26	0.15	mg/l							
Sulfate	ND	0.50	0.20	mg/l							
LCS Analyzed: 02/04/2008 (8B04043-BS1)											
Chloride	5.33	0.50	0.25	mg/l	5.00		107	90-110			
Fluoride	5.14	0.50	0.15	mg/l	5.00		103	90-110			
Sulfate	10.6	0.50	0.20	mg/l	10.0		106	90-110			*M-3*
Matrix Spike Analyzed: 02/04/2008 (8B04043-MS1)						**Source: IRB0146-01**					
Chloride	27.0	0.50	0.25	mg/l	5.00	21.6	109	80-120			
Fluoride	5.30	0.50	0.15	mg/l	5.00	0.288	100	80-120			
Matrix Spike Analyzed: 02/04/2008 (8B04043-MS2)						**Source: IRB0156-01**					
Chloride	27.7	0.50	0.25	mg/l	5.00	22.9	96	80-120			
Fluoride	5.01	0.50	0.15	mg/l	5.00	0.306	94	80-120			
Matrix Spike Dup Analyzed: 02/04/2008 (8B04043-MSD1)						**Source: IRB0146-01**					
Chloride	27.2	0.50	0.25	mg/l	5.00	21.6	112	80-120	1	20	
Fluoride	5.46	0.50	0.15	mg/l	5.00	0.288	103	80-120	3	20	
Batch: 8B04112 Extracted: 02/04/08											
Blank Analyzed: 02/04/2008 (8B04112-BLK1)											
Total Cyanide	ND	5.0	2.2	ug/l							

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8B04112 Extracted: 02/04/08											
LCS Analyzed: 02/04/2008 (8B04112-BS1)											
Total Cyanide	184	5.0	2.2	ug/l	200		92	90-110			
Matrix Spike Analyzed: 02/04/2008 (8B04112-MS1)						**Source: IRA3072-06**					
Total Cyanide	189	5.0	2.2	ug/l	200	ND	94	70-115			
Matrix Spike Dup Analyzed: 02/04/2008 (8B04112-MSD1)						**Source: IRA3072-06**					
Total Cyanide	189	5.0	2.2	ug/l	200	ND	95	70-115	0	15	
Batch: 8B04128 Extracted: 02/04/08											
Blank Analyzed: 02/04/2008 (8B04128-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 02/04/2008 (8B04128-BS1)											
Total Suspended Solids	971	10	10	mg/l	1000		97	85-115			
Duplicate Analyzed: 02/04/2008 (8B04128-DUP1)						**Source: IRB0070-02**					
Total Suspended Solids	ND	10	10	mg/l		ND				10	
Batch: 8B07122 Extracted: 02/07/08											
Blank Analyzed: 02/07/2008 (8B07122-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 02/07/2008 (8B07122-BS1)											
Total Dissolved Solids	990	10	10	mg/l	1000		99	90-110			

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8B07122 Extracted: 02/07/08											
Duplicate Analyzed: 02/07/2008 (8B07122-DUP1)						**Source: IRB0146-01**					
Total Dissolved Solids	296	10	10	mg/l		292			1	10	
Batch: 8B12073 Extracted: 02/12/08											
Blank Analyzed: 02/12/2008 (8B12073-BLK1)											
Perchlorate	ND	4.0	1.5	ug/l							
LCS Analyzed: 02/12/2008 (8B12073-BS1)											
Perchlorate	55.4	4.0	1.5	ug/l	50.0		111	85-115			
Matrix Spike Analyzed: 02/12/2008 (8B12073-MS1)						**Source: IRB0150-01**					
Perchlorate	50.5	4.0	1.5	ug/l	50.0	ND	101	80-120			
Matrix Spike Dup Analyzed: 02/12/2008 (8B12073-MSD1)						**Source: IRB0150-01**					
Perchlorate	50.8	4.0	1.5	ug/l	50.0	ND	102	80-120	1	20	
Batch: 8B12074 Extracted: 02/12/08											
Blank Analyzed: 02/12/2008 (8B12074-BLK1)											
Hexane Extractable Material (Oil & Grease)	ND	5.0	1.4	mg/l							
LCS Analyzed: 02/12/2008 (8B12074-BS1)											**MNR1**
Hexane Extractable Material (Oil & Grease)	20.0	5.0	1.4	mg/l	20.2		99	78-114			
LCS Dup Analyzed: 02/12/2008 (8B12074-BSD1)											
Hexane Extractable Material (Oil & Grease)	18.5	5.0	1.4	mg/l	20.2		92	78-114	8	11	

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METHOD BLANK/QC DATA

ORGANIC COMPOUNDS BY GC/MS (EPA 525.2)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: C8B0516 Extracted: 02/05/08											
Blank Analyzed: 02/07/2008 (C8B0516-BLK1)											
Chlorpyrifos	ND	1.0	0.10	ug/l							
Diazinon	ND	0.25	0.24	ug/l							
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*4.76*			*ug/l*	*5.00*		*95*	*70-130*			
Surrogate: Triphenylphosphate	*5.79*			*ug/l*	*5.00*		*116*	*70-130*			
Surrogate: Perylene-d12	*5.00*			*ug/l*	*5.00*		*100*	*70-130*			
LCS Analyzed: 02/07/2008 (C8B0516-BS1)											
Chlorpyrifos	5.48	1.0	0.10	ug/l	5.00		110	70-130			
Diazinon	3.82	0.25	0.24	ug/l	5.00		76	70-130			
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*4.66*			*ug/l*	*5.00*		*93*	*70-130*			
Surrogate: Triphenylphosphate	*5.66*			*ug/l*	*5.00*		*113*	*70-130*			
Surrogate: Perylene-d12	*4.87*			*ug/l*	*5.00*		*97*	*70-130*			
LCS Dup Analyzed: 02/07/2008 (C8B0516-BSD1)											
Chlorpyrifos	4.90	1.0	0.10	ug/l	5.00		98	70-130	11	10	*R-7*
Diazinon	3.82	0.25	0.24	ug/l	5.00		76	70-130	0	50	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*4.50*			*ug/l*	*5.00*		*90*	*70-130*			
Surrogate: Triphenylphosphate	*5.52*			*ug/l*	*5.00*		*110*	*70-130*			
Surrogate: Perylene-d12	*4.79*			*ug/l*	*5.00*		*96*	*70-130*			

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METHOD BLANK/QC DATA

Metals by EPA 200 Series Methods

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: W8B0171 Extracted: 02/06/08											
Blank Analyzed: 02/07/2008 (W8B0171-BLK1)											
Mercury, Dissolved	ND	0.20	0.050	ug/l							
Mercury, Total	ND	0.20	0.050	ug/l							
LCS Analyzed: 02/07/2008 (W8B0171-BS1)											
Mercury, Dissolved	1.04	0.20	0.050	ug/l	1.00		104	85-115			
Mercury, Total	1.04	0.20	0.050	ug/l	1.00		104	85-115			
Matrix Spike Analyzed: 02/07/2008 (W8B0171-MS1)						**Source: 8020543-01**					
Mercury, Dissolved	1.02	0.20	0.050	ug/l	1.00	ND	102	70-130			
Mercury, Total	1.02	0.20	0.050	ug/l	1.00	ND	102	70-130			
Matrix Spike Analyzed: 02/07/2008 (W8B0171-MS2)						**Source: 8020544-01**					
Mercury, Dissolved	1.05	0.20	0.050	ug/l	1.00	ND	105	70-130			
Mercury, Total	1.05	0.20	0.050	ug/l	1.00	ND	105	70-130			
Matrix Spike Dup Analyzed: 02/07/2008 (W8B0171-MSD1)						**Source: 8020543-01**					
Mercury, Dissolved	1.04	0.20	0.050	ug/l	1.00	ND	104	70-130	2	20	
Mercury, Total	1.04	0.20	0.050	ug/l	1.00	ND	104	70-130	2	20	
Matrix Spike Dup Analyzed: 02/07/2008 (W8B0171-MSD2)						**Source: 8020544-01**					
Mercury, Dissolved	1.05	0.20	0.050	ug/l	1.00	ND	105	70-130	0	20	
Mercury, Total	1.05	0.20	0.050	ug/l	1.00	ND	105	70-130	0	20	

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Compliance Check

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

LabNumber	Analysis	Analyte	Units	Result	MRL	Compliance Limit
IRB0148-01	1664-HEM	Hexane Extractable Material (Oil & Greas	mg/l	1.71	4.8	15
IRB0148-01	Antimony-200.8	Antimony	ug/l	0.42	2.0	6
IRB0148-01	Boron-200.7	Boron	mg/l	0.12	0.050	1
IRB0148-01	Cadmium-200.8	Cadmium	ug/l	0.19	1.0	4
IRB0148-01	Chloride - 300.0	Chloride	mg/l	17	0.50	150
IRB0148-01	Copper-200.8	Copper	ug/l	3.37	2.0	14
IRB0148-01	Fluoride-300.0	Fluoride	mg/l	0.36	0.50	1.6
IRB0148-01	Hg_w 245.1	Mercury, Total	ug/l	0.023	0.20	0.2
IRB0148-01	Lead-200.8	Lead	ug/l	0.12	1.0	5.2
IRB0148-01	Nickel-200.7	Nickel	ug/l	2.33	10	100
IRB0148-01	Nitrogen, NO3+NO2 -N	Nitrate/Nitrite-N	mg/l	1.76	0.26	10
IRB0148-01	Perchlorate 314.0-DEFAULT	Perchlorate	ug/l	0	4.0	6
IRB0148-01	Sulfate-300.0	Sulfate	mg/l	38	0.50	250
IRB0148-01	TDS - SM 2540C	Total Dissolved Solids	mg/l	284	10	850
IRB0148-01	Thallium-200.8	Thallium	ug/l	0.029	1.0	2

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

TestAmerica Irvine

Joseph Doak
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

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

Project ID: Annual Outfall 003
Report Number: IRB0148

Sampled: 02/03/08
Received: 02/03/08

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.
L6	Per the EPA methods, benzidine is known to be subject to oxidative losses during solvent concentration.
M1	The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
M2	The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
M-3	Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the Blank Spike (LCS).
MHA	Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
MNR1	There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
P	The sample, as received, was not preserved in accordance to the referenced analytical method.
pH	pH = 7
R	The RPD exceeded the method control limit due to sample matrix effects. The individual analyte QA/QC recoveries, however, were within acceptance limits.
R-3	The RPD exceeded the acceptance limit due to sample matrix effects.
R-7	LFB/LFBD RPD exceeded the acceptance limit. Recovery met acceptance criteria.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

ADDITIONAL COMMENTS

For 1,2-Diphenylhydrazine:

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

TestAmerica Irvine

Joseph Doak
Project Manager

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

Project ID: Annual Outfall 003

Report Number: IRB0148

Sampled: 02/03/08
Received: 02/03/08

Certification Summary

TestAmerica Irvine

Method	Matrix	Nelac	California
EPA 160.2	Water	X	X
EPA 1664A	Water		
EPA 200.7-Diss	Water	X	X
EPA 200.7	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
EPA 300.0	Water	X	X
EPA 314.0	Water	X	X
EPA 335.2	Water	X	X
EPA 608	Water	X	X
EPA 624	Water	X	X
EPA 625	Water	X	X
SM2340B	Water	X	X
SM2540C	Water	X	

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

Subcontracted Laboratories

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

Analysis Performed: Bioassay-7 dy Chrnic
Samples: IRB0148-01

Analysis Performed: Bioassay-Acute 96hr
Samples: IRB0148-01

TestAmerica Irvine

Joseph Doak
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

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

Project ID: Annual Outfall 003
Report Number: IRB0148

Sampled: 02/03/08
Received: 02/03/08

Eberline Services

2030 Wright Avenue - Richmond, CA 94804

Analysis Performed: Gamma Spec
Samples: IRB0148-01

Analysis Performed: Gross Alpha
Samples: IRB0148-01

Analysis Performed: Gross Beta
Samples: IRB0148-01

Analysis Performed: Radium, Combined
Samples: IRB0148-01

Analysis Performed: Strontium 90
Samples: IRB0148-01

Analysis Performed: Tritium
Samples: IRB0148-01

Analysis Performed: Uranium, Combined
Samples: IRB0148-01

TestAmerica - Ontario, CA *California Cert #1169, Arizona Cert #AZ0062, Nevada Cert #CA-242*

1014 E. Cooley Drive, Suite AB - Colton, CA 92324

Method Performed: EPA 525.2
Samples: IRB0148-01

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: IRB0148-01

Weck Laboratories, Inc

14859 E. Clark Avenue - City of Industry, CA 91745

Method Performed: EPA 245.1
Samples: IRB0148-01

TestAmerica Irvine

Joseph Doak
Project Manager

IRB01148

Test America Version 12/20/07 CHAIN OF CUSTODY FORM

IRB01148

Client Name/Address:	Project:
MWH-Arcadia 618 Michillinda Avenue, Suite 200 Arcadia, CA 91007 Test America Contact: Joseph Doak	Boeing-SSFL NPDES **Annual Outfall 003** Stormwater at RMHF
Project Manager: Bronwyn Kelly Sampler: MARISCAL, J. Barroso, K	Phone Number: (626) 568-6691 Fax Number: (626) 568-6515

