APPENDIX G

Section 90

Outfall 013, February 24, 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 013

Sampled: 02/24/08
Received: 02/25/08
Issued: 03/17/08 16:26

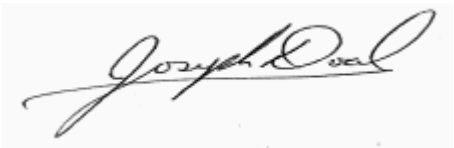
NELAP #01108CA California ELAP#1197 CSDLAC #10256

SAMPLE CROSS REFERENCE

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

LABORATORY ID	CLIENT ID	MATRIX
IRB2402-01	Outfall 013	Water
IRB2402-02	Trip Blanks	Water

Reviewed By:



TestAmerica Irvine

Joseph Doak
Project Manager

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

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

Project ID: Annual Outfall 013
Report Number: IRB2402

Sampled: 02/24/08
Received: 02/25/08

EXTRACTABLE FUEL HYDROCARBONS (CADHS/8015 Modified)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRB2402-01 (Outfall 013 - Water)									
Reporting Units: mg/l									
DRO (C13-C22)	EPA 8015B	8B27068	0.026	0.096	ND	0.962	02/27/08	02/27/08	
Surrogate: n-Octacosane (40-125%)					*74 %*				

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MWH-Pasadena/Boeing
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Attention: Bronwyn Kelly

Project ID: Annual Outfall 013
Report Number: IRB2402

Sampled: 02/24/08
Received: 02/25/08

VOLATILE FUEL HYDROCARBONS (EPA 5030/8015M)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRB2402-01 (Outfall 013 - Water) - cont.									
Reporting Units: mg/l									
GRO (C4 - C12)	EPA 8015B	8B28031	0.030	0.050	ND	1	02/28/08	02/28/08	
Surrogate: 4-BFB (FID) (65-140%)					*72 %*				

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Report Number: IRB2402

Sampled: 02/24/08
Received: 02/25/08

VOLATILE ORGANICS by GCMS SIM

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRB2402-01 (Outfall 013 - Water) - cont.									
Reporting Units: ug/l									
1,4-Dioxane	EPA 8260B-SIM	8B27016	1.0	2.0	ND	1	02/27/08	02/27/08	
Surrogate: Dibromofluoromethane (80-120%)					*89 %*				

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Attention: Bronwyn Kelly

Project ID: Annual Outfall 013
Report Number: IRB2402

Sampled: 02/24/08
Received: 02/25/08

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: IRB2402-01 (Outfall 013 - Water) - cont.									
Reporting Units: ug/l									
1,1,1-Trichloroethane	EPA 624	8B28024	0.30	0.50	ND	1	02/28/08	02/29/08	
1,2,3-Trichloropropane	EPA 624	8B28024	0.40	1.0	ND	1	02/28/08	02/29/08	
1,1,2,2-Tetrachloroethane	EPA 624	8B28024	0.24	0.50	ND	1	02/28/08	02/29/08	
1,2-Dibromoethane (EDB)	EPA 624	8B28024	0.40	0.50	ND	1	02/28/08	02/29/08	
1,1,2-Trichloroethane	EPA 624	8B28024	0.30	0.50	ND	1	02/28/08	02/29/08	
Di-isopropyl Ether (DIPE)	EPA 624	8B28024	0.25	0.50	ND	1	02/28/08	02/29/08	
1,1-Dichloroethane	EPA 624	8B28024	0.27	0.50	ND	1	02/28/08	02/29/08	
Methyl-tert-butyl Ether (MTBE)	EPA 624	8B28024	0.32	0.50	ND	1	02/28/08	02/29/08	
1,1-Dichloroethene	EPA 624	8B28024	0.42	0.50	ND	1	02/28/08	02/29/08	
tert-Butanol (TBA)	EPA 624	8B28024	4.9	10	ND	1	02/28/08	02/29/08	
1,2-Dichloroethane	EPA 624	8B28024	0.28	0.50	ND	1	02/28/08	02/29/08	
1,2-Dichlorobenzene	EPA 624	8B28024	0.32	0.50	ND	1	02/28/08	02/29/08	
1,2-Dichloropropane	EPA 624	8B28024	0.35	0.50	ND	1	02/28/08	02/29/08	
1,3-Dichlorobenzene	EPA 624	8B28024	0.35	0.50	ND	1	02/28/08	02/29/08	
1,4-Dichlorobenzene	EPA 624	8B28024	0.37	0.50	ND	1	02/28/08	02/29/08	
Benzene	EPA 624	8B28024	0.28	0.50	ND	1	02/28/08	02/29/08	
Bromodichloromethane	EPA 624	8B28024	0.30	0.50	ND	1	02/28/08	02/29/08	
Bromoform	EPA 624	8B28024	0.40	0.50	ND	1	02/28/08	02/29/08	
Bromomethane	EPA 624	8B28024	0.42	1.0	ND	1	02/28/08	02/29/08	
Carbon tetrachloride	EPA 624	8B28024	0.28	0.50	ND	1	02/28/08	02/29/08	
Chlorobenzene	EPA 624	8B28024	0.36	0.50	ND	1	02/28/08	02/29/08	
Chloroethane	EPA 624	8B28024	0.40	1.0	ND	1	02/28/08	02/29/08	
Chloroform	EPA 624	8B28024	0.33	0.50	ND	1	02/28/08	02/29/08	
Chloromethane	EPA 624	8B28024	0.40	0.50	ND	1	02/28/08	02/29/08	
cis-1,3-Dichloropropene	EPA 624	8B28024	0.22	0.50	ND	1	02/28/08	02/29/08	
Dibromochloromethane	EPA 624	8B28024	0.28	0.50	ND	1	02/28/08	02/29/08	
Ethylbenzene	EPA 624	8B28024	0.25	0.50	ND	1	02/28/08	02/29/08	
Methylene chloride	EPA 624	8B28024	0.95	1.0	**3.3**	1	02/28/08	02/29/08	
Tetrachloroethene	EPA 624	8B28024	0.32	0.50	ND	1	02/28/08	02/29/08	
Toluene	EPA 624	8B28024	0.36	0.50	ND	1	02/28/08	02/29/08	
trans-1,2-Dichloroethene	EPA 624	8B28024	0.27	0.50	ND	1	02/28/08	02/29/08	
trans-1,3-Dichloropropene	EPA 624	8B28024	0.32	0.50	ND	1	02/28/08	02/29/08	
Trichloroethene	EPA 624	8B28024	0.26	0.50	ND	1	02/28/08	02/29/08	
Trichlorofluoromethane	EPA 624	8B28024	0.34	0.50	ND	1	02/28/08	02/29/08	
Trichlorotrifluoroethane (Freon 113)	EPA 624	8B28024	0.50	5.0	ND	1	02/28/08	02/29/08	
Vinyl chloride	EPA 624	8B28024	0.30	0.50	ND	1	02/28/08	02/29/08	
Xylenes, Total	EPA 624	8B28024	0.90	1.5	ND	1	02/28/08	02/29/08	
Surrogate: Dibromofluoromethane (80-120%)					*99 %*				
Surrogate: Toluene-d8 (80-120%)					*101 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*88 %*				

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Joseph Doak
Project Manager

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

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

Project ID: Annual Outfall 013
Report Number: IRB2402

Sampled: 02/24/08
Received: 02/25/08

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: IRB2402-02 (Trip Blanks - Water)									
Reporting Units: ug/l									
1,1,1-Trichloroethane	EPA 624	8B28024	0.30	0.50	ND	1	02/28/08	02/29/08	
1,2,3-Trichloropropane	EPA 624	8B28024	0.40	1.0	ND	1	02/28/08	02/29/08	
1,1,2,2-Tetrachloroethane	EPA 624	8B28024	0.24	0.50	ND	1	02/28/08	02/29/08	
1,2-Dibromoethane (EDB)	EPA 624	8B28024	0.40	0.50	ND	1	02/28/08	02/29/08	
1,1,2-Trichloroethane	EPA 624	8B28024	0.30	0.50	ND	1	02/28/08	02/29/08	
Di-isopropyl Ether (DIPE)	EPA 624	8B28024	0.25	0.50	ND	1	02/28/08	02/29/08	
1,1-Dichloroethane	EPA 624	8B28024	0.27	0.50	ND	1	02/28/08	02/29/08	
Methyl-tert-butyl Ether (MTBE)	EPA 624	8B28024	0.32	0.50	ND	1	02/28/08	02/29/08	
1,1-Dichloroethene	EPA 624	8B28024	0.42	0.50	ND	1	02/28/08	02/29/08	
tert-Butanol (TBA)	EPA 624	8B28024	4.9	10	ND	1	02/28/08	02/29/08	
1,2-Dichloroethane	EPA 624	8B28024	0.28	0.50	ND	1	02/28/08	02/29/08	
1,2-Dichlorobenzene	EPA 624	8B28024	0.32	0.50	ND	1	02/28/08	02/29/08	
1,2-Dichloropropane	EPA 624	8B28024	0.35	0.50	ND	1	02/28/08	02/29/08	
1,3-Dichlorobenzene	EPA 624	8B28024	0.35	0.50	ND	1	02/28/08	02/29/08	
1,4-Dichlorobenzene	EPA 624	8B28024	0.37	0.50	ND	1	02/28/08	02/29/08	
Benzene	EPA 624	8B28024	0.28	0.50	ND	1	02/28/08	02/29/08	
Bromodichloromethane	EPA 624	8B28024	0.30	0.50	ND	1	02/28/08	02/29/08	
Bromoform	EPA 624	8B28024	0.40	0.50	ND	1	02/28/08	02/29/08	
Bromomethane	EPA 624	8B28024	0.42	1.0	ND	1	02/28/08	02/29/08	
Carbon tetrachloride	EPA 624	8B28024	0.28	0.50	ND	1	02/28/08	02/29/08	
Chlorobenzene	EPA 624	8B28024	0.36	0.50	ND	1	02/28/08	02/29/08	
Chloroethane	EPA 624	8B28024	0.40	1.0	ND	1	02/28/08	02/29/08	
Chloroform	EPA 624	8B28024	0.33	0.50	ND	1	02/28/08	02/29/08	
Chloromethane	EPA 624	8B28024	0.40	0.50	ND	1	02/28/08	02/29/08	
cis-1,3-Dichloropropene	EPA 624	8B28024	0.22	0.50	ND	1	02/28/08	02/29/08	
Dibromochloromethane	EPA 624	8B28024	0.28	0.50	ND	1	02/28/08	02/29/08	
Ethylbenzene	EPA 624	8B28024	0.25	0.50	ND	1	02/28/08	02/29/08	
Methylene chloride	EPA 624	8B28024	0.95	1.0	**2.5**	1	02/28/08	02/29/08	
Tetrachloroethene	EPA 624	8B28024	0.32	0.50	ND	1	02/28/08	02/29/08	
Toluene	EPA 624	8B28024	0.36	0.50	ND	1	02/28/08	02/29/08	
trans-1,2-Dichloroethene	EPA 624	8B28024	0.27	0.50	ND	1	02/28/08	02/29/08	
trans-1,3-Dichloropropene	EPA 624	8B28024	0.32	0.50	ND	1	02/28/08	02/29/08	
Trichloroethene	EPA 624	8B28024	0.26	0.50	ND	1	02/28/08	02/29/08	
Trichlorofluoromethane	EPA 624	8B28024	0.34	0.50	ND	1	02/28/08	02/29/08	
Trichlorotrifluoroethane (Freon 113)	EPA 624	8B28024	0.50	5.0	ND	1	02/28/08	02/29/08	
Vinyl chloride	EPA 624	8B28024	0.30	0.50	ND	1	02/28/08	02/29/08	
Xylenes, Total	EPA 624	8B28024	0.90	1.5	ND	1	02/28/08	02/29/08	
Surrogate: Dibromofluoromethane (80-120%)					*97 %*				
Surrogate: Toluene-d8 (80-120%)					*89 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*88 %*				

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

Project ID: Annual Outfall 013
Report Number: IRB2402

Sampled: 02/24/08
Received: 02/25/08

PURGEABLES-- GC/MS (EPA 624)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRB2402-01 (Outfall 013 - Water)									
Reporting Units: ug/l									
Acrolein	EPA 624	8B26001	4.0	5.0	ND	1	02/26/08	02/26/08	
Acrylonitrile	EPA 624	8B26001	0.70	2.0	ND	1	02/26/08	02/26/08	
2-Chloroethyl vinyl ether	EPA 624	8B26001	1.8	5.0	ND	1	02/26/08	02/26/08	
Surrogate: Dibromofluoromethane (80-120%)					*97 %*				
Surrogate: Toluene-d8 (80-120%)					*101 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*88 %*				
Sample ID: IRB2402-02 (Trip Blanks - Water)									
Reporting Units: ug/l									
Acrolein	EPA 624	8B26001	4.0	5.0	ND	1	02/26/08	02/26/08	
Acrylonitrile	EPA 624	8B26001	0.70	2.0	ND	1	02/26/08	02/26/08	
2-Chloroethyl vinyl ether	EPA 624	8B26001	1.8	5.0	ND	1	02/26/08	02/26/08	
Surrogate: Dibromofluoromethane (80-120%)					*94 %*				
Surrogate: Toluene-d8 (80-120%)					*101 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*89 %*				

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Attention: Bronwyn Kelly

Project ID: Annual Outfall 013
Report Number: IRB2402

Sampled: 02/24/08
Received: 02/25/08

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: IRB2402-01 (Outfall 013 - Water)									
Reporting Units: ug/l									
Acenaphthene	EPA 625	8B26045	2.9	9.5	ND	0.952	02/26/08	02/28/08	
Acenaphthylene	EPA 625	8B26045	2.9	9.5	ND	0.952	02/26/08	02/28/08	
Aniline	EPA 625	8B26045	2.4	9.5	ND	0.952	02/26/08	02/28/08	
Anthracene	EPA 625	8B26045	1.9	9.5	ND	0.952	02/26/08	02/28/08	
Benzidine	EPA 625	8B26045	8.1	19	ND	0.952	02/26/08	02/28/08	L6
Benzoic acid	EPA 625	8B26045	9.5	19	ND	0.952	02/26/08	02/28/08	
Benzo(a)anthracene	EPA 625	8B26045	1.9	9.5	ND	0.952	02/26/08	02/28/08	
Benzo(b)fluoranthene	EPA 625	8B26045	1.9	9.5	ND	0.952	02/26/08	02/28/08	
Benzo(k)fluoranthene	EPA 625	8B26045	2.4	9.5	ND	0.952	02/26/08	02/28/08	
Benzo(g,h,i)perylene	EPA 625	8B26045	3.8	9.5	ND	0.952	02/26/08	02/28/08	
Benzo(a)pyrene	EPA 625	8B26045	1.9	9.5	ND	0.952	02/26/08	02/28/08	
Benzyl alcohol	EPA 625	8B26045	2.4	19	ND	0.952	02/26/08	02/28/08	
Bis(2-chloroethoxy)methane	EPA 625	8B26045	2.9	9.5	ND	0.952	02/26/08	02/28/08	
Bis(2-chloroethyl)ether	EPA 625	8B26045	2.9	9.5	ND	0.952	02/26/08	02/28/08	
Bis(2-chloroisopropyl)ether	EPA 625	8B26045	2.4	9.5	ND	0.952	02/26/08	02/28/08	
Bis(2-ethylhexyl)phthalate	EPA 625	8B26045	3.8	48	ND	0.952	02/26/08	02/28/08	
4-Bromophenyl phenyl ether	EPA 625	8B26045	2.9	9.5	ND	0.952	02/26/08	02/28/08	
Butyl benzyl phthalate	EPA 625	8B26045	3.8	19	ND	0.952	02/26/08	02/28/08	
4-Chloroaniline	EPA 625	8B26045	1.9	9.5	ND	0.952	02/26/08	02/28/08	
2-Chloronaphthalene	EPA 625	8B26045	2.9	9.5	ND	0.952	02/26/08	02/28/08	
4-Chloro-3-methylphenol	EPA 625	8B26045	2.4	19	ND	0.952	02/26/08	02/28/08	
2-Chlorophenol	EPA 625	8B26045	2.9	9.5	ND	0.952	02/26/08	02/28/08	
4-Chlorophenyl phenyl ether	EPA 625	8B26045	2.4	9.5	ND	0.952	02/26/08	02/28/08	
Chrysene	EPA 625	8B26045	2.4	9.5	ND	0.952	02/26/08	02/28/08	
Dibenz(a,h)anthracene	EPA 625	8B26045	2.9	19	ND	0.952	02/26/08	02/28/08	
Dibenzofuran	EPA 625	8B26045	3.8	9.5	ND	0.952	02/26/08	02/28/08	
Di-n-butyl phthalate	EPA 625	8B26045	2.9	19	ND	0.952	02/26/08	02/28/08	
1,3-Dichlorobenzene	EPA 625	8B26045	2.9	9.5	ND	0.952	02/26/08	02/28/08	
1,4-Dichlorobenzene	EPA 625	8B26045	2.4	9.5	ND	0.952	02/26/08	02/28/08	
1,2-Dichlorobenzene	EPA 625	8B26045	2.9	9.5	ND	0.952	02/26/08	02/28/08	
3,3-Dichlorobenzidine	EPA 625	8B26045	2.9	19	ND	0.952	02/26/08	02/28/08	
2,4-Dichlorophenol	EPA 625	8B26045	3.3	9.5	ND	0.952	02/26/08	02/28/08	
Diethyl phthalate	EPA 625	8B26045	3.3	9.5	ND	0.952	02/26/08	02/28/08	
2,4-Dimethylphenol	EPA 625	8B26045	3.3	19	ND	0.952	02/26/08	02/28/08	
Dimethyl phthalate	EPA 625	8B26045	1.9	9.5	ND	0.952	02/26/08	02/28/08	
4,6-Dinitro-2-methylphenol	EPA 625	8B26045	3.8	19	ND	0.952	02/26/08	02/28/08	
2,4-Dinitrophenol	EPA 625	8B26045	7.6	19	ND	0.952	02/26/08	02/28/08	
2,4-Dinitrotoluene	EPA 625	8B26045	3.3	9.5	ND	0.952	02/26/08	02/28/08	
2,6-Dinitrotoluene	EPA 625	8B26045	1.9	9.5	ND	0.952	02/26/08	02/28/08	
Di-n-octyl phthalate	EPA 625	8B26045	3.3	19	ND	0.952	02/26/08	02/28/08	
Fluoranthene	EPA 625	8B26045	2.9	9.5	ND	0.952	02/26/08	02/28/08	

TestAmerica Irvine

Joseph Doak
Project Manager

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

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

Project ID: Annual Outfall 013
Report Number: IRB2402

Sampled: 02/24/08
Received: 02/25/08

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: IRB2402-01 (Outfall 013 - Water) - cont.									
Reporting Units: ug/l									
Fluorene	EPA 625	8B26045	2.9	9.5	ND	0.952	02/26/08	02/28/08	
Hexachlorobenzene	EPA 625	8B26045	2.9	9.5	ND	0.952	02/26/08	02/28/08	
Hexachlorobutadiene	EPA 625	8B26045	3.8	9.5	ND	0.952	02/26/08	02/28/08	
Hexachlorocyclopentadiene	EPA 625	8B26045	4.8	19	ND	0.952	02/26/08	02/28/08	
Hexachloroethane	EPA 625	8B26045	3.3	9.5	ND	0.952	02/26/08	02/28/08	
Indeno(1,2,3-cd)pyrene	EPA 625	8B26045	3.3	19	ND	0.952	02/26/08	02/28/08	
Isophorone	EPA 625	8B26045	2.4	9.5	ND	0.952	02/26/08	02/28/08	
2-Methylnaphthalene	EPA 625	8B26045	1.9	9.5	ND	0.952	02/26/08	02/28/08	
2-Methylphenol	EPA 625	8B26045	2.9	9.5	ND	0.952	02/26/08	02/28/08	
4-Methylphenol	EPA 625	8B26045	2.9	9.5	ND	0.952	02/26/08	02/28/08	
Naphthalene	EPA 625	8B26045	2.9	9.5	ND	0.952	02/26/08	02/28/08	
2-Nitroaniline	EPA 625	8B26045	1.9	19	ND	0.952	02/26/08	02/28/08	
3-Nitroaniline	EPA 625	8B26045	2.9	19	ND	0.952	02/26/08	02/28/08	
4-Nitroaniline	EPA 625	8B26045	3.8	19	ND	0.952	02/26/08	02/28/08	
Nitrobenzene	EPA 625	8B26045	2.4	19	ND	0.952	02/26/08	02/28/08	
2-Nitrophenol	EPA 625	8B26045	3.3	9.5	ND	0.952	02/26/08	02/28/08	
4-Nitrophenol	EPA 625	8B26045	5.2	19	ND	0.952	02/26/08	02/28/08	
N-Nitrosodiphenylamine	EPA 625	8B26045	1.9	9.5	ND	0.952	02/26/08	02/28/08	
N-Nitroso-di-n-propylamine	EPA 625	8B26045	3.3	9.5	ND	0.952	02/26/08	02/28/08	
Pentachlorophenol	EPA 625	8B26045	3.3	19	ND	0.952	02/26/08	02/28/08	
Phenanthrene	EPA 625	8B26045	3.3	9.5	ND	0.952	02/26/08	02/28/08	
Phenol	EPA 625	8B26045	1.9	9.5	ND	0.952	02/26/08	02/28/08	
Pyrene	EPA 625	8B26045	3.8	9.5	ND	0.952	02/26/08	02/28/08	
1,2,4-Trichlorobenzene	EPA 625	8B26045	2.4	9.5	ND	0.952	02/26/08	02/28/08	
2,4,5-Trichlorophenol	EPA 625	8B26045	2.9	19	ND	0.952	02/26/08	02/28/08	
2,4,6-Trichlorophenol	EPA 625	8B26045	4.3	19	ND	0.952	02/26/08	02/28/08	
1,2-Diphenylhydrazine/Azobenzene	EPA 625	8B26045	2.4	19	ND	0.952	02/26/08	02/28/08	
N-Nitrosodimethylamine	EPA 625	8B26045	2.4	19	ND	0.952	02/26/08	02/28/08	
Surrogate: 2-Fluorophenol (30-120%)					*66 %*				
Surrogate: Phenol-d6 (35-120%)					*72 %*				
Surrogate: 2,4,6-Tribromophenol (40-120%)					*95 %*				
Surrogate: Nitrobenzene-d5 (45-120%)					*76 %*				
Surrogate: 2-Fluorobiphenyl (50-120%)					*74 %*				
Surrogate: Terphenyl-d14 (50-125%)					*80 %*				

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Project Manager

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

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

Project ID: Annual Outfall 013
Report Number: IRB2402

Sampled: 02/24/08
Received: 02/25/08

ORGANOCHLORINE PESTICIDES (EPA 608)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRB2402-01 (Outfall 013 - Water) - cont.									
Reporting Units: ug/l									
Aldrin	EPA 608	8B25062	0.0014	0.0047	ND	0.943	02/25/08	02/25/08	
alpha-BHC	EPA 608	8B25062	0.0024	0.0047	ND	0.943	02/25/08	02/25/08	
beta-BHC	EPA 608	8B25062	0.0038	0.0094	ND	0.943	02/25/08	02/25/08	
delta-BHC	EPA 608	8B25062	0.0033	0.0047	ND	0.943	02/25/08	02/25/08	
gamma-BHC (Lindane)	EPA 608	8B25062	0.0028	0.0094	ND	0.943	02/25/08	02/25/08	
Chlordane	EPA 608	8B25062	0.028	0.094	ND	0.943	02/25/08	02/25/08	
4,4'-DDD	EPA 608	8B25062	0.0019	0.0047	ND	0.943	02/25/08	02/25/08	
4,4'-DDE	EPA 608	8B25062	0.0028	0.0047	ND	0.943	02/25/08	02/25/08	
4,4'-DDT	EPA 608	8B25062	0.0038	0.0094	ND	0.943	02/25/08	02/25/08	
Dieldrin	EPA 608	8B25062	0.0019	0.0047	ND	0.943	02/25/08	02/25/08	
Endosulfan I	EPA 608	8B25062	0.0019	0.0047	ND	0.943	02/25/08	02/25/08	
Endosulfan II	EPA 608	8B25062	0.0028	0.0047	ND	0.943	02/25/08	02/25/08	
Endosulfan sulfate	EPA 608	8B25062	0.0028	0.0094	ND	0.943	02/25/08	02/25/08	
Endrin	EPA 608	8B25062	0.0019	0.0047	ND	0.943	02/25/08	02/25/08	
Endrin aldehyde	EPA 608	8B25062	0.0019	0.0094	ND	0.943	02/25/08	02/25/08	
Endrin ketone	EPA 608	8B25062	0.0028	0.0094	ND	0.943	02/25/08	02/25/08	
Heptachlor	EPA 608	8B25062	0.0028	0.0094	ND	0.943	02/25/08	02/25/08	
Heptachlor epoxide	EPA 608	8B25062	0.0024	0.0047	ND	0.943	02/25/08	02/25/08	
Methoxychlor	EPA 608	8B25062	0.0033	0.0047	ND	0.943	02/25/08	02/25/08	
Toxaphene	EPA 608	8B25062	0.066	0.094	ND	0.943	02/25/08	02/25/08	
Surrogate: Decachlorobiphenyl (45-120%)					*78 %*				
Surrogate: Tetrachloro-m-xylene (35-115%)					*60 %*				

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Joseph Doak
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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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: IRB2402-01 (Outfall 013 - Water) - cont.									
Reporting Units: ug/l									
Aroclor 1016	EPA 608	8B25062	0.42	0.47	ND	0.943	02/25/08	02/26/08	
Aroclor 1221	EPA 608	8B25062	0.24	0.47	ND	0.943	02/25/08	02/26/08	
Aroclor 1232	EPA 608	8B25062	0.24	0.47	ND	0.943	02/25/08	02/26/08	
Aroclor 1242	EPA 608	8B25062	0.24	0.47	ND	0.943	02/25/08	02/26/08	
Aroclor 1248	EPA 608	8B25062	0.24	0.47	ND	0.943	02/25/08	02/26/08	
Aroclor 1254	EPA 608	8B25062	0.24	0.47	ND	0.943	02/25/08	02/26/08	
Aroclor 1260	EPA 608	8B25062	0.28	0.47	ND	0.943	02/25/08	02/26/08	
Surrogate: Decachlorobiphenyl (45-120%)					*95 %*				

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Project Manager

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METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRB2402-01 (Outfall 013 - Water) - cont.									
Reporting Units: mg/l									
Hardness as CaCO3	SM2340B	[CALC]	N/A	0.33	**23**	1	02/27/08	02/29/08	
Boron	EPA 200.7	8B27069	0.020	0.050	ND	1	02/27/08	02/29/08	
Calcium	EPA 200.7	8B27069	0.050	0.10	**7.7**	1	02/27/08	02/29/08	
Magnesium	EPA 200.7	8B27069	0.012	0.020	**0.85**	1	02/27/08	02/29/08	