ANALYSIS REQUIRED

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	Total Recoverable Metals: Sb, Cd, Cu, Pb, Hg, B, V Tl, Fe, Al, Ni, + PP, Hardness as Ca CO_3	TCDD (and all congeners)	Oil & Grease (1664-HEM)	Cl^-, SO_4, NO_3+NO_2-N, F Perchlorate	TDS, TSS	VOCs (624), xylenes + PP	VOCs A+A+2CVE	Pesticides/PCBs, Chlorpyrifos, Diazinon + PP	Gross Alpha(900.0), Gross Beta(900.0), Tritium (H-3) (906.0), Sr-90 (905.0), Total Combined Radium 226 (903.0 or 903.1) & Radium 228 (904.0), Uranium (908.0), K-40, CS-137 (901.0 or 901.1)	SVOCs (625) + PP	Acute and Chronic Toxicity	Cyanide	Total Dissolved Metals: Sb, Cd, Cu, Pb, Hg, B, V, Tl, Fe, Al, Ni + PP, Hardness as Ca CO_3	Comments
Outfall 003	W	1L Poly	1	02-03-08 1445	HNO_3	1A	X													
Outfall 003-Dup	W	1L Poly	1		HNO_3	1B	X													
Outfall 003	W	1L Amber	2		None	2A, 2B		X												
Outfall 003	W	1L Amber	2		HCl	3A, 3B			X											
Outfall 003	W	500 ml Poly	2		None	4A, 4B				X										
Outfall 003	W	500 ml Poly	2		None	5A, 5B					X									
Outfall 003	W	VOAs	3		HCl	6A, 6B, 6C						X								
Outfall 003	W	VOAs	3		None	7A, 7B, 7C							X							
Outfall 003	W	1L Amber	2		None	8A, 8B								X						
Outfall 003	W	2.5 Gal Cube 500 ml Amber	1 1		None None	9A 9B									X					Unfiltered and unpreserved analysis
Outfall 003	W	1L Amber	2		None	10A, 10B										X				
Outfall 003	W	1 Gal Poly	2		None	11A, 11B											X			
Outfall 003	W	500ml Poly	1		NaOH	12												X		
Outfall 003	W	1L Poly	1	02-03-08 1445	None	13													X	Filter w/in 24hrs of receipt at lab
Trip Blanks	W	VOAs	3		HCl	14A, 14B, 14C						X								
Trip Blanks	W	VOAs	3		None	15A, 15B, 15C							X							

Relinquished By	Date/Time:	Received By	Date/Time:
[signature]	02-03-08 1605	[signature]	2/3/08 1605
[signature]	2/3/08 1825		
		[signature]	2/3/08 18:25

Field readings: Temp = 50.9° pH = 8.1 Time of readings =

Turn around Time: (check)
24 Hours _____ 5 Days _____
48 Hours _____ 10 Days _____
72 Hours _____ Normal X

Sample Integrity: (check)
Intact X On Ice: 7.0/5.0

NPDES - 825

LABORATORY REPORT

Aquatic Testing Laboratories

"dedicated to providing quality aquatic toxicity testing"

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

Date: February 12, 2008

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

Laboratory No.: A-08020404-001
Sample ID.: IRB0148-01 (Outfall 003)

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.

Date Sampled:	02/03/08
Date Received:	02/04/08
Temp. Received:	4°C
Chlorine (TRC):	0.0 mg/l
Date Tested:	02/04/08 to 02/11/08

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

Fathead Minnow 96hr Percent Survival Bioassay (EPA Method 2000.0), *Ceriodaphnia dubia* Survival and Reproduction Test (EPA Method 1002).

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

Result Summary:

Acute:	**Survival**	**TUa**
Fathead Minnow:	100%	0.0
Chronic:	**NOEC**	**TUc**
Ceriodaphnia Survival:	100%	1.0
Ceriodaphnia Reproduction:	100%	1.0

Quality Control: Reviewed and approved by:

Joseph A. LeMay
Laboratory Director

NPDES - 826

FATHEAD MINNOW PERCENT SURVIVAL TEST
EPA Method 2000.0

Aquatic Testing Laboratories

Lab No.: A-08020404-001
Client/ID: TestAmerica - IRB0148-01 (Outfall 003) **Start Date: 02/04/2008**

TEST SUMMARY

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

Source: In-laboratory Culture.
Test type: Static-Renewal.
Test Protocol: EPA-821-R-02-012.
Endpoints: Percent Survival at 96 hrs.
Test chamber: 600 ml beakers.
Temperature: 20 +/- 1°C.
Number of fish per chamber: 10.
QA/QC Batch No.: RT-080204.

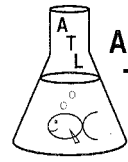
TEST DATA

		°C	DO	pH	# Dead A	# Dead B	Analyst & Time of Readings
INITIAL	Control	20.1	8.6	7.5	0	0	1400
	100%	19.4	9.9	7.6	0	0	
24 Hr	Control	19.3	7.8	7.5	0	0	1330
	100%	19.3	8.0	7.7	0	0	
48 Hr	Control	19.5	7.6	7.7	0	0	1400
	100%	19.5	7.3	7.9	0	0	
Renewal	Control	20.5	8.8	7.8	0	0	1400
	100%	19.6	11.1	7.6	0	0	
72 Hr	Control	19.3	8.0	7.4	0	0	1200
	100%	19.5	8.2	7.7	0	0	
96 Hr	Control	19.5	8.2	7.3	0	0	1300
	100%	19.7	8.2	7.7	0	0	

Comments:
Sample as received: Chlorine: 0.0 mg/l; pH: 7.6 ; Conductivity: 316 umho; Temp: 4°C;
DO: 9.9 mg/l; Alkalinity: 117 mg/l; Hardness: 170 mg/l; NH_3-N: 0.3 mg/l.
Sample aerated moderately (approx. 500 ml/min) to raise or lower DO? Yes / (No).
Control: Alkalinity: 64 mg/l; Hardness: 96 mg/l; Conductivity: 290 umho.
Test solution aerated (not to exceed 100 bubbles/min) to maintain DO >4.0 mg/l? Yes / (No).
Sample used for renewal is the original sample kept at 0-6°C with minimal headspace.
Dissolved Oxygen (DO) readings in mg/l O_2.

RESULTS

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



Aquatic
Testing
Laboratories

CERIODAPHNIA SURVIVAL AND REPRODUCTION TEST

- *Test and Results Summary*
- *Data Summary and Statistical Analyses*
- *Raw Test Data: Water Quality & Test Organism Measurements*

CERIODAPHNIA CHRONIC BIOASSAY
EPA METHOD 1002.0

Aquatic Testing Laboratories

Lab No.: A-08020404-001
Client/ID: Test America – IRB0148-01 (Outfall 003)

Date Tested: 02/04/08 to 02/11/08

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-080204.

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%	24.5
100% Sample	100%	25.5
Sample not statistically significantly less than Control 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 (24.5 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 = 4.5%)
Statistically significantly different concentrations relative difference >13%	Pass (no concentration significantly different)
Concentration response relationship acceptable	Pass (no significant response at concentration tested)

Ceriodaphnia Survival and Reproduction Test-7 Day Survival

Start Date:	2/4/2008 15:00	Test ID:	8020404c	Sample ID:	Outfall 003
End Date:	2/11/2008 14:00	Lab ID:	CAATL-Aquatic Testing Labs	Sample Type:	EFF2-Industrial
Sample Date:	2/3/2008 14:45	Protocol:	FWCH-EPA-821-R-02-013	Test Species:	CD-Ceriodaphnia dubia

Comments:

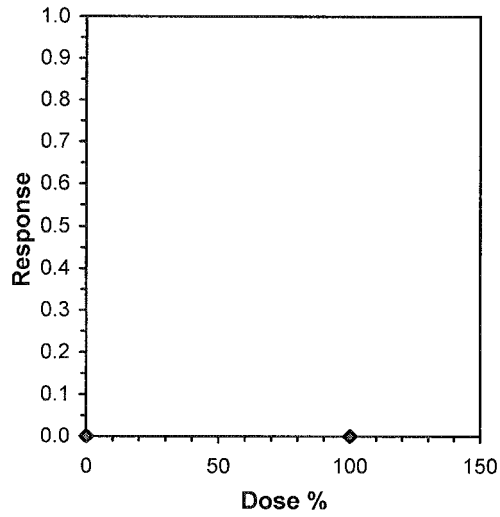
Conc-%	1	2	3	4	5	6	7	8	9	10
D-Control	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

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

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

Linear Interpolation (200 Resamples)

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



Ceriodaphnia Survival and Reproduction Test-Reproduction

Start Date:	2/4/2008 15:00	Test ID:	8020404c	Sample ID:	Outfall 003
End Date:	2/11/2008 14:00	Lab ID:	CAATL-Aquatic Testing Labs	Sample Type:	EFF2-Industrial
Sample Date:	2/3/2008 14:45	Protocol:	FWCH-EPA-821-R-02-013	Test Species:	CD-Ceriodaphnia dubia
Comments:					

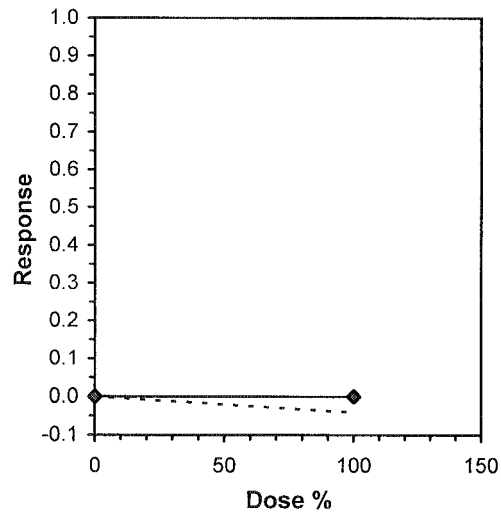
Conc-%	1	2	3	4	5	6	7	8	9	10
D-Control	25.000	25.000	22.000	24.000	26.000	26.000	27.000	25.000	24.000	21.000
100	27.000	25.000	26.000	25.000	24.000	26.000	25.000	25.000	26.000	26.000

			Transform: Untransformed						1-Tailed		Isotonic	
Conc-%	Mean	N-Mean	Mean	Min	Max	CV%	N	t-Stat	Critical	MSD	Mean	N-Mean
D-Control	24.500	1.0000	24.500	21.000	27.000	7.514	10				25.000	1.0000
100	25.500	1.0408	25.500	24.000	27.000	3.333	10	-1.560	1.734	1.112	25.000	1.0000

Auxiliary Tests	Statistic		Critical		Skew	Kurt
Shapiro-Wilk's Test indicates normal distribution (p > 0.05)	0.91796		0.905		-0.7747	1.20881
F-Test indicates equal variances (p = 0.03)	4.69231		6.54109			
Hypothesis Test (1-tail, 0.05)	**MSDu**	**MSDp**	**MSB**	**MSE**	**F-Prob**	**df**
Homoscedastic t Test indicates no significant differences	1.11185	0.04538	5	2.05556	0.13626	1, 18
Treatments vs D-Control						

Linear Interpolation (200 Resamples)

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



CERIODAPHNIA DUBIA CHRONIC BIOASSAY
EPA METHOD 1002.0 Raw Data Sheet

Aquatic Testing Laboratories

Lab No.: A-08020404-001
Client ID: TestAmerica - IRB0148-01 (Outfall 003)
Start Date: 02/04/2008

		DAY 1		DAY 2		DAY 3		DAY 4		DAY 5		DAY 6		DAY 7	
		0 hr	24hr	0 hr	24hr	0 hr	24hr	0 hr	24hr	0 hr	24hr	0 hr	24hr	0 hr	24hr
Analyst Initials:															
Time of Readings:		1500	1600	1600	1600	1600	1600	1600	1500	1500	1400	1400	1330	1330	1400
Control	DO	7.8	8.3	7.8	8.4	7.3	8.3	8.3	8.4	8.1	7.9	7.8	7.9	7.9	8.0
	pH	7.4	7.7	7.5	7.9	7.7	7.8	7.6	7.5	7.5	7.3	7.5	7.4	7.5	7.9
	Temp	24.9	24.2	24.9	24.7	25.3	24.9	25.6	25.0	25.2	25.2	25.3	24.5	24.5	24.2
100%	DO	9.2	8.2	10.4	8.5	10.4	8.3	10.9	8.4	11.6	9.9	11.0	9.8	10.9	8.1
	pH	7.4	7.9	7.4	8.0	7.6	8.0	7.3	7.8	7.3	7.3	7.4	7.3	7.4	8.0
	Temp	24.4	24.1	24.6	24.7	24.6	24.9	25.0	24.8	24.7	25.0	24.6	25.0	25.0	24.2

Additional Parameters	Control	100% Sample
Conductivity (umohms)	301	316
Alkalinity (mg/l $CaCO_3$)	68	117
Hardness (mg/l $CaCO_3$)	98	170
Ammonia (mg/l NH_3-N)	<0.1	0.3

Source of Neonates

Replicate:	A	B	C	D	E	F	G	H	I	J
Brood ID:	3A	3C	3D	3E	3I	4A	4C	4E	4G	4H

Sample	Day	Number of Young Produced										Total Live Young	No. Live Adults	Analyst Initials
		A	B	C	D	E	F	G	H	I	J			
Control	1	0	0	0	0	0	0	0	0	0	0	0	10	
	2	0	0	0	0	0	0	0	0	0	0	0	10	
	3	4	3	2	3	3	3	3	3	3	4	31	10	
	4	6	0	0	0	0	7	7	0	0	0	20	10	
	5	0	6	8	7	6	16	0	6	7	5	61	10	
	6	15	0	0	14	0	0	17	0	0	0	46	10	
	7	(15)	16	12	0	17	(16)	(19)	16	14	12	87	10	
	Total	25	25	22	24	26	26	27	25	24	21	245	10	
100%	1	0	0	0	0	0	0	0	0	0	0	0	10	
	2	0	0	0	0	0	0	0	0	0	0	0	10	
	3	4	3	2	3	2	2	2	2	3	3	26	10	
	4	6	7	7	8	6	7	7	6	6	7	67	10	
	5	0	0	0	0	0	0	0	0	17	16	33	10	
	6	12	0	17	0	0	0	0	0	0	0	34	10	
	7	(20)	15	(16)	14	16	17	16	17	(19)	(16)	95	10	
	Total	27	25	26	25	24	26	25	25	26	26	255	10	

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

SUBCONTRACT ORDER

TestAmerica Irvine

IRB0148

SENDING LABORATORY:

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

RECEIVING LABORATORY:

Aquatic Testing Laboratories-SUB
4350 Transport Street, Unit 107
Ventura, CA 93003
Phone :(805) 650-0546
Fax: (805) 650-0756
Project Location: California
Receipt Temperature: 4 °C Ice: (Y) / N

Analysis	Units	Due	Expires	Comments
Sample ID: IRB0148-01	**Water**		Sampled: **02/03/08 14:45**	
Bioassay-7 dy Chrnic	N/A	02/13/08	02/05/08 02:45	Cerio, EPA/821-R02-013, Sub to AqTox Labs
Bioassay-Acute 96hr	% Survival	02/13/08	02/05/08 02:45	FH minnow, EPA/821-R02-012, Sub to AqTox Labs
Level 4 Data Package - Out	N/A	02/13/08	03/02/08 14:45	

Containers Supplied:
1 gal Poly (W) 1 gal Poly (X)

Released By	Date/Time	Received By	Date/Time
	2/4/8 1100		2/4/8 705
Released By	Date/Time	Received By	Date/Time
		ATL	2-4-8 1100

NPDES - 833

Aquatic
Testing
Laboratories

REFERENCE TOXICANT DATA

FATHEAD MINNOW ACUTE
Method 2000.0
Reference Toxicant - SDS

Aquatic Testing Laboratories

QA/QC Batch No.: RT-080204

\TEST SUMMARY

Species: *Pimephales promelas.*
Age: 14 days old.
Regulations: NPDES.
Test chamber volume: 250 ml.
Feeding: Prior to renewal at 48 hrs.
Temperature: 20 +/- 1°C.
Number of replicates: 2.
Dilution water: MHSF.