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Project Manager

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METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRB2402-01 (Outfall 013 - Water) - cont.									
Reporting Units: ug/l									
Antimony	EPA 200.8	8B28067	0.20	2.0	**2.5**	1	02/28/08	02/28/08	
Arsenic	EPA 200.7	8B27069	7.0	10	ND	1	02/27/08	02/29/08	
Beryllium	EPA 200.7	8B27069	0.90	2.0	ND	1	02/27/08	02/29/08	
Cadmium	EPA 200.8	8B28067	0.11	1.0	**1.9**	1	02/28/08	02/28/08	
Chromium	EPA 200.7	8B27069	2.0	5.0	ND	1	02/27/08	02/29/08	
Copper	EPA 200.8	8B28067	0.75	2.0	**2.8**	1	02/28/08	02/28/08	
Lead	EPA 200.8	8B28067	0.30	1.0	**1.7**	1	02/28/08	02/28/08	
Nickel	EPA 200.7	8B27069	2.0	10	ND	1	02/27/08	02/29/08	
Selenium	EPA 200.8	8B28067	0.30	2.0	ND	1	02/28/08	02/28/08	
Silver	EPA 200.8	8B28067	0.30	1.0	ND	1	02/28/08	02/28/08	
Thallium	EPA 200.8	8B28067	0.20	1.0	ND	1	02/28/08	02/28/08	
Zinc	EPA 200.8	8B28067	2.5	20	**66**	1	02/28/08	02/28/08	

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Joseph Doak
Project Manager

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

MWH-Pasadena/Boeing
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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: IRB2402-01 (Outfall 013 - Water) - cont.									
Reporting Units: mg/l									
Boron	EPA 200.7-Diss	8B25122	0.020	0.050	ND	1	02/25/08	02/26/08	
Calcium	EPA 200.7-Diss	8B25122	0.050	0.10	**7.7**	1	02/25/08	02/26/08	
Magnesium	EPA 200.7-Diss	8B25122	0.012	0.020	**0.88**	1	02/25/08	02/26/08	
Hardness (as CaCO3)	SM2340B	8B25122	1.0	1.0	**23**	1	02/25/08	02/26/08	

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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: IRB2402-01 (Outfall 013 - Water) - cont.									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	8B25123	0.20	2.0	**2.4**	1	02/25/08	02/26/08	
Arsenic	EPA 200.7-Diss	8B25122	7.0	10	ND	1	02/25/08	02/26/08	
Beryllium	EPA 200.7-Diss	8B25122	0.90	2.0	ND	1	02/25/08	02/26/08	
Cadmium	EPA 200.8-Diss	8B25123	0.11	1.0	**1.6**	1	02/25/08	02/26/08	
Chromium	EPA 200.7-Diss	8B25122	2.0	5.0	ND	1	02/25/08	02/26/08	
Copper	EPA 200.8-Diss	8B25123	0.75	2.0	**1.6**	1	02/25/08	02/26/08	J
Lead	EPA 200.8-Diss	8B25123	0.30	1.0	**0.50**	1	02/25/08	02/26/08	J
Nickel	EPA 200.7-Diss	8B25122	2.0	10	ND	1	02/25/08	02/26/08	
Selenium	EPA 200.8-Diss	8B25123	0.30	2.0	ND	1	02/25/08	02/26/08	
Silver	EPA 200.8-Diss	8C04081	0.30	1.0	ND	1	03/04/08	03/04/08	
Thallium	EPA 200.8-Diss	8B25123	0.20	1.0	ND	1	02/25/08	02/26/08	
Zinc	EPA 200.8-Diss	8B25123	2.5	20	**64**	1	02/25/08	02/26/08	

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Joseph Doak
Project Manager

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRB2402-01 (Outfall 013 - Water) - cont.									
Reporting Units: mg/l									
Hexane Extractable Material (Oil & Grease)	EPA 1664A	8C04046	1.3	4.7	**1.6**	1	03/04/08	03/04/08	J
Ammonia-N (Distilled)	EPA 350.2	8B26101	0.30	0.50	ND	1	02/26/08	02/26/08	
Biochemical Oxygen Demand	EPA 405.1	8B25101	0.59	2.0	**1.5**	1	02/25/08	03/01/08	J
Chloride	EPA 300.0	8B25042	0.25	0.50	**11**	1	02/25/08	02/25/08	
Total Cyanide	EPA 335.2	8B26098	0.0022	0.0050	ND	1	02/26/08	02/26/08	
Fluoride	EPA 340.2	8B25072	0.014	0.10	**0.12**	1	02/25/08	02/25/08	B
Nitrate-N	EPA 300.0	8B25042	0.060	0.11	**0.72**	1	02/25/08	02/25/08	
Nitrite-N	EPA 300.0	8B25042	0.090	0.15	ND	1	02/25/08	02/25/08	
Nitrate/Nitrite-N	EPA 300.0	8B25042	0.15	0.26	**0.72**	1	02/25/08	02/25/08	
Sulfate	EPA 300.0	8B25042	0.20	0.50	**4.2**	1	02/25/08	02/25/08	
Total Dissolved Solids	SM2540C	8B27119	10	10	**96**	1	02/27/08	02/27/08	
Total Suspended Solids	EPA 160.2	8B28123	10	10	ND	1	02/28/08	02/28/08	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRB2402-01 (Outfall 013 - Water) - cont.									
Reporting Units: ml/l/hr									
Total Settleable Solids	EPA 160.5	8B26062	0.10	0.10	ND	1	02/26/08	02/26/08	

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Joseph Doak
Project Manager

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRB2402-01 (Outfall 013 - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	8B26063	0.040	1.0	**3.0**	1	02/26/08	02/26/08	

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Project Manager

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRB2402-01 (Outfall 013 - Water) - cont.									
Reporting Units: ug/l									
Perchlorate	EPA 314.0	8B28045	1.5	4.0	ND	1	02/28/08	02/29/08	

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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: IRB2402-01 (Outfall 013 - Water) - cont.									
Reporting Units: ug/l									
Mercury, Dissolved	EPA 245.1	W8B0982	0.050	0.20	ND	1	02/26/08	02/27/08	
Mercury, Total	EPA 245.1	W8B0982	0.050	0.20	ND	1	02/26/08	02/27/08	

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Sampled: 02/24/08
Received: 02/25/08

SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: Outfall 013 (IRB2402-01) - Water					
EPA 160.5	2	02/24/2008 10:00	02/25/2008 05:20	02/26/2008 09:25	02/26/2008 09:25
EPA 180.1	2	02/24/2008 10:00	02/25/2008 05:20	02/26/2008 09:55	02/26/2008 09:55
EPA 300.0	2	02/24/2008 10:00	02/25/2008 05:20	02/25/2008 07:00	02/25/2008 10:23
EPA 405.1	2	02/24/2008 10:00	02/25/2008 05:20	02/25/2008 16:53	03/01/2008 10:00
EPA 624	3	02/24/2008 10:00	02/25/2008 05:20	02/26/2008 00:00	02/26/2008 12:20
Filtration	1	02/24/2008 10:00	02/25/2008 05:20	02/25/2008 09:45	02/25/2008 10:11
Sample ID: Trip Blanks (IRB2402-02) - Water					
EPA 624	3	02/24/2008 17:00	02/25/2008 05:20	02/26/2008 00:00	02/26/2008 09:17

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Joseph Doak
Project Manager

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MWH-Pasadena/Boeing
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METHOD BLANK/QC DATA

EXTRACTABLE FUEL HYDROCARBONS (CADHS/8015 Modified)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8B27068 Extracted: 02/27/08											
Blank Analyzed: 02/27/2008 (8B27068-BLK1)											
DRO (C13-C22)	ND	0.10	0.027	mg/l							
Surrogate: n-Octacosane	*0.154*			*mg/l*	*0.200*		*77*	*40-125*			
LCS Analyzed: 02/27/2008 (8B27068-BS1)											**MNR1**
EFH (C13 - C40)	0.483	0.10	0.027	mg/l	0.750		64	40-115			
Surrogate: n-Octacosane	*0.139*			*mg/l*	*0.200*		*70*	*40-125*			
LCS Dup Analyzed: 02/27/2008 (8B27068-BSD1)											
EFH (C13 - C40)	0.530	0.10	0.027	mg/l	0.750		71	40-115	9	25	
Surrogate: n-Octacosane	*0.148*			*mg/l*	*0.200*		*74*	*40-125*			

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Joseph Doak
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

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

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

Project ID: Annual Outfall 013
Report Number: IRB2402

Sampled: 02/24/08
Received: 02/25/08

METHOD BLANK/QC DATA

VOLATILE FUEL HYDROCARBONS (EPA 5030/8015M)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8B28031 Extracted: 02/28/08											
Blank Analyzed: 02/28/2008 (8B28031-BLK1)											
GRO (C4 - C12)	ND	0.050	0.030	mg/l							
Surrogate: 4-BFB (FID)	*0.00798*			*mg/l*	*0.0100*		*80*	*65-140*			
LCS Analyzed: 02/28/2008 (8B28031-BS1)											
GRO (C4 - C12)	0.745	0.050	0.030	mg/l	0.800		93	80-120			
Surrogate: 4-BFB (FID)	*0.0132*			*mg/l*	*0.0100*		*132*	*65-140*			
Matrix Spike Analyzed: 02/28/2008 (8B28031-MS1)						**Source: IRB2289-01**					
GRO (C4 - C12)	0.217	0.050	0.030	mg/l	0.220	ND	99	65-140			
Surrogate: 4-BFB (FID)	*0.00954*			*mg/l*	*0.0100*		*95*	*65-140*			
Matrix Spike Dup Analyzed: 02/28/2008 (8B28031-MSD1)						**Source: IRB2289-01**					
GRO (C4 - C12)	0.209	0.050	0.030	mg/l	0.220	ND	95	65-140	4	20	
Surrogate: 4-BFB (FID)	*0.00861*			*mg/l*	*0.0100*		*86*	*65-140*			

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Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

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

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

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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GCMS SIM

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8B27016 Extracted: 02/27/08											
Blank Analyzed: 02/27/2008 (8B27016-BLK1)											
1,4-Dioxane	ND	2.0	1.0	ug/l							
Surrogate: Dibromofluoromethane	*1.04*			*ug/l*	*1.00*		*104*	*80-120*			
LCS Analyzed: 02/27/2008 (8B27016-BS1)											
1,4-Dioxane	8.15	2.0	1.0	ug/l	10.0		82	70-125			
Surrogate: Dibromofluoromethane	*1.06*			*ug/l*	*1.00*		*106*	*80-120*			
Matrix Spike Analyzed: 02/27/2008 (8B27016-MS1)						**Source: IRB1997-01**					
1,4-Dioxane	8.11	2.0	1.0	ug/l	10.0	ND	81	70-130			
Surrogate: Dibromofluoromethane	*1.01*			*ug/l*	*1.00*		*101*	*80-120*			
Matrix Spike Dup Analyzed: 02/27/2008 (8B27016-MSD1)						**Source: IRB1997-01**					
1,4-Dioxane	8.43	2.0	1.0	ug/l	10.0	ND	84	70-130	4	30	
Surrogate: Dibromofluoromethane	*0.910*			*ug/l*	*1.00*		*91*	*80-120*			

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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
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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: 8B28024 Extracted: 02/28/08											
Blank Analyzed: 02/28/2008 (8B28024-BLK1)											
1,1,1-Trichloroethane	ND	0.50	0.30	ug/l							
1,2,3-Trichloropropane	ND	1.0	0.40	ug/l							
1,1,2,2-Tetrachloroethane	ND	0.50	0.24	ug/l							
1,2-Dibromoethane (EDB)	ND	0.50	0.40	ug/l							
1,1,2-Trichloroethane	ND	0.50	0.30	ug/l							
Di-isopropyl Ether (DIPE)	ND	0.50	0.25	ug/l							
1,1-Dichloroethane	ND	0.50	0.27	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	0.50	0.32	ug/l							
1,1-Dichloroethene	ND	0.50	0.42	ug/l							
tert-Butanol (TBA)	ND	10	4.9	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							

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MWH-Pasadena/Boeing
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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: 8B28024 Extracted: 02/28/08											
Blank Analyzed: 02/28/2008 (8B28024-BLK1)											
Vinyl chloride	ND	0.50	0.30	ug/l							
Xylenes, Total	ND	1.5	0.90	ug/l							
Surrogate: Dibromofluoromethane	*23.6*			*ug/l*	*25.0*		*94*	*80-120*			
Surrogate: Toluene-d8	*25.1*			*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*21.6*			*ug/l*	*25.0*		*86*	*80-120*			
LCS Analyzed: 02/28/2008 (8B28024-BS1)											
1,1,1-Trichloroethane	24.3	0.50	0.30	ug/l	25.0		97	65-135			
1,2,3-Trichloropropane	23.3	1.0	0.40	ug/l	25.0		93	60-130			
1,1,2,2-Tetrachloroethane	21.4	0.50	0.24	ug/l	25.0		86	55-130			
1,2-Dibromoethane (EDB)	23.8	0.50	0.40	ug/l	25.0		95	75-125			
1,1,2-Trichloroethane	24.0	0.50	0.30	ug/l	25.0		96	70-125			
Di-isopropyl Ether (DIPE)	26.8	0.50	0.25	ug/l	25.0		107	60-135			
1,1-Dichloroethane	21.7	0.50	0.27	ug/l	25.0		87	70-125			
Methyl-tert-butyl Ether (MTBE)	27.2	0.50	0.32	ug/l	25.0		109	60-135			
1,1-Dichloroethene	20.6	0.50	0.42	ug/l	25.0		82	70-125			
tert-Butanol (TBA)	126	10	4.9	ug/l	125		101	70-135			
1,2-Dichloroethane	24.2	0.50	0.28	ug/l	25.0		97	60-140			
1,2-Dichlorobenzene	25.5	0.50	0.32	ug/l	25.0		102	75-120			
1,2-Dichloropropane	23.9	0.50	0.35	ug/l	25.0		95	70-125			
1,3-Dichlorobenzene	24.1	0.50	0.35	ug/l	25.0		96	75-120			
1,4-Dichlorobenzene	23.1	0.50	0.37	ug/l	25.0		92	75-120			
Benzene	21.9	0.50	0.28	ug/l	25.0		88	70-120			
Bromodichloromethane	25.4	0.50	0.30	ug/l	25.0		102	70-135			
Bromoform	24.4	0.50	0.40	ug/l	25.0		98	55-130			
Bromomethane	24.1	1.0	0.42	ug/l	25.0		96	65-140			
Carbon tetrachloride	23.2	0.50	0.28	ug/l	25.0		93	65-140			
Chlorobenzene	23.8	0.50	0.36	ug/l	25.0		95	75-120			
Chloroethane	23.1	1.0	0.40	ug/l	25.0		92	60-140			
Chloroform	22.9	0.50	0.33	ug/l	25.0		92	70-130			
Chloromethane	22.2	0.50	0.40	ug/l	25.0		89	50-140			
cis-1,3-Dichloropropene	23.4	0.50	0.22	ug/l	25.0		93	75-125			
Dibromochloromethane	25.6	0.50	0.28	ug/l	25.0		102	70-140			
Ethylbenzene	26.3	0.50	0.25	ug/l	25.0		105	75-125			
Methylene chloride	21.6	1.0	0.95	ug/l	25.0		86	55-130			
Tetrachloroethene	25.1	0.50	0.32	ug/l	25.0		100	70-125			

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Joseph Doak
Project Manager

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

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

Project ID: Annual Outfall 013
Report Number: IRB2402

Sampled: 02/24/08
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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: 8B28024 Extracted: 02/28/08											
LCS Analyzed: 02/28/2008 (8B28024-BS1)											
Toluene	23.6	0.50	0.36	ug/l	25.0		95	70-120			
trans-1,2-Dichloroethene	23.4	0.50	0.27	ug/l	25.0		93	70-125			
trans-1,3-Dichloropropene	21.7	0.50	0.32	ug/l	25.0		87	70-125			
Trichloroethene	23.2	0.50	0.26	ug/l	25.0		93	70-125			
Trichlorofluoromethane	24.8	0.50	0.34	ug/l	25.0		99	65-145			
Vinyl chloride	23.1	0.50	0.30	ug/l	25.0		92	55-135			
Xylenes, Total	78.1	1.5	0.90	ug/l	75.0		104	70-125			
Surrogate: Dibromofluoromethane	*24.3*			*ug/l*	*25.0*		*97*	*80-120*			
Surrogate: Toluene-d8	*24.2*			*ug/l*	*25.0*		*97*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.2*			*ug/l*	*25.0*		*101*	*80-120*			
Matrix Spike Analyzed: 02/28/2008 (8B28024-MS1)						**Source: IRB2429-01**					
1,1,1-Trichloroethane	24.8	0.50	0.30	ug/l	25.0	ND	99	65-140			
1,2,3-Trichloropropane	24.3	1.0	0.40	ug/l	25.0	ND	97	55-135			
1,1,2,2-Tetrachloroethane	23.8	0.50	0.24	ug/l	25.0	ND	95	55-135			
1,2-Dibromoethane (EDB)	24.9	0.50	0.40	ug/l	25.0	ND	100	70-130			
1,1,2-Trichloroethane	26.8	0.50	0.30	ug/l	25.0	ND	107	65-130			
Di-isopropyl Ether (DIPE)	27.9	0.50	0.25	ug/l	25.0	ND	111	60-140			
1,1-Dichloroethane	22.7	0.50	0.27	ug/l	25.0	ND	91	65-130			
Methyl-tert-butyl Ether (MTBE)	32.8	0.50	0.32	ug/l	25.0	5.22	110	55-145			
1,1-Dichloroethene	25.9	0.50	0.42	ug/l	25.0	ND	103	60-130			
tert-Butanol (TBA)	224	10	4.9	ug/l	125	86.0	111	65-140			
1,2-Dichloroethane	29.0	0.50	0.28	ug/l	25.0	1.47	110	60-140			
1,2-Dichlorobenzene	26.3	0.50	0.32	ug/l	25.0	ND	105	75-125			
1,2-Dichloropropane	26.5	0.50	0.35	ug/l	25.0	ND	106	65-130			
1,3-Dichlorobenzene	25.2	0.50	0.35	ug/l	25.0	ND	101	75-125			
1,4-Dichlorobenzene	24.1	0.50	0.37	ug/l	25.0	ND	96	75-125			
Benzene	24.0	0.50	0.28	ug/l	25.0	ND	96	65-125			
Bromodichloromethane	28.5	0.50	0.30	ug/l	25.0	ND	114	70-135			
Bromoform	25.6	0.50	0.40	ug/l	25.0	ND	102	55-135			
Bromomethane	24.2	1.0	0.42	ug/l	25.0	ND	97	55-145			
Carbon tetrachloride	25.8	0.50	0.28	ug/l	25.0	ND	103	65-140			
Chlorobenzene	24.7	0.50	0.36	ug/l	25.0	ND	99	75-125			
Chloroethane	23.3	1.0	0.40	ug/l	25.0	ND	93	55-140			
Chloroform	23.4	0.50	0.33	ug/l	25.0	ND	94	65-135			
Chloromethane	22.4	0.50	0.40	ug/l	25.0	ND	90	45-145			

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Joseph Doak
Project Manager

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

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

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Received: 02/25/08

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: 8B28024 Extracted: 02/28/08											
Matrix Spike Analyzed: 02/28/2008 (8B28024-MS1)						**Source: IRB2429-01**					
cis-1,3-Dichloropropene	25.4	0.50	0.22	ug/l	25.0	ND	101	70-130			
Dibromochloromethane	26.1	0.50	0.28	ug/l	25.0	ND	104	65-140			
Ethylbenzene	27.2	0.50	0.25	ug/l	25.0	ND	109	65-130			
Methylene chloride	24.3	1.0	0.95	ug/l	25.0	ND	97	50-135			
Tetrachloroethene	23.9	0.50	0.32	ug/l	25.0	ND	96	65-130			
Toluene	26.8	0.50	0.36	ug/l	25.0	ND	107	70-125			
trans-1,2-Dichloroethene	22.9	0.50	0.27	ug/l	25.0	ND	91	65-130			
trans-1,3-Dichloropropene	24.5	0.50	0.32	ug/l	25.0	ND	98	65-135			
Trichloroethene	26.0	0.50	0.26	ug/l	25.0	ND	104	65-125			
Trichlorofluoromethane	25.4	0.50	0.34	ug/l	25.0	ND	102	60-145			
Vinyl chloride	22.6	0.50	0.30	ug/l	25.0	ND	90	45-140			
Xylenes, Total	79.0	1.5	0.90	ug/l	75.0	ND	105	60-130			
Surrogate: Dibromofluoromethane	*23.5*			*ug/l*	*25.0*		*94*	*80-120*			
Surrogate: Toluene-d8	*25.2*			*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.0*			*ug/l*	*25.0*		*96*	*80-120*			
Matrix Spike Dup Analyzed: 02/28/2008 (8B28024-MSD1)						**Source: IRB2429-01**					
1,1,1-Trichloroethane	24.2	0.50	0.30	ug/l	25.0	ND	97	65-140	3	20	
1,2,3-Trichloropropane	24.4	1.0	0.40	ug/l	25.0	ND	98	55-135	1	30	
1,1,2,2-Tetrachloroethane	23.5	0.50	0.24	ug/l	25.0	ND	94	55-135	1	30	
1,2-Dibromoethane (EDB)	23.8	0.50	0.40	ug/l	25.0	ND	95	70-130	4	25	
1,1,2-Trichloroethane	26.0	0.50	0.30	ug/l	25.0	ND	104	65-130	3	25	
Di-isopropyl Ether (DIPE)	26.9	0.50	0.25	ug/l	25.0	ND	107	60-140	4	25	
1,1-Dichloroethane	23.0	0.50	0.27	ug/l	25.0	ND	92	65-130	1	20	
Methyl-tert-butyl Ether (MTBE)	32.8	0.50	0.32	ug/l	25.0	5.22	110	55-145	0	25	
1,1-Dichloroethene	26.6	0.50	0.42	ug/l	25.0	ND	106	60-130	3	20	
tert-Butanol (TBA)	206	10	4.9	ug/l	125	86.0	96	65-140	9	25	
1,2-Dichloroethane	27.8	0.50	0.28	ug/l	25.0	1.47	105	60-140	4	20	
1,2-Dichlorobenzene	26.3	0.50	0.32	ug/l	25.0	ND	105	75-125	0	20	
1,2-Dichloropropane	25.9	0.50	0.35	ug/l	25.0	ND	104	65-130	2	20	
1,3-Dichlorobenzene	25.5	0.50	0.35	ug/l	25.0	ND	102	75-125	1	20	
1,4-Dichlorobenzene	23.8	0.50	0.37	ug/l	25.0	ND	95	75-125	1	20	
Benzene	23.3	0.50	0.28	ug/l	25.0	ND	93	65-125	3	20	
Bromodichloromethane	26.7	0.50	0.30	ug/l	25.0	ND	107	70-135	7	20	
Bromoform	24.8	0.50	0.40	ug/l	25.0	ND	99	55-135	3	25	
Bromomethane	23.6	1.0	0.42	ug/l	25.0	ND	94	55-145	2	25	

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Joseph Doak
Project Manager

TestAmerica
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MWH-Pasadena/Boeing
618 Michillinda Avenue, Suite 200
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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: 8B28024 Extracted: 02/28/08											
Matrix Spike Dup Analyzed: 02/28/2008 (8B28024-MSD1)						**Source: IRB2429-01**					
Carbon tetrachloride	24.9	0.50	0.28	ug/l	25.0	ND	99	65-140	4	25	
Chlorobenzene	23.5	0.50	0.36	ug/l	25.0	ND	94	75-125	5	20	
Chloroethane	23.6	1.0	0.40	ug/l	25.0	ND	94	55-140	1	25	
Chloroform	23.0	0.50	0.33	ug/l	25.0	ND	92	65-135	2	20	
Chloromethane	23.1	0.50	0.40	ug/l	25.0	ND	92	45-145	3	25	
cis-1,3-Dichloropropene	25.1	0.50	0.22	ug/l	25.0	ND	100	70-130	1	20	
Dibromochloromethane	25.8	0.50	0.28	ug/l	25.0	ND	103	65-140	1	25	
Ethylbenzene	26.3	0.50	0.25	ug/l	25.0	ND	105	65-130	3	20	
Methylene chloride	23.5	1.0	0.95	ug/l	25.0	ND	94	50-135	3	20	
Tetrachloroethene	23.7	0.50	0.32	ug/l	25.0	ND	95	65-130	1	20	
Toluene	25.7	0.50	0.36	ug/l	25.0	ND	103	70-125	4	20	
trans-1,2-Dichloroethene	23.8	0.50	0.27	ug/l	25.0	ND	95	65-130	4	20	
trans-1,3-Dichloropropene	23.8	0.50	0.32	ug/l	25.0	ND	95	65-135	3	25	
Trichloroethene	24.2	0.50	0.26	ug/l	25.0	ND	97	65-125	7	20	
Trichlorofluoromethane	25.2	0.50	0.34	ug/l	25.0	ND	101	60-145	1	25	
Vinyl chloride	23.9	0.50	0.30	ug/l	25.0	ND	96	45-140	6	30	
Xylenes, Total	76.5	1.5	0.90	ug/l	75.0	ND	102	60-130	3	20	
Surrogate: Dibromofluoromethane	*23.5*			*ug/l*	*25.0*		*94*	*80-120*			
Surrogate: Toluene-d8	*24.8*			*ug/l*	*25.0*		*99*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.1*			*ug/l*	*25.0*		*97*	*80-120*			

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 013
Report Number: IRB2402

Sampled: 02/24/08
Received: 02/25/08

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: 8B26001 Extracted: 02/26/08											
Blank Analyzed: 02/26/2008 (8B26001-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	*23.8*			*ug/l*	*25.0*		*95*	*80-120*			
Surrogate: Toluene-d8	*25.1*			*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*22.4*			*ug/l*	*25.0*		*89*	*80-120*			
LCS Analyzed: 02/26/2008 (8B26001-BS1)											
2-Chloroethyl vinyl ether	19.0	5.0	1.8	ug/l	25.0		76	25-170			
Surrogate: Dibromofluoromethane	*24.3*			*ug/l*	*25.0*		*97*	*80-120*			
Surrogate: Toluene-d8	*25.4*			*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.5*			*ug/l*	*25.0*		*94*	*80-120*			
Matrix Spike Analyzed: 02/26/2008 (8B26001-MS1)						**Source: IRB2176-03**					
2-Chloroethyl vinyl ether	ND	5.0	1.8	ug/l	25.0	ND		25-170			*M13*
Surrogate: Dibromofluoromethane	*25.0*			*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: Toluene-d8	*25.2*			*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.6*			*ug/l*	*25.0*		*94*	*80-120*			
Matrix Spike Dup Analyzed: 02/26/2008 (8B26001-MSD1)						**Source: IRB2176-03**					
2-Chloroethyl vinyl ether	ND	5.0	1.8	ug/l	25.0	ND		25-170		25	*M13*
Surrogate: Dibromofluoromethane	*24.6*			*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: Toluene-d8	*25.0*			*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.7*			*ug/l*	*25.0*		*95*	*80-120*			

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

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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: 8B26045 Extracted: 02/26/08											
Blank Analyzed: 02/28/2008 (8B26045-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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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 013
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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: 8B26045 Extracted: 02/26/08											
Blank Analyzed: 02/28/2008 (8B26045-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	*154*			*ug/l*	*200*		*77*	*30-120*			

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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