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

TEST DATA

	INITIAL			24 Hr					48 Hr				
Date/Time:	2-4-8 1430			2-5-08 1330					2-6-08 1430				
Analyst:													
	°C	DO	pH	°C	DO	pH	# Dead A	# Dead B	°C	DO	pH	# Dead A	# Dead B
Control	19.8	8.4	7.4	19.1	7.9	7.5	0	0	19.4	7.2	7.6	0	0
1.0 mg/l	19.9	8.4	7.5	19.1	7.8	7.4	0	0	19.4	6.9	7.6	0	0
2.0 mg/l	19.9	8.5	7.5	19.0	7.6	7.4	0	0	19.4	6.6	7.5	0	0
4.0 mg/l	20.0	8.5	7.5	19.0	8.0	7.4	0	1	19.4	6.7	7.5	2	0
8.0 mg/l	20.0	8.6	7.5	19.1	8.0	7.4	10	10	—	—	—	—	—

	RENEWAL			72 Hr					96 Hr				
Date/Time:	2-6-08 1430			2-7-08 1200					2-8-08 1300				
Analyst:													
	°C	DO	pH	°C	DO	pH	# Dead A	# Dead B	°C	DO	pH	# Dead A	# Dead B
Control	20.3	8.9	7.8	19.4	7.5	7.7	0	0	19.2	8.0	7.5	0	0
1.0 mg/l	20.3	8.9	7.8	19.3	7.5	7.6	0	0	19.2	8.0	7.5	0	0
2.0 mg/l	20.3	8.8	7.8	19.3	7.7	7.5	0	0	19.3	8.1	7.4	0	0
4.0 mg/l	20.3	8.8	7.8	19.3	7.6	7.5	0	0	19.3	8.2	7.4	0	1
8.0 mg/l	—	—	—	—	—	—	—	—	—	—	—	—	—

Comments: Control: Alkalinity: 64 mg/l; Hardness: 96 mg/l; Conductivity: 289 umho.
SDS: Alkalinity: 64 mg/l; Hardness: 97 mg/l; Conductivity: 290 umho.

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

Acute Fish Test-96 Hr Survival

Start Date:	2/4/2008 14:30	Test ID:	RT-080204	Sample ID:	REF-Ref Toxicant
End Date:	2/8/2008 13:00	Lab ID:	CAATL-Aquatic Testing Labs	Sample Type:	SDS-Sodium dodecyl sulfate
Sample Date:	2/4/2008	Protocol:	ACUTE-EPA-821-R-02-012	Test Species:	PP-Pimephales promelas
Comments:					

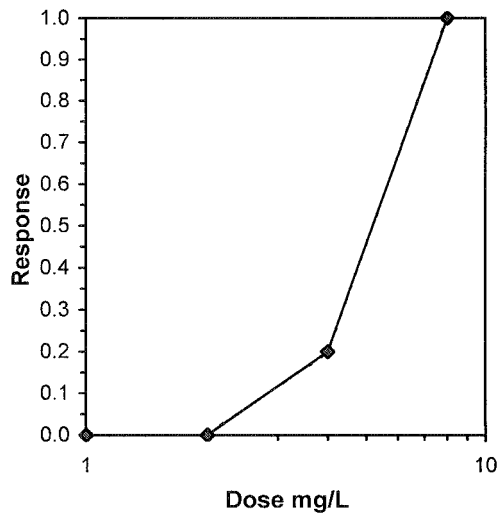
Conc-mg/L	1	2
D-Control	1.0000	1.0000
1	1.0000	1.0000
2	1.0000	1.0000
4	0.8000	0.8000
8	0.0000	0.0000

			Transform: Arcsin Square Root					Number	Total
Conc-mg/L	Mean	N-Mean	Mean	Min	Max	CV%	N	Resp	Number
D-Control	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	2	0	20
1	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	2	0	20
2	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	2	0	20
4	0.8000	0.8000	1.1071	1.1071	1.1071	0.000	2	4	20
8	0.0000	0.0000	0.1588	0.1588	0.1588	0.000	2	20	20

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

Trimmed Spearman-Karber

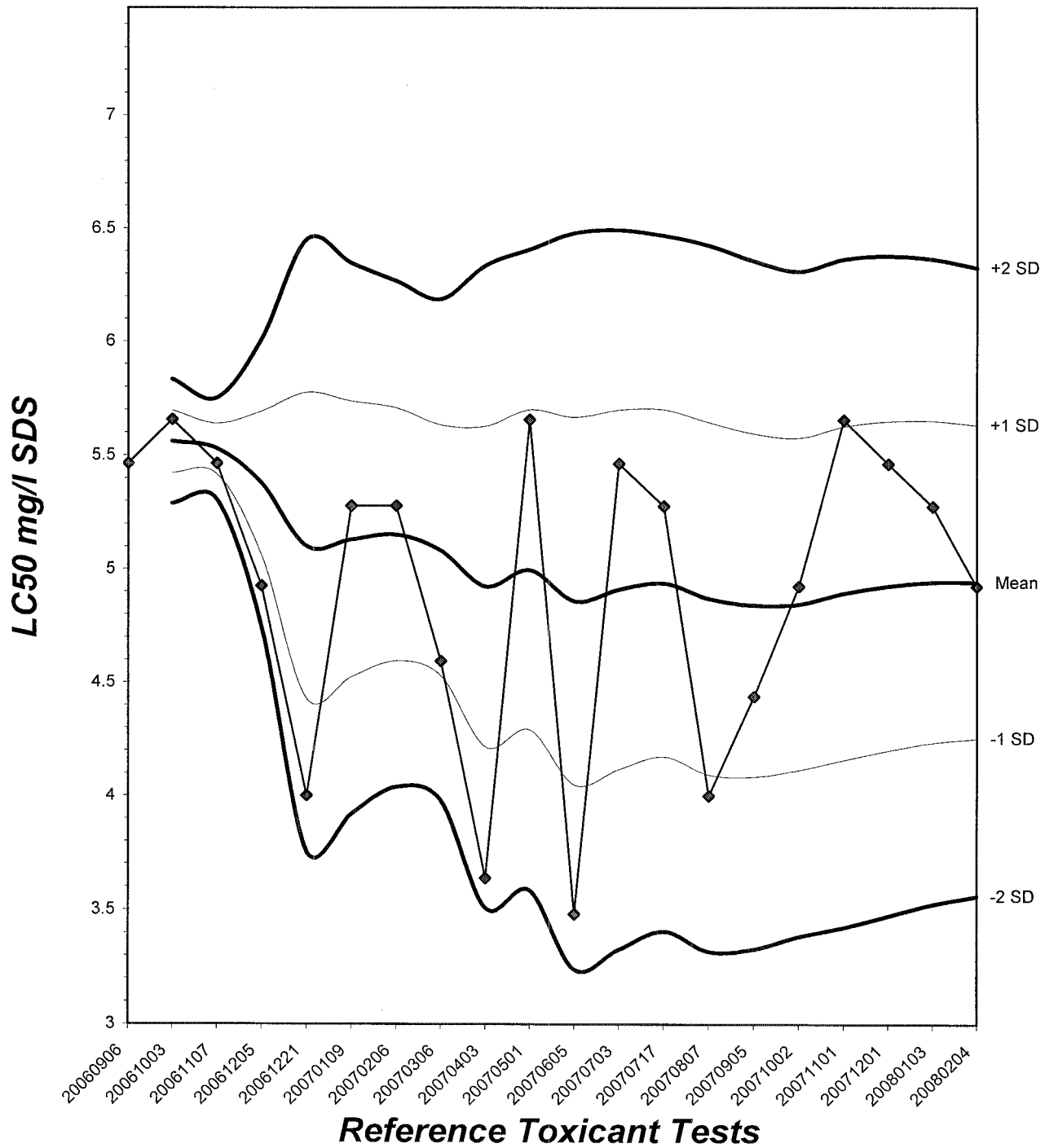
Trim Level	EC50	95% CL	
0.0%	4.9246	4.3503	5.5747
5.0%	5.0215	4.3576	5.7866
10.0%	5.1038	4.2923	6.0686
20.0%	5.1874	4.7084	5.7150
Auto-0.0%	4.9246	4.3503	5.5747



Reviewed by: _____

Fathead Minnow Acute Laboratory Control Chart

CV% = 14



TEST ORGANISM LOG

Aquatic Testing Laboratories

FATHEAD MINNOW - LARVAL
(*Pimephales promelas*)

QA/QC BATCH NO.: RT-080204

SOURCE: In-Lab Culture

DATE HATCHED: 01-21-08

APPROXIMATE QUANTITY: 400

GENERAL APPEARANCE: good

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

DATE USED IN LAB: 2/4/08

AVERAGE FISH WEIGHT: 0.006 **gm**

TEST LOADING LIMITS: 0.65 gm/liter

200 ml test solution volume = 0.013 gm mean fish weight limit
250 ml test solution volume = 0.016 gm mean fish weight limit

ACCLIMATION WATER QUALITY:

Temp.: 19.8 **°C** **pH:** 7.4 **Ammonia:** <0.1 **mg/l NH_3-N**

DO: 8.4 **mg/l** **Alkalinity:** 64 **mg/l** **Hardness:** 96 **mg/l**

READINGS RECORDED BY: _____ **DATE:** 2-4-8

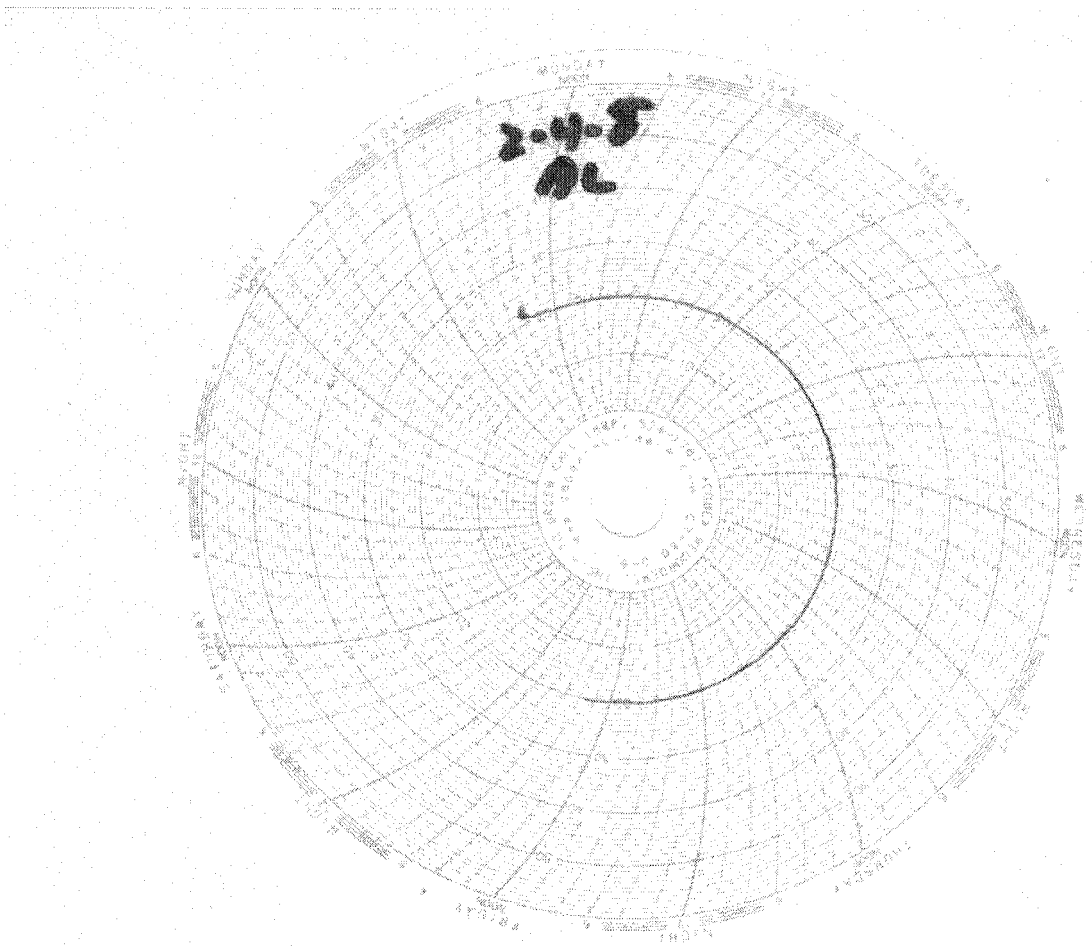
Aquatic Testing Laboratories

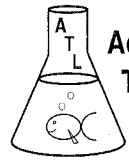
Laboratory Temperature Chart

QA/QC Batch No: RT-080202

Date Tested: 02/02/08 to 02/06/08

Acceptable Range: 20+/- 1°C





Aquatic
Testing
Laboratories

CERIODAPHNIA SURVIVAL AND REPRODUCTION TEST

- *Test and Results Summary*
- *Data Summary and Statistical Analyses*
- *Raw Test Data: Water Quality & Test Organism Measurements*

CERIODAPHNIA CHRONIC BIOASSAY
EPA METHOD 1002.0
REFERENCE TOXICANT - NaCl

Aquatic Testing Laboratories

QA/QC Batch No.: RT-080204

Date Tested: 02/04/08 to 02/11/08

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: 7 days.
Statistics: ToxCalc computer program.

RESULTS SUMMARY

Sample Concentration	Percent Survival		Mean Number of Young Per Female	
Control	100%		25.3	
0.25 g/l	100%		26.4	
0.5 g/l	100%		26.5	
1.0 g/l	100%		18.5	*
2.0 g/l	90%		7.2	*
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.

CHRONIC TOXICITY

Survival LC50	2.6 g/l
Reproduction IC25	0.93 g/l

QA/QC TEST ACCEPTABILITY

Parameter	Result
Control survival ≥80%	Pass (100% Survival)
≥15 young per surviving control female	Pass (25.3 young)
≥60% surviving controls had 3 broods	Pass (100% with 3 broods)
PMSD <47% for reproduction	Pass (PMSD = 9.9%)
Stat. sig. diff. conc. relative difference >13%	Pass (Stat. sig. diff. conc. = 26.9%)
Concentration response relationship acceptable	Pass (Response curve normal)

Ceriodaphnia Survival and Reproduction Test-7 Day Survival

Start Date:	2/4/2008 15:00	Test ID:	RT-080204c	Sample ID:	REF-Ref Toxicant
End Date:	2/11/2008 14:00	Lab ID:	CAATL-Aquatic Testing Labs	Sample Type:	NACL-Sodium chloride
Sample Date:	2/4/2008	Protocol:	FWCH-EPA-821-R-02-013	Test Species:	CD-Ceriodaphnia dubia
Comments:					

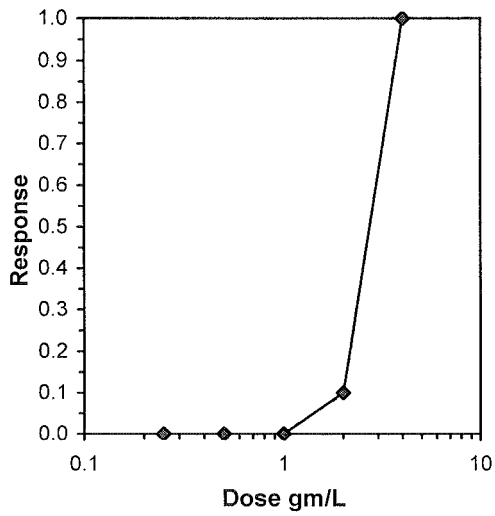
Conc-gm/L	1	2	3	4	5	6	7	8	9	10
D-Control	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
0.25	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
0.5	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
1	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000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

Conc-gm/L	Mean	N-Mean	Resp	Not Resp	Total	N	Fisher's Exact P	1-Tailed Critical	Number Resp	Total Number
D-Control	1.0000	1.0000	0	10	10	10			0	10
0.25	1.0000	1.0000	0	10	10	10	1.0000	0.0500	0	10
0.5	1.0000	1.0000	0	10	10	10	1.0000	0.0500	0	10
1	1.0000	1.0000	0	10	10	10	1.0000	0.0500	0	10
2	0.9000	0.9000	1	9	10	10	0.5000	0.0500	1	10
4	0.0000	0.0000	10	0	10	10			10	10

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

Trimmed Spearman-Karber

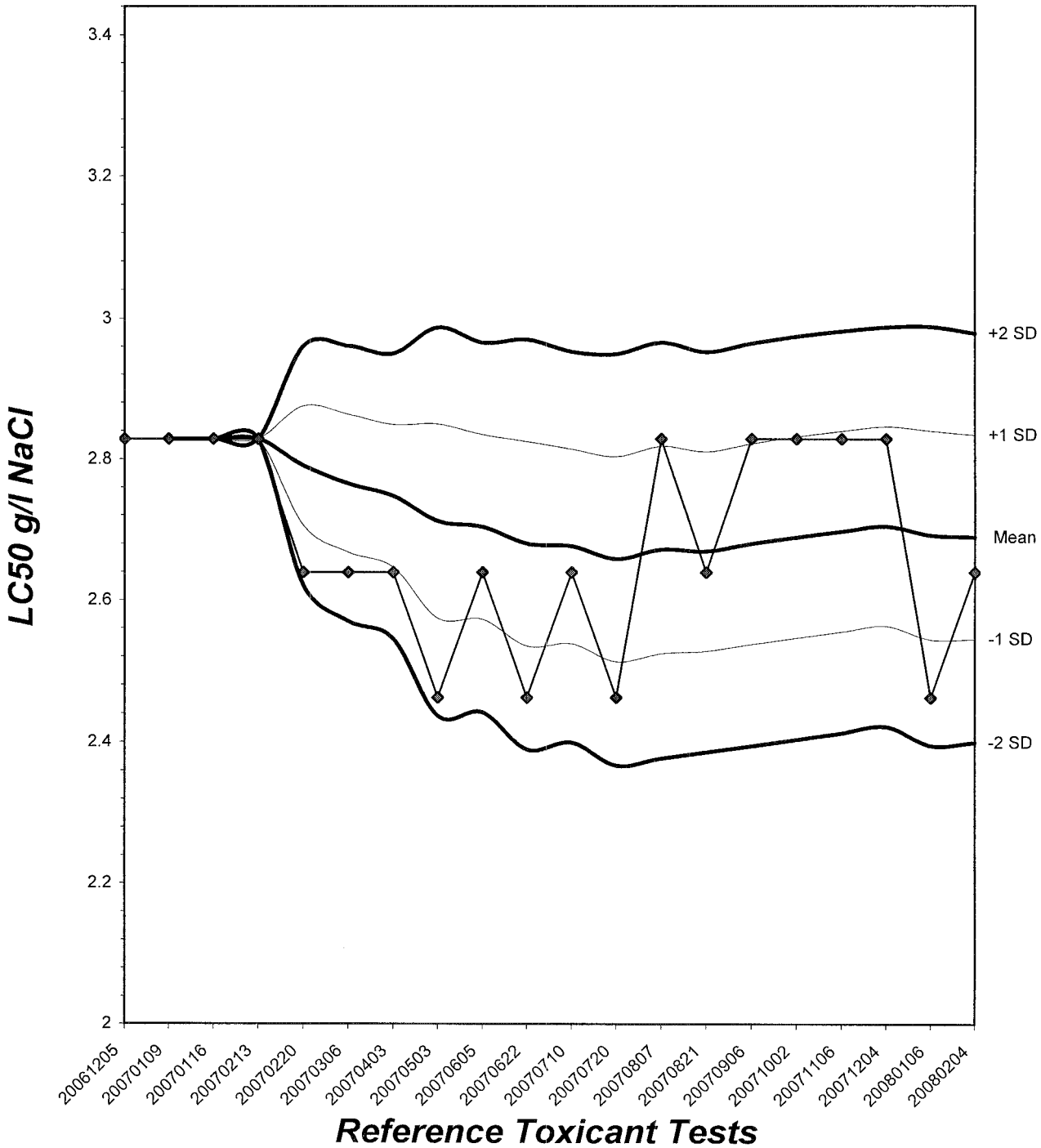
Trim Level	EC50	95% CL	
0.0%	2.6390	2.3138	3.0099
5.0%	2.6984	2.2899	3.1798
10.0%	2.7216	2.5094	2.9517
20.0%	2.7216	2.5094	2.9517
Auto-0.0%	2.6390	2.3138	3.0099



NPDES - 842

Ceriodaphnia Chronic Survival Laboratory Control Chart

CV% = 5.38



Ceriodaphnia Survival and Reproduction Test-Reproduction

Start Date:	2/4/2008 15:00	Test ID:	RT-080204c	Sample ID:	REF-Ref Toxicant
End Date:	2/11/2008 14:00	Lab ID:	CAATL-Aquatic Testing Labs	Sample Type:	NACL-Sodium chloride
Sample Date:	2/4/2008	Protocol:	FWCH-EPA-821-R-02-013	Test Species:	CD-Ceriodaphnia dubia
Comments:					

Conc-gm/L	1	2	3	4	5	6	7	8	9	10
D-Control	24.000	22.000	25.000	29.000	25.000	25.000	24.000	26.000	27.000	26.000
0.25	25.000	26.000	29.000	27.000	26.000	25.000	27.000	27.000	25.000	27.000
0.5	25.000	27.000	26.000	30.000	25.000	27.000	27.000	28.000	26.000	24.000
1	19.000	22.000	24.000	17.000	14.000	18.000	20.000	18.000	16.000	17.000
2	12.000	8.000	4.000	4.000	3.000	2.000	6.000	12.000	11.000	10.000
4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

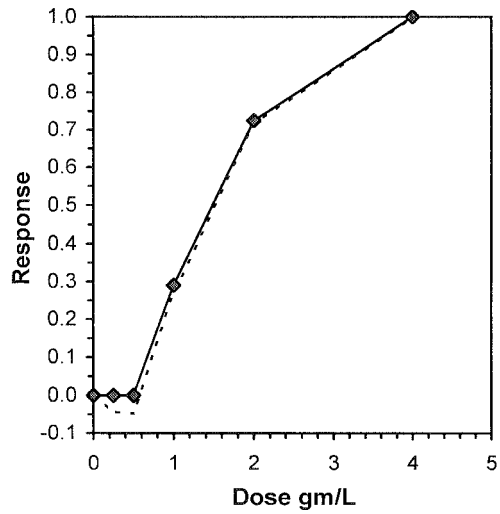
			Transform: Untransformed					Rank	1-Tailed	Isotonic	
Conc-gm/L	Mean	N-Mean	Mean	Min	Max	CV%	N	Sum	Critical	Mean	N-Mean
D-Control	25.300	1.0000	25.300	22.000	29.000	7.465	10			26.067	1.0000
0.25	26.400	1.0435	26.400	25.000	29.000	4.791	10	126.00	76.00	26.067	1.0000
0.5	26.500	1.0474	26.500	24.000	30.000	6.475	10	124.50	76.00	26.067	1.0000
*1	18.500	0.7312	18.500	14.000	24.000	15.759	10	57.50	76.00	18.500	0.7097
*2	7.200	0.2846	7.200	2.000	12.000	53.911	10	55.00	76.00	7.200	0.2762
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 normal distribution (p > 0.05)	0.96604	0.947	0.25066	0.00896
Bartlett's Test indicates unequal variances (p = 9.42E-03)	13.4148	13.2767		