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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: 8B26045 Extracted: 02/26/08											
Blank Analyzed: 02/28/2008 (8B26045-BLK1)											
Surrogate: Phenol-d6	*164*			*ug/l*	*200*		*82*	*35-120*			
Surrogate: 2,4,6-Tribromophenol	*202*			*ug/l*	*200*		*101*	*40-120*			
Surrogate: Nitrobenzene-d5	*83.0*			*ug/l*	*100*		*83*	*45-120*			
Surrogate: 2-Fluorobiphenyl	*81.4*			*ug/l*	*100*		*81*	*50-120*			
Surrogate: Terphenyl-d14	*87.6*			*ug/l*	*100*		*88*	*50-125*			
LCS Analyzed: 02/28/2008 (8B26045-BS1)											**MNR1**
Acenaphthene	77.4	10	3.0	ug/l	100		77	60-120			
Acenaphthylene	82.4	10	3.0	ug/l	100		82	60-120			
Aniline	77.7	10	2.5	ug/l	100		78	35-120			
Anthracene	83.1	10	2.0	ug/l	100		83	65-120			
Benzidine	53.1	20	8.5	ug/l	100		53	30-160			
Benzoic acid	67.9	20	10	ug/l	100		68	25-120			
Benzo(a)anthracene	77.1	10	2.0	ug/l	100		77	65-120			
Benzo(b)fluoranthene	71.1	10	2.0	ug/l	100		71	55-125			
Benzo(k)fluoranthene	77.5	10	2.5	ug/l	100		78	50-125			
Benzo(g,h,i)perylene	73.8	10	4.0	ug/l	100		74	45-135			
Benzo(a)pyrene	77.8	10	2.0	ug/l	100		78	55-130			
Benzyl alcohol	73.9	20	2.5	ug/l	100		74	50-120			
Bis(2-chloroethoxy)methane	71.6	10	3.0	ug/l	100		72	55-120			
Bis(2-chloroethyl)ether	67.3	10	3.0	ug/l	100		67	50-120			
Bis(2-chloroisopropyl)ether	71.4	10	2.5	ug/l	100		71	45-120			
Bis(2-ethylhexyl)phthalate	77.2	50	4.0	ug/l	100		77	65-130			
4-Bromophenyl phenyl ether	78.6	10	3.0	ug/l	100		79	60-120			
Butyl benzyl phthalate	80.9	20	4.0	ug/l	100		81	55-130			
4-Chloroaniline	77.8	10	2.0	ug/l	100		78	55-120			
2-Chloronaphthalene	75.0	10	3.0	ug/l	100		75	60-120			
4-Chloro-3-methylphenol	79.2	20	2.5	ug/l	100		79	60-120			
2-Chlorophenol	65.3	10	3.0	ug/l	100		65	45-120			
4-Chlorophenyl phenyl ether	76.8	10	2.5	ug/l	100		77	65-120			
Chrysene	73.7	10	2.5	ug/l	100		74	65-120			
Dibenz(a,h)anthracene	74.8	20	3.0	ug/l	100		75	50-135			
Dibenzofuran	77.3	10	4.0	ug/l	100		77	65-120			
Di-n-butyl phthalate	85.1	20	3.0	ug/l	100		85	60-125			
1,3-Dichlorobenzene	62.8	10	3.0	ug/l	100		63	35-120			
1,4-Dichlorobenzene	61.4	10	2.5	ug/l	100		61	35-120			

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 013
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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: 8B26045 Extracted: 02/26/08											
LCS Analyzed: 02/28/2008 (8B26045-BS1)											**MNR1**
1,2-Dichlorobenzene	63.4	10	3.0	ug/l	100		63	40-120			
3,3-Dichlorobenzidine	57.7	20	3.0	ug/l	100		58	45-135			
2,4-Dichlorophenol	75.8	10	3.5	ug/l	100		76	55-120			
Diethyl phthalate	83.4	10	3.5	ug/l	100		83	55-120			
2,4-Dimethylphenol	63.7	20	3.5	ug/l	100		64	40-120			
Dimethyl phthalate	79.6	10	2.0	ug/l	100		80	30-120			
4,6-Dinitro-2-methylphenol	78.7	20	4.0	ug/l	100		79	45-120			
2,4-Dinitrophenol	74.5	20	8.0	ug/l	100		75	40-120			
2,4-Dinitrotoluene	87.1	10	3.5	ug/l	100		87	65-120			
2,6-Dinitrotoluene	76.9	10	2.0	ug/l	100		77	65-120			
Di-n-octyl phthalate	79.3	20	3.5	ug/l	100		79	65-135			
Fluoranthene	78.9	10	3.0	ug/l	100		79	60-120			
Fluorene	76.9	10	3.0	ug/l	100		77	65-120			
Hexachlorobenzene	77.9	10	3.0	ug/l	100		78	60-120			
Hexachlorobutadiene	66.2	10	4.0	ug/l	100		66	40-120			
Hexachlorocyclopentadiene	75.7	20	5.0	ug/l	100		76	25-120			
Hexachloroethane	60.6	10	3.5	ug/l	100		61	35-120			
Indeno(1,2,3-cd)pyrene	71.2	20	3.5	ug/l	100		71	45-135			
Isophorone	75.6	10	2.5	ug/l	100		76	50-120			
2-Methylnaphthalene	75.1	10	2.0	ug/l	100		75	55-120			
2-Methylphenol	69.8	10	3.0	ug/l	100		70	50-120			
4-Methylphenol	70.5	10	3.0	ug/l	100		71	50-120			
Naphthalene	70.3	10	3.0	ug/l	100		70	55-120			
2-Nitroaniline	81.3	20	2.0	ug/l	100		81	65-120			
3-Nitroaniline	79.5	20	3.0	ug/l	100		79	60-120			
4-Nitroaniline	89.8	20	4.0	ug/l	100		90	55-125			
Nitrobenzene	71.0	20	2.5	ug/l	100		71	55-120			
2-Nitrophenol	68.6	10	3.5	ug/l	100		69	50-120			
4-Nitrophenol	75.3	20	5.5	ug/l	100		75	45-120			
N-Nitrosodiphenylamine	77.5	10	2.0	ug/l	100		77	60-120			
N-Nitroso-di-n-propylamine	75.2	10	3.5	ug/l	100		75	45-120			
Pentachlorophenol	74.4	20	3.5	ug/l	100		74	50-120			
Phenanthrene	77.8	10	3.5	ug/l	100		78	65-120			
Phenol	61.2	10	2.0	ug/l	100		61	40-120			
Pyrene	79.0	10	4.0	ug/l	100		79	55-125			

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

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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: 8B26045 Extracted: 02/26/08											
LCS Analyzed: 02/28/2008 (8B26045-BS1)											**MNR1**
1,2,4-Trichlorobenzene	69.6	10	2.5	ug/l	100		70	45-120			
2,4,5-Trichlorophenol	73.8	20	3.0	ug/l	100		74	55-120			
2,4,6-Trichlorophenol	80.0	20	4.5	ug/l	100		80	55-120			
1,2-Diphenylhydrazine/Azobenzene	83.4	20	2.5	ug/l	100		83	60-120			
N-Nitrosodimethylamine	63.8	20	2.5	ug/l	100		64	45-120			
Surrogate: 2-Fluorophenol	*117*			*ug/l*	*200*		*58*	*30-120*			
Surrogate: Phenol-d6	*126*			*ug/l*	*200*		*63*	*35-120*			
Surrogate: 2,4,6-Tribromophenol	*158*			*ug/l*	*200*		*79*	*40-120*			
Surrogate: Nitrobenzene-d5	*67.6*			*ug/l*	*100*		*68*	*45-120*			
Surrogate: 2-Fluorobiphenyl	*67.6*			*ug/l*	*100*		*68*	*50-120*			
Surrogate: Terphenyl-d14	*75.6*			*ug/l*	*100*		*76*	*50-125*			
LCS Dup Analyzed: 02/28/2008 (8B26045-BSD1)											
Acenaphthene	80.2	10	3.0	ug/l	100		80	60-120	4	20	
Acenaphthylene	86.7	10	3.0	ug/l	100		87	60-120	5	20	
Aniline	39.6	10	2.5	ug/l	100		40	35-120	65	30	*R-7*
Anthracene	85.6	10	2.0	ug/l	100		86	65-120	3	20	
Benzidine	ND	20	8.5	ug/l	100			30-160		35	*L6*
Benzoic acid	66.8	20	10	ug/l	100		67	25-120	2	30	
Benzo(a)anthracene	80.7	10	2.0	ug/l	100		81	65-120	5	20	
Benzo(b)fluoranthene	76.7	10	2.0	ug/l	100		77	55-125	8	25	
Benzo(k)fluoranthene	79.2	10	2.5	ug/l	100		79	50-125	2	20	
Benzo(g,h,i)perylene	78.5	10	4.0	ug/l	100		79	45-135	6	25	
Benzo(a)pyrene	80.9	10	2.0	ug/l	100		81	55-130	4	25	
Benzyl alcohol	78.4	20	2.5	ug/l	100		78	50-120	6	20	
Bis(2-chloroethoxy)methane	78.9	10	3.0	ug/l	100		79	55-120	10	20	
Bis(2-chloroethyl)ether	70.7	10	3.0	ug/l	100		71	50-120	5	20	
Bis(2-chloroisopropyl)ether	77.2	10	2.5	ug/l	100		77	45-120	8	20	
Bis(2-ethylhexyl)phthalate	81.6	50	4.0	ug/l	100		82	65-130	6	20	
4-Bromophenyl phenyl ether	81.1	10	3.0	ug/l	100		81	60-120	3	25	
Butyl benzyl phthalate	84.3	20	4.0	ug/l	100		84	55-130	4	20	
4-Chloroaniline	66.3	10	2.0	ug/l	100		66	55-120	16	25	
2-Chloronaphthalene	78.5	10	3.0	ug/l	100		78	60-120	4	20	
4-Chloro-3-methylphenol	82.1	20	2.5	ug/l	100		82	60-120	4	25	
2-Chlorophenol	67.2	10	3.0	ug/l	100		67	45-120	3	25	
4-Chlorophenyl phenyl ether	78.8	10	2.5	ug/l	100		79	65-120	3	20	

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Joseph Doak
Project Manager

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

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

Project ID: Annual Outfall 013
Report Number: IRB2402

Sampled: 02/24/08
Received: 02/25/08

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: 8B26045 Extracted: 02/26/08											
LCS Dup Analyzed: 02/28/2008 (8B26045-BSD1)											
Chrysene	78.3	10	2.5	ug/l	100		78	65-120	6	20	
Dibenz(a,h)anthracene	78.3	20	3.0	ug/l	100		78	50-135	5	25	
Dibenzofuran	80.6	10	4.0	ug/l	100		81	65-120	4	20	
Di-n-butyl phthalate	90.6	20	3.0	ug/l	100		91	60-125	6	20	
1,3-Dichlorobenzene	58.5	10	3.0	ug/l	100		59	35-120	7	25	
1,4-Dichlorobenzene	60.4	10	2.5	ug/l	100		60	35-120	2	25	
1,2-Dichlorobenzene	64.8	10	3.0	ug/l	100		65	40-120	2	25	
3,3-Dichlorobenzidine	53.6	20	3.0	ug/l	100		54	45-135	7	25	
2,4-Dichlorophenol	78.4	10	3.5	ug/l	100		78	55-120	3	20	
Diethyl phthalate	87.2	10	3.5	ug/l	100		87	55-120	5	30	
2,4-Dimethylphenol	69.1	20	3.5	ug/l	100		69	40-120	8	25	
Dimethyl phthalate	82.4	10	2.0	ug/l	100		82	30-120	4	30	
4,6-Dinitro-2-methylphenol	84.7	20	4.0	ug/l	100		85	45-120	7	25	
2,4-Dinitrophenol	81.0	20	8.0	ug/l	100		81	40-120	8	25	
2,4-Dinitrotoluene	93.1	10	3.5	ug/l	100		93	65-120	7	20	
2,6-Dinitrotoluene	83.3	10	2.0	ug/l	100		83	65-120	8	20	
Di-n-octyl phthalate	83.5	20	3.5	ug/l	100		84	65-135	5	20	
Fluoranthene	84.1	10	3.0	ug/l	100		84	60-120	6	20	
Fluorene	80.8	10	3.0	ug/l	100		81	65-120	5	20	
Hexachlorobenzene	81.2	10	3.0	ug/l	100		81	60-120	4	20	
Hexachlorobutadiene	64.1	10	4.0	ug/l	100		64	40-120	3	25	
Hexachlorocyclopentadiene	81.7	20	5.0	ug/l	100		82	25-120	8	30	
Hexachloroethane	57.5	10	3.5	ug/l	100		57	35-120	5	25	
Indeno(1,2,3-cd)pyrene	76.4	20	3.5	ug/l	100		76	45-135	7	25	
Isophorone	79.8	10	2.5	ug/l	100		80	50-120	5	20	
2-Methylnaphthalene	79.9	10	2.0	ug/l	100		80	55-120	6	20	
2-Methylphenol	72.5	10	3.0	ug/l	100		72	50-120	4	20	
4-Methylphenol	74.9	10	3.0	ug/l	100		75	50-120	6	20	
Naphthalene	72.5	10	3.0	ug/l	100		73	55-120	3	20	
2-Nitroaniline	87.8	20	2.0	ug/l	100		88	65-120	8	20	
3-Nitroaniline	87.3	20	3.0	ug/l	100		87	60-120	9	25	
4-Nitroaniline	94.1	20	4.0	ug/l	100		94	55-125	5	20	
Nitrobenzene	74.4	20	2.5	ug/l	100		74	55-120	5	25	
2-Nitrophenol	70.7	10	3.5	ug/l	100		71	50-120	3	25	
4-Nitrophenol	78.2	20	5.5	ug/l	100		78	45-120	4	30	

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Joseph Doak
Project Manager

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

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

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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: 8B26045 Extracted: 02/26/08											
LCS Dup Analyzed: 02/28/2008 (8B26045-BSD1)											
N-Nitrosodiphenylamine	78.9	10	2.0	ug/l	100		79	60-120	2	20	
N-Nitroso-di-n-propylamine	78.6	10	3.5	ug/l	100		79	45-120	4	20	
Pentachlorophenol	80.3	20	3.5	ug/l	100		80	50-120	8	25	
Phenanthrene	81.5	10	3.5	ug/l	100		82	65-120	5	20	
Phenol	59.3	10	2.0	ug/l	100		59	40-120	3	25	
Pyrene	80.5	10	4.0	ug/l	100		80	55-125	2	25	
1,2,4-Trichlorobenzene	69.4	10	2.5	ug/l	100		69	45-120	0	20	
2,4,5-Trichlorophenol	76.8	20	3.0	ug/l	100		77	55-120	4	30	
2,4,6-Trichlorophenol	82.9	20	4.5	ug/l	100		83	55-120	4	30	
1,2-Diphenylhydrazine/Azobenzene	88.9	20	2.5	ug/l	100		89	60-120	6	25	
N-Nitrosodimethylamine	65.5	20	2.5	ug/l	100		65	45-120	3	20	
Surrogate: 2-Fluorophenol	*110*			*ug/l*	*200*		*55*	*30-120*			
Surrogate: Phenol-d6	*120*			*ug/l*	*200*		*60*	*35-120*			
Surrogate: 2,4,6-Tribromophenol	*160*			*ug/l*	*200*		*80*	*40-120*			
Surrogate: Nitrobenzene-d5	*72.0*			*ug/l*	*100*		*72*	*45-120*			
Surrogate: 2-Fluorobiphenyl	*70.1*			*ug/l*	*100*		*70*	*50-120*			
Surrogate: Terphenyl-d14	*79.8*			*ug/l*	*100*		*80*	*50-125*			

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MWH-Pasadena/Boeing
618 Michillinda Avenue, Suite 200
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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: 8B25062 Extracted: 02/25/08											
Blank Analyzed: 02/25/2008 (8B25062-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	*0.434*			*ug/l*	*0.500*		*87*	*45-120*			
Surrogate: Tetrachloro-m-xylene	*0.427*			*ug/l*	*0.500*		*85*	*35-115*			
LCS Analyzed: 02/25/2008 (8B25062-BS1)											**MNR1**
Aldrin	0.401	0.0050	0.0015	ug/l	0.500		80	40-115			
alpha-BHC	0.442	0.0050	0.0025	ug/l	0.500		88	45-115			
beta-BHC	0.447	0.010	0.0040	ug/l	0.500		89	55-115			
delta-BHC	0.451	0.0050	0.0035	ug/l	0.500		90	55-115			
gamma-BHC (Lindane)	0.429	0.010	0.0030	ug/l	0.500		86	45-115			
4,4'-DDD	0.444	0.0050	0.0020	ug/l	0.500		89	55-120			
4,4'-DDE	0.441	0.0050	0.0030	ug/l	0.500		88	50-120			
4,4'-DDT	0.472	0.010	0.0040	ug/l	0.500		94	55-120			
Dieldrin	0.417	0.0050	0.0020	ug/l	0.500		83	55-115			
Endosulfan I	0.428	0.0050	0.0020	ug/l	0.500		86	55-115			
Endosulfan II	0.439	0.0050	0.0030	ug/l	0.500		88	55-120			
Endosulfan sulfate	0.461	0.010	0.0030	ug/l	0.500		92	60-120			

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Joseph Doak
Project Manager

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

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

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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: 8B25062 Extracted: 02/25/08											
LCS Analyzed: 02/25/2008 (8B25062-BS1)											**MNR1**
Endrin	0.449	0.0050	0.0020	ug/l	0.500		90	55-115			
Endrin aldehyde	0.410	0.010	0.0020	ug/l	0.500		82	50-120			
Endrin ketone	0.447	0.010	0.0030	ug/l	0.500		89	55-120			
Heptachlor	0.422	0.010	0.0030	ug/l	0.500		84	45-115			
Heptachlor epoxide	0.416	0.0050	0.0025	ug/l	0.500		83	55-115			
Methoxychlor	0.466	0.0050	0.0035	ug/l	0.500		93	60-120			
Surrogate: Decachlorobiphenyl	*0.441*			*ug/l*	*0.500*		*88*	*45-120*			
Surrogate: Tetrachloro-m-xylene	*0.425*			*ug/l*	*0.500*		*85*	*35-115*			
LCS Dup Analyzed: 02/25/2008 (8B25062-BSD1)											
Aldrin	0.365	0.0050	0.0015	ug/l	0.500		73	40-115	9	30	
alpha-BHC	0.408	0.0050	0.0025	ug/l	0.500		82	45-115	8	30	
beta-BHC	0.419	0.010	0.0040	ug/l	0.500		84	55-115	6	30	
delta-BHC	0.433	0.0050	0.0035	ug/l	0.500		87	55-115	4	30	
gamma-BHC (Lindane)	0.400	0.010	0.0030	ug/l	0.500		80	45-115	7	30	
4,4'-DDD	0.441	0.0050	0.0020	ug/l	0.500		88	55-120	1	30	
4,4'-DDE	0.447	0.0050	0.0030	ug/l	0.500		89	50-120	1	30	
4,4'-DDT	0.474	0.010	0.0040	ug/l	0.500		95	55-120	0	30	
Dieldrin	0.408	0.0050	0.0020	ug/l	0.500		82	55-115	2	30	
Endosulfan I	0.412	0.0050	0.0020	ug/l	0.500		82	55-115	4	30	
Endosulfan II	0.433	0.0050	0.0030	ug/l	0.500		87	55-120	1	30	
Endosulfan sulfate	0.458	0.010	0.0030	ug/l	0.500		92	60-120	1	30	
Endrin	0.437	0.0050	0.0020	ug/l	0.500		87	55-115	3	30	
Endrin aldehyde	0.413	0.010	0.0020	ug/l	0.500		83	50-120	1	30	
Endrin ketone	0.442	0.010	0.0030	ug/l	0.500		88	55-120	1	30	
Heptachlor	0.386	0.010	0.0030	ug/l	0.500		77	45-115	9	30	
Heptachlor epoxide	0.400	0.0050	0.0025	ug/l	0.500		80	55-115	4	30	
Methoxychlor	0.443	0.0050	0.0035	ug/l	0.500		89	60-120	5	30	
Surrogate: Decachlorobiphenyl	*0.439*			*ug/l*	*0.500*		*88*	*45-120*			
Surrogate: Tetrachloro-m-xylene	*0.384*			*ug/l*	*0.500*		*77*	*35-115*			

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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
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METHOD BLANK/QC DATA

TOTAL PCBS (EPA 608)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8B25062 Extracted: 02/25/08											
Blank Analyzed: 02/26/2008 (8B25062-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	*0.476*			*ug/l*	*0.500*		*95*	*45-120*			
LCS Analyzed: 02/26/2008 (8B25062-BS2)											**MNR1**
Aroclor 1016	4.00	0.50	0.45	ug/l	4.00		100	50-115			
Aroclor 1260	4.16	0.50	0.30	ug/l	4.00		104	60-120			
Surrogate: Decachlorobiphenyl	*0.514*			*ug/l*	*0.500*		*103*	*45-120*			
LCS Dup Analyzed: 02/26/2008 (8B25062-BSD2)											
Aroclor 1016	3.95	0.50	0.45	ug/l	4.00		99	50-115	1	30	
Aroclor 1260	4.13	0.50	0.30	ug/l	4.00		103	60-120	1	25	
Surrogate: Decachlorobiphenyl	*0.511*			*ug/l*	*0.500*		*102*	*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: 8B27069 Extracted: 02/27/08											
Blank Analyzed: 02/29/2008 (8B27069-BLK1)											
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							
Magnesium	ND	0.020	0.012	mg/l							
Nickel	ND	10	2.0	ug/l							
LCS Analyzed: 02/29/2008 (8B27069-BS1)											
Arsenic	478	10	7.0	ug/l	500		96	85-115			
Beryllium	468	2.0	0.90	ug/l	500		94	85-115			
Boron	0.487	0.050	0.020	mg/l	0.500		97	85-115			
Calcium	2.41	0.10	0.050	mg/l	2.50		96	85-115			
Chromium	479	5.0	2.0	ug/l	500		96	85-115			
Magnesium	2.34	0.020	0.012	mg/l	2.50		94	85-115			
Nickel	472	10	2.0	ug/l	500		94	85-115			
Matrix Spike Analyzed: 02/29/2008 (8B27069-MS1)						**Source: IRB2473-01**					
Arsenic	492	10	7.0	ug/l	500	ND	98	70-130			
Beryllium	483	2.0	0.90	ug/l	500	ND	97	70-130			
Boron	0.493	0.050	0.020	mg/l	0.500	ND	99	70-130			
Calcium	10.0	0.10	0.050	mg/l	2.50	7.62	96	70-130			
Chromium	484	5.0	2.0	ug/l	500	ND	97	70-130			
Magnesium	3.31	0.020	0.012	mg/l	2.50	0.963	94	70-130			
Nickel	475	10	2.0	ug/l	500	ND	95	70-130			
Matrix Spike Analyzed: 02/29/2008 (8B27069-MS2)						**Source: IRB2540-01**					
Arsenic	465	10	7.0	ug/l	500	ND	93	70-130			
Beryllium	458	2.0	0.90	ug/l	500	ND	92	70-130			
Boron	0.617	0.050	0.020	mg/l	0.500	0.165	90	70-130			
Calcium	42.5	0.10	0.050	mg/l	2.50	42.3	9	70-130			*MHA*
Chromium	453	5.0	2.0	ug/l	500	ND	91	70-130			
Magnesium	13.7	0.020	0.012	mg/l	2.50	12.5	46	70-130			*MHA*
Nickel	500	10	2.0	ug/l	500	62.1	88	70-130			

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METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8B27069 Extracted: 02/27/08											
Matrix Spike Dup Analyzed: 02/29/2008 (8B27069-MSD1)						**Source: IRB2473-01**					
Arsenic	501	10	7.0	ug/l	500	ND	100	70-130	2	20	
Beryllium	488	2.0	0.90	ug/l	500	ND	98	70-130	1	20	
Boron	0.503	0.050	0.020	mg/l	0.500	ND	101	70-130	2	20	
Calcium	9.96	0.10	0.050	mg/l	2.50	7.62	93	70-130	1	20	
Chromium	493	5.0	2.0	ug/l	500	ND	99	70-130	2	20	
Magnesium	3.35	0.020	0.012	mg/l	2.50	0.963	96	70-130	1	20	
Nickel	485	10	2.0	ug/l	500	ND	97	70-130	2	20	
Batch: 8B28067 Extracted: 02/28/08											
Blank Analyzed: 02/28/2008 (8B28067-BLK1)											
Antimony	ND	2.0	0.20	ug/l							
Cadmium	0.133	1.0	0.11	ug/l							*J*
Copper	ND	2.0	0.75	ug/l							
Lead	ND	1.0	0.30	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.30	ug/l							
Thallium	ND	1.0	0.20	ug/l							
Zinc	6.39	20	2.5	ug/l							*J*
LCS Analyzed: 02/28/2008 (8B28067-BS1)											
Antimony	77.9	2.0	0.20	ug/l	80.0		97	85-115			
Cadmium	76.7	1.0	0.11	ug/l	80.0		96	85-115			
Copper	79.3	2.0	0.75	ug/l	80.0		99	85-115			
Lead	79.9	1.0	0.30	ug/l	80.0		100	85-115			
Selenium	74.4	2.0	0.30	ug/l	80.0		93	85-115			
Silver	78.1	1.0	0.30	ug/l	80.0		98	85-115			
Thallium	75.5	1.0	0.20	ug/l	80.0		94	85-115			
Zinc	77.1	20	2.5	ug/l	80.0		96	85-115			

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Project Manager

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

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

Project ID: Annual Outfall 013
Report Number: IRB2402

Sampled: 02/24/08
Received: 02/25/08

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8B28067 Extracted: 02/28/08											
Matrix Spike Analyzed: 02/28/2008 (8B28067-MS1)						**Source: IRB2460-02**					
Antimony	78.3	2.0	0.20	ug/l	80.0	ND	98	70-130			
Cadmium	74.6	1.0	0.11	ug/l	80.0	0.128	93	70-130			
Copper	76.4	2.0	0.75	ug/l	80.0	1.05	94	70-130			
Lead	77.7	1.0	0.30	ug/l	80.0	ND	97	70-130			
Selenium	71.5	2.0	0.30	ug/l	80.0	ND	89	70-130			
Silver	73.7	1.0	0.30	ug/l	80.0	ND	92	70-130			
Thallium	73.2	1.0	0.20	ug/l	80.0	ND	92	70-130			
Zinc	74.0	20	2.5	ug/l	80.0	6.52	84	70-130			
Matrix Spike Analyzed: 02/28/2008 (8B28067-MS2)						**Source: IRB2402-01**					
Antimony	77.4	2.0	0.20	ug/l	80.0	2.51	94	70-130			
Cadmium	75.9	1.0	0.11	ug/l	80.0	1.94	92	70-130			
Copper	78.5	2.0	0.75	ug/l	80.0	2.79	95	70-130			
Lead	79.1	1.0	0.30	ug/l	80.0	1.66	97	70-130			
Selenium	69.4	2.0	0.30	ug/l	80.0	ND	87	70-130			
Silver	74.7	1.0	0.30	ug/l	80.0	ND	93	70-130			
Thallium	76.3	1.0	0.20	ug/l	80.0	ND	95	70-130			
Zinc	133	20	2.5	ug/l	80.0	65.8	84	70-130			
Matrix Spike Dup Analyzed: 02/28/2008 (8B28067-MSD1)						**Source: IRB2460-02**					
Antimony	78.5	2.0	0.20	ug/l	80.0	ND	98	70-130	0	20	
Cadmium	76.2	1.0	0.11	ug/l	80.0	0.128	95	70-130	2	20	
Copper	78.4	2.0	0.75	ug/l	80.0	1.05	97	70-130	3	20	
Lead	78.3	1.0	0.30	ug/l	80.0	ND	98	70-130	1	20	
Selenium	72.4	2.0	0.30	ug/l	80.0	ND	91	70-130	1	20	
Silver	75.9	1.0	0.30	ug/l	80.0	ND	95	70-130	3	20	
Thallium	76.6	1.0	0.20	ug/l	80.0	ND	96	70-130	5	20	
Zinc	75.2	20	2.5	ug/l	80.0	6.52	86	70-130	2	20	

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Project Manager

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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: 8B25122 Extracted: 02/25/08											
Blank Analyzed: 02/26/2008 (8B25122-BLK1)											
Arsenic	ND	10	7.0	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Boron	0.0320	0.050	0.020	mg/l							*J*
Calcium	ND	0.10	0.050	mg/l							
Chromium	ND	5.0	2.0	ug/l							
Magnesium	ND	0.020	0.012	mg/l							
Nickel	ND	10	2.0	ug/l							
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							
LCS Analyzed: 02/26/2008 (8B25122-BS1)											
Arsenic	988	10	7.0	ug/l	1000		99	85-115			
Beryllium	990	2.0	0.90	ug/l	1000		99	85-115			
Boron	1.01	0.050	0.020	mg/l	1.00		101	85-115			
Calcium	0.964	0.10	0.050	mg/l	1.00		96	85-115			
Chromium	976	5.0	2.0	ug/l	1000		98	85-115			
Magnesium	0.950	0.020	0.012	mg/l	1.00		95	85-115			
Nickel	998	10	2.0	ug/l	1000		100	85-115			
Matrix Spike Analyzed: 02/26/2008 (8B25122-MS1)						**Source: IRB2473-01**					
Arsenic	1030	10	7.0	ug/l	1000	7.56	102	70-130			
Beryllium	999	2.0	0.90	ug/l	1000	ND	100	70-130			
Boron	1.03	0.050	0.020	mg/l	1.00	ND	103	70-130			
Calcium	8.38	0.10	0.050	mg/l	1.00	7.52	86	70-130			*MHA*
Chromium	996	5.0	2.0	ug/l	1000	ND	100	70-130			
Magnesium	1.98	0.020	0.012	mg/l	1.00	1.00	97	70-130			
Nickel	1020	10	2.0	ug/l	1000	ND	102	70-130			
Matrix Spike Dup Analyzed: 02/26/2008 (8B25122-MSD1)						**Source: IRB2473-01**					
Arsenic	1030	10	7.0	ug/l	1000	7.56	102	70-130	0	20	
Beryllium	1010	2.0	0.90	ug/l	1000	ND	101	70-130	2	20	
Boron	1.02	0.050	0.020	mg/l	1.00	ND	102	70-130	1	20	
Calcium	8.50	0.10	0.050	mg/l	1.00	7.52	98	70-130	1	20	*MHA*
Chromium	1000	5.0	2.0	ug/l	1000	ND	100	70-130	1	20	
Magnesium	2.00	0.020	0.012	mg/l	1.00	1.00	99	70-130	1	20	
Nickel	1030	10	2.0	ug/l	1000	ND	103	70-130	0	20	

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Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8B25123 Extracted: 02/25/08											
Blank Analyzed: 02/26/2008 (8B25123-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							
Selenium	ND	2.0	0.30	ug/l							
Thallium	ND	1.0	0.20	ug/l							
Zinc	ND	20	2.5	ug/l							
LCS Analyzed: 02/26/2008 (8B25123-BS1)											
Antimony	78.6	2.0	0.20	ug/l	80.0		98	85-115			
Cadmium	78.9	1.0	0.11	ug/l	80.0		99	85-115			
Copper	80.6	2.0	0.75	ug/l	80.0		101	85-115			
Lead	83.1	1.0	0.30	ug/l	80.0		104	85-115			
Selenium	78.7	2.0	0.30	ug/l	80.0		98	85-115			
Thallium	79.4	1.0	0.20	ug/l	80.0		99	85-115			
Zinc	80.6	20	2.5	ug/l	80.0		101	85-115			
Matrix Spike Analyzed: 02/26/2008 (8B25123-MS1)						**Source: IRB2107-01**					
Antimony	84.6	2.0	0.20	ug/l	80.0	ND	106	70-130			
Cadmium	77.0	1.0	0.11	ug/l	80.0	ND	96	70-130			
Copper	69.6	2.0	0.75	ug/l	80.0	1.17	85	70-130			
Lead	77.8	1.0	0.30	ug/l	80.0	ND	97	70-130			
Selenium	97.0	2.0	0.30	ug/l	80.0	0.917	120	70-130			
Thallium	75.2	1.0	0.20	ug/l	80.0	0.230	94	70-130			
Zinc	72.5	20	2.5	ug/l	80.0	ND	91	70-130			
Matrix Spike Dup Analyzed: 02/26/2008 (8B25123-MSD1)						**Source: IRB2107-01**					
Antimony	89.1	2.0	0.20	ug/l	80.0	ND	111	70-130	5	20	
Cadmium	82.5	1.0	0.11	ug/l	80.0	ND	103	70-130	7	20	
Copper	71.8	2.0	0.75	ug/l	80.0	1.17	88	70-130	3	20	
Lead	79.1	1.0	0.30	ug/l	80.0	ND	99	70-130	2	20	
Selenium	101	2.0	0.30	ug/l	80.0	0.917	125	70-130	4	20	
Thallium	76.5	1.0	0.20	ug/l	80.0	0.230	95	70-130	2	20	
Zinc	75.6	20	2.5	ug/l	80.0	ND	95	70-130	4	20	

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Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8C04081 Extracted: 03/04/08											
Blank Analyzed: 03/04/2008 (8C04081-BLK1)											
Silver	ND	1.0	0.30	ug/l							
LCS Analyzed: 03/04/2008 (8C04081-BS1)											
Silver	84.3	1.0	0.30	ug/l	80.0		105	85-115			
Matrix Spike Analyzed: 03/04/2008 (8C04081-MS1)						**Source: IRB2840-01**					
Silver	83.2	1.0	0.30	ug/l	80.0	ND	104	70-130			
Matrix Spike Dup Analyzed: 03/04/2008 (8C04081-MSD1)						**Source: IRB2840-01**					
Silver	81.3	1.0	0.30	ug/l	80.0	ND	102	70-130	2	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: 8B25042 Extracted: 02/25/08											
Blank Analyzed: 02/25/2008 (8B25042-BLK1)											
Chloride	ND	0.50	0.25	mg/l							
Nitrate-N	ND	0.11	0.060	mg/l							
Nitrite-N	ND	0.15	0.090	mg/l							
Nitrate/Nitrite-N	ND	0.26	0.15	mg/l							
Sulfate	ND	0.50	0.20	mg/l							
LCS Analyzed: 02/25/2008 (8B25042-BS1)											
Chloride	5.09	0.50	0.25	mg/l	5.00		102	90-110			
Nitrate-N	1.09	0.11	0.060	mg/l	1.13		96	90-110			
Nitrite-N	1.49	0.15	0.090	mg/l	1.52		98	90-110			
Sulfate	9.95	0.50	0.20	mg/l	10.0		99	90-110			*M-3*
Matrix Spike Analyzed: 02/25/2008 (8B25042-MS1)						**Source: IRB2399-01**					
Chloride	20.2	0.50	0.25	mg/l	5.00	15.9	88	80-120			
Nitrate-N	1.61	0.11	0.060	mg/l	1.13	0.512	97	80-120			
Nitrite-N	1.74	0.15	0.090	mg/l	1.52	ND	115	80-120			
Matrix Spike Dup Analyzed: 02/25/2008 (8B25042-MSD1)						**Source: IRB2399-01**					
Chloride	20.2	0.50	0.25	mg/l	5.00	15.9	87	80-120	0	20	
Nitrate-N	1.56	0.11	0.060	mg/l	1.13	0.512	93	80-120	3	20	
Nitrite-N	1.76	0.15	0.090	mg/l	1.52	ND	116	80-120	1	20	
Batch: 8B25072 Extracted: 02/25/08											
Blank Analyzed: 02/25/2008 (8B25072-BLK1)											
Fluoride	0.0276	0.10	0.014	mg/l							*J*

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8B25072 Extracted: 02/25/08											
LCS Analyzed: 02/25/2008 (8B25072-BS1)											
Fluoride	1.03	0.10	0.014	mg/l	1.00		103	90-110			
Matrix Spike Analyzed: 02/25/2008 (8B25072-MS1)						**Source: IRB2189-01**					
Fluoride	1.26	0.10	0.014	mg/l	1.00	0.340	92	80-120			
Matrix Spike Dup Analyzed: 02/25/2008 (8B25072-MSD1)						**Source: IRB2189-01**					
Fluoride	1.29	0.10	0.014	mg/l	1.00	0.340	95	80-120	2	20	
Batch: 8B25101 Extracted: 02/25/08											
Blank Analyzed: 03/01/2008 (8B25101-BLK1)											
Biochemical Oxygen Demand	ND	2.0	0.59	mg/l							
LCS Analyzed: 03/01/2008 (8B25101-BS1)											
Biochemical Oxygen Demand	184	100	30	mg/l	198		93	85-115			
LCS Dup Analyzed: 03/01/2008 (8B25101-BSD1)											
Biochemical Oxygen Demand	184	100	30	mg/l	198		93	85-115	0	20	
Batch: 8B26063 Extracted: 02/26/08											
Blank Analyzed: 02/26/2008 (8B26063-BLK1)											
Turbidity	0.100	1.0	0.040	NTU							*J*
Duplicate Analyzed: 02/26/2008 (8B26063-DUP1)						**Source: IRB2402-01**					
Turbidity	2.98	1.0	0.040	NTU		3.03			2	20	

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Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8B26098 Extracted: 02/26/08											
Blank Analyzed: 02/26/2008 (8B26098-BLK1)											
Total Cyanide	ND	0.0050	0.0022	mg/l							
LCS Analyzed: 02/26/2008 (8B26098-BS1)											
Total Cyanide	0.197	0.0050	0.0022	mg/l	0.200		99	90-110			
Matrix Spike Analyzed: 02/26/2008 (8B26098-MS1)						**Source: IRB2473-01**					
Total Cyanide	0.198	0.0050	0.0022	mg/l	0.200	ND	99	70-115			
Matrix Spike Dup Analyzed: 02/26/2008 (8B26098-MSD1)						**Source: IRB2473-01**					
Total Cyanide	0.200	0.0050	0.0022	mg/l	0.200	ND	100	70-115	1	15	
Batch: 8B26101 Extracted: 02/26/08											
Blank Analyzed: 02/26/2008 (8B26101-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 02/26/2008 (8B26101-BS1)											
Ammonia-N (Distilled)	10.1	0.50	0.30	mg/l	10.0		101	80-115			
Matrix Spike Analyzed: 02/26/2008 (8B26101-MS1)						**Source: IRB2399-01**					
Ammonia-N (Distilled)	10.1	0.50	0.30	mg/l	10.0	ND	101	70-120			
Matrix Spike Dup Analyzed: 02/26/2008 (8B26101-MSD1)						**Source: IRB2399-01**					
Ammonia-N (Distilled)	10.1	0.50	0.30	mg/l	10.0	ND	101	70-120	0	15	
Batch: 8B27119 Extracted: 02/27/08											
Blank Analyzed: 02/27/2008 (8B27119-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							

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Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8B27119 Extracted: 02/27/08											
LCS Analyzed: 02/27/2008 (8B27119-BS1)											
Total Dissolved Solids	980	10	10	mg/l	1000		98	90-110			
Duplicate Analyzed: 02/27/2008 (8B27119-DUP1)						**Source: IRB2154-02**					
Total Dissolved Solids	4760	10	10	mg/l		4760			0	10	
Batch: 8B28045 Extracted: 02/28/08											
Blank Analyzed: 02/28/2008 (8B28045-BLK1)											
Perchlorate	ND	4.0	1.5	ug/l							
LCS Analyzed: 02/28/2008 (8B28045-BS1)											
Perchlorate	54.9	4.0	1.5	ug/l	50.0		110	85-115			
Matrix Spike Analyzed: 02/28/2008 (8B28045-MS1)						**Source: IRB2453-07**					
Perchlorate	61.1	4.0	1.5	ug/l	50.0	5.03	112	80-120			
Matrix Spike Dup Analyzed: 02/28/2008 (8B28045-MSD1)						**Source: IRB2453-07**					
Perchlorate	60.6	4.0	1.5	ug/l	50.0	5.03	111	80-120	1	20	
Batch: 8B28123 Extracted: 02/28/08											
Blank Analyzed: 02/28/2008 (8B28123-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 02/28/2008 (8B28123-BS1)											
Total Suspended Solids	1030	10	10	mg/l	1000		103	85-115			

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Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8B28123 Extracted: 02/28/08											
Duplicate Analyzed: 02/28/2008 (8B28123-DUP1)						**Source: IRB2355-10**					
Total Suspended Solids	ND	10	10	mg/l		ND				10	
Batch: 8C04046 Extracted: 03/04/08											
Blank Analyzed: 03/04/2008 (8C04046-BLK1)											
Hexane Extractable Material (Oil & Grease)	ND	5.0	1.4	mg/l							
LCS Analyzed: 03/04/2008 (8C04046-BS1)											**MNR1**
Hexane Extractable Material (Oil & Grease)	18.1	5.0	1.4	mg/l	20.2		90	78-114			
LCS Dup Analyzed: 03/04/2008 (8C04046-BSD1)											
Hexane Extractable Material (Oil & Grease)	18.9	5.0	1.4	mg/l	20.2		94	78-114	4	11	

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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: W8B0982 Extracted: 02/26/08											
Blank Analyzed: 02/27/2008 (W8B0982-BLK1)											
Mercury, Dissolved	ND	0.20	0.050	ug/l							
Mercury, Total	ND	0.20	0.050	ug/l							
LCS Analyzed: 02/27/2008 (W8B0982-BS1)											
Mercury, Dissolved	0.920	0.20	0.050	ug/l	1.00		92	85-115			
Mercury, Total	0.920	0.20	0.050	ug/l	1.00		92	85-115			
Matrix Spike Analyzed: 02/27/2008 (W8B0982-MS1)						**Source: 8022631-01**					
Mercury, Dissolved	1.95	0.40	0.10	ug/l	2.00	ND	98	70-130			
Mercury, Total	1.95	0.40	0.10	ug/l	2.00	0.0950	93	70-130			
Matrix Spike Analyzed: 02/27/2008 (W8B0982-MS2)						**Source: IRB2402-01**					
Mercury, Dissolved	1.91	0.40	0.10	ug/l	2.00	ND	96	70-130			
Mercury, Total	1.91	0.40	0.10	ug/l	2.00	ND	96	70-130			
Matrix Spike Dup Analyzed: 02/27/2008 (W8B0982-MSD1)						**Source: 8022631-01**					
Mercury, Dissolved	2.00	0.40	0.10	ug/l	2.00	ND	100	70-130	2	20	
Mercury, Total	2.00	0.40	0.10	ug/l	2.00	0.0950	95	70-130	2	20	
Matrix Spike Dup Analyzed: 02/27/2008 (W8B0982-MSD2)						**Source: IRB2402-01**					
Mercury, Dissolved	1.93	0.40	0.10	ug/l	2.00	ND	96	70-130	1	20	
Mercury, Total	1.93	0.40	0.10	ug/l	2.00	ND	96	70-130	1	20	

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 013
Report Number: IRB2402

Sampled: 02/24/08
Received: 02/25/08

Compliance Check

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

LabNumber	Analysis	Analyte	Units	Result	MRL	Compliance Limit
IRB2402-01	1664-HEM	Hexane Extractable Material (Oil & Greas	mg/l	1.61	4.7	15
IRB2402-01	624-Boeing 012/013/014 DT, LOW	1,2-Dibromoethane (EDB)	ug/l	0	0.50	50
IRB2402-01	624-Boeing 012/013/014 DT, LOW	tert-Butanol (TBA)	ug/l	0	10	12
IRB2402-01	625+NDMA+Hydrazine	Naphthalene	ug/l	0	9.5	21
IRB2402-01	8015B-DRO(C13-C22)LL	DRO (C13-C22)	mg/l	0.020	0.096	0.1
IRB2402-01	8015B-GRO(C4-C12)	GRO (C4 - C12)	mg/l	0.010	0.050	0.1
IRB2402-01	8260B-SIM 1,4-Dioxane	1,4-Dioxane	ug/l	0.24	2.0	3
IRB2402-01	Ammonia-N, Titr (350.2) w/dist	Ammonia-N (Distilled)	mg/l	0.28	0.50	10
IRB2402-01	Boron-200.7	Boron	mg/l	0	0.050	1
IRB2402-01	Cadmium-200.8	Cadmium	ug/l	1.94	1.0	3.1
IRB2402-01	Chloride - 300.0	Chloride	mg/l	11	0.50	150
IRB2402-01	Copper-200.8	Copper	ug/l	2.79	2.0	14
IRB2402-01	Fluoride - 340.2	Fluoride	mg/l	0.12	0.10	1.6
IRB2402-01	Hg_w 245.1	Mercury, Total	ug/l	0.0100	0.20	0.2
IRB2402-01	Lead-200.8	Lead	ug/l	1.66	1.0	5.2
IRB2402-01	Nitrate-N, 300.0	Nitrate-N	mg/l	0.72	0.11	8
IRB2402-01	Nitrite-N, 300.0	Nitrite-N	mg/l	0	0.15	1
IRB2402-01	Nitrogen, NO3+NO2 -N	Nitrate/Nitrite-N	mg/l	0.72	0.26	8
IRB2402-01	Perchlorate 314.0-DEFAULT	Perchlorate	ug/l	0	4.0	6
IRB2402-01	Selenium-200.8	Selenium	ug/l	0.13	2.0	5
IRB2402-01	Settleable Solids	Total Settleable Solids	ml/l/hr	0	0.10	0.3
IRB2402-01	Sulfate-300.0	Sulfate	mg/l	4.18	0.50	300
IRB2402-01	TDS - SM 2540C	Total Dissolved Solids	mg/l	96	10	950
IRB2402-01	TSS - EPA 160.2	Total Suspended Solids	mg/l	-2	10	45
IRB2402-01	Zinc-200.8	Zinc	ug/l	66	20	160

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
IRB2402-02	624-Boeing 012/013/014 DT, LOW	1,2-Dibromoethane (EDB)	ug/l	0	0.50	50
IRB2402-02	624-Boeing 012/013/014 DT, LOW	tert-Butanol (TBA)	ug/l	0	10	12

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 013
Report Number: IRB2402

Sampled: 02/24/08
Received: 02/25/08

DATA QUALIFIERS AND DEFINITIONS

B	Analyte was detected in the associated Method Blank.
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.
M13	The sample spiked had a pH of less than 2. 2-Chloroethylvinylether degrades under acidic conditions.
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.
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.

For GRO (C4-C12):

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

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

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

TestAmerica Irvine

Joseph Doak
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

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

Project ID: Annual Outfall 013

Report Number: IRB2402

Sampled: 02/24/08
Received: 02/25/08

Certification Summary

TestAmerica Irvine

Method	Matrix	Nelac	California
EPA 160.2	Water	X	X
EPA 160.5	Water	X	X
EPA 1664A	Water		
EPA 180.1	Water	X	X
EPA 200.7-Diss	Water	X	X
EPA 200.7	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
EPA 300.0	Water	X	X
EPA 314.0	Water	X	X
EPA 335.2	Water	X	X
EPA 340.2	Water	X	X
EPA 350.2	Water		X
EPA 405.1	Water	X	X
EPA 608	Water	X	X
EPA 624	Water	X	X
EPA 625	Water	X	X
EPA 8015B	Water	X	X
EPA 8260B-SIM	Water		
Filtration	Water	N/A	N/A
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-Acute 96hr
Samples: IRB2402-01

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: IRB2402-01

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 013
Report Number: IRB2402

Sampled: 02/24/08
Received: 02/25/08

Weck Laboratories, Inc

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

Method Performed: EPA 245.1

Samples: IRB2402-01

TestAmerica Irvine

Joseph Doak
Project Manager

Test America Version 12/20/07

CHAIN OF CUSTODY FORM

IR32402

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

Test America Contact: Joseph Doak

Project Manager: Bronwyn Kelly

Sampler: MARIXAL, J.

Project:
Boeing-SSFL NPDES
Annual Outfall 013
Bravo Test Stand

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 #	Oil & Grease (1664-HEM)	8015 - gas	8015 - diesel/jet fuel	TRPH =Total Rec. Petroleum Hydrocarbons (8015)	1,4-Dioxane (8260B)	BOD_5 (20 degrees C)	625 (Naphthalene +NDMA analysis + SVOCs) + PP	Ammonia-N (350.2)	Cl^-, SO_4, F, NO_3+NO_2-N. Perchlorate	Nitrate-N, Nitrite-N	Comments
Outfall 013	W	1L Amber	1	2-24-08 10:00	HCl	1A	X										
Outfall 013 Dup	W	1L Amber	1		HCl	1B	X										
Outfall 013	W	VOAs	1		HCl	2A		X									
Outfall 013 Dup	W	VOAs	2		HCl	2B, 2C		X									
Outfall 013	W	1L Amber	1		None	3A			X								
Outfall 013 Dup	W	1L Amber	1		None	3B			X								
Outfall 013	W	1L Amber	1		HCl	4A				X							
Outfall 013 Dup	W	1L Amber	1		HCl	4B				X							
Outfall 013	W	VOAs	1		HCl	5A					X						
Outfall 013 Dup	W	VOAs	2		HCl	5B, 5C					X						
Outfall 013	W	1L Poly	1		None	6						X					
Outfall 013	W	1L Amber	1		None	7A							X				
Outfall 013 Dup	W	1L Amber	1		None	7B							X				
Outfall 013	W	500 ml Poly	1		H_2S0_4	8								X			
Outfall 013	W	500 ml Poly	2		None	9A, 9B									X		
Outfall 013	W	500 ml Poly	1	2-24-08 10:03	None	10										X	

Field readings:
Temp = NS 17.3
pH = 7.3
Time of readings = 10:00

Relinquished By	Date/Time:	Received By	Date/Time:
	2-24-08 1430		2/24/08 1430
	2/24/08 1745		
Rec. Fridge	2/25/08 0520		2/25/08 0520

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

Sample Integrity: (check)
Intact ✓ On Ice: ✓
3.4/1.4°C

#130

NPDES - 3463

Test America Version 12/20/07

CHAIN OF CUSTODY FORM

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

Test America Contact: Joseph Doak

Project Manager: Bronwyn Kelly

Sampler: MARSCAL, J

Project:
Boeing-SSFL NPDES
Annual Outfall 013
Bravo Test Stand

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 #	Turbidity, TDS, TSS	Settleable Solids	624 (EDB, 1,2,3-TCP, MTBE DIPE, TBA) + PP	VOCs 624, xylenes +A+A+2CVE	Total Recoverable Metals, Cd Se, Zn, B, Cu, Pb, Hg + PP Hardness as $CaCO_3$	Total Dissolved Metals, Cd, Se, Zn, B, Cu, Pb, Hg + PP Hardness as $CaCO_3$	Cyanide	Pesticides/PCBs + PP	TCDD (and all congeners)	Acute Toxicity		Comments
Outfall 013	W	500 ml Poly	2	2-24-08 10:05	None	11A, 11B	X											
Outfall 013	W	1L Poly	1		None	12		X										
Outfall 013	W	VOAs	1		HCl	13A			X									
Outfall 013 Dup	W	VOAs	2		HCl	13B, 13C			X									
Outfall 013	W	VOAs	3		None	14A, 14B, 14C				X								
Outfall 013	W	1L Poly	2		HNO_3	15A, 15B					X							
Outfall 013	W	1L Poly	1		None	16						X						Filter w/in 24hrs of receipt at lab
Outfall 013	W	500 ml Poly	1		NaOH	17							X					
Outfall 013	W	1L Amber	2		None	18A, 18B								X				
Outfall 013	W	1L Amber	2		None	19A, 19B									X			
Outfall 013	W	1 Gal Cube	1	2-24-08 10:05	None	20										X		
Trip Blanks	W	VOAs	3		HCl	21A, 21B, 21C			X									
Trip Blanks	W	VOAs	3		None	22A, 22B, 22C				X								

Relinquished By: Ruben Barron Date/Time: 2-24-08 1430
Received By: [signature] Date/Time: 2/24/08 1430

Relinquished By: [signature] Date/Time: 2/24/08 1745
Received By: Date/Time:

Relinquished By: Rec. Fridge 2/25/08 0520
Received By: [signature] Date/Time: 2/25/08 0520

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

Sample Integrity: (check)
Intact ✓ On Ice: ✓
3.4/1.4°C

NPDES - 3464

#130

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 29, 2008

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

Laboratory No.: A-08022504-001
Sample ID.: IRB2402-01 (Outfall 013)

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

Date Sampled:	02/24/08
Date Received:	02/25/08
Temp. Received:	2°C
Chlorine (TRC):	0.0 mg/l
Date Tested:	02/25/08 to 02/29/08

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

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

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

Result Summary:

Sample ID.	Results
IRB2402-01	100% Survival (TUa = 0.0)

Quality Control: Reviewed and approved by:

Joseph A. LeMay
Laboratory Director

FATHEAD MINNOW PERCENT SURVIVAL TEST
EPA Method 2000.0

Aquatic Testing Laboratories

Lab No.: A-08022504-001
Client/ID: TestAmerica - IRB2402-01 **Start Date: 02/25/2008**

TEST SUMMARY

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

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

TEST DATA

		°C	DO	pH	# Dead A	# Dead B	Analyst & Time of Readings
INITIAL	Control	20.5	7.9	7.9	0	0	JK 1300
	100%	20.7	8.2	7.4	0	0	
24 Hr	Control	20.3	6.9	7.7	0	0	[illegible] 1400
	100%	20.2	5.9	7.3	0	0	
48 Hr	Control	20.1	7.4	7.6	0	0	[illegible] 1200
	100%	20.2	7.9	7.5	0	0	
Renewal	Control	20.8	9.1	7.7	0	0	[illegible] 1200
	100%	19.3	9.5	6.7	0	0	
72 Hr	Control	20.3	6.8	7.4	0	0	[illegible] 1200
	100%	20.2	6.7	7.3	0	0	
96 Hr	Control	20.3	6.9	7.3	0	0	[illegible] 1200
	100%	20.3	7.0	7.1	0	0	

Comments:
Sample as received: Chlorine: 0.0 mg/l; pH: 7.4; Conductivity: 119 umho; Temp: 2°C;
DO: 8.2 mg/l; Alkalinity: 30 mg/l; Hardness: 26 mg/l; NH_3-N: 0.1 mg/l.
Sample aerated moderately (approx. 500 ml/min) to raise or lower DO? Yes / (No.)
Control: Alkalinity: 62 mg/l; Hardness: 92 mg/l; Conductivity: 270 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 %