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

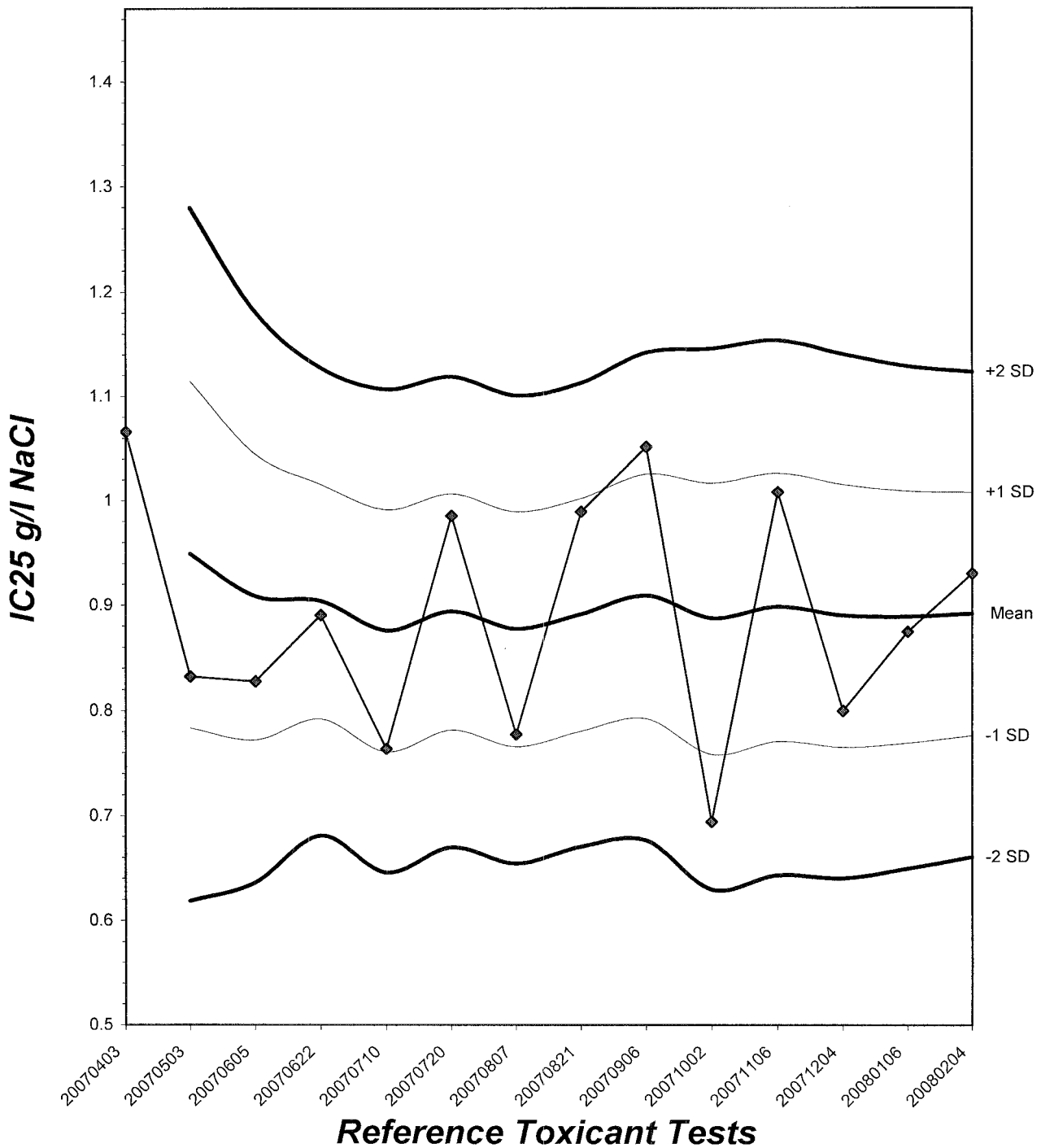
Linear Interpolation (200 Resamples)

Point	gm/L	SD	95% CL		Skew
IC05	0.5861	0.0133	0.5527	0.6099	-0.7096
IC10	0.6722	0.0221	0.6345	0.7198	0.3536
IC15	0.7584	0.0319	0.7090	0.8296	0.5420
IC20	0.8445	0.0421	0.7795	0.9395	0.5923
IC25	0.9306	0.0516	0.8512	1.0476	0.5147
IC40	1.2531	0.0676	1.1276	1.3772	-0.0019
IC50	1.4838	0.0691	1.3665	1.6234	0.2328



Ceriodaphnia Chronic Reproduction Laboratory Control Chart

CV% = 13



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

Aquatic Testing Laboratories

QA/QC No.: RT-080204

Start Date: 02/04/2008

Sample	Day	Number of Young Produced										Total Live Young	No. Live Adults	Analyst Initials
		A	B	C	D	E	F	G	H	I	J			
Control	1	0	0	0	0	0	0	0	0	0	0	0	10	
	2	0	0	0	0	0	0	0	0	0	0	0	10	
	3	4	3	3	4	4	3	3	4	3	3	34	10	
	4	0	7	6	0	0	0	0	0	0	0	13	10	
	5	6	12	0	10	6	5	7	6	9	7	68	10	
	6	14	0	0	15	0	0	0	16	0	0	45	10	
	7	(16)	(15)	16	0	15	17	14	0	15	16	93	10	
	Total	24	22	25	29	25	25	24	26	27	26	253	10	
0.25 g/l	1	0	0	0	0	0	0	0	0	0	0	0	10	
	2	0	0	0	0	0	0	0	0	0	0	0	10	
	3	3	3	4	5	3	3	3	5	3	3	35	10	
	4	0	7	8	0	0	0	0	0	0	0	15	10	
	5	6	0	17	10	8	6	7	7	8	7	76	10	
	6	0	16	0	12	15	16	17	0	0	0	76	10	
	7	16	(14)	(16)	(15)	(16)	0	0	15	14	17	62	10	
	Total	25	26	29	27	26	25	27	27	25	27	264	10	
0.5 g/l	1	0	0	0	0	0	0	0	0	0	0	0	10	
	2	0	0	0	0	0	0	0	0	0	0	0	10	
	3	3	4	3	5	3	4	4	5	3	3	37	10	
	4	0	8	0	0	0	0	0	0	0	0	8	10	
	5	6	15	7	8	7	6	7	8	8	7	79	10	
	6	16	0	0	17	0	0	0	15	0	0	+2748	10	
	7	(15)	(17)	16	(12)	15	17	16	(18)	15	14	93	10	
	Total	25	27	26	30	25	27	27	28	26	24	265	10	

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

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

Aquatic Testing Laboratories

QA/QC No.: RT-080204

Start Date: 02/04/2008

Sample	Day	Number of Young Produced										Total Live Young	No. Live Adults	Analyst Initials
		A	B	C	D	E	F	G	H	I	J			
1.0 g/l	1	0	0	0	0	0	0	0	0	0	0	0	10	
	2	0	0	0	0	0	0	0	0	0	0	0	10	
	3	2	3	2	2	2	2	3	3	3	3	25	10	
	4	0	0	6	0	4	5	0	0	0	0	15	10	
	5	5	6	16	5	0	0	4	5	4	5	50	10	
	6	12	13	0	10	0	11	13	10	0	0	69	10	
	7	(13)	(12)	(10)	(9)	8	0	0	0	9	9	26	10	
	Total	19	22	24	17	14	18	20	18	16	17	185	10	
2.0 g/l	1	0	0	0	0	0	0	0	0	0	0	0	10	
	2	0	0	0	0	0	0	0	0	0	0	0	10	
	3	0	2	2	0	0	0	2	3	3	2	14	10	
	4	3	0	0	2	3	2	0	0	0	0	10	10	
	5	0	3	2	0	0	0	2	4	3	4	18	10	
	6	5	3	0	0	X	0	0	5	0	0	13	9	
	7	4	(4)	0	2	—	0	2	(5)	5	4	17	9	
	Total	12	8	4	4	3	2	6	12	11	10	72	9	
4.0 g/l	1	X	X	X	X	X	X	X	X	X	X	0	0	
	2	—	—	—	—	—	—	—	—	—	—	—	—	—
	3	—	—	—	—	—	—	—	—	—	—	—	—	—
	4	—	—	—	—	—	—	—	—	—	—	—	—	—
	5	—	—	—	—	—	—	—	—	—	—	—	—	—
	6	—	—	—	—	—	—	—	—	—	—	—	—	—
	7	—	—	—	—	—	—	—	—	—	—	—	—	—
	Total	0	0	0	0	0	0	0	0	0	0	0	0	

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

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

Aquatic Testing Laboratories

QA/QC No.: RT-080204

Start Date: 02/04/2008

		DAY 1		DAY 2		DAY 3		DAY 4		DAY 5		DAY 6		DAY 7	
		Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final
Analyst Initials:															
Time of Readings:		1500	1600	1600	1600	1600	1600	1600	1520	1520	1400	1400	1352	1357	1400
Control	DO	7.7	8.3	7.8	8.4	7.3	8.2	8.3	8.0	8.1	8.0	7.8	80	7.7	8.1
	pH	7.4	8.0	7.5	7.8	7.7	7.7	7.6	7.7	7.5	7.9	7.5	7.8	7.5	7.9
	Temp	24.4	24.5	24.9	24.4	25.2	24.7	25.6	24.4	25.2	25.0	25.3	24.6	25.0	24.3
0.25 g/l	DO	7.7	8.3	7.9	8.4	7.3	8.3	8.3	8.0	8.1	8.0	7.8	80	7.8	8.3
	pH	7.5	8.0	7.6	7.8	7.7	7.8	7.6	7.7	7.5	7.9	7.5	7.9	7.5	7.9
	Temp	24.5	24.5	24.9	24.3	25.3	24.7	25.6	24.4	25.2	25.0	25.4	24.7	25.0	24.2
0.5 g/l	DO	7.7	8.4	7.9	8.3	7.3	8.3	8.3	8.1	8.1	8.0	7.8	7.9	7.8	8.4
	pH	7.6	8.0	7.7	7.9	7.7	7.8	7.7	7.7	7.5	8.0	7.5	7.9	7.6	7.9
	Temp	24.6	24.5	24.8	24.3	25.3	24.7	25.7	24.5	25.3	25.0	25.4	24.6	25.0	24.5
1.0 g/l	DO	7.8	8.4	7.9	8.3	7.3	8.2	8.3	8.1	8.1	8.1	7.8	80	7.9	8.4
	pH	7.6	8.1	7.7	7.9	7.7	7.8	7.7	7.7	7.5	8.0	7.5	7.9	7.6	8.0
	Temp	24.6	24.5	24.7	24.3	25.4	24.8	25.7	24.5	25.3	25.1	25.5	24.8	25.1	24.7
2.0 g/l	DO	7.8	8.4	7.9	8.2	7.3	8.2	8.3	8.2	8.0	8.1	7.8	80	7.8	8.4
	pH	7.7	8.1	7.7	7.9	7.7	7.8	7.7	7.7	7.5	8.0	7.5	8.0	7.5	7.9
	Temp	24.6	24.5	24.6	24.4	25.6	24.8	25.5	24.5	25.4	25.1	25.6	24.7	25.1	24.7
4.0 g/l	DO	7.9	8.3	—	—	—	—	—	—	—	—	—	—	—	—
	pH	7.7	8.1	—	—	—	—	—	—	—	—	—	—	—	—
	Temp	25.0	24.5	—	—	—	—	—	—	—	—	—	—	—	—

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

Additional Parameters	Control			High Concentration		
	Day 1	Day 3	Day 5	Day 1	Day 3	Day 5
Conductivity (µS)	301	290	285	6420	3370	3210
Alkalinity (mg/l $CaCO_3$)	68	64	64	69	65	65
Hardness (mg/l $CaCO_3$)	98	96	95	99	98	97

Source of Neonates

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

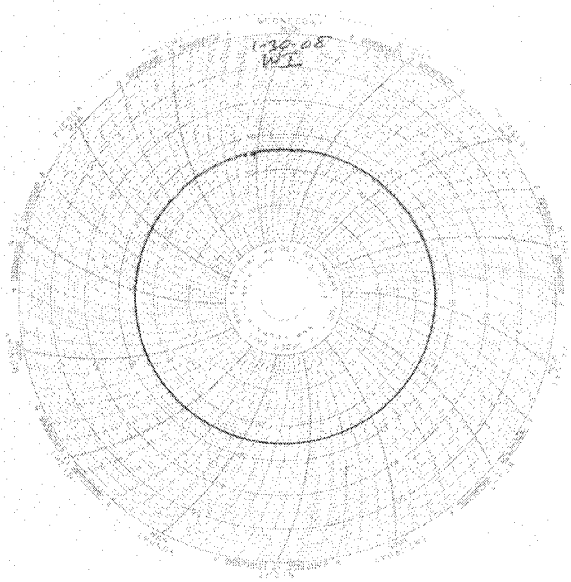
Aquatic Testing Laboratories

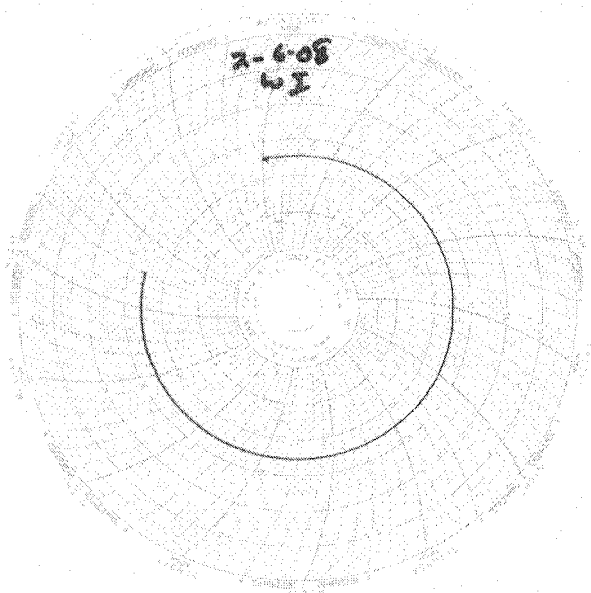
Laboratory Temperature Chart

QA/QC Batch No: RT-080204

Date Tested: 02/04/08 to 02/11/08

Acceptable Range: 25+/- 1°C





Vista
Analytical Laboratory

February 23, 2008

Vista Project I.D.: 30226

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 February 05, 2008 under your Project Name "IRB0148". 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,

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: **2/5/2008**

Vista Lab. ID	Client Sample ID
30226-001	IRB0148-01

SECTION II

Method Blank **EPA Method 1613**

Matrix: Aqueous QC Batch No.: 9953 Lab Sample: 0-MB001

Sample Size: 1.00 L Date Extracted: 15-Feb-08 Date Analyzed DB-5: 19-Feb-08 Date Analyzed DB-225: NA

Analyte	Conc. (ug/L)	DL [a]	EMPC [b]	Qualifiers
2,3,7,8-TCDD	ND	0.000000705		
1,2,3,7,8-PeCDD	ND	0.000000681		
1,2,3,4,7,8-HxCDD	ND	0.00000165		
1,2,3,6,7,8-HxCDD	ND	0.00000174		
1,2,3,7,8,9-HxCDD	ND	0.00000162		
1,2,3,4,6,7,8-HpCDD	ND	0.00000511		
OCDD	0.00000899			J
2,3,7,8-TCDF	ND	0.000000647		
1,2,3,7,8-PeCDF	ND	0.000000731		
2,3,4,7,8-PeCDF	ND	0.000000752		
1,2,3,4,7,8-HxCDF	ND	0.000000943		
1,2,3,6,7,8-HxCDF	ND	0.000000974		
2,3,4,6,7,8-HxCDF	ND	0.00000105		
1,2,3,7,8,9-HxCDF	ND	0.00000136		
1,2,3,4,6,7,8-HpCDF	ND	0.00000333		
1,2,3,4,7,8,9-HpCDF	ND	0.00000202		
OCDF	ND	0.00000591		