TestAmerica
ANALYTICAL TESTING CORPORATION

SUBCONTRACT ORDER - PROJECT # IRB2402

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

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

Analysis	Expiration	Comments
Sample ID: IRB2402-01 Water	**Sampled: 02/24/08 10:00**	
Bioassay-Acute 96hr	02/25/08 22:00	FH minnow, EPA/821-R02-012, Sub to AqTox Labs

Containers Supplied:
1 gal Poly (IRB2402-01AK)

SAMPLE INTEGRITY:

All containers intact: ☒ Yes ☐ No
Custody Seals Present: ☐ Yes ☒ No
Sample labels/COC agree: ☒ Yes ☐ No
Samples Preserved Properly: ☑ Yes ☐ No
Samples Received On Ice:: ☒ Yes ☐ No
Samples Received at (temp): 2

Released By	Date	Time	Received By	Date	Time
	2/25/08	0935	TAE	2/25/08	0935
	2/25/08	1215		2-25-08	12:15

NPDES - 3467

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 promel*as.
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: 47 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:					

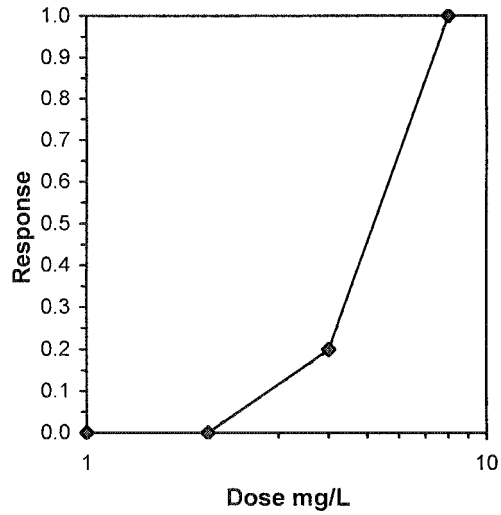
Conc-mg/L	1	2
D-Control	1.0000	1.0000
1	1.0000	1.0000
2	1.0000	1.0000
4	0.8000	0.8000
8	0.0000	0.0000

			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



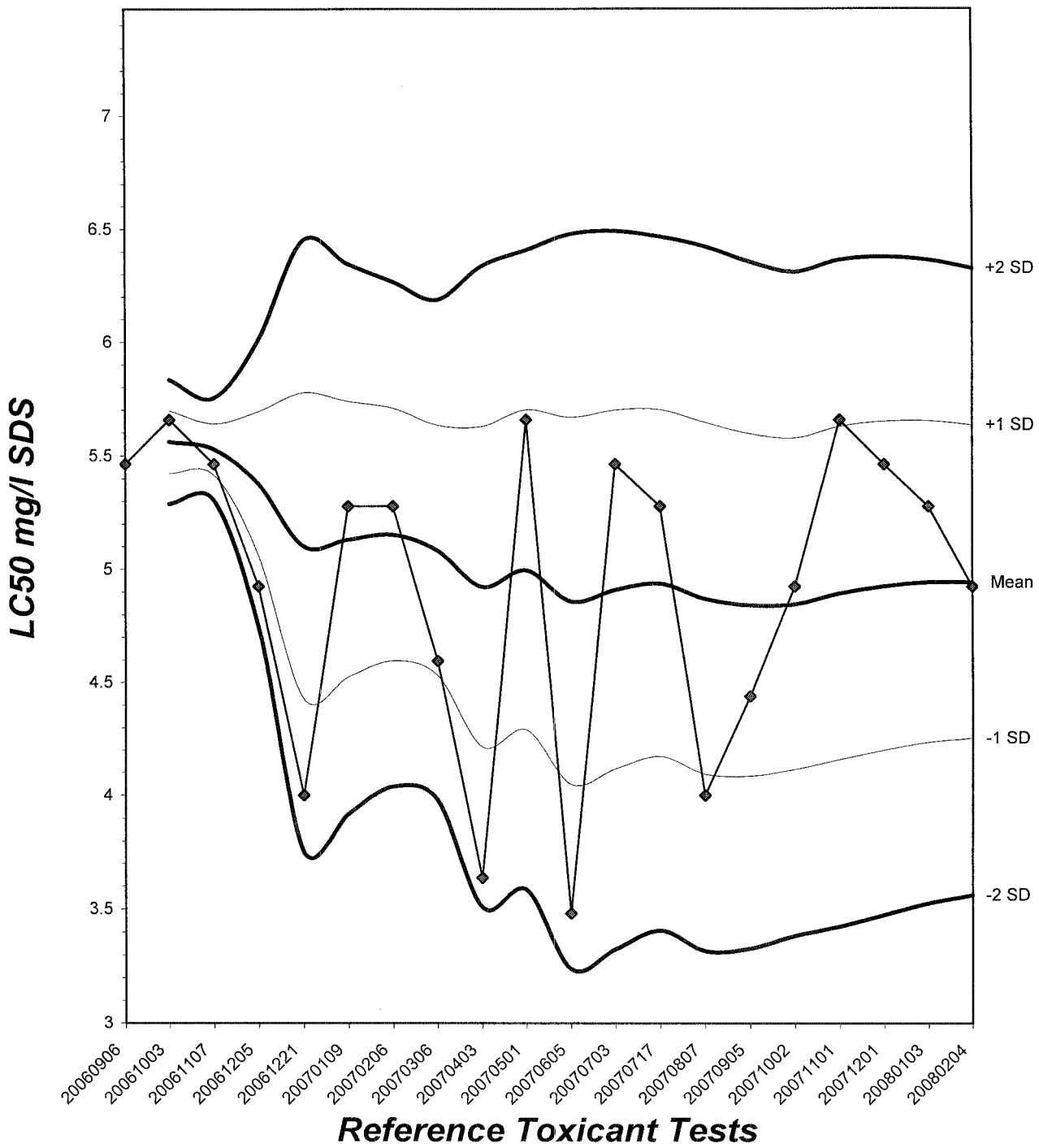
ToxCalc v5.0.23

Reviewed by:

NPDES - 3470

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

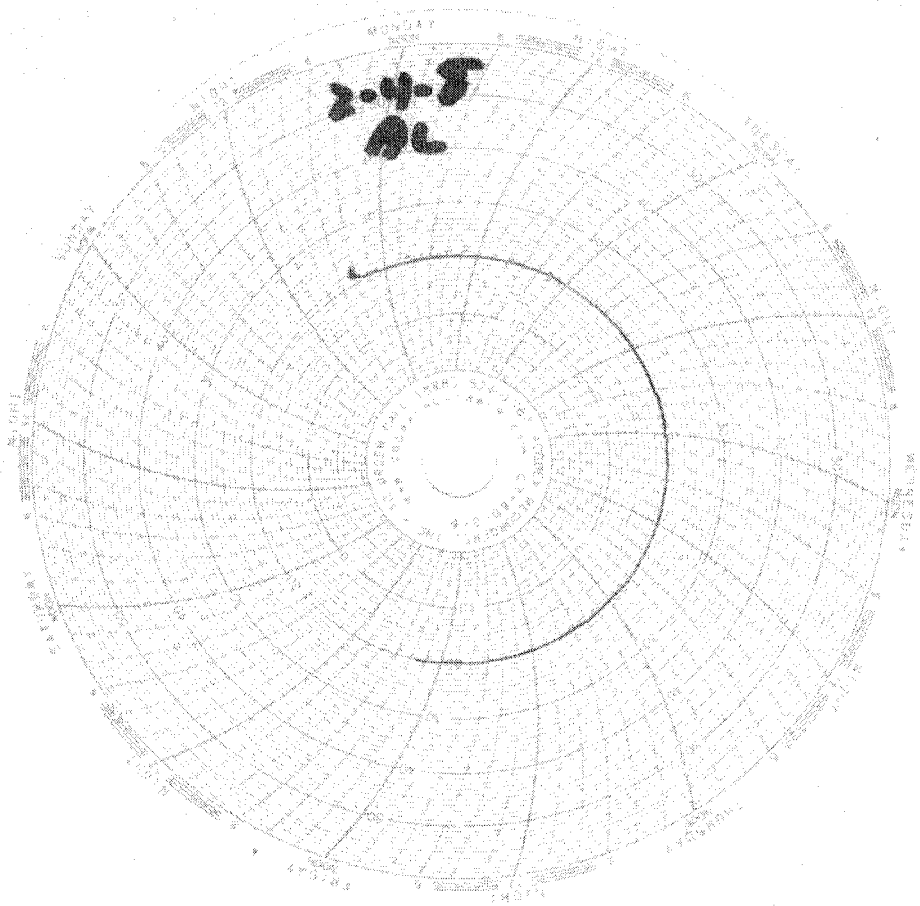
Aquatic Testing Laboratories

Laboratory Temperature Chart

QA/QC Batch No: RT-080202

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

Acceptable Range: 20+/- 1°C



SUBCONTRACT ORDER

TestAmerica Irvine

IRB2402 80022633

SENDING LABORATORY:

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

RECEIVING LABORATORY:

Weck Laboratories, Inc-SUB
14859 E. Clark Avenue
City of Industry, CA 91745
Phone :(626) 336-2139
Fax: (626) 336-2634
Project Location: California
Receipt Temperature: 4.6° °C Ice: (Y) / N

Analysis	Units	Due	Expires	Comments
Sample ID: IRB2402-01	**Water**		Sampled: **02/24/08 10:00**	
Level 4 Data Package - Wec	N/A	03/05/08	03/23/08 10:00	
Mercury - 245.1, Diss -OUT	ug/l	03/05/08	03/23/08 10:00	Boeing, permit, J flags/ OUT to Weck
Mercury - 245.1-OUT	ug/l	03/05/08	03/23/08 10:00	Boeing, permit, J flags/ OUT to Weck

Containers Supplied:

125 mL Poly w/HNO3 (AL) 250 mL Poly (AM)

Released By Date/Time 2/26/08 915

Released By Date/Time 2/26/08 1205

Received By Date/Time 2/26/08 915

Received By James Gmen 1205 Date/Time 2/26/08

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: 02/28/08 07:50
Received Date: 02/26/08 12:05
Turn Around: 6 days

Work Order #: 8022633

Client Project: IRB2402

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 02/26/08 12:05 with the Chain of Custody document. The samples were received in good condition. The samples were received at 4.6 °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: 8022633
Project ID: IRB2402

Date Received: 02/26/08 12:05
Date Reported: 02/28/08 07:50

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Sampled by:	Sample Comments	Laboratory	Matrix	Date Sampled
IRB2402-01	Client		8022633-01	Water	02/24/08 10:00

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: 8022633
Project ID: IRB2402

Date Received: 02/26/08 12:05
Date Reported: 02/28/08 07:50

IRB2402-01 8022633-01 (Water) Date Sampled: 02/24/08 10:00

Metals by EPA 200 Series Methods

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Analyst	Data Qualifiers
Mercury, Dissolved	ND	0.050	ug/l	0.20	1	EPA 245.1	W8B0982	02/26/08	02/27/08	jlp	
Mercury, Total	ND	0.050	ug/l	0.20	1	EPA 245.1	W8B0982	02/26/08	02/27/08	jlp	

Weck Laboratories, Inc
Kim G Tu, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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: 8022633
Project ID: IRB2402

Date Received: 02/26/08 12:05
Date Reported: 02/28/08 07:50

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: 8022633
Project ID: IRB2402

Date Received: 02/26/08 12:05
Date Reported: 02/28/08 07:50

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 W8B0982 - EPA 245.1										
Blank (W8B0982-BLK1)				Analyzed: 02/27/08						
Mercury, Dissolved	ND	0.20	ug/l							
Mercury, Total	ND	0.20	ug/l							
LCS (W8B0982-BS1)				Analyzed: 02/27/08						
Mercury, Dissolved	0.920	0.20	ug/l	1.00		92	85-115			
Mercury, Total	0.920	0.20	ug/l	1.00		92	85-115			
Matrix Spike (W8B0982-MS1)	**Source: 8022631-01**			Analyzed: 02/27/08						
Mercury, Dissolved	1.95	0.40	ug/l	2.00	ND	98	70-130			
Mercury, Total	1.95	0.40	ug/l	2.00	0.0950	93	70-130			
Matrix Spike (W8B0982-MS2)	**Source: 8022633-01**			Analyzed: 02/27/08						
Mercury, Dissolved	1.91	0.40	ug/l	2.00	ND	96	70-130			
Mercury, Total	1.91	0.40	ug/l	2.00	ND	96	70-130			
Matrix Spike Dup (W8B0982-MSD1)	**Source: 8022631-01**			Analyzed: 02/27/08						
Mercury, Dissolved	2.00	0.40	ug/l	2.00	ND	100	70-130	2	20	
Mercury, Total	2.00	0.40	ug/l	2.00	0.0950	95	70-130	2	20	
Matrix Spike Dup (W8B0982-MSD2)	**Source: 8022633-01**			Analyzed: 02/27/08						
Mercury, Dissolved	1.93	0.40	ug/l	2.00	ND	96	70-130	0.9	20	
Mercury, Total	1.93	0.40	ug/l	2.00	ND	96	70-130	0.9	20	

Weck Laboratories, Inc
Kim G Tu, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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: 8022633
Project ID: IRB2402

Date Received: 02/26/08 12:05
Date Reported: 02/28/08 07:50

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.

Vista
Analytical Laboratory

March 14, 2008

Vista Project I.D.: 30304

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

Dear Mr. Doak,

Enclosed are the results for the samples received at Vista Analytical Laboratory on February 26, 2008 under your Project Name "IRB2402". 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

ACCREDITED IN ACCORDANCE WITH nelac

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: **2/26/2008**

Vista Lab. ID	Client Sample ID
30304-001	IRB2402-01

SECTION II

Method Blank **EPA Method 1613**

Matrix:	Aqueous	QC Batch No.:	9997	Lab Sample:	0-MB001
Sample Size:	1.00 L	Date Extracted:	9-Mar-08	Date Analyzed DB-5:	10-Mar-08
				Date Analyzed DB-225:	NA

Analyte	Conc. (ug/L)	DL [a]	EMPC [b]	Qualifiers
2,3,7,8-TCDD	ND	0.000000937		
1,2,3,7,8-PeCDD	ND	0.00000106		
1,2,3,4,7,8-HxCDD	ND	0.00000142		
1,2,3,6,7,8-HxCDD	ND	0.00000142		
1,2,3,7,8,9-HxCDD	ND	0.00000136		
1,2,3,4,6,7,8-HpCDD	ND	0.00000250		
OCDD	ND	0.00000890		
2,3,7,8-TCDF	ND	0.000000547		
1,2,3,7,8-PeCDF	ND	0.000000924		
2,3,4,7,8-PeCDF	ND	0.000000985		
1,2,3,4,7,8-HxCDF	ND	0.000000699		
1,2,3,6,7,8-HxCDF	ND	0.000000669		
2,3,4,6,7,8-HxCDF	ND	0.000000795		
1,2,3,7,8,9-HxCDF	ND	0.00000107		
1,2,3,4,6,7,8-HpCDF	ND	0.000000964		
1,2,3,4,7,8,9-HpCDF	ND	0.00000105		
OCDF	ND	0.00000275		

Labeled Standard		%R	LCL-UCL [d]	Qualifiers
IS	13C-2,3,7,8-TCDD	87.0	25 - 164	
	13C-1,2,3,7,8-PeCDD	77.8	25 - 181	
	13C-1,2,3,4,7,8-HxCDD	82.4	32 - 141	
	13C-1,2,3,6,7,8-HxCDD	88.5	28 - 130	
	13C-1,2,3,4,6,7,8-HpCDD	81.0	23 - 140	
	13C-OCDD	72.3	17 - 157	
	13C-2,3,7,8-TCDF	85.2	24 - 169	
	13C-1,2,3,7,8-PeCDF	73.1	24 - 185	
	13C-2,3,4,7,8-PeCDF	73.2	21 - 178	
	13C-1,2,3,4,7,8-HxCDF	82.4	26 - 152	
	13C-1,2,3,6,7,8-HxCDF	94.2	26 - 123	
	13C-2,3,4,6,7,8-HxCDF	89.8	28 - 136	
	13C-1,2,3,7,8,9-HxCDF	83.4	29 - 147	
	13C-1,2,3,4,6,7,8-HpCDF	79.0	28 - 143	
	13C-1,2,3,4,7,8,9-HpCDF	81.7	26 - 138	
	13C-OCDF	72.4	17 - 157	
CRS	37Cl-2,3,7,8-TCDD	113	35 - 197	

Totals		
Total TCDD	ND	0.000000937
Total PeCDD	ND	0.00000167
Total HxCDD	ND	0.00000235
Total HpCDD	ND	0.00000320
Total TCDF	ND	0.000000547
Total PeCDF	ND	0.000000953
Total HxCDF	ND	0.000000792
Total HpCDF	ND	0.00000100

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 14-Mar-2008 11:28

OPR Results **EPA Method 1613**

Matrix:	Aqueous	QC Batch No.:	9997	Lab Sample:	0-OPR001		
Sample Size:	1.00 L	Date Extracted:	9-Mar-08	Date Analyzed DB-5:	10-Mar-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	10.5	6.7 - 15.8	IS	13C-2,3,7,8-TCDD	84.4	25 - 164	
1,2,3,7,8-PeCDD	50.0	50.9	35 - 71		13C-1,2,3,7,8-PeCDD	78.2	25 - 181	
1,2,3,4,7,8-HxCDD	50.0	49.8	35 - 82		13C-1,2,3,4,7,8-HxCDD	77.7	32 - 141	
1,2,3,6,7,8-HxCDD	50.0	50.3	38 - 67		13C-1,2,3,6,7,8-HxCDD	80.5	28 - 130	
1,2,3,7,8,9-HxCDD	50.0	50.3	32 - 81		13C-1,2,3,4,6,7,8-HpCDD	77.6	23 - 140	
1,2,3,4,6,7,8-HpCDD	50.0	51.0	35 - 70		13C-OCDD	67.4	17 - 157	
OCDD	100	102	78 - 144		13C-2,3,7,8-TCDF	82.6	24 - 169	
2,3,7,8-TCDF	10.0	9.70	7.5 - 15.8		13C-1,2,3,7,8-PeCDF	72.2	24 - 185	
1,2,3,7,8-PeCDF	50.0	51.5	40 - 67		13C-2,3,4,7,8-PeCDF	73.8	21 - 178	
2,3,4,7,8-PeCDF	50.0	51.5	34 - 80		13C-1,2,3,4,7,8-HxCDF	78.8	26 - 152	
1,2,3,4,7,8-HxCDF	50.0	52.0	36 - 67		13C-1,2,3,6,7,8-HxCDF	82.8	26 - 123	
1,2,3,6,7,8-HxCDF	50.0	52.6	42 - 65		13C-2,3,4,6,7,8-HxCDF	78.7	28 - 136	
2,3,4,6,7,8-HxCDF	50.0	53.6	35 - 78		13C-1,2,3,7,8,9-HxCDF	78.2	29 - 147	
1,2,3,7,8,9-HxCDF	50.0	51.9	39 - 65		13C-1,2,3,4,6,7,8-HpCDF	74.8	28 - 143	
1,2,3,4,6,7,8-HpCDF	50.0	52.4	41 - 61		13C-1,2,3,4,7,8,9-HpCDF	75.3	26 - 138	
1,2,3,4,7,8,9-HpCDF	50.0	52.1	39 - 69		13C-OCDF	67.4	17 - 157	
OCDF	100	103	63 - 170	CRS	37Cl-2,3,7,8-TCDD	107	35 - 197	

Analyst: MAS

Approved By: Martha M. Maier 14-Mar-2008 11:28

Sample ID: **IRB2402-01** **EPA Method 1613**

Client Data		Sample Data		Laboratory Data			
Name:	Test America-Irvine, CA	Matrix:	Aqueous	Lab Sample:	30304-001	Date Received:	26-Feb-08
Project:	IRB2402	Sample Size:	1.01 L	QC Batch No.:	9997	Date Extracted:	9-Mar-08
Date Collected:	24-Feb-08			Date Analyzed DB-5:	10-Mar-08	Date Analyzed DB-225:	NA
Time Collected:	1000						

Analyte	Conc. (ug/L)	DL [a]	EMPC[b]	Qualifiers
2,3,7,8-TCDD	ND	0.000000774		
1,2,3,7,8-PeCDD	ND	0.00000121		
1,2,3,4,7,8-HxCDD	ND	0.00000217		
1,2,3,6,7,8-HxCDD	ND	0.00000209		
1,2,3,7,8,9-HxCDD	ND	0.00000204		
1,2,3,4,6,7,8-HpCDD	0.00000206			J
OCDD	0.0000101			J
2,3,7,8-TCDF	ND	0.000000944		
1,2,3,7,8-PeCDF	ND	0.000000894		
2,3,4,7,8-PeCDF	ND	0.000000843		
1,2,3,4,7,8-HxCDF	ND	0.000000854		
1,2,3,6,7,8-HxCDF	ND	0.000000859		
2,3,4,6,7,8-HxCDF	ND	0.000000919		
1,2,3,7,8,9-HxCDF	ND	0.00000118		
1,2,3,4,6,7,8-HpCDF	ND	0.00000114		
1,2,3,4,7,8,9-HpCDF	ND	0.00000117		
OCDF	ND	0.00000326		

	Labeled Standard	%R	LCL-UCL[d]	Qualifiers
IS	13C-2,3,7,8-TCDD	73.7	25 - 164	
	13C-1,2,3,7,8-PeCDD	67.3	25 - 181	
	13C-1,2,3,4,7,8-HxCDD	65.4	32 - 141	
	13C-1,2,3,6,7,8-HxCDD	72.7	28 - 130	
	13C-1,2,3,4,6,7,8-HpCDD	68.1	23 - 140	
	13C-OCDD	56.1	17 - 157	
	13C-2,3,7,8-TCDF	76.9	24 - 169	
	13C-1,2,3,7,8-PeCDF	62.0	24 - 185	
	13C-2,3,4,7,8-PeCDF	64.9	21 - 178	
	13C-1,2,3,4,7,8-HxCDF	65.0	26 - 152	
	13C-1,2,3,6,7,8-HxCDF	73.8	26 - 123	
	13C-2,3,4,6,7,8-HxCDF	69.3	28 - 136	
	13C-1,2,3,7,8,9-HxCDF	69.2	29 - 147	
	13C-1,2,3,4,6,7,8-HpCDF	62.5	28 - 143	
	13C-1,2,3,4,7,8,9-HpCDF	67.9	26 - 138	
	13C-OCDF	59.6	17 - 157	
CRS	37Cl-2,3,7,8-TCDD	105	35 - 197	

Totals		
Total TCDD	ND	0.000000774
Total PeCDD	ND	0.00000224
Total HxCDD	ND	0.00000209
Total HpCDD	0.00000432	
Total TCDF	ND	0.00000219
Total PeCDF	ND	0.00000136
Total HxCDF	ND	0.000000943
Total HpCDF	ND	0.00000115

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 14-Mar-2008 11:28

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

TestAmerica

ANALYTICAL TESTING CORPORATION

30304 2.1°C

SUBCONTRACT ORDER - PROJECT # IRB2402

SENDING LABORATORY:	RECEIVING LABORATORY:
TestAmerica Irvine 17461 Derian Avenue. Suite 100 Irvine, CA 92614 Phone: (949) 261-1022 Fax: (949) 260-3297 Project Manager: Joseph Doak	Vista Analytical Laboratory- SUB 1104 Windfield Way El Dorado Hills, CA 95762 Phone :(916) 673-1520 Fax: (916) 673-0106 Project Location: California

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

Analysis	Expiration	Comments
Sample ID: IRB2402-01 Water Sampled: 02/24/08 10:00		
1613-Dioxin-HR-Alta	03/02/08 10:00	J flags,17 congeners,no TEQ,ug/L,sub=Vista
Level 4 + EDD-OUT	03/23/08 10:00	Excel EDD email to pm,Include Std logs for Lvl IV

Containers Supplied:

1 L Amber (IRB2402-01AI)

1 L Amber (IRB2402-01AJ)

SAMPLE INTEGRITY:

All containers intact:	☐ Yes ☐ No	Sample labels/COC agree:	☐ Yes ☐ No	Samples Received On Ice::	☐ Yes ☐ No
Custody Seals Present:	☐ Yes ☐ No	Samples Preserved Properly:	☐ Yes ☐ No	Samples Received at (temp):	________

Released By	Date	Time	Received By	Date	Time
[signature]			Bethani Benedict [signature]	2/24/08	1530

SAMPLE LOG-IN CHECKLIST

Vista Analytical Laboratory

Vista Project #: 30304 TAT Standard

Samples Arrival:	**Date/Time** 2/26/08 0910	**Initials:** BSB	**Location:** WR-2 **Shelf/Rack:** N/A
Logged In:	**Date/Time** 2/26/08 1530	**Initials:** BSB	**Location:** WR-2 **Shelf/Rack:** E-2

Delivered By:	(FedEx)	UPS	Cal	DHL	Hand Delivered	Other
Preservation:	(Ice)	Blue Ice	Dry Ice	None		
Temp °C 2.1	**Time:** 0924	**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 # 7992 7799 8726	✓		
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:

APPENDIX G

Section 91

Outfall 014, January 5, 2008

MEC^{X} Data Validation Reports

DATA VALIDATION REPORT

Boeing SSFL NPDES

SAMPLE DELIVERY GROUP: IRA0404

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:	IRA0404
Project Manager:	B. Kelly
Matrix:	Soil
QC Level:	IV
No. of Samples:	1
No. of Reanalyses/Dilutions:	0
Laboratory:	TestAmerica-Irvine, Weck, Vista

Table 1. Sample Identification

Client ID	Laboratory ID	Sub-Laboratory ID	Matrix	Collected	Method
Outfall 014	IRA0404-01	30124-001, 8010773-01	Water	01/05/08 1100	180.1, 200.8, 245.1, 405.1, 624, 625, 1613, 8315M
Trip Blank	IRA0404-02		Water		624

II. Sample Management

No anomalies were observed regarding sample management. The sample in this SDG was received at TestAmerica-Irvine, Truesdail, and Weck within the temperature limits of 4°C ±2°C. The sample was received below the temperature limit 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 Vista and Weck. Custody seal were not present on the cooler shipped to Truesdail. 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 28, 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 dissolved 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 not performed on the sample in this SDG. Evaluation of 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. EPA METHOD 625—Semivolatile Organic Compounds (SVOCs)

Reviewed By: L. Calvin
Date Reviewed: March 1, 2008

The samples listed in Table 1 for this analysis were validated based on the guidelines outlined in the *MEC^X Data Validation Procedure for Semivolatile Organics (DVP-3, Rev. 0), EPA Method 8270C*, and the *National Functional Guidelines for Organic Data Review* (2/94).

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

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

- Calibration: For applicable target compounds, initial calibration average RRFs were ≥0.05 and %RSDs ≤35%, and continuing calibration RRFs were ≥0.05 and %Ds ≤20%.

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

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

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

- Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were not performed on the sample of this SDG. Evaluation of method accuracy and precision was based on LSC/LSCD results.