	Labeled Standard	%R	LCL-UCL [d]	Qualifiers
IS	13C-2,3,7,8-TCDD	82.9	25 - 164	
	13C-1,2,3,7,8-PeCDD	75.4	25 - 181	
	13C-1,2,3,4,7,8-HxCDD	81.7	32 - 141	
	13C-1,2,3,6,7,8-HxCDD	83.0	28 - 130	
	13C-1,2,3,4,6,7,8-HpCDD	85.6	23 - 140	
	13C-OCDD	73.4	17 - 157	
	13C-2,3,7,8-TCDF	88.8	24 - 169	
	13C-1,2,3,7,8-PeCDF	74.4	24 - 185	
	13C-2,3,4,7,8-PeCDF	77.1	21 - 178	
	13C-1,2,3,4,7,8-HxCDF	75.8	26 - 152	
	13C-1,2,3,6,7,8-HxCDF	77.6	26 - 123	
	13C-2,3,4,6,7,8-HxCDF	78.0	28 - 136	
	13C-1,2,3,7,8,9-HxCDF	81.9	29 - 147	
	13C-1,2,3,4,6,7,8-HpCDF	75.7	28 - 143	
	13C-1,2,3,4,7,8,9-HpCDF	82.1	26 - 138	
	13C-OCDF	76.2	17 - 157	
CRS	37Cl-2,3,7,8-TCDD	85.1	35 - 197	

Totals			
Total TCDD	ND	0.000000705	
Total PeCDD	ND	0.00000122	
Total HxCDD	ND	0.00000167	
Total HpCDD	ND	0.00000511	
Total TCDF	ND	0.000000647	
Total PeCDF	ND	0.000000742	
Total HxCDF	ND	0.00000107	
Total HpCDF	ND	0.00000335	

Footnotes

a. Sample specific estimated detection limit.

b. Estimated maximum possible concentration.

c. Method detection limit.

d. Lower control limit - upper control limit.

Analyst: MAS Approved By: William J. Luksemburg 22-Feb-2008 15:48

OPR Results **EPA Method 1613**

Matrix:	Aqueous	QC Batch No.:	9953	Lab Sample:	0-OPR001		
Sample Size:	1.00 L	Date Extracted:	15-Feb-08	Date Analyzed DB-5:	18-Feb-08	Date Analyzed DB-225:	NA

Analyte	Spike Conc.	Conc. (ng/mL)	OPR Limits		Labeled Standard	%R	LCL-UCL	Qualifier
2,3,7,8-TCDD	10.0	9.20	6.7 - 15.8	IS	13C-2,3,7,8-TCDD	85.8	25 - 164	
1,2,3,7,8-PeCDD	50.0	46.7	35 - 71		13C-1,2,3,7,8-PeCDD	77.1	25 - 181	
1,2,3,4,7,8-HxCDD	50.0	47.0	35 - 82		13C-1,2,3,4,7,8-HxCDD	82.8	32 - 141	
1,2,3,6,7,8-HxCDD	50.0	47.2	38 - 67		13C-1,2,3,6,7,8-HxCDD	84.0	28 - 130	
1,2,3,7,8,9-HxCDD	50.0	47.7	32 - 81		13C-1,2,3,4,6,7,8-HpCDD	88.0	23 - 140	
1,2,3,4,6,7,8-HpCDD	50.0	46.1	35 - 70		13C-OCDD	78.1	17 - 157	
OCDD	100	94.4	78 - 144		13C-2,3,7,8-TCDF	90.2	24 - 169	
2,3,7,8-TCDF	10.0	8.71	7.5 - 15.8		13C-1,2,3,7,8-PeCDF	76.3	24 - 185	
1,2,3,7,8-PeCDF	50.0	45.3	40 - 67		13C-2,3,4,7,8-PeCDF	79.4	21 - 178	
2,3,4,7,8-PeCDF	50.0	45.1	34 - 80		13C-1,2,3,4,7,8-HxCDF	78.9	26 - 152	
1,2,3,4,7,8-HxCDF	50.0	46.8	36 - 67		13C-1,2,3,6,7,8-HxCDF	80.4	26 - 123	
1,2,3,6,7,8-HxCDF	50.0	46.8	42 - 65		13C-2,3,4,6,7,8-HxCDF	79.1	28 - 136	
2,3,4,6,7,8-HxCDF	50.0	47.3	35 - 78		13C-1,2,3,7,8,9-HxCDF	84.1	29 - 147	
1,2,3,7,8,9-HxCDF	50.0	46.1	39 - 65		13C-1,2,3,4,6,7,8-HpCDF	78.2	28 - 143	
1,2,3,4,6,7,8-HpCDF	50.0	46.8	41 - 61		13C-1,2,3,4,7,8,9-HpCDF	85.9	26 - 138	
1,2,3,4,7,8,9-HpCDF	50.0	46.7	39 - 69		13C-OCDF	82.2	17 - 157	
OCDF	100	93.5	63 - 170	CRS	37Cl-2,3,7,8-TCDD	88.4	35 - 197	

Analyst: MAS

Approved By: William J. Luksemburg 22-Feb-2008 15:48

Sample ID: **IRB0148-01** **EPA Method 1613**

Client Data		Sample Data		Laboratory Data			
Name:	Test America-Irvine, CA	Matrix:	Aqueous	Lab Sample:	30226-001	Date Received:	5-Feb-08
Project:	IRB0148	Sample Size:	1.00 L	QC Batch No.:	9953	Date Extracted:	15-Feb-08
Date Collected:	3-Feb-08			Date Analyzed DB-5:	19-Feb-08	Date Analyzed DB-225:	NA
Time Collected:	1445						

Analyte	Conc. (ug/L)	DL [a]	EMPC[b]	Qualifiers
2,3,7,8-TCDD	ND	0.000000433		
1,2,3,7,8-PeCDD	ND	0.000000534		
1,2,3,4,7,8-HxCDD	ND	0.00000110		
1,2,3,6,7,8-HxCDD	ND	0.00000112		
1,2,3,7,8,9-HxCDD	ND	0.00000106		
1,2,3,4,6,7,8-HpCDD	0.00000442			J
OCDD	0.0000240			J,B
2,3,7,8-TCDF	ND	0.000000522		
1,2,3,7,8-PeCDF	ND	0.000000731		
2,3,4,7,8-PeCDF	ND	0.000000723		
1,2,3,4,7,8-HxCDF	ND	0.000000471		
1,2,3,6,7,8-HxCDF	ND	0.000000493		
2,3,4,6,7,8-HxCDF	ND	0.000000533		
1,2,3,7,8,9-HxCDF	ND	0.000000703		
1,2,3,4,6,7,8-HpCDF	ND	0.00000121		
1,2,3,4,7,8,9-HpCDF	ND	0.00000107		
OCDF	ND	0.00000387		

	Labeled Standard	%R	LCL-UCL[d]	Qualifiers
IS	13C-2,3,7,8-TCDD	87.4	25 - 164	
	13C-1,2,3,7,8-PeCDD	78.0	25 - 181	
	13C-1,2,3,4,7,8-HxCDD	82.4	32 - 141	
	13C-1,2,3,6,7,8-HxCDD	82.0	28 - 130	
	13C-1,2,3,4,6,7,8-HpCDD	85.6	23 - 140	
	13C-OCDD	73.8	17 - 157	
	13C-2,3,7,8-TCDF	92.7	24 - 169	
	13C-1,2,3,7,8-PeCDF	76.0	24 - 185	
	13C-2,3,4,7,8-PeCDF	78.7	21 - 178	
	13C-1,2,3,4,7,8-HxCDF	77.3	26 - 152	
	13C-1,2,3,6,7,8-HxCDF	77.5	26 - 123	
	13C-2,3,4,6,7,8-HxCDF	77.4	28 - 136	
	13C-1,2,3,7,8,9-HxCDF	81.2	29 - 147	
	13C-1,2,3,4,6,7,8-HpCDF	76.0	28 - 143	
	13C-1,2,3,4,7,8,9-HpCDF	80.5	26 - 138	
	13C-OCDF	77.6	17 - 157	
CRS	37Cl-2,3,7,8-TCDD	87.2	35 - 197	

Totals			
Total TCDD	ND	0.000000433	
Total PeCDD	ND	0.00000130	
Total HxCDD	ND	0.00000163	
Total HpCDD	0.00000781		
Total TCDF	ND	0.000000522	
Total PeCDF	ND	0.000000727	
Total HxCDF	ND	0.000000545	
Total HpCDF	ND	0.00000202	

Footnotes

a. Sample specific estimated detection limit.

b. Estimated maximum possible concentration.

c. Method detection limit.

d. Lower control limit - upper control limit.

Analyst: MAS

Approved By: William J. Luksemburg 22-Feb-2008 15:48

APPENDIX

DATA QUALIFIERS & ABBREVIATIONS

B	**This compound was also detected in the method blank.**
D	**Dilution**
E	**The amount detected is above the High Calibration Limit.**
P	**The amount reported is the maximum possible concentration due to possible chlorinated diphenylether interference.**
H	**The signal-to-noise ratio is greater than 10:1.**
I	**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

IRB0148 30226

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:

Vista Analytical Laboratory- SUB 1.6°C
1104 Windfield Way
El Dorado Hills, CA 95762
Phone :(916) 673-1520
Fax: (916) 673-0106
Project Location: California
Receipt Temperature: _____ °C Ice: Y / N

Analysis	Units	Due	Expires	Comments
Sample ID: IRB0148-01	**Water**		Sampled: **02/03/08 14:45**	
1613-Dioxin-HR-Alta	ug/l	02/13/08	02/10/08 14:45	J flags,17 congeners,no TEQ,ug/L,sub=Vista
Level 4 + EDD-OUT	N/A	02/13/08	03/02/08 14:45	Excel EDD email to pm,Include Std logs for Lvl IV
Containers Supplied:				
1 L Amber (C)	1 L Amber (D)			

Released By	Date/Time	Received By	Date/Time
	2/4/08 17:00	FedEx	2/4/08 17:00
Released By	Date/Time	Received By	Date/Time
			2.5.08/0929

SAMPLE LOG-IN CHECKLIST

Vista Analytical Laboratory

Vista Project #: 30226 TAT Standard

Samples Arrival:	**Date/Time** 2/5/08 0929	**Initials:** YBB	**Location:** WR-2 **Shelf/Rack:** N/A
Logged In:	**Date/Time** 2/6/08 0836	**Initials:** YBB	**Location:** WR-2 **Shelf/Rack:** B4

Delivered By:	(FedEx)	UPS	Cal	DHL	Hand Delivered	Other
Preservation:	(Ice)	Blue Ice	Dry Ice	None		
Temp °C 1.6 °C	**Time:** 0956		**Thermometer ID:** IR-1			

	YES	NO	NA
Adequate Sample Volume Received?	✓		
Holding Time Acceptable?	✓		
Shipping Container(s) Intact?	✓		
Shipping Custody Seals Intact?	✓		
Shipping Documentation Present?	✓		
Airbill / Trk # 799795973118	✓		
Sample Container Intact?	✓		
Sample Custody Seals Intact?			✓
Chain of Custody / Sample Documentation Present?	✓		
COC Anomaly/Sample Acceptance Form completed?		✓	
If Chlorinated or Drinking Water Samples, Acceptable Preservation?			✓

$Na_2S_2O_3$ Preservation Documented?	COC	Sample Container	(None)		
Shipping Container	Vista	(Client)	Retain	(Return)	Dispose

Comments:

SUBCONTRACT ORDER

TestAmerica Irvine

IRB0148

8020459

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
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: IRB0148-01	**Water**		Sampled: **02/03/08 14:45**	
Level 4 Data Package - Wec	N/A	02/13/08	03/02/08 14:45	Provide Element transfer file
Mercury - 245.1, Diss -OUT	mg/l	02/13/08	03/02/08 14:45	Boeing, J flags, sub to Weck
Mercury - 245.1-OUT	mg/l	02/13/08	03/02/08 14:45	Boeing, J flags, sub to Weck

Containers Supplied:

125 mL Poly (AA) HNO3 — 125 mL Poly w/HNO3 (AB)

Diss Mercury is Filtered and pres.