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

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

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

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

- Compound Identification: Compound identification was verified. The laboratory analyzed for semivolatile target compounds naphthalene and n-nirosodimethylamine by EPA

Method 625. Review of the sample chromatogram, retention times, and spectra indicated no problems with target compound identification.

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

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

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

D. EPA METHOD 624—Volatile Organic Compounds (VOCs)

Reviewed By: L. Calvin
Date Reviewed: March 1, 2008

The samples listed in Table 1 for this analysis were validated based on the guidelines outlined in the *MEC^X Data Validation Procedure for Volatile Organics (DVP-2, Rev. 0), EPA Method 8260B*, and the *National Functional Guidelines for Organic Data Review* (2/94).

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

- GC/MS Tuning: The BFB tunes met the method abundance criteria. Samples were analyzed within 12 hours of the BFB injection time.

- Calibration: Calibration criteria were met. For applicable target compounds, initial calibration average RRFs were $\geq$0.05 and %RSDs $\leq$35%. Continuing calibration RRFs were $\geq$0.05 and %Ds $\leq$20%.

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

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

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

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

- Field QC Samples: Field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC

data. Any remaining detects were used to evaluate the associated site samples. Following are findings associated with field QC samples:

- o Trip Blanks: Sample Trip Blank was the trip blank associated with site sample Outfall 014. The trip blank had no target compound detects above the MDL.

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

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

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

- Compound Identification: Compound identification was verified. The laboratory analyzed for five volatile target compounds by EPA Method 624. Review of the sample chromatogram, retention times, and spectra indicated no problems with target compound identification.

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

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

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

E. VARIOUS EPA METHODS—General Minerals

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 *MEC^X Data Validation Procedure for General Minerals (DVP-6, Rev. 0), EPA Methods 180.1, 405.1, and 8015M*, and the *National Functional Guidelines for Inorganic Data Review* (2/94).

- Holding Times: The holding times, 48 hours for BOD and turbidity, were met. The hydrazine sample was derivitized within three days of sampling and was analyzed within three days of derivitization.

- Calibration: Calibration criteria are not applicable to BOD.. The turbidity check standard recoveries were acceptable.

- Blanks: There were no applicable detects in the method blanks.

- Blank Spikes and Laboratory Control Samples: The BOD recoveries and RPD were within the laboratory-established control limits. The LCS is not applicable to turbidity.

- Laboratory Duplicates: No laboratory duplicate analyses were performed.

- Matrix Spike/Matrix Spike Duplicate: BOD MS/MSD analyses were not performed. Method accuracy and precision were evaluated based on the LCS/LCSD results. MS/MSD analyses are not applicable to turbidity. Hydrazine MS/MSD analyses were performed on the sample in this SDG. The recoveries and RPD were within the laboratory-established control limits.

- Sample Result Verification: The sample results were verified against the raw data. No transcription or calculation errors were noted.

- 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: IRA0404-01 Outfall 014 — **EPA Method 1613**

Client Data		Sample Data		Laboratory Data			
Name:	Test America-Irvine, CA	Matrix:	Aqueous	Lab Sample:	30124-001	Date Received:	8-Jan-08
Project:	IRA0404	Sample Size:	0.998 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:	1100						

Analyte	Conc. (ug/L)	DL [a]	EMPC[b]	Qualifiers
2,3,7,8-TCDD	ND	0.00000164		
1,2,3,7,8-PeCDD	ND	0.00000354		
1,2,3,4,7,8-HxCDD	ND	0.00000532		
1,2,3,6,7,8-HxCDD	ND	0.00000520		
1,2,3,7,8,9-HxCDD	ND	0.00000505		
1,2,3,4,6,7,8-HpCDD	0.0000408			
OCDD	0.000564			
2,3,7,8-TCDF	ND	0.00000128		
1,2,3,7,8-PeCDF	ND	0.00000187		
2,3,4,7,8-PeCDF	ND	0.00000318		
1,2,3,4,7,8-HxCDF	ND	0.00000151		
1,2,3,6,7,8-HxCDF	ND	0.00000149		
2,3,4,6,7,8-HxCDF	ND	0.00000157		
1,2,3,7,8,9-HxCDF	ND	0.00000214		
1,2,3,4,6,7,8-HpCDF	0.00000814			J
1,2,3,4,7,8,9-HpCDF	ND	0.00000271		
OCDF	0.0000258			J

Totals			
Total TCDD	ND	0.00000164	
Total PeCDD	ND	0.00000354	
Total HxCDD	0.00000644		0.0000103
Total HpCDD	0.000155		
Total TCDF	ND	0.00000128	
Total PeCDF	ND	0.00000323	
Total HxCDF	0.00000223		0.00000424
Total HpCDF	0.0000238		

	Labeled Standard	%R	LCL-UCL[d]	Qualifiers
IS	13C-2,3,7,8-TCDD	70.8	25 - 164	
	13C-1,2,3,7,8-PeCDD	64.5	25 - 181	
	13C-1,2,3,4,7,8-HxCDD	62.6	32 - 141	
	13C-1,2,3,6,7,8-HxCDD	61.2	28 - 130	
	13C-1,2,3,4,6,7,8-HpCDD	73.0	23 - 140	
	13C-OCDD	57.2	17 - 157	
	13C-2,3,7,8-TCDF	72.1	24 - 169	
	13C-1,2,3,7,8-PeCDF	60.3	24 - 185	
	13C-2,3,4,7,8-PeCDF	66.0	21 - 178	
	13C-1,2,3,4,7,8-HxCDF	58.5	26 - 152	
	13C-1,2,3,6,7,8-HxCDF	59.9	26 - 123	
	13C-2,3,4,6,7,8-HxCDF	62.3	28 - 136	
	13C-1,2,3,7,8,9-HxCDF	63.6	29 - 147	
	13C-1,2,3,4,6,7,8-HpCDF	71.9	28 - 143	
	13C-1,2,3,4,7,8,9-HpCDF	66.9	26 - 138	
	13C-OCDF	55.8	17 - 157	
CRS	37Cl-2,3,7,8-TCDD	90.0	35 - 197	

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

Level IV

Approved By: Martha M. Maier 23-Jan-2008 09:05

NPDES - 3505

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: Routine Outfall 014
Report Number: IRA0404

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

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA0404-01 (OUTFALL 014 - Water) - cont.					**Sampled: 01/05/08**				
Reporting Units: mg/l									
Boron *	EPA 200.7	8A07084	0.020	0.050	ND	1	01/07/08	01/08/08	
Sample ID: IRA0404-01 (OUTFALL 014 - Water)					**Sampled: 01/05/08**				
Reporting Units: ug/l									
Cadmium J/DNQ	EPA 200.8	8A07086	0.11	1.0	**0.77**	1	01/07/08	01/08/08	J
Copper	EPA 200.8	8A07086	0.75	2.0	**1.8**	1	01/07/08	01/08/08	J
Lead	EPA 200.8	8A07086	0.30	1.0	**2.8**	1	01/07/08	01/08/08	
Selenium U	EPA 200.8	8A07086	0.30	2.0	ND	1	01/07/08	01/08/08	
Zinc	EPA 200.8	8A07086	2.5	20	**28**	1	01/07/08	01/08/08	

Analysis not validated

LEVEL IV

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: Routine Outfall 014
Report Number: IRA0404

Sampled: 01/04/08-01/05/08
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: IRA0404-01 (OUTFALL 014 - Water) - cont.					**Sampled: 01/05/08**				
Reporting Units: mg/l									
Boron *	EPA 200.7-Diss	8A08130	0.020	0.050	ND	1	01/08/08	01/08/08	
Sample ID: IRA0404-01 (OUTFALL 014 - Water)					**Sampled: 01/05/08**				
Reporting Units: ug/l									
Cadmium J/DNQ	EPA 200.8-Diss	8A08129	0.11	1.0	**0.46**	1	01/08/08	01/08/08	J
Copper U	EPA 200.8-Diss	8A08129	0.75	2.0	ND	1	01/08/08	01/08/08	
Lead J/DNQ	EPA 200.8-Diss	8A08129	0.30	1.0	**0.52**	1	01/08/08	01/09/08	J
Selenium U	EPA 200.8-Diss	8A08129	0.30	2.0	ND	1	01/08/08	01/08/08	
Zinc J/DNQ	EPA 200.8-Diss	8A08129	2.5	20	**17**	1	01/08/08	01/08/08	J

Analysis not validated

LEVEL IV

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: Routine Outfall 014
Report Number: IRA0404

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

Metals by EPA 200 Series Methods

Analyte		Method	Batch	MDL	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA0404-01 (OUTFALL 014 - Water) - cont.						**Sampled: 01/05/08**				
Reporting Units: ug/l										
Mercury, Dissolved	U	EPA 245.1	W8A0148	0.050	0.20	ND	1	01/08/08	01/09/08	
Mercury, Total	U	EPA 245.1	W8A0148	0.050	0.20	ND	1	01/08/08	01/09/08	

LEVEL IV

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: Routine Outfall 014

Report Number: IRA0404

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

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: IRA0404-01 (OUTFALL 014 - Water)					**Sampled: 01/05/08**				
Reporting Units: ug/l									
Naphthalene	EPA 625	8A06033	2.8	9.4	ND	0.943	01/06/08	01/09/08	
N-Nitrosodimethylamine	EPA 625	8A06033	2.4	19	ND	0.943	01/06/08	01/09/08	
Surrogate: 2-Fluorophenol (30-120%)					*61 %*				
Surrogate: Phenol-d6 (35-120%)					*72 %*				
Surrogate: 2,4,6-Tribromophenol (40-120%)					*68 %*				
Surrogate: Nitrobenzene-d5 (45-120%)					*73 %*				
Surrogate: 2-Fluorobiphenyl (50-120%)					*80 %*				
Surrogate: Terphenyl-d14 (50-125%)					*75 %*				

Level IV

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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: Routine Outfall 014
Report Number: IRA0404

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

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: IRA0404-01 (OUTFALL 014 - Water) - cont.						**Sampled: 01/05/08**				
Reporting Units: ug/l										
1,2-Dibromoethane (EDB)	U	EPA 624	8A09005	0.40	2.0	ND	1	01/09/08	01/09/08	
Methyl-tert-butyl Ether (MTBE)		EPA 624	8A09005	0.32	5.0	ND	1	01/09/08	01/09/08	
1,2,3-Trichloropropane		EPA 624	8A09005	0.40	10	ND	1	01/09/08	01/09/08	
Di-isopropyl Ether (DIPE)		EPA 624	8A09005	0.25	5.0	ND	1	01/09/08	01/09/08	
tert-Butanol (TBA)		EPA 624	8A09005	4.9	25	ND	1	01/09/08	01/09/08	
Surrogate: Dibromofluoromethane (80-120%)						*106 %*				
Surrogate: Toluene-d8 (80-120%)						*103 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)						*89 %*				
Sample ID: IRA0404-02 (TRIP BLANK - Water)						**Sampled: 01/04/08**				
Reporting Units: ug/l										
1,2-Dibromoethane (EDB)	U	EPA 624	8A09005	0.40	2.0	ND	1	01/09/08	01/09/08	
Methyl-tert-butyl Ether (MTBE)		EPA 624	8A09005	0.32	5.0	ND	1	01/09/08	01/09/08	
1,2,3-Trichloropropane		EPA 624	8A09005	0.40	10	ND	1	01/09/08	01/09/08	
Di-isopropyl Ether (DIPE)		EPA 624	8A09005	0.25	5.0	ND	1	01/09/08	01/09/08	
tert-Butanol (TBA)		EPA 624	8A09005	4.9	25	ND	1	01/09/08	01/09/08	
Surrogate: Dibromofluoromethane (80-120%)						*101 %*				
Surrogate: Toluene-d8 (80-120%)						*102 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)						*90 %*				

Level IV

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: Routine Outfall 014
Report Number: IRA0404

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

INORGANICS

Analyte	Method	Batch	MDL	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA0404-01 (OUTFALL 014 - Water) - cont.					**Sampled: 01/05/08**				
Reporting Units: mg/l									
Hexane Extractable Material (Oil & Grease) *	EPA 1664A	8A07065	1.3	4.7	ND	1	01/07/08	01/07/08	
Ammonia-N (Distilled)	EPA 350.2	8A07093	0.30	0.50	ND	1	01/07/08	01/07/08	
Biochemical Oxygen Demand	EPA 405.1	8A07076	0.59	2.0	**8.6**	1	01/07/08	01/12/08	
Chloride *	EPA 300.0	8A06026	2.5	5.0	**91**	10	01/06/08	01/06/08	
Fluoride	EPA 340.2	8A09065	0.014	0.10	**0.72**	1	01/09/08	01/09/08	
Nitrate-N	EPA 300.0	8A06026	0.060	0.11	ND	1	01/06/08	01/06/08	
Nitrite-N	EPA 300.0	8A06026	0.090	0.15	ND	1	01/06/08	01/06/08	
Nitrate/Nitrite-N	EPA 300.0	8A06026	0.15	0.26	ND	1	01/06/08	01/06/08	
Sulfate	EPA 300.0	8A06026	0.20	0.50	**14**	1	01/06/08	01/06/08	
Total Dissolved Solids	SM2540C	8A08084	10	10	**280**	1	01/08/08	01/08/08	
Total Suspended Solids	EPA 160.2	8A07105	10	10	**21**	1	01/07/08	01/07/08	
Sample ID: IRA0404-01 (OUTFALL 014 - Water)					**Sampled: 01/05/08**				
Reporting Units: ml/l/hr									
Total Settleable Solids *	EPA 160.5	8A06031	0.10	0.10	ND	1	01/06/08	01/06/08	
Sample ID: IRA0404-01 (OUTFALL 014 - Water)					**Sampled: 01/05/08**				
Reporting Units: NTU									
Turbidity	EPA 180.1	8A06032	0.040	1.0	**13**	1	01/06/08	01/06/08	
Sample ID: IRA0404-01 (OUTFALL 014 - Water)					**Sampled: 01/05/08**				
Reporting Units: ug/l									
Perchlorate *	EPA 314.0	8A07062	1.5	4.0	ND	1	01/07/08	01/07/08	

*Analysis not validated

LEVEL IV

TestAmerica Irvine

Joseph Doak
Project Manager

TRUESDAIL LABORATORIES, INC.
EXCELLENCE IN INDEPENDENT TESTING
Established 1931
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(714) 730-6239 · FAX (714) 730-6462 · www.truesdail.com

004

Client: TestAmerica Analytical-Irvine
17461 Derian Avenue, Suite 100
Irvine, CA 92614-5817

Attention: Joseph Doak
Sample: Water / 1 Sample
Project Name: IRA0404
P.O. Number: IRA0404
Method Number: 8315 (Modified)
Investigation: Hydrazines

REPORT

Laboratory No: 972443
Report Date: January 14, 2008
Sampling Date: January 5, 2008
Receiving Date: January 7, 2008
Extraction Date: January 7, 2008
Analysis Date: January 8, 2008
Units: µg/L
Reported By: JS

Analytical Results

Sample ID	Sample Descript	Sample Amount (mL)	Dilution Factor	Monomethyl Hydrazine	u-Dimethyl Hydrazine	Hydrazine	Qualifier Codes
707158-MB	Method Blank *	100	1	ND	ND	ND	None
972443	IRA0404-01	100	1	ND U	ND U	ND U	None
MDL				0.56	0.32	0.15	
PQL				5.0	5.0	1.00	
Sample Reporting Limits				5.0	5.0	1.00	

* Analysis not validated

LEVEL IV

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

Xuan Dang, Project Manager
Analytical Services, Truesdail Laboratories, Inc.

NPDES - 3512

APPENDIX G

Section 92

Outfall 014, January 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: Routine Outfall 014

Sampled: 01/04/08-01/05/08
Received: 01/05/08
Revised: 02/27/08 15:48

NELAP #01108CA California ELAP#1197 CSDLAC #10256

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.
This entire report was reviewed and approved for release.

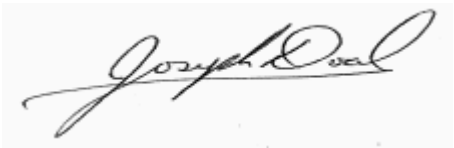
SAMPLE CROSS REFERENCE

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

ADDITIONAL INFORMATION: This report was revised to correct reported carbon range for EFH.

LABORATORY ID	CLIENT ID	MATRIX
IRA0404-01	OUTFALL 014	Water
IRA0404-02	TRIP BLANK	Water

Reviewed By:



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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: Routine Outfall 014
Report Number: IRA0404

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

EXTRACTABLE FUEL HYDROCARBONS (CADHS/8015 Modified)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA0404-01 (OUTFALL 014 - Water)					**Sampled: 01/05/08**				**C**
Reporting Units: mg/l									
EFH (C13 - C22)	EPA 8015B	8A07066	0.094	0.47	ND	0.943	01/07/08	01/08/08	
Surrogate: n-Octacosane (40-125%)					*83 %*				*A-01*

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Joseph Doak
Project Manager

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

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

Project ID: Routine Outfall 014
Report Number: IRA0404

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

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

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA0404-01 (OUTFALL 014 - Water) - cont.					**Sampled: 01/05/08**				
Reporting Units: ug/l									
GRO (C4 - C12)	EPA 8015 Mod.	8A09029	25	100	ND	1	01/09/08	01/09/08	
Surrogate: 4-BFB (FID) (65-140%)					*96 %*				

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Joseph Doak
Project Manager

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

Project ID: Routine Outfall 014
Report Number: IRA0404

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

VOLATILE ORGANICS by GCMS SIM

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA0404-01 (OUTFALL 014 - Water) - cont.					**Sampled: 01/05/08**				
Reporting Units: ug/l									
1,4-Dioxane	EPA 8260B-SIM	8A06013	1.0	2.0	ND	1	01/06/08	01/06/08	
Surrogate: Dibromofluoromethane (80-120%)					*101 %*				

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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: Routine Outfall 014
Report Number: IRA0404

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

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: IRA0404-01 (OUTFALL 014 - Water) - cont.					**Sampled: 01/05/08**				
Reporting Units: ug/l									
1,2-Dibromoethane (EDB)	EPA 624	8A09005	0.40	2.0	ND	1	01/09/08	01/09/08	
Methyl-tert-butyl Ether (MTBE)	EPA 624	8A09005	0.32	5.0	ND	1	01/09/08	01/09/08	
1,2,3-Trichloropropane	EPA 624	8A09005	0.40	10	ND	1	01/09/08	01/09/08	
Di-isopropyl Ether (DIPE)	EPA 624	8A09005	0.25	5.0	ND	1	01/09/08	01/09/08	
tert-Butanol (TBA)	EPA 624	8A09005	4.9	25	ND	1	01/09/08	01/09/08	
Surrogate: Dibromofluoromethane (80-120%)					*106 %*				
Surrogate: Toluene-d8 (80-120%)					*103 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*89 %*				
Sample ID: IRA0404-02 (TRIP BLANK - Water)					**Sampled: 01/04/08**				
Reporting Units: ug/l									
1,2-Dibromoethane (EDB)	EPA 624	8A09005	0.40	2.0	ND	1	01/09/08	01/09/08	
Methyl-tert-butyl Ether (MTBE)	EPA 624	8A09005	0.32	5.0	ND	1	01/09/08	01/09/08	
1,2,3-Trichloropropane	EPA 624	8A09005	0.40	10	ND	1	01/09/08	01/09/08	
Di-isopropyl Ether (DIPE)	EPA 624	8A09005	0.25	5.0	ND	1	01/09/08	01/09/08	
tert-Butanol (TBA)	EPA 624	8A09005	4.9	25	ND	1	01/09/08	01/09/08	
Surrogate: Dibromofluoromethane (80-120%)					*101 %*				
Surrogate: Toluene-d8 (80-120%)					*102 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*90 %*				

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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: Routine Outfall 014
Report Number: IRA0404

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

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: IRA0404-01 (OUTFALL 014 - Water)					**Sampled: 01/05/08**				
Reporting Units: ug/l									
Naphthalene	EPA 625	8A06033	2.8	9.4	ND	0.943	01/06/08	01/09/08	
N-Nitrosodimethylamine	EPA 625	8A06033	2.4	19	ND	0.943	01/06/08	01/09/08	
Surrogate: 2-Fluorophenol (30-120%)					*61 %*				
Surrogate: Phenol-d6 (35-120%)					*72 %*				
Surrogate: 2,4,6-Tribromophenol (40-120%)					*68 %*				
Surrogate: Nitrobenzene-d5 (45-120%)					*73 %*				
Surrogate: 2-Fluorobiphenyl (50-120%)					*80 %*				
Surrogate: Terphenyl-d14 (50-125%)					*75 %*				

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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: Routine Outfall 014
Report Number: IRA0404

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

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA0404-01 (OUTFALL 014 - Water) - cont.					**Sampled: 01/05/08**				
Reporting Units: mg/l									
Boron	EPA 200.7	8A07084	0.020	0.050	ND	1	01/07/08	01/08/08	
Sample ID: IRA0404-01 (OUTFALL 014 - Water)					**Sampled: 01/05/08**				
Reporting Units: ug/l									
Cadmium	EPA 200.8	8A07086	0.11	1.0	**0.77**	1	01/07/08	01/08/08	J
Copper	EPA 200.8	8A07086	0.75	2.0	**1.8**	1	01/07/08	01/08/08	J
Lead	EPA 200.8	8A07086	0.30	1.0	**2.8**	1	01/07/08	01/08/08	
Selenium	EPA 200.8	8A07086	0.30	2.0	ND	1	01/07/08	01/08/08	
Zinc	EPA 200.8	8A07086	2.5	20	**28**	1	01/07/08	01/08/08	

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: Routine Outfall 014
Report Number: IRA0404

Sampled: 01/04/08-01/05/08
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: IRA0404-01 (OUTFALL 014 - Water) - cont.					**Sampled: 01/05/08**				
Reporting Units: mg/l									
Boron	EPA 200.7-Diss	8A08130	0.020	0.050	ND	1	01/08/08	01/08/08	
Sample ID: IRA0404-01 (OUTFALL 014 - Water)					**Sampled: 01/05/08**				
Reporting Units: ug/l									
Cadmium	EPA 200.8-Diss	8A08129	0.11	1.0	**0.46**	1	01/08/08	01/08/08	J
Copper	EPA 200.8-Diss	8A08129	0.75	2.0	ND	1	01/08/08	01/08/08	
Lead	EPA 200.8-Diss	8A08129	0.30	1.0	**0.52**	1	01/08/08	01/09/08	J
Selenium	EPA 200.8-Diss	8A08129	0.30	2.0	ND	1	01/08/08	01/08/08	
Zinc	EPA 200.8-Diss	8A08129	2.5	20	**17**	1	01/08/08	01/08/08	J

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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: Routine Outfall 014
Report Number: IRA0404

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

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA0404-01 (OUTFALL 014 - Water) - cont.					**Sampled: 01/05/08**				
Reporting Units: mg/l									
Hexane Extractable Material (Oil & Grease)	EPA 1664A	8A07065	1.3	4.7	ND	1	01/07/08	01/07/08	
Ammonia-N (Distilled)	EPA 350.2	8A07093	0.30	0.50	ND	1	01/07/08	01/07/08	
Biochemical Oxygen Demand	EPA 405.1	8A07076	0.59	2.0	**8.6**	1	01/07/08	01/12/08	
Chloride	EPA 300.0	8A06026	2.5	5.0	**91**	10	01/06/08	01/06/08	
Fluoride	EPA 340.2	8A09065	0.014	0.10	**0.72**	1	01/09/08	01/09/08	
Nitrate-N	EPA 300.0	8A06026	0.060	0.11	ND	1	01/06/08	01/06/08	
Nitrite-N	EPA 300.0	8A06026	0.090	0.15	ND	1	01/06/08	01/06/08	
Nitrate/Nitrite-N	EPA 300.0	8A06026	0.15	0.26	ND	1	01/06/08	01/06/08	
Sulfate	EPA 300.0	8A06026	0.20	0.50	**14**	1	01/06/08	01/06/08	
Total Dissolved Solids	SM2540C	8A08084	10	10	**280**	1	01/08/08	01/08/08	
Total Suspended Solids	EPA 160.2	8A07105	10	10	**21**	1	01/07/08	01/07/08	
Sample ID: IRA0404-01 (OUTFALL 014 - Water)					**Sampled: 01/05/08**				
Reporting Units: ml/l/hr									
Total Settleable Solids	EPA 160.5	8A06031	0.10	0.10	ND	1	01/06/08	01/06/08	
Sample ID: IRA0404-01 (OUTFALL 014 - Water)					**Sampled: 01/05/08**				
Reporting Units: NTU									
Turbidity	EPA 180.1	8A06032	0.040	1.0	**13**	1	01/06/08	01/06/08	
Sample ID: IRA0404-01 (OUTFALL 014 - Water)					**Sampled: 01/05/08**				
Reporting Units: ug/l									
Perchlorate	EPA 314.0	8A07062	1.5	4.0	ND	1	01/07/08	01/07/08	

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: Routine Outfall 014
Report Number: IRA0404

Sampled: 01/04/08-01/05/08
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: IRA0404-01 (OUTFALL 014 - Water) - cont.					**Sampled: 01/05/08**				
Reporting Units: ug/l									
Mercury, Dissolved	EPA 245.1	W8A0148	0.050	0.20	ND	1	01/08/08	01/09/08	
Mercury, Total	EPA 245.1	W8A0148	0.050	0.20	ND	1	01/08/08	01/09/08	

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Joseph Doak
Project Manager

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

MWH-Pasadena/Boeing
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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 014 (IRA0404-01) - Water					
EPA 160.5	2	01/05/2008 11:00	01/05/2008 19:00	01/06/2008 10:50	01/06/2008 10:50
EPA 180.1	2	01/05/2008 11:00	01/05/2008 19:00	01/06/2008 12:10	01/06/2008 12:10
EPA 300.0	2	01/05/2008 11:00	01/05/2008 19:00	01/06/2008 07:00	01/06/2008 09:12
EPA 405.1	2	01/05/2008 11:00	01/05/2008 19:00	01/07/2008 10:00	01/12/2008 10:00

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Project Manager

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

MWH-Pasadena/Boeing
618 Michillinda Avenue, Suite 200
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Received: 01/05/08

METHOD BLANK/QC DATA

EXTRACTABLE FUEL HYDROCARBONS (CADHS/8015 Modified)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8A07066 Extracted: 01/07/08											
Blank Analyzed: 01/07/2008 (8A07066-BLK1)											
EFH (C13 - C22)	ND	0.50	0.10	mg/l							
Surrogate: n-Octacosane	*0.198*			*mg/l*	*0.200*		*99*	*40-125*			
LCS Analyzed: 01/07/2008 (8A07066-BS1)											**MNR1**
EFH (C13 - C40)	0.721	0.50	0.10	mg/l	0.750		96	40-115			
Surrogate: n-Octacosane	*0.200*			*mg/l*	*0.200*		*100*	*40-125*			
LCS Dup Analyzed: 01/07/2008 (8A07066-BSD1)											
EFH (C13 - C40)	0.728	0.50	0.10	mg/l	0.750		97	40-115	1	25	
Surrogate: n-Octacosane	*0.185*			*mg/l*	*0.200*		*92*	*40-125*			

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Project Manager

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

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618 Michillinda Avenue, Suite 200
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Received: 01/05/08

METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8A09029 Extracted: 01/09/08											
Blank Analyzed: 01/09/2008 (8A09029-BLK1)											
GRO (C4 - C12)	ND	100	25	ug/l							
Surrogate: 4-BFB (FID)	*9.07*			*ug/l*	*10.0*		*91*	*65-140*			
LCS Analyzed: 01/09/2008 (8A09029-BS1)											
GRO (C4 - C12)	781	100	25	ug/l	800		98	80-120			
Surrogate: 4-BFB (FID)	*12.8*			*ug/l*	*10.0*		*128*	*65-140*			
Matrix Spike Analyzed: 01/09/2008 (8A09029-MS1)						**Source: IRA0484-01**					
GRO (C4 - C12)	228	100	25	ug/l	220	ND	103	65-140			
Surrogate: 4-BFB (FID)	*10.1*			*ug/l*	*10.0*		*101*	*65-140*			
Matrix Spike Dup Analyzed: 01/09/2008 (8A09029-MSD1)						**Source: IRA0484-01**					
GRO (C4 - C12)	227	100	25	ug/l	220	ND	103	65-140	0	20	
Surrogate: 4-BFB (FID)	*10.4*			*ug/l*	*10.0*		*104*	*65-140*			

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Joseph Doak
Project Manager

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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GCMS SIM

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8A06013 Extracted: 01/06/08											
Blank Analyzed: 01/06/2008 (8A06013-BLK1)											
1,4-Dioxane	ND	2.0	1.0	ug/l							
Surrogate: Dibromofluoromethane	*0.980*			*ug/l*	*1.00*		*98*	*80-120*			
LCS Analyzed: 01/06/2008 (8A06013-BS1)											
1,4-Dioxane	9.04	2.0	1.0	ug/l	10.0		90	70-125			
Surrogate: Dibromofluoromethane	*0.970*			*ug/l*	*1.00*		*97*	*80-120*			
Matrix Spike Analyzed: 01/06/2008 (8A06013-MS1)						**Source: IRA0014-01**					
1,4-Dioxane	9.01	2.0	1.0	ug/l	10.0	ND	90	70-130			
Surrogate: Dibromofluoromethane	*0.990*			*ug/l*	*1.00*		*99*	*80-120*			
Matrix Spike Dup Analyzed: 01/06/2008 (8A06013-MSD1)						**Source: IRA0014-01**					
1,4-Dioxane	8.95	2.0	1.0	ug/l	10.0	ND	90	70-130	1	30	
Surrogate: Dibromofluoromethane	*0.990*			*ug/l*	*1.00*		*99*	*80-120*			

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Joseph Doak
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

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

MWH-Pasadena/Boeing
618 Michillinda Avenue, Suite 200
Arcadia, CA 91007
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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: 8A09005 Extracted: 01/09/08											
Blank Analyzed: 01/09/2008 (8A09005-BLK1)											
1,2-Dibromoethane (EDB)	ND	2.0	0.40	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	5.0	0.32	ug/l							
1,2,3-Trichloropropane	ND	10	0.40	ug/l							
Di-isopropyl Ether (DIPE)	ND	5.0	0.25	ug/l							
tert-Butanol (TBA)	ND	25	4.9	ug/l							
Surrogate: Dibromofluoromethane	*24.4*			*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: Toluene-d8	*25.3*			*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*22.6*			*ug/l*	*25.0*		*90*	*80-120*			
LCS Analyzed: 01/09/2008 (8A09005-BS1)											
1,2-Dibromoethane (EDB)	23.7	2.0	0.40	ug/l	25.0		95	75-125			
Methyl-tert-butyl Ether (MTBE)	25.0	5.0	0.32	ug/l	25.0		100	60-135			
1,2,3-Trichloropropane	24.8	10	0.40	ug/l	25.0		99	60-130			
Di-isopropyl Ether (DIPE)	29.5	5.0	0.25	ug/l	25.0		118	60-135			
tert-Butanol (TBA)	149	25	4.9	ug/l	125		119	70-135			
Surrogate: Dibromofluoromethane	*26.3*			*ug/l*	*25.0*		*105*	*80-120*			
Surrogate: Toluene-d8	*25.5*			*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.7*			*ug/l*	*25.0*		*95*	*80-120*			
Matrix Spike Analyzed: 01/09/2008 (8A09005-MS1)						**Source: IRA0464-01**					
1,2-Dibromoethane (EDB)	22.1	2.0	0.40	ug/l	25.0	ND	88	70-130			
Methyl-tert-butyl Ether (MTBE)	23.6	5.0	0.32	ug/l	25.0	ND	95	55-145			
1,2,3-Trichloropropane	23.6	10	0.40	ug/l	25.0	ND	94	55-135			
Di-isopropyl Ether (DIPE)	28.1	5.0	0.25	ug/l	25.0	ND	112	60-140			
tert-Butanol (TBA)	146	25	4.9	ug/l	125	ND	116	65-140			
Surrogate: Dibromofluoromethane	*26.8*			*ug/l*	*25.0*		*107*	*80-120*			
Surrogate: Toluene-d8	*25.1*			*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.7*			*ug/l*	*25.0*		*95*	*80-120*			

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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

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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: 8A09005 Extracted: 01/09/08											
Matrix Spike Dup Analyzed: 01/09/2008 (8A09005-MSD1)						**Source: IRA0464-01**					
1,2-Dibromoethane (EDB)	23.0	2.0	0.40	ug/l	25.0	ND	92	70-130	4	25	
Methyl-tert-butyl Ether (MTBE)	24.4	5.0	0.32	ug/l	25.0	ND	98	55-145	3	25	
1,2,3-Trichloropropane	24.1	10	0.40	ug/l	25.0	ND	96	55-135	2	30	
Di-isopropyl Ether (DIPE)	28.6	5.0	0.25	ug/l	25.0	ND	114	60-140	2	25	
tert-Butanol (TBA)	151	25	4.9	ug/l	125	ND	121	65-140	4	25	
Surrogate: Dibromofluoromethane	*26.5*			*ug/l*	*25.0*		*106*	*80-120*			
Surrogate: Toluene-d8	*25.5*			*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.9*			*ug/l*	*25.0*		*96*	*80-120*			

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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
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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: 8A06033 Extracted: 01/06/08											
Blank Analyzed: 01/08/2008 (8A06033-BLK1)											
Naphthalene	ND	10	3.0	ug/l							
N-Nitrosodimethylamine	ND	20	2.5	ug/l							
Surrogate: 2-Fluorophenol	*123*			*ug/l*	*200*		*61*	*30-120*			
Surrogate: Phenol-d6	*143*			*ug/l*	*200*		*72*	*35-120*			
Surrogate: 2,4,6-Tribromophenol	*139*			*ug/l*	*200*		*69*	*40-120*			
Surrogate: Nitrobenzene-d5	*68.3*			*ug/l*	*100*		*68*	*45-120*			
Surrogate: 2-Fluorobiphenyl	*82.7*			*ug/l*	*100*		*83*	*50-120*			
Surrogate: Terphenyl-d14	*80.1*			*ug/l*	*100*		*80*	*50-125*			
LCS Analyzed: 01/08/2008 (8A06033-BS1)											**MNR1**
Naphthalene	73.2	10	3.0	ug/l	100		73	55-120			
N-Nitrosodimethylamine	60.1	20	2.5	ug/l	100		60	45-120			
Surrogate: 2-Fluorophenol	*110*			*ug/l*	*200*		*55*	*30-120*			
Surrogate: Phenol-d6	*128*			*ug/l*	*200*		*64*	*35-120*			
Surrogate: 2,4,6-Tribromophenol	*136*			*ug/l*	*200*		*68*	*40-120*			
Surrogate: Nitrobenzene-d5	*64.7*			*ug/l*	*100*		*65*	*45-120*			
Surrogate: 2-Fluorobiphenyl	*73.9*			*ug/l*	*100*		*74*	*50-120*			
Surrogate: Terphenyl-d14	*71.5*			*ug/l*	*100*		*72*	*50-125*			
LCS Dup Analyzed: 01/08/2008 (8A06033-BSD1)											
Naphthalene	76.2	10	3.0	ug/l	100		76	55-120	4	20	
N-Nitrosodimethylamine	59.6	20	2.5	ug/l	100		60	45-120	1	20	
Surrogate: 2-Fluorophenol	*116*			*ug/l*	*200*		*58*	*30-120*			
Surrogate: Phenol-d6	*136*			*ug/l*	*200*		*68*	*35-120*			
Surrogate: 2,4,6-Tribromophenol	*145*			*ug/l*	*200*		*72*	*40-120*			
Surrogate: Nitrobenzene-d5	*67.3*			*ug/l*	*100*		*67*	*45-120*			
Surrogate: 2-Fluorobiphenyl	*76.2*			*ug/l*	*100*		*76*	*50-120*			
Surrogate: Terphenyl-d14	*75.8*			*ug/l*	*100*		*76*	*50-125*			

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Project Manager

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

MWH-Pasadena/Boeing
618 Michillinda Avenue, Suite 200
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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: 8A07084 Extracted: 01/07/08											
Blank Analyzed: 01/08/2008 (8A07084-BLK1)											
Boron	ND	0.050	0.020	mg/l							
LCS Analyzed: 01/08/2008 (8A07084-BS1)											
Boron	0.476	0.050	0.020	mg/l	0.500		95	85-115			
Matrix Spike Analyzed: 01/08/2008 (8A07084-MS1)						**Source: IRA0397-01**					
Boron	0.521	0.050	0.020	mg/l	0.500	0.0534	94	70-130			
Matrix Spike Analyzed: 01/08/2008 (8A07084-MS2)						**Source: IRA0317-02**					
Boron	0.762	0.050	0.020	mg/l	0.500	0.296	93	70-130			
Matrix Spike Dup Analyzed: 01/08/2008 (8A07084-MSD1)						**Source: IRA0397-01**					
Boron	0.523	0.050	0.020	mg/l	0.500	0.0534	94	70-130	0	20	
Batch: 8A07086 Extracted: 01/07/08											
Blank Analyzed: 01/08/2008 (8A07086-BLK1)											
Cadmium	ND	1.0	0.11	ug/l							
Copper	ND	2.0	0.75	ug/l							
Lead	ND	1.0	0.30	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Zinc	ND	20	2.5	ug/l							
LCS Analyzed: 01/08/2008 (8A07086-BS1)											
Cadmium	86.8	1.0	0.11	ug/l	80.0		109	85-115			
Copper	84.2	2.0	0.75	ug/l	80.0		105	85-115			
Lead	85.6	1.0	0.30	ug/l	80.0		107	85-115			
Selenium	80.9	2.0	0.30	ug/l	80.0		101	85-115			
Zinc	83.2	20	2.5	ug/l	80.0		104	85-115			

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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: 8A07086 Extracted: 01/07/08											
Matrix Spike Analyzed: 01/08/2008 (8A07086-MS1)						**Source: IRA0400-01**					
Cadmium	86.4	1.0	0.11	ug/l	80.0	ND	108	70-130			
Copper	81.9	2.0	0.75	ug/l	80.0	ND	102	70-130			
Lead	86.5	1.0	0.30	ug/l	80.0	ND	108	70-130			
Selenium	78.4	2.0	0.30	ug/l	80.0	ND	98	70-130			
Zinc	79.6	20	2.5	ug/l	80.0	2.81	96	70-130			
Matrix Spike Dup Analyzed: 01/08/2008 (8A07086-MSD1)						**Source: IRA0400-01**					
Cadmium	86.4	1.0	0.11	ug/l	80.0	ND	108	70-130	0	20	
Copper	82.1	2.0	0.75	ug/l	80.0	ND	103	70-130	0	20	
Lead	86.0	1.0	0.30	ug/l	80.0	ND	108	70-130	1	20	
Selenium	78.4	2.0	0.30	ug/l	80.0	ND	98	70-130	0	20	
Zinc	80.3	20	2.5	ug/l	80.0	2.81	97	70-130	1	20	

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Joseph Doak
Project Manager

TestAmerica
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MWH-Pasadena/Boeing
618 Michillinda Avenue, Suite 200
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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: 8A08129 Extracted: 01/08/08											
Blank Analyzed: 01/08/2008 (8A08129-BLK1)											
Cadmium	ND	1.0	0.11	ug/l							
Copper	ND	2.0	0.75	ug/l							
Lead	ND	1.0	0.30	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Zinc	ND	20	2.5	ug/l							
LCS Analyzed: 01/08/2008 (8A08129-BS1)											
Cadmium	79.9	1.0	0.11	ug/l	80.0		100	85-115			
Copper	76.8	2.0	0.75	ug/l	80.0		96	85-115			
Lead	85.3	1.0	0.30	ug/l	80.0		107	85-115			
Selenium	91.1	2.0	0.30	ug/l	80.0		114	85-115			
Zinc	88.0	20	2.5	ug/l	80.0		110	85-115			
Matrix Spike Analyzed: 01/08/2008 (8A08129-MS1)						**Source: IRA0393-01**					
Cadmium	76.6	1.0	0.11	ug/l	80.0	ND	96	70-130			
Copper	76.2	2.0	0.75	ug/l	80.0	2.23	92	70-130			
Lead	83.2	1.0	0.30	ug/l	80.0	ND	104	70-130			
Selenium	96.7	2.0	0.30	ug/l	80.0	1.16	119	70-130			
Zinc	79.6	20	2.5	ug/l	80.0	ND	100	70-130			
Matrix Spike Dup Analyzed: 01/08/2008 (8A08129-MSD1)						**Source: IRA0393-01**					
Cadmium	76.4	1.0	0.11	ug/l	80.0	ND	96	70-130	0	20	
Copper	76.0	2.0	0.75	ug/l	80.0	2.23	92	70-130	0	20	
Lead	82.9	1.0	0.30	ug/l	80.0	ND	104	70-130	0	20	
Selenium	96.3	2.0	0.30	ug/l	80.0	1.16	119	70-130	0	20	
Zinc	79.7	20	2.5	ug/l	80.0	ND	100	70-130	0	20	

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Joseph Doak
Project Manager

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

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

Project ID: Routine Outfall 014

Report Number: IRA0404

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

METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8A08130 Extracted: 01/08/08											
Blank Analyzed: 01/08/2008 (8A08130-BLK1)											
Boron	ND	0.050	0.020	mg/l							
LCS Analyzed: 01/08/2008 (8A08130-BS1)											
Boron	0.974	0.050	0.020	mg/l	1.00		97	85-115			
Matrix Spike Analyzed: 01/08/2008 (8A08130-MS1)						**Source: IRA0401-01**					
Boron	1.05	0.050	0.020	mg/l	1.00	0.0649	98	70-130			
Matrix Spike Dup Analyzed: 01/08/2008 (8A08130-MSD1)						**Source: IRA0401-01**					
Boron	1.06	0.050	0.020	mg/l	1.00	0.0649	100	70-130	1	20	

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Joseph Doak
Project Manager

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Received: 01/05/08

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8A06026 Extracted: 01/06/08											
Blank Analyzed: 01/06/2008 (8A06026-BLK1)											
Chloride	ND	0.50	0.25	mg/l							
Nitrate-N	ND	0.11	0.060	mg/l							
Nitrite-N	ND	0.15	0.090	mg/l							
Nitrate/Nitrite-N	ND	0.26	0.15	mg/l							
Sulfate	0.320	0.50	0.20	mg/l							*J*
LCS Analyzed: 01/06/2008 (8A06026-BS1)											
Chloride	4.53	0.50	0.25	mg/l	5.00		91	90-110			
Nitrate-N	1.05	0.11	0.060	mg/l	1.13		93	90-110			
Nitrite-N	1.53	0.15	0.090	mg/l	1.52		101	90-110			
Sulfate	9.97	0.50	0.20	mg/l	10.0		100	90-110			
Matrix Spike Analyzed: 01/06/2008 (8A06026-MS1)						**Source: IRA0399-01**					
Chloride	12.9	0.50	0.25	mg/l	5.00	7.84	101	80-120			
Nitrate-N	3.84	0.11	0.060	mg/l	1.13	2.51	118	80-120			
Nitrite-N	1.87	0.15	0.090	mg/l	1.52	ND	123	80-120			*M1*
Sulfate	22.3	0.50	0.20	mg/l	10.0	12.0	103	80-120			
Matrix Spike Dup Analyzed: 01/06/2008 (8A06026-MSD1)						**Source: IRA0399-01**					
Chloride	12.6	0.50	0.25	mg/l	5.00	7.84	94	80-120	3	20	
Nitrate-N	3.62	0.11	0.060	mg/l	1.13	2.51	99	80-120	6	20	
Nitrite-N	1.68	0.15	0.090	mg/l	1.52	ND	111	80-120	10	20	
Sulfate	21.6	0.50	0.20	mg/l	10.0	12.0	96	80-120	3	20	
Batch: 8A06032 Extracted: 01/06/08											
Blank Analyzed: 01/06/2008 (8A06032-BLK1)											
Turbidity	ND	1.0	0.040	NTU							

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Project ID: Routine Outfall 014
Report Number: IRA0404

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

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8A06032 Extracted: 01/06/08											
Duplicate Analyzed: 01/06/2008 (8A06032-DUP1)						**Source: IRA0401-01**					
Turbidity	5.44	1.0	0.040	NTU		5.39			1	20	
Batch: 8A07062 Extracted: 01/07/08											
Blank Analyzed: 01/07/2008 (8A07062-BLK1)											
Perchlorate	ND	4.0	1.5	ug/l							
LCS Analyzed: 01/07/2008 (8A07062-BS1)											
Perchlorate	50.8	4.0	1.5	ug/l	50.0		102	85-115			
Matrix Spike Analyzed: 01/07/2008 (8A07062-MS1)						**Source: IRA0314-03**					
Perchlorate	55.2	4.0	1.5	ug/l	50.0	ND	110	80-120			
Matrix Spike Dup Analyzed: 01/07/2008 (8A07062-MSD1)						**Source: IRA0314-03**					
Perchlorate	56.4	4.0	1.5	ug/l	50.0	ND	113	80-120	2	20	
Batch: 8A07065 Extracted: 01/07/08											
Blank Analyzed: 01/07/2008 (8A07065-BLK1)											
Hexane Extractable Material (Oil & Grease)	ND	5.0	1.4	mg/l							
LCS Analyzed: 01/07/2008 (8A07065-BS1)											**MNR1**
Hexane Extractable Material (Oil & Grease)	17.9	5.0	1.4	mg/l	20.2		89	78-114			
LCS Dup Analyzed: 01/07/2008 (8A07065-BSD1)											
Hexane Extractable Material (Oil & Grease)	18.6	5.0	1.4	mg/l	20.2		92	78-114	4	11	

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Report Number: IRA0404

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

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8A07076 Extracted: 01/07/08											
Blank Analyzed: 01/12/2008 (8A07076-BLK1)											
Biochemical Oxygen Demand	ND	2.0	0.59	mg/l							
LCS Analyzed: 01/12/2008 (8A07076-BS1)											
Biochemical Oxygen Demand	182	100	30	mg/l	198		92	85-115			
LCS Dup Analyzed: 01/12/2008 (8A07076-BSD1)											
Biochemical Oxygen Demand	178	100	30	mg/l	198		90	85-115	2	20	
Batch: 8A07093 Extracted: 01/07/08											
Blank Analyzed: 01/07/2008 (8A07093-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 01/07/2008 (8A07093-BS1)											
Ammonia-N (Distilled)	10.6	0.50	0.30	mg/l	10.0		106	80-115			
Matrix Spike Analyzed: 01/07/2008 (8A07093-MS1)						**Source: IRA0401-01**					
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	ND	112	70-120			
Matrix Spike Dup Analyzed: 01/07/2008 (8A07093-MSD1)						**Source: IRA0401-01**					
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	ND	112	70-120	0	15	
Batch: 8A07105 Extracted: 01/07/08											
Blank Analyzed: 01/07/2008 (8A07105-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							

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Project Manager

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

Project ID: Routine Outfall 014
Report Number: IRA0404

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

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8A07105 Extracted: 01/07/08											
LCS Analyzed: 01/07/2008 (8A07105-BS1)											
Total Suspended Solids	965	10	10	mg/l	1000		96	85-115			
Duplicate Analyzed: 01/07/2008 (8A07105-DUP1)						**Source: IRA0401-01**					
Total Suspended Solids	ND	10	10	mg/l		ND				10	
Batch: 8A08084 Extracted: 01/08/08											
Blank Analyzed: 01/08/2008 (8A08084-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 01/08/2008 (8A08084-BS1)											
Total Dissolved Solids	996	10	10	mg/l	1000		100	90-110			
Duplicate Analyzed: 01/08/2008 (8A08084-DUP1)						**Source: IRA0400-01**					
Total Dissolved Solids	238	10	10	mg/l		240			1	10	
Batch: 8A09065 Extracted: 01/09/08											
Blank Analyzed: 01/09/2008 (8A09065-BLK1)											
Fluoride	0.0303	0.10	0.014	mg/l							*J*
LCS Analyzed: 01/09/2008 (8A09065-BS1)											
Fluoride	1.07	0.10	0.014	mg/l	1.00		107	90-110			
Matrix Spike Analyzed: 01/09/2008 (8A09065-MS1)						**Source: IRA0648-01**					
Fluoride	2.29	0.10	0.014	mg/l	2.00	0.340	97	80-120			

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MWH-Pasadena/Boeing
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Arcadia, CA 91007
Attention: Bronwyn Kelly

Project ID: Routine Outfall 014
Report Number: IRA0404

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

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8A09065 Extracted: 01/09/08											
Matrix Spike Dup Analyzed: 01/09/2008 (8A09065-MSD1)						**Source: IRA0648-01**					
Fluoride	2.27	0.10	0.014	mg/l	2.00	0.340	97	80-120	1	20	

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618 Michillinda Avenue, Suite 200
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Project ID: Routine Outfall 014
Report Number: IRA0404

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

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: W8A0148 Extracted: 01/08/08											
Blank Analyzed: 01/09/2008 (W8A0148-BLK1)											
Mercury, Dissolved	ND	0.20	0.050	ug/l							
Mercury, Total	ND	0.20	0.050	ug/l							
LCS Analyzed: 01/09/2008 (W8A0148-BS1)											
Mercury, Dissolved	0.965	0.20	0.050	ug/l	1.00		96	85-115			
Mercury, Total	0.965	0.20	0.050	ug/l	1.00		96	85-115			
Matrix Spike Analyzed: 01/09/2008 (W8A0148-MS1)						**Source: 7120722-01**					
Mercury, Dissolved	1.97	0.40	0.10	ug/l	2.00	ND	98	70-130			
Mercury, Total	1.97	0.40	0.10	ug/l	2.00	ND	98	70-130			
Matrix Spike Analyzed: 01/09/2008 (W8A0148-MS2)						**Source: 7120722-03**					
Mercury, Dissolved	1.88	0.40	0.10	ug/l	2.00	ND	94	70-130			
Mercury, Total	1.88	0.40	0.10	ug/l	2.00	ND	94	70-130			
Matrix Spike Dup Analyzed: 01/09/2008 (W8A0148-MSD1)						**Source: 7120722-01**					
Mercury, Dissolved	1.92	0.40	0.10	ug/l	2.00	ND	96	70-130	2	20	
Mercury, Total	1.92	0.40	0.10	ug/l	2.00	ND	96	70-130	2	20	
Matrix Spike Dup Analyzed: 01/09/2008 (W8A0148-MSD2)						**Source: 7120722-03**					
Mercury, Dissolved	1.96	0.40	0.10	ug/l	2.00	ND	98	70-130	4	20	
Mercury, Total	1.96	0.40	0.10	ug/l	2.00	ND	98	70-130	4	20	

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Attention: Bronwyn Kelly

Project ID: Routine Outfall 014
Report Number: IRA0404

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

DATA QUALIFIERS AND DEFINITIONS

A-01	Surrogate double-spiked; reported from a second run at a 2x dilution
C	Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.
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.
M1	The MS and/or MSD were above the acceptance limits due to sample matrix interference. 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.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

ADDITIONAL COMMENTS

For GRO (C4-C12):

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

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

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

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Project ID: Routine Outfall 014

Report Number: IRA0404

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

Certification Summary

TestAmerica Irvine

Method	Matrix	Nelac	California
EPA 160.2	Water	X	X
EPA 160.5	Water	X	X
EPA 1664A	Water		
EPA 180.1	Water	X	X
EPA 200.7-Diss	Water	X	X
EPA 200.7	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
EPA 300.0	Water	X	X
EPA 314.0	Water	X	X
EPA 340.2	Water	X	X
EPA 350.2	Water		X
EPA 405.1	Water	X	X
EPA 624	Water	X	X
EPA 625	Water	X	X
EPA 8015 Mod.	Water	X	X
EPA 8015B	Water	X	X
EPA 8260B-SIM	Water		
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

Truesdail Laboratories-SUB *California Cert #1237*
14201 Franklin Avenue - Tustin, CA 92680
Analysis Performed: Hydrazine
Samples: IRA0404-01

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: IRA0404-01

Weck Laboratories, Inc
14859 E. Clark Avenue - City of Industry, CA 91745
Method Performed: EPA 245.1
Samples: IRA0404-01

TestAmerica Irvine

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Project Manager

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618 Michillinda Avenue, Suite 200
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Attention: Bronwyn Kelly

Project ID: Routine Outfall 014

Report Number: IRA0404

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

TestAmerica Irvine

Joseph Doak
Project Manager

IRA0404

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

IRA0404

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

Test America Contact: Joseph Doak

Project:
Boeing-SSFL NPDES
Routine Outfall 014
APTF Test Stand

Project Manager: Bronwyn Kelly

Sampler: R Barnia

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

Field readings
Temp =
pH = 8.9
Time of readings = 1100

ANALYSIS REQUIRED

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	Oil & Grease (1664-HEM)	8015 - gas	8015 - diesel/jet fuel	TRPH =Total Rec. Petroleum Hydrocarbons (8015)	1,4-Dioxane (8260B)	BOD_5 (20 degrees C)	625 (Naphthalene +NDMA analysis)	Ammonia-N (350.2)	Cl^-, SO_4, F, NO_3+NO_2-N, Perchlorate	Nitrate-N, Nitrite-N	Comments
Outfall 014	W	1L Amber	1	1-5-08 11:00	HCl	1A	X										
Outfall 014 Dup	W	1L Amber	1		HCl	1B	X										
Outfall 014	W	VOAs	1		HCl	2A		X									
Outfall 014 Dup	W	VOAs	2		HCl	2B, 2C		X									
Outfall 014	W	1L Amber	1		None	3A			X								
Outfall 014 Dup	W	1L Amber	1		None	3B			X								
Outfall 014	W	1L Amber	1		HCl	4A				X							
Outfall 014 Dup	W	1L Amber	1		HCl	4B				X							
Outfall 014	W	VOAs	1		HCl	5A					X						
Outfall 014 Dup	W	VOAs	2		HCl	5B, 5C					X						
Outfall 014	W	1L Poly	1		None	6						X					
Outfall 014	W	1L Amber	1		None	7A							X				
Outfall 014 Dup	W	1L Amber	1		None	7B							X				
Outfall 014	W	500 ml Poly	1		H_2SO_4	8								X			
Outfall 014	W	500 ml Poly	2		None	9A, 9B									X		
Outfall 014	W	500 ml Poly	1	1-5-08 11:00	None	10										X	

Relinquished By	Date/Time:	Received By	Date/Time:
[signature]	1-5-08 1535	[signature] TAI	~~1/5/08~~ 1/05/08 1535
[signature] TAI	1/5/08 1900	Aneyda Orosco	1/5/08 19:00

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

Sample Integrity: (check)
Intact X On Ice: 3°

AP 2005 05

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

Client Name/Address:	Project:
MWH-Arcadia 618 Michillinda Avenue. Suite 200 Arcadia, CA 91007 Test America Contact: Joseph Doak	Boeing-SSFL NPDES **Routine Outfall 014** APTF Test Stand
Project Manager: Bronwyn Kelly Sampler: R Burton	Phone Number: (626) 568-6691 Fax Number: (626) 568-6515

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	Turbidity, TDS, TSS	Settleable Solids	624 (EDB, 1,2,3-TCP, MTBE, DIPE, TBA)	Total Recoverable Metals, Cd, Se, Zn, B, Cu, Pb, Hg	Total Dissolved Metals, Cd, Se, Zn, B, Cu, Pb, Hg	TCDD (and all congeners)	Monomethyl hydrazine				Comments
							ANALYSIS REQUIRED										
Outfall 014	W	500 ml Poly	2	1-5-08 11:00	None	11A, 11B	X										
Outfall 014	W	1L Poly	1		None	12		X									
Outfall 014	W	VOAs	1		HCl	13A			X								
Outfall 014 Dup	W	VOAs	2		HCl	13B, 13C			X								
Outfall 014	W	1L Poly	2		HNO_3	14A, 14B				X							
Outfall 014	W	1L Poly	1		None	15					X						Filter w/in 24hrs of receipt at lab
Outfall 014	W	1L Amber	2		None	16A, 16B						X					
Outfall 014	W	1L Amber	2	1-5-08 11:00	None	17A, 17B							X				
Trip Blanks	W	VOAs	3		HCl	18A, 18B, 18C			X								

Relinquished By	Date/Time:	Received By	Date/Time:
R Burton	1-5-08 1535	[signature]	1-5-08 1535
[signature]	01/05/08 1900	Angela Frasco	1/5/08 19:00

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

Sample Integrity: (check)
Intact _____ On Ice: _____

NPDES - 3545

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NPDES 0046

Client: TestAmerica Analytical-Irvine
17461 Derian Avenue, Suite 100
Irvine, CA 92614-5817

Attention: Joseph Doak
Sample: Water / 1 Sample
Project Name: IRA0404
P.O. Number: IRA0404
Method Number: 8315 (Modified)
Investigation: Hydrazines

REPORT

Laboratory No: 972443
Report Date: January 14, 2008
Sampling Date: January 5, 2008
Receiving Date: January 7, 2008
Extraction Date: January 7, 2008
Analysis Date: January 8, 2008
Units: µg/L
Reported By: JS

Analytical Results

Sample ID	Sample Descript	Sample Amount (mL)	Dilution Factor	Monomethyl Hydrazine	u-Dimethyl Hydrazine	Hydrazine	Qualifier Codes
707158-MB	Method Blank	100	1	ND	ND	ND	None
972443	IRA0404-01	100	1	ND	ND	ND	None
MDL				0.56	0.32	0.15	
PQL				5.0	5.0	1.00	
Sample Reporting Limits				5.0	5.0	1.00	

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

Xuan Dang, Project Manager
Analytical Services, Truesdail Laboratories, Inc.