Released By	Date/Time	Received By	Date/Time
	2/4/08 1000		2/4/08 1000
	2/4/08 1345		02/04/08 13:45

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
17461 Derian Ave, Suite 100
Irvine, CA 92614
Attention: Joseph Doak

Phone: (949) 261-1022
Fax: (949) 260-3297

Report Date: 02/11/08 16:22
Received Date: 02/04/08 13:45
Turn Around: Normal

Work Order #: 8020459

Client Project: IRB0148

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 02/04/08 13:45 with the Chain of Custody document. The samples were received in good condition. The samples were received at 1.9 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Reviewed by:

Kim G Tu

Project Manager

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

TestAmerica, Inc. - Irvine
17461 Derian Ave, Suite 100
Irvine CA, 92614

Report ID: 8020459
Project ID: IRB0148

Date Received: 02/04/08 13:45
Date Reported: 02/11/08 16:22

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Sampled by:	Sample Comments	Laboratory	Matrix	Date Sampled
IRB0148-01	Client		8020459-01	Water	02/03/08 14:45

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

TestAmerica, Inc. - Irvine
17461 Derian Ave, Suite 100
Irvine CA, 92614

Report ID: 8020459
Project ID: IRB0148

Date Received: 02/04/08 13:45
Date Reported: 02/11/08 16:22

IRB0148-01 8020459-01 (Water) Date Sampled: 02/03/08 14:45

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	ND	0.050	ug/l	0.20	1	EPA 245.1	W8B0171	02/06/08	02/07/08	jlp	
Mercury, Total	ND	0.050	ug/l	0.20	1	EPA 245.1	W8B0171	02/06/08	02/07/08	jlp	

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

TestAmerica, Inc. - Irvine
17461 Derian Ave, Suite 100
Irvine CA, 92614

Report ID: 8020459
Project ID: IRB0148

Date Received: 02/04/08 13:45
Date Reported: 02/11/08 16:22

QUALITY CONTROL SECTION

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

TestAmerica, Inc. - Irvine
17461 Derian Ave, Suite 100
Irvine CA, 92614

Report ID: 8020459
Project ID: IRB0148

Date Received: 02/04/08 13:45
Date Reported: 02/11/08 16:22

Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch W8B0171 - EPA 245.1										
Blank (W8B0171-BLK1)				Analyzed: 02/07/08						
Mercury, Dissolved	ND	0.20	ug/l							
Mercury, Total	ND	0.20	ug/l							
LCS (W8B0171-BS1)				Analyzed: 02/07/08						
Mercury, Dissolved	1.04	0.20	ug/l	1.00		104	85-115			
Mercury, Total	1.04	0.20	ug/l	1.00		104	85-115			
Matrix Spike (W8B0171-MS1)		**Source: 8020543-01**		Analyzed: 02/07/08						
Mercury, Dissolved	1.02	0.20	ug/l	1.00	ND	102	70-130			
Mercury, Total	1.02	0.20	ug/l	1.00	ND	102	70-130			
Matrix Spike (W8B0171-MS2)		**Source: 8020544-01**		Analyzed: 02/07/08						
Mercury, Dissolved	1.05	0.20	ug/l	1.00	ND	105	70-130			
Mercury, Total	1.05	0.20	ug/l	1.00	ND	105	70-130			
Matrix Spike Dup (W8B0171-MSD1)		**Source: 8020543-01**		Analyzed: 02/07/08						
Mercury, Dissolved	1.04	0.20	ug/l	1.00	ND	104	70-130	2	20	
Mercury, Total	1.04	0.20	ug/l	1.00	ND	104	70-130	2	20	
Matrix Spike Dup (W8B0171-MSD2)		**Source: 8020544-01**		Analyzed: 02/07/08						
Mercury, Dissolved	1.05	0.20	ug/l	1.00	ND	105	70-130	0	20	
Mercury, Total	1.05	0.20	ug/l	1.00	ND	105	70-130	0	20	

Weck Laboratories, Inc.
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TestAmerica, Inc. - Irvine
17461 Derian Ave, Suite 100
Irvine CA, 92614

Report ID: 8020459
Project ID: IRB0148

Date Received: 02/04/08 13:45
Date Reported: 02/11/08 16:22

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.

EBERLINE SERVICES

March 10, 2008

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

Reference: Test America Project Nos. IRB0073, IRB0146, IRB0147, IRB0148, IRB0149, IRB0150, IRB0151, IRB0152, IRB0153, IRB0154 IRB0156, IRB0480, IRB0751
Eberline Services NELAP Cert #01120CA
Eberline Services Reports R802024-8693, R802040-8694, R802041-8695, R802042-8696, R802043-8697, R802044-8698 R802045-8699, R802046-8600, R802047-8601 R802048-8602, R802049-8603, R802054-8604 R802084-8608

Dear Mr. Doak:

Attached are data reports for thirteen water samples. Eleven of the samples were received at Eberline Services on February 5, one on February 7, and one on February 9, 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). The parenthetical G after a nuclide indicates that the result was obtained by gamma spectroscopy; a "U" in the results column indicates that the nuclide was not detected greater than the indicated minimum detectable activity (MDA). The samples were not filtered prior to analysis. The samples were analyzed in batches with common QC samples. 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 samples were batched with QC samples 8693-002, 003, 004, and 005 for all analyses. 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 Mannion

Melissa Mannion
Senior Program Manager

MCM/njv

Enclosure: Report on CD

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.eberlineservices.com

Eberline Services

ANALYSIS RESULTS

SDG 8696 Client TA IRVINE
Work Order R802042-01 Contract PROJECT# IRB0148
Received Date 02/05/08 Matrix WATER

Client Sample ID	Lab Sample ID	Collected	Analyzed	Nuclide	Results ± 2σ	Units	MDA
IRB0148-01	8696-001	02/03/08	02/27/08	GrossAlpha	0.628 ± 0.82	pCi/L	1.2
			02/27/08	Gross Beta	6.13 ± 1.0	pCi/L	1.4
			02/27/08	Ra-228	1.36 ± 0.92	pCi/L	0.64
			02/23/08	K 40 (G)	U	pCi/L	54
			02/23/08	Cs-137 (G)	U	pCi/L	2.0
			02/28/08	H-3	31.6 ± 84	pCi/L	150
			03/03/08	Ra-226	0.807 ± 0.54	pCi/L	0.74
			02/18/08	Sr-90	1.50 ± 0.50	pCi/L	0.66
			02/26/08	Total U	1.26 ± 0.14	pCi/L	0.022

Certified by
Report Date 03/11/08

Eberline Services

QC RESULTS

SDG 8696 | Client TA IRVINE
Work Order R802042-01 | Contract PROJECT# IRB0148
Received Date 02/05/08 | Matrix WATER

Lab Sample ID	Nuclide	Results	Units	Amount Added	MDA	Evaluation
LCS						
8693-002	GrossAlpha	10.6 ± 0.82	pCi/Smpl	10.2	0.31	104% recovery
	Gross Beta	9.07 ± 0.36	pCi/Smpl	9.38	0.28	97% recovery
	Ra-228	8.40 ± 0.59	pCi/Smpl	8.66	0.88	97% recovery
	Co-60 (G)	214 ± 14	pCi/Smpl	224	9.1	96% recovery
	Cs-137 (G)	240 ± 12	pCi/Smpl	236	9.2	102% recovery
	Am-241 (G)	255 ± 26	pCi/Smpl	254	31	100% recovery
	H-3	222 ± 12	pCi/Smpl	239	13	93% recovery
	Ra-226	5.35 ± 0.24	pCi/Smpl	5.02	0.076	107% recovery
	Sr-90	10.7 ± 0.80	pCi/Smpl	9.39	0.37	114% recovery
	Total U	1.12 ± 0.13	pCi/Smpl	1.13	0.004	99% recovery
BLANK						
8693-003	GrossAlpha	-0.103 ± 0.17	pCi/Smpl	NA	0.34	<MDA
	Gross Beta	-0.111 ± 0.15	pCi/Smpl	NA	0.27	<MDA
	Ra-228	0.239 ± 0.48	pCi/Smpl	NA	0.68	<MDA
	K-40 (G)	U	pCi/Smpl	NA	110	<MDA
	Cs-137 (G)	U	pCi/Smpl	NA	5.4	<MDA
	H-3	-1.64 ± 8.3	pCi/Smpl	NA	15	<MDA
	Ra-226	0.016 ± 0.034	pCi/Smpl	NA	0.062	<MDA
	Sr-90	0.099 ± 0.15	pCi/Smpl	NA	0.27	<MDA
	Total U	0.00E 00 ± 1.9E-04	pCi/Smpl	NA	4.5E-04	<MDA

DUPLICATES				ORIGINALS					
Sample ID	Nuclide	Results ± 2σ	MDA	Sample ID	Results ± 2σ	MDA	RPD	3σ (Tot)	Eval
8693-004	GrossAlpha	1.03 ± 1.0	1.5	8693-001	0.763 ± 0.99	1.3	-	0	satis.
	Gross Beta	15.0 ± 1.2	1.6		14.2 ± 0.93	0.97	5	46	satis.
	Ra-228	0.099 ± 0.18	0.48		0.295 ± 0.19	0.49	-	0	satis.
	K-40 (G)	24.8 ± 7.8	4.9		24.0 ± 11	8.2	3	86	satis.
	Cs-137 (G)	U	0.53		U	0.86	-	0	satis.
	H-3	-6.31 ± 84	150		7.12 ± 78	130	-	0	satis.
	Ra-226	0.583 ± 0.52	0.81		0.426 ± 0.44	0.70	-	0	satis.
	Sr-90	-0.021 ± 0.29	0.71		0.026 ± 0.31	0.72	-	0	satis.
	Total U	0.611 ± 0.067	0.022		0.578 ± 0.064	0.022	6	30	satis.

Certified by
Report Date 03/11/08

Eberline Services

QC RESULTS

SDG 8696 | Client TA IRVINE
Work Order R802042-01 | Contract PROJECT# IRB0148
Received Date 02/05/08 | Matrix WATER

SPIKED SAMPLE				ORIGINAL SAMPLE				
Sample ID	Nuclide	Results ± 2σ	MDA	Sample ID	Results ± 2σ	MDA	Added	%Recv
8693-005	GrossAlpha	95.8 ± 5.5	1.4	8693-001	0.763 ± 0.99	1.3	71.2	133
	Gross Beta	77.9 ± 2.0	1.5		14.2 ± 0.93	0.97	62.5	102
	H-3	15500 ± 300	150		7.12 ± 78	130	16000	97
	Ra-226	120 ± 4.8	0.69		0.426 ± 0.44	0.70	112	107
	Total U	109 ± 13	2.2		0.578 ± 0.064	0.022	113	96

Certified by
Report Date 03/11/08

SUBCONTRACT ORDER

TestAmerica Irvine

IRB0148

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
2030 Wright Avenue
Richmond, CA 94804
Phone :(510) 235-2633
Fax: (510) 235-0438
Project Location: California
Receipt Temperature: 4.0 °C Ice: (Y) / N

Analysis	Units	Due	Expires	Comments
Sample ID: IRB0148-01	**Water**		Sampled: **02/03/08 14:45**	
EDD + Level 4	N/A	02/13/08	03/02/08 14:45	
Gamma Spec-O	mg/kg	02/13/08	02/02/09 14:45	Out to Eberline, k-40 and cs-137 only
Gross Alpha-O	pCi/L	02/13/08	08/01/08 14:45	Out to Eberline, Boeing
Gross Beta-O	pCi/L	02/13/08	08/01/08 14:45	Out to Eberline, Boeing
Radium, Combined-O	pCi/L	02/13/08	02/02/09 14:45	Out to Eberline, Boeing
Strontium 90-O	pCi/L	02/13/08	02/02/09 14:45	Out to Eberline, Boeing
Tritium-O	pCi/L	02/13/08	02/02/09 14:45	Out to Eberline, Boeing
Uranium, Combined-O	pCi/L	02/13/08	02/02/09 14:45	Out to Eberline, Boeing

Containers Supplied:

2.5 gal Poly (S) 500 mL Amber (T)

[signature]	2/4/08 1700	Fed Ex	2/4/08 1700
Released By	Date/Time	Received By	Date/Time
		[signature]	02/05/08 09:30
Released By	Date/Time	Received By	Date/Time

NPDES - 872

EBERLINE

RICHMOND, CA LABORATORY

SAMPLE RECEIPT CHECKLIST

2/5/08

Client: TEST AMERICA City: IRVINE State: CA

Date/Time received: 07/05/08 09:30 SDG No: IRB0148

Container/E No: ICE CHEST Requested TAT (Days): _____ P.O. Received: Yes [ ] No [ ]

INSPECTION

1. Custody seals on shipping container intact? Yes X No [ ] N/A [ ]
2. Custody seals on shipping container dated & signed? Yes X No [ ] N/A [ ]
3. Custody seals on sample containers intact? Yes [ ] No [ ] N/A X
4. Custody seals on sample containers dated & signed? Yes [ ] No [ ] N/A X
5. Packing material is: Wet [ ] Dry X
6. Number of samples in shipping container: 1 Sample Matrix: W
7. Number of containers per sample: 2 (Or see SDG: _____)
8. Samples are in correct container: Yes X No [ ]
9. Paperwork agrees with samples? Yes X No [ ]
10. Samples have: Tape [ ] Hazard labels [ ] Rad labels [ ] Appropriate sample labels: X
11. Samples are: In good condition X Leaking [ ] Broken Container [ ] Missing [ ]
12. Samples are: Preserved [ ] Not preserved X, pH: _____ Preservative: _____
13. Describe any anomalies:

14. Was P.M. notified of any anomalies? Yes [ ] No [ ] Date: _____
15. Inspected by: _____ Date: 07/05/08 Time: 10:45

Customer Sample No.	Beta/Gamma cpm	Ion Chamber mR/hr	Wipe	Customer Sample No.	Beta/Gamma cpm	Ion Chamber mR/hr	Wipe
IRB0148-1	<60						

Ion Chamber Ser. No: _____ Calibration date: _____

Alpha Meter Ser. No: _____ Calibration date: _____

Beta/Gamma Meter Ser. No: 100482 Calibration date: 09MAY07

APPENDIX G

Section 18

Outfall 003 – BMP Effectiveness, February 5, 2008

Test America Analytical Laboratory Report

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

LABORATORY REPORT

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

Project: Boeing BMP Effectiveness Monitoring Program

Sampled: 02/05/08
Received: 02/05/08
Issued: 02/14/08 15:04

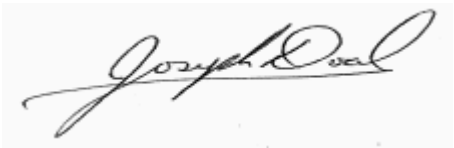
NELAP #01108CA California ELAP#1197 CSDLAC #10256

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

LABORATORY ID	CLIENT ID	MATRIX
IRB0420-01	003 EFF-1	Water

Reviewed By:



TestAmerica Irvine

Joseph Doak
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

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

Project ID: Boeing BMP Effectiveness Monitoring Program
Report Number: IRB0420

Sampled: 02/05/08
Received: 02/05/08

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRB0420-01 (003 EFF-1 - Water)									
Reporting Units: g/cc									
Density	Displacement	8B11085	N/A	NA	**1.0**	1	02/11/08	02/11/08	
Sample ID: IRB0420-01 (003 EFF-1 - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	8B14087	10	10	ND	1	02/14/08	02/14/08	

TestAmerica Irvine

Joseph Doak
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

Project ID: Boeing BMP Effectiveness Monitoring Program
Report Number: IRB0420

Sampled: 02/05/08
Received: 02/05/08

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8B11085 Extracted: 02/11/08											
Duplicate Analyzed: 02/11/2008 (8B11085-DUP1)						**Source: IRA3091-01**					
Density	0.999	NA	N/A	g/cc		1.00			0	20	

TestAmerica Irvine

Joseph Doak
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

Project ID: Boeing BMP Effectiveness Monitoring Program
Report Number: IRB0420

Sampled: 02/05/08
Received: 02/05/08

DATA QUALIFIERS AND DEFINITIONS

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

RPD Relative Percent Difference

TestAmerica Irvine

Joseph Doak
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

Project ID: Boeing BMP Effectiveness Monitoring Program
Report Number: IRB0420

Sampled: 02/05/08
Received: 02/05/08

Certification Summary

TestAmerica Irvine

Method	Matrix	Nelac	California
ASTM D3977	Water		
Displacement	Water		

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

TestAmerica Irvine

Joseph Doak
Project Manager

IRB0420

Test America Version 12/20/07 — CHAIN OF CUSTODY FORM — IRB0420 — Page 1 of 1

Client Name/Address:
MWH-Arcadia
618 Michillinda Avenue, Suite 200
Arcadia, CA 91007

Test America Contact: Joseph Doak

Project Manager: Bronwyn Kelly

Sampler: MARISCAL, J.
Barroso, R.

Project: **Boeing BMP Effectiveness Monitoring Program**

Phone Number:
(626) 568-6691
Fax Number:
(626) 568-6515

ANALYSIS REQUIRED

Field readings:
~~Temp~~ = NA
~~pH~~ = NA
~~Time of readings~~ = NA

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	Suspended Sediment Concentration (SSC, ASTM-D3977-1997)	Comments
003 EFF-1	W	500 mL Poly	1	2/5/08 1120 cc	None	1	X	GRAB
~~003 EFF-2~~	~~W~~	~~500 mL Poly~~	~~1~~		~~None~~	~~2~~	~~X~~	
003 EFF-3	W	500 mL Poly	1		None	3	X	
003 EFF-4	W	500 mL Poly	1		None	4	X	
003 EFF-5	W	500 mL Poly	1		None	5	X	
003 EFF-6	W	500 mL Poly	1		None	6	X	
003 EFF-7	W	500 mL Poly	1		None	7	X	
003 EFF-8	W	500 mL Poly	1		None	8	X	
003 EFF-9	W	500 mL Poly	1		None	9	X	
003 EFF-10	W	500 mL Poly	1		None	10	X	
003 EFF-11	W	500 mL Poly	1		None	11	X	
003 EFF-12	W	500 mL Poly	1		None	12	X	
003 EFF-13	W	500 mL Poly	1		None	13	X	
003 EFF-14	W	500 mL Poly	1		None	14	X	
003 EFF-15	W	500 mL Poly	1		None	15	X	
003 EFF-16	W	500 mL Poly	1		None	16	X	
003 EFF-17	W	500 mL Poly	1		None	17	X	
003 EFF-18	W	500 mL Poly	1		None	18	X	
003 EFF-19	W	500 mL Poly	1		None	19	X	
003 EFF-20	W	500 mL Poly	1		None	20	X	
003 EFF-21	W	500 mL Poly	1		None	21	X	
003 EFF-22	W	500 mL Poly	1		None	22	X	
003 EFF-23	W	500 mL Poly	1		None	23	X	
003 EFF-24	W	500 mL Poly	1		None	24	X	

Relinquished By: Ruben Barroso — Date/Time: 2/5/08

Received By — Date/Time: 2/5/08 1505

Relinquished By — Date/Time: 2/5/08 1850

Received By — Date/Time:

Relinquished By — Date/Time:

Received By: Jenny Mayer — Date/Time: 2/5/08 1850

Turn around Time: (check)
24 Hours ____ 5 Days ____
48 Hours ____ 10 Days ____
72 Hours ____ Normal X

Sample Integrity: (check)
Intact ✓ On Ice: ✓
5.93°C

Rcvd 2/06/08 SLO

B

NPDES - 880

APPENDIX G

Section 19

Outfall 004, January 5, 2008

MEC^{X} Data Validation Reports

DATA VALIDATION REPORT

Boeing SSFL NPDES

SAMPLE DELIVERY GROUP: IRA0393

Prepared by

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

I. INTRODUCTION

Task Order Title:	Boeing SSFL NPDES
Contract Task Order:	1261.100D.00
Sample Delivery Group:	IRA0393
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 004	IRA0393-01	30120-001, 8010798-01, 8676-001	Water	01/05/08 1125	200.8, 245.1, 900.0, 901.1, 903.1, 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, Eberline, and Weck within the temperature limits of 4°C ±2°C. The sample was received below the temperature limits at Vista; however, the sample was not noted to have been frozen. 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, Vista, and Weck. If necessary, the client ID was added to the sample result summary by the reviewer.

Data Qualifier Reference Table

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

Qualification Code Reference Table

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

Qualification Code Reference Table Cont.

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

III. Method Analyses

A. EPA METHOD 1613—Dioxin/Furans

Reviewed By: K. Shadowlight
Date Reviewed: February 29, 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 $\leq$20% for the 16 native compounds (calibration by isotope dilution) and $\leq$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: February 29, 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 r^2 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.

- 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 laboratory-established QC limits.

- Laboratory Duplicates: No laboratory duplicate analyses were performed.

- Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were performed on the sample in this SDG for the 6020 dissolved metals only. All recoveries and RPDs were within the laboratory-established control limits. Evaluation of 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 3, 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, nondetected gross alpha in the sample was qualified as an estimated nondetect, "UJ." 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 did not occur.

  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 blank.

- Blank Spikes and Laboratory Control Samples: The gross alpha recovery was above the control limit at 129%; however, gross alpha was not detected in the samples. The remaining recoveries were within laboratory-established control limits.

- Laboratory Duplicates: Laboratory duplicate analyses were performed on the sample in this SDG for gross alpha, gross beta, tritium, strontium-90, radium-226, total uranium, and the gamma spectroscopy analytes. Potassium-40 was not detected in the duplicate sample; therefore, potassium-40 detected in the sample was qualified as an estimated detect, "J." The remaining RPDs were within the laboratory-established control limits.

- Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were performed for the sample in this SDG on gross alpha, gross beta, tritium, radium-226, and total uranium. Gross alpha was recovered above the control limit; however, gross alpha was not detected in the site sample. The remaining recoveries were within the laboratory-established control limits.

- 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:

    - 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.

Sample ID: IRA0393-01 Outfall 004 **EPA Method 1613**

Client Data		Sample Data		Laboratory Data			
Name:	Test America-Irvine, CA	Matrix:	Aqueous	Lab Sample:	30120-001	Date Received:	8-Jan-08
Project:	IRA0393	Sample Size:	1.00 L	QC Batch No.:	9886	Date Extracted:	17-Jan-08
Date Collected:	5-Jan-08			Date Analyzed DB-5:	19-Jan-08	Date Analyzed DB-225:	NA
Time Collected:	1125						

Analyte	Conc. (ug/L)	DL [a]	EMPC[b]	Qualifiers	Labeled Standard	%R	LCL-UCL[d]	Qualifiers
2,3,7,8-TCDD	ND	0.00000104			IS 13C-2,3,7,8-TCDD	78.8	25 - 164	
1,2,3,7,8-PeCDD	ND	0.00000201			13C-1,2,3,7,8-PeCDD	72.0	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.00000184			13C-1,2,3,4,7,8-HxCDD	69.8	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.00000363			13C-1,2,3,6,7,8-HxCDD	68.1	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.00000177			13C-1,2,3,4,6,7,8-HpCDD	81.1	23 - 140	
1,2,3,4,6,7,8-HpCDD	0.0000562				13C-OCDD	66.9	17 - 157	
OCDD	0.000908				13C-2,3,7,8-TCDF	75.1	24 - 169	
2,3,7,8-TCDF	ND	0.00000123			13C-1,2,3,7,8-PeCDF	66.2	24 - 185	
1,2,3,7,8-PeCDF	ND	0.00000181			13C-2,3,4,7,8-PeCDF	69.5	21 - 178	
2,3,4,7,8-PeCDF	ND	0.00000176			13C-1,2,3,4,7,8-HxCDF	65.8	26 - 152	
1,2,3,4,7,8-HxCDF	ND	0.00000108			13C-1,2,3,6,7,8-HxCDF	67.2	26 - 123	
1,2,3,6,7,8-HxCDF	ND	0.00000117			13C-2,3,4,6,7,8-HxCDF	68.9	28 - 136	
2,3,4,6,7,8-HxCDF	ND	0.00000122			13C-1,2,3,7,8,9-HxCDF	74.3	29 - 147	
1,2,3,7,8,9-HxCDF	ND	0.00000163			13C-1,2,3,4,6,7,8-HpCDF	78.7	28 - 143	
1,2,3,4,6,7,8-HpCDF	0.00000763			J	13C-1,2,3,4,7,8,9-HpCDF	77.3	26 - 138	
1,2,3,4,7,8,9-HpCDF	ND	0.00000180			13C-OCDF	65.8	17 - 157	
OCDF	0.0000227			J	CRS 37Cl-2,3,7,8-TCDD	86.8	35 - 197	

Totals			
Total TCDD	ND	0.00000156	
Total PeCDD	ND	0.00000348	
Total HxCDD	0.00000205		0.00000484
Total HpCDD	0.000105		
Total TCDF	ND	0.00000123	
Total PeCDF	ND	0.00000321	
Total HxCDF	0.00000395		0.00000546
Total HpCDF	0.0000326		

Footnotes

a. Sample specific estimated detection limit.

b. Estimated maximum possible concentration.

c. Method detection limit.

d. Lower control limit - upper control limit.

Analyst: MAS

Approved By: Martha M. Maier 23-Jan-2008 08:34

Level IV

NPDES - 892

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

Project ID: Routine Outfall 004
Report Number: IRA0393

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

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA0393-01 (Outfall 004 - Water)									
Reporting Units: ug/l									
Antimony J/DNQ	EPA 200.8	8A07054	0.20	2.0	**0.60**	1	01/07/08	01/08/08	Ja
Cadmium U	EPA 200.8	8A07054	0.11	1.0	ND	1	01/07/08	01/08/08	
Copper	EPA 200.8	8A07054	0.75	2.0	**3.6**	1	01/07/08	01/08/08	
Lead	EPA 200.8	8A07054	0.30	1.0	**1.2**	1	01/07/08	01/08/08	
Thallium U	EPA 200.8	8A07054	0.20	1.0	ND	1	01/07/08	01/08/08	

LEVEL IV

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Project ID: Routine Outfall 004
Report Number: IRA0393

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

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA0393-01 (Outfall 004 - Water) - cont.									
Reporting Units: ug/l									
Antimony J/DNQ	EPA 200.8-Diss	8A08129	0.20	2.0	**0.57**	1	01/08/08	01/08/08	Ja
Cadmium U	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	**2.2**	1	01/08/08	01/08/08	
Lead U	EPA 200.8-Diss	8A08129	0.30	1.0	ND	1	01/08/08	01/08/08	
Thallium U	EPA 200.8-Diss	8A08129	0.20	1.0	ND	1	01/08/08	01/08/08	

LEVEL IV

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Report Number: IRA0393

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: IRA0393-01 (Outfall 004 - Water) - cont.									
Reporting Units: ug/l									
Mercury, Dissolved U	EPA 245.1	W8A0148	0.050	0.20	**0.054**	1	01/08/08	01/09/08	J
Mercury, Total	EPA 245.1	W8A0148	0.050	0.20	**0.092**	1	01/08/08	01/09/08	J

LEVEL IV

TestAmerica Irvine

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Project Manager

Eberline Services

ANALYSIS RESULTS

SDG 8676 Client TA IRVINE
Work Order R801023-01 Contract PROJECT# IRA0393
Received Date 01/08/08 Matrix WATER

Client Sample ID	Lab Sample ID	Collected	Analyzed	Nuclide	Results ± 2σ	Units	MDA	
Outfall 004 IRA0393-01	8676-001	01/05/08	01/21/08	GrossAlpha	0.784 ± 2.0	pCi/L	2.8	UJ/R
			01/21/08	Gross Beta	62.4 ± 2.4	pCi/L	2.1	
			01/23/08	Ra-228	0.135 ± 0.17	pCi/L	0.44	U
			02/01/08	K-40 (G)	62.0 ± 8.4	pCi/L	5.3	J/E
			02/01/08	Cs-137 (G)	U	pCi/L	0.54	U
			01/23/08	H-3	-15.1 ± 88	pCi/L	150	U
			01/25/08	Ra-226	0.081 ± 0.44	pCi/L	0.81	U
			01/28/08	Sr-90	0.063 ± 0.44	pCi/L	1.0	U
			02/15/08	Total U	2.58 ± 0.29	pCi/L	0.021	

LEVEL IV

Certified by
Report Date 02/19/08
Page 1