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Client: TestAmerica Analytical-Irvine
17461 Derian Avenue, Suite 100
Irvine, CA 92614-5817

Client Contact: Joseph Doak
Sample: Water / 1 Sample
Sample ID: IRA0404
P.O. Number: IRA0404
Method Number: 8315 (Modified)
Investigation: Hydrazines
Run Batch No.: Extraction: 4237; Analysis: 593

QC Lab. No.: 707158
Project Lab. No.: 972443
Spiked Sample ID: 972443
Report Date: January 14, 2008
Sampling Date: January 5, 2008
Receiving Date: January 7, 2008
Extraction Date: January 7, 2008
Analysis Date: January 8, 2008
Reported By: JS

Quality Control/Quality Assurance Calibration Report

ICV

Parameter	Theoretical Value (ug/L)	Measured Value (ug/L)	Percent Recovery	Control Limits	Flag
Monomethyl Hydrazine	25.0	23.2	92.6	85-115	PASS
u-Dimethyl Hydrazine	25.0	23.9	95.4	85-115	PASS
Hydrazine	5.0	5.62	112	85-115	PASS

QCS

Parameter	Theoretical Value (ug/L)	Measured Value (ug/L)	Percent Recovery	Control Limits	Flag
Monomethyl Hydrazine	50.0	45.4	90.7	85-115	PASS
u-Dimethyl Hydrazine	50.0	50.5	101	85-115	PASS
Hydrazine	10.0	10.7	107	85-115	PASS

Quality Control/Quality Assurance Spikes Report

LCS/LCSD

Parameter	Spiked Conc. ug/L	Recovered Concentration LCS	LCSD	MB	Percent Recovery (%) LCS	LCSD	LCS/LCSD RPD	Flag	Control Limits %D	% Rec.
Monomethyl Hydrazine	50.0	45.8	44.6	0.0	91.7	89.2	2.72%	PASS	20	70-130
u-Dimethyl Hydrazine	50.0	49.3	48.0	0.0	98.6	96.1	2.63%	PASS	20	70-130
Hydrazine	10.0	10.5	10.9	0.0	105	109	4.20%	PASS	20	70-130

MS/MSD

Recovered Concentration MS	MSD	Sample	Percent Recovery (%) MS	MSD	MS/MSD RPD	Flag	Accuracy Control Limits %D	% Rec.
37.6	39.0	0.00	75.3	78.0	3.62%	PASS	20	11-134
42.0	42.4	0.00	84.0	84.8	0.94%	PASS	20	42-109
11.6	11.4	0.00	116	114	1.99%	PASS	20	37-128

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

Xuan Dang, Project Manager
Analytical Services, Truesdail Laboratories, Inc.

SUBCONTRACT ORDER

TestAmerica Irvine

IRA0404

972443

SENDING LABORATORY:

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

RECEIVING LABORATORY:

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

Rec'd 01/07/08
s18 972443

Analysis	Units	Due	Expires	Comments
Sample ID: IRA0404-01	**Water**		**Sampled: 01/05/08 11:00**	**ph=8.4, temp=51.80**
Hydrazine-OUT	%	01/16/08	01/08/08 11:00	Truesdail-Monomethylhydrazine, J flags, 72hr HT!!!

Containers Supplied:

1 L Amber (AG) 1 L Amber (AH)

For Sample Conditions See Form Attached

Released By [signature]	Date/Time 1/7/07 0845	Received By [signature]	Date/Time 1/7/07 0845
Released By [signature]	Date/Time 1/7/08 0912	Received By L. Shalumne	Date/Time 1/7/08 9:12

Vista
Analytical Laboratory

January 23, 2008

Vista Project I.D.: 30124

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

Dear Mr. Doak,

Enclosed are the results for the one aqueous sample received at Vista Analytical Laboratory on January 08, 2008 under your Project Name "IRA0404". 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: **1/8/2008**

Vista Lab. ID	Client Sample ID
30124-001	IRA0404-01

SECTION II

Method Blank **EPA Method 1613**

Matrix:	Aqueous	QC Batch No.:	9886	Lab Sample:	0-MB001
Sample Size:	1.00 L	Date Extracted:	17-Jan-08	Date Analyzed DB-5:	19-Jan-08
				Date Analyzed DB-225:	NA

Analyte	Conc. (ug/L)	DL [a]	EMPC [b]	Qualifiers
2,3,7,8-TCDD	ND	0.00000111		
1,2,3,7,8-PeCDD	ND	0.00000171		
1,2,3,4,7,8-HxCDD	ND	0.00000174		
1,2,3,6,7,8-HxCDD	ND	0.00000184		
1,2,3,7,8,9-HxCDD	ND	0.00000172		
1,2,3,4,6,7,8-HpCDD	ND	0.00000243		
OCDD	ND	0.00000780		
2,3,7,8-TCDF	ND	0.00000116		
1,2,3,7,8-PeCDF	ND	0.00000159		
2,3,4,7,8-PeCDF	ND	0.00000156		
1,2,3,4,7,8-HxCDF	ND	0.000000815		
1,2,3,6,7,8-HxCDF	ND	0.000000832		
2,3,4,6,7,8-HxCDF	ND	0.000000894		
1,2,3,7,8,9-HxCDF	ND	0.00000120		
1,2,3,4,6,7,8-HpCDF	ND	0.000000977		
1,2,3,4,7,8,9-HpCDF	ND	0.00000133		
OCDF	ND	0.00000313		

	Labeled Standard	%R	LCL-UCL [d]	Qualifiers
IS	13C-2,3,7,8-TCDD	85.7	25 - 164	
	13C-1,2,3,7,8-PeCDD	76.8	25 - 181	
	13C-1,2,3,4,7,8-HxCDD	75.3	32 - 141	
	13C-1,2,3,6,7,8-HxCDD	75.1	28 - 130	
	13C-1,2,3,4,6,7,8-HpCDD	87.8	23 - 140	
	13C-OCDD	70.8	17 - 157	
	13C-2,3,7,8-TCDF	83.6	24 - 169	
	13C-1,2,3,7,8-PeCDF	72.8	24 - 185	
	13C-2,3,4,7,8-PeCDF	75.3	21 - 178	
	13C-1,2,3,4,7,8-HxCDF	72.9	26 - 152	
	13C-1,2,3,6,7,8-HxCDF	73.2	26 - 123	
	13C-2,3,4,6,7,8-HxCDF	76.3	28 - 136	
	13C-1,2,3,7,8,9-HxCDF	79.4	29 - 147	
	13C-1,2,3,4,6,7,8-HpCDF	88.5	28 - 143	
	13C-1,2,3,4,7,8,9-HpCDF	86.1	26 - 138	
	13C-OCDF	72.3	17 - 157	
CRS	37Cl-2,3,7,8-TCDD	105	35 - 197	

Totals		
Total TCDD	ND	0.00000111
Total PeCDD	ND	0.00000373
Total HxCDD	ND	0.00000177
Total HpCDD	ND	0.00000314
Total TCDF	ND	0.00000116
Total PeCDF	ND	0.00000157
Total HxCDF	ND	0.000000928
Total HpCDF	ND	0.00000114

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 09:05

OPR Results **EPA Method 1613**

Matrix:	Aqueous	QC Batch No.:	9886	Lab Sample:	0-OPR001		
Sample Size:	1.00 L	Date Extracted:	17-Jan-08	Date Analyzed DB-5:	19-Jan-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	10.4	6.7 - 15.8	IS	13C-2,3,7,8-TCDD	76.2	25 - 164	
1,2,3,7,8-PeCDD	50.0	52.4	35 - 71		13C-1,2,3,7,8-PeCDD	68.3	25 - 181	
1,2,3,4,7,8-HxCDD	50.0	52.8	35 - 82		13C-1,2,3,4,7,8-HxCDD	66.2	32 - 141	
1,2,3,6,7,8-HxCDD	50.0	51.4	38 - 67		13C-1,2,3,6,7,8-HxCDD	66.8	28 - 130	
1,2,3,7,8,9-HxCDD	50.0	52.3	32 - 81		13C-1,2,3,4,6,7,8-HpCDD	87.2	23 - 140	
1,2,3,4,6,7,8-HpCDD	50.0	51.7	35 - 70		13C-OCDD	70.1	17 - 157	
OCDD	100	103	78 - 144		13C-2,3,7,8-TCDF	74.1	24 - 169	
2,3,7,8-TCDF	10.0	9.71	7.5 - 15.8		13C-1,2,3,7,8-PeCDF	64.3	24 - 185	
1,2,3,7,8-PeCDF	50.0	50.9	40 - 67		13C-2,3,4,7,8-PeCDF	67.4	21 - 178	
2,3,4,7,8-PeCDF	50.0	51.2	34 - 80		13C-1,2,3,4,7,8-HxCDF	62.5	26 - 152	
1,2,3,4,7,8-HxCDF	50.0	51.5	36 - 67		13C-1,2,3,6,7,8-HxCDF	63.5	26 - 123	
1,2,3,6,7,8-HxCDF	50.0	52.2	42 - 65		13C-2,3,4,6,7,8-HxCDF	66.6	28 - 136	
2,3,4,6,7,8-HxCDF	50.0	52.3	35 - 78		13C-1,2,3,7,8,9-HxCDF	69.3	29 - 147	
1,2,3,7,8,9-HxCDF	50.0	51.7	39 - 65		13C-1,2,3,4,6,7,8-HpCDF	76.7	28 - 143	
1,2,3,4,6,7,8-HpCDF	50.0	50.6	41 - 61		13C-1,2,3,4,7,8,9-HpCDF	85.4	26 - 138	
1,2,3,4,7,8,9-HpCDF	50.0	51.2	39 - 69		13C-OCDF	71.9	17 - 157	
OCDF	100	104	63 - 170	CRS	37Cl-2,3,7,8-TCDD	84.4	35 - 197	

Analyst: MAS

Approved By: Martha M. Maier 23-Jan-2008 09:05

Sample ID: **IRA0404-01** **EPA Method 1613**

Client Data		Sample Data		Laboratory Data			
Name:	Test America-Irvine, CA	Matrix:	Aqueous	Lab Sample:	30124-001	Date Received:	8-Jan-08
Project:	IRA0404	Sample Size:	0.998 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:	1100						

Analyte	Conc. (ug/L)	DL [a]	EMPC [b]	Qualifiers
2,3,7,8-TCDD	ND	0.00000164		
1,2,3,7,8-PeCDD	ND	0.00000354		
1,2,3,4,7,8-HxCDD	ND	0.00000532		
1,2,3,6,7,8-HxCDD	ND	0.00000520		
1,2,3,7,8,9-HxCDD	ND	0.00000505		
1,2,3,4,6,7,8-HpCDD	0.0000408			
OCDD	0.000564			
2,3,7,8-TCDF	ND	0.00000128		
1,2,3,7,8-PeCDF	ND	0.00000187		
2,3,4,7,8-PeCDF	ND	0.00000318		
1,2,3,4,7,8-HxCDF	ND	0.00000151		
1,2,3,6,7,8-HxCDF	ND	0.00000149		
2,3,4,6,7,8-HxCDF	ND	0.00000157		
1,2,3,7,8,9-HxCDF	ND	0.00000214		
1,2,3,4,6,7,8-HpCDF	0.00000814			J
1,2,3,4,7,8,9-HpCDF	ND	0.00000271		
OCDF	0.0000258			J

	Labeled Standard	%R	LCL-UCL [d]	Qualifiers
IS	13C-2,3,7,8-TCDD	70.8	25 - 164	
	13C-1,2,3,7,8-PeCDD	64.5	25 - 181	
	13C-1,2,3,4,7,8-HxCDD	62.6	32 - 141	
	13C-1,2,3,6,7,8-HxCDD	61.2	28 - 130	
	13C-1,2,3,4,6,7,8-HpCDD	73.0	23 - 140	
	13C-OCDD	57.2	17 - 157	
	13C-2,3,7,8-TCDF	72.1	24 - 169	
	13C-1,2,3,7,8-PeCDF	60.3	24 - 185	
	13C-2,3,4,7,8-PeCDF	66.0	21 - 178	
	13C-1,2,3,4,7,8-HxCDF	58.5	26 - 152	
	13C-1,2,3,6,7,8-HxCDF	59.9	26 - 123	
	13C-2,3,4,6,7,8-HxCDF	62.3	28 - 136	
	13C-1,2,3,7,8,9-HxCDF	63.6	29 - 147	
	13C-1,2,3,4,6,7,8-HpCDF	71.9	28 - 143	
	13C-1,2,3,4,7,8,9-HpCDF	66.9	26 - 138	
	13C-OCDF	55.8	17 - 157	
CRS	37Cl-2,3,7,8-TCDD	90.0	35 - 197	

Totals

Total TCDD	ND	0.00000164	
Total PeCDD	ND	0.00000354	
Total HxCDD	0.00000644		0.0000103
Total HpCDD	0.000155		
Total TCDF	ND	0.00000128	
Total PeCDF	ND	0.00000323	
Total HxCDF	0.00000223		0.00000424
Total HpCDF	0.0000238		

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 09:05

APPENDIX

DATA QUALIFIERS & ABBREVIATIONS

B	**This compound was also detected in the method blank.**
D	**Dilution**
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 Lower Calibration Limit of the instrument.**
*****	**See Cover Letter**
Conc.	**Concentration**
DL	**Sample-specific estimated detection limit**
MDL	**The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero in the matrix tested.**
EMPC	**Estimated Maximum Possible Concentration**
NA	**Not applicable**
RL	**Reporting Limit – concentrations that correspond to low calibration point**
ND	**Not Detected**
TEQ	**Toxic Equivalency**

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

CERTIFICATIONS

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

SUBCONTRACT ORDER

TestAmerica Irvine

IRA0404 30124

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: 1.6°C

Vista Analytical Laboratory- SUB
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: IRA0404-01	**Water**		Sampled: **01/05/08 11:00**	**ph=8.4, temp=51.80**
1613-Dioxin-HR-Alta	ug/l	01/16/08	01/12/08 11:00	J flags,17 congeners,no TEQ,ug/L,sub=Vista
Level 4 Data Package - Out	N/A	01/16/08	02/02/08 11:00	Boeing
Containers Supplied:				
1 L Amber (Y)	1 L Amber (Z)			

Released By 1/7/08 1700 Date/Time — Received By FedEx 1/7/08 1700 Date/Time

Released By Date/Time — Received By Katrina L Benedict 1/8/08 1018 Date/Time

SAMPLE LOG-IN CHECKLIST

Vista Analytical Laboratory

Vista Project #: 30124 TAT Standard

Samples Arrival:	**Date/Time** 1/8/08 0909	**Initials:** BJB	**Location:** WR-2 **Shelf/Rack:** N/A
Logged In:	**Date/Time** 1/8/08 1208	**Initials:** BJB	**Location:** WR-2 **Shelf/Rack:** C3

Delivered By:	(FedEx)	UPS	Cal	DHL	Hand Delivered	Other
Preservation:	(Ice)	Blue Ice	Dry Ice	None		
Temp °C 1.6°C	**Time:** 0929	**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 # 7926 2674 3476	✓		
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

IRA0404 8010773

SENDING LABORATORY:

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

RECEIVING LABORATORY:

Weck Laboratories, Inc-SUB
14859 E. Clark Avenue
City of Industry, CA 91745
Phone :(626) 336-2139
Fax: (626) 336-2634
Project Location: California
Receipt Temperature: 31 °C Ice: (Y) / N

Analysis	Units	Due	Expires	Comments
Sample ID: IRA0404-01	**Water**		Sampled: **01/05/08 11:00**	**ph=8.4, temp=51.80**
Level 4 + EDD-OUT	N/A	01/16/08	02/02/08 11:00	Excel EDD email to pm,Include Std logs for Lvl IV
Level 4 Data Package - Wec	N/A	01/16/08	02/02/08 11:00	
Mercury - 245.1, Diss -OUT	mg/l	01/16/08	02/02/08 11:00	Out to Weck Level 4 Boeing, permit, J flags
Mercury - 245.1-OUT	mg/l	01/16/08	02/02/08 11:00	Out to Weck Level 4 Boeing, permit, J flags

Containers Supplied:

125 mL Poly w/HNO3 (AE) 125 mL Poly (AF)

Released By	Date/Time	Received By	Date/Time
1/7/08 0900		TAI	1/7/08 0900
Released By	Date/Time	Received By	Date/Time
TAI	1/7/08 1420	Jamalyner	1/7/08 1420

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: 01/10/08 08:42
Received Date: 01/07/08 14:20
Turn Around: 7 days

Work Order #: 8010773

Client Project: IRA0404

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

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

Dear Joseph Doak :

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

Reviewed by:

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: 8010773
Project ID: IRA0404

Date Received: 01/07/08 14:20
Date Reported: 01/10/08 08:42

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Sampled by:	Sample Comments	Laboratory	Matrix	Date Sampled
IRA0404-01	Client		8010773-01	Water	01/05/08 11:00

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: 8010773
Project ID: IRA0404

Date Received: 01/07/08 14:20
Date Reported: 01/10/08 08:42

IRA0404-01 8010773-01 (Water) Date Sampled: 01/05/08 11:00

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	W8A0148	01/08/08	01/09/08	jlp	
Mercury, Total	ND	0.050	ug/l	0.20	1	EPA 245.1	W8A0148	01/08/08	01/09/08	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: 8010773
Project ID: IRA0404

Date Received: 01/07/08 14:20
Date Reported: 01/10/08 08:42

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: 8010773
Project ID: IRA0404

Date Received: 01/07/08 14:20
Date Reported: 01/10/08 08:42

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 W8A0148 - EPA 245.1										
Blank (W8A0148-BLK1)				Analyzed: 01/09/08						
Mercury, Dissolved	ND	0.20	ug/l							
Mercury, Total	ND	0.20	ug/l							
LCS (W8A0148-BS1)				Analyzed: 01/09/08						
Mercury, Dissolved	0.965	0.20	ug/l	1.00		96	85-115			
Mercury, Total	0.965	0.20	ug/l	1.00		96	85-115			
Matrix Spike (W8A0148-MS1)	**Source: 7120722-01**			Analyzed: 01/09/08						
Mercury, Dissolved	1.97	0.40	ug/l	2.00	ND	98	70-130			
Mercury, Total	1.97	0.40	ug/l	2.00	ND	98	70-130			
Matrix Spike (W8A0148-MS2)	**Source: 7120722-03**			Analyzed: 01/09/08						
Mercury, Dissolved	1.88	0.40	ug/l	2.00	ND	94	70-130			
Mercury, Total	1.88	0.40	ug/l	2.00	ND	94	70-130			
Matrix Spike Dup (W8A0148-MSD1)	**Source: 7120722-01**			Analyzed: 01/09/08						
Mercury, Dissolved	1.92	0.40	ug/l	2.00	ND	96	70-130	2	20	
Mercury, Total	1.92	0.40	ug/l	2.00	ND	96	70-130	2	20	
Matrix Spike Dup (W8A0148-MSD2)	**Source: 7120722-03**			Analyzed: 01/09/08						
Mercury, Dissolved	1.96	0.40	ug/l	2.00	ND	98	70-130	4	20	
Mercury, Total	1.96	0.40	ug/l	2.00	ND	98	70-130	4	20	

Weck Laboratories, Inc
Kim G Tu, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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: 8010773
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Notes and Definitions

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

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

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

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

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

APPENDIX G

Section 93

Outfall 014, January 22, 2008

MEC^{X} Data Validation Reports

DATA VALIDATION REPORT

Boeing SSFL NPDES

SAMPLE DELIVERY GROUP: IRA2026

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:	IRA2026
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 014	IRA2026-01	30192-001, 8012321-01, 972906	Water	01/22/08 1030	180.1, 200.8, 245.1, 405.1, 1613, 625, 624, 8315M
Trip Blank	IRA2026-02	N/A	Water	01/22/08	624

II. Sample Management

No anomalies were observed regarding sample management. The sample in this SDG was received at TestAmerica-Irvine and Truesdail within the temperature limits of 4°C ±2°C. The sample was received below the temperature limit at Vista; however, the sample was not noted to have been frozen. The sample was received above the temperature limit at Weck; however, mercury is not considered volatile. 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 Vista. Custody seals were not present on the cooler received at Weck or Truesdail. 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. Any EMPC value was qualified as an estimated nondetect, "UJ." Nondetects are valid to the estimated detection limit (EDL).

B. EPA METHODS 200.8, 245.1—Metals and Mercury

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

The sample listed in Table 1 for this analysis was validated based on the guidelines outlined in the *MEC^X Data Validation Procedure for Metals (DVP-5, Rev. 0 and DVP-21, Rev. 0), EPA Methods 200.8 and 245.1,* and the *National Functional Guidelines for Inorganic Data Review* (2/94).

- Holding Times: The analytical holding times, 6 months for metals and 28 days for mercury, were met.

- Tuning: The mass calibration and resolution checks criteria were met. All tuning solution %RSDs were ≤5%, and all masses of interest were calibrated to ≤ 0.1 amu and ≤0.9 amu at 10% peak height.

- Calibration: Calibration criteria were met. Mercury initial calibration 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: No ICSA/B analyses were performed in association with the metals analyses.

- 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 not performed on the sample in this SDG. Evaluation of 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. EPA METHOD 625—Semivolatile Organic Compounds (SVOCs)

Reviewed By: L. Calvin
Date Reviewed: March 1, 2008

The samples listed in Table 1 for this analysis were validated based on the guidelines outlined in the *MEC^X Data Validation Procedure for Semivolatile Organics (DVP-3, Rev. 0), EPA Method 8270C*, and the *National Functional Guidelines for Organic Data Review* (2/94).

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

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

- Calibration: Calibration criteria were met. Initial calibration average RRFs were ≥0.05 and %RSDs ≤35%. Continuing calibration RRFs were ≥0.05 and %Ds ≤20%.

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

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

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

- Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were not performed on the sample of this SDG. Evaluation of method accuracy and precision was based on LSC/LSCD results.

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

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

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

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

- Compound Identification: Compound identification was verified. The laboratory analyzed for naphthalene and n-nitrosodimethylamine by EPA Method 625. Review of the sample

chromatogram, retention times, and spectra indicated no problems with target compound identification.

- Compound Quantification and Reported Detection Limits: Compound quantification was verified. The reporting limits were supported by the low point of the initial calibration and the laboratory MDLs. Reported nondetects are valid to the reporting limit.

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

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

D. EPA METHOD 624—Volatile Organic Compounds (VOCs)

Reviewed By: L. Calvin
Date Reviewed: March 1, 2008

The samples listed in Table 1 for this analysis were validated based on the guidelines outlined in the *MEC^X Data Validation Procedure for Volatile Organics (DVP-2, Rev. 0), EPA Method 8260B*, and the *National Functional Guidelines for Organic Data Review* (2/94).

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

- GC/MS Tuning: The BFB tunes met the method abundance criteria. Samples were analyzed within 12 hours of the BFB injection time.

- Calibration: Calibration criteria were met. For applicable target compounds, initial calibration average RRFs were $\geq$0.05 and %RSDs $\leq$35%. Continuing calibration RRFs were $\geq$0.05 and %Ds $\leq$20%.

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

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

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

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

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

- Trip Blanks: Sample Trip Blank was the trip blank associated with site sample Outfall 014. The trip blank had no target compound detects above the MDL.

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

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

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

- Compound Identification: Compound identification was verified. The laboratory analyzed for five volatile target compounds by EPA Method 624. Review of the sample chromatogram, retention times, and spectra indicated no problems with target compound identification.

- Compound Quantification and Reported Detection Limits: Compound quantification was verified. The reporting limits were supported by the low point of the initial calibration and the laboratory MDLs. Reported nondetects are valid to the reporting limit.

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

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

E. VARIOUS EPA METHODS—General Minerals

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

The sample listed in Table 1 for this analysis was validated based on the guidelines outlined in the *MEC^X Data Validation Procedure for General Minerals (DVP-6, Rev. 0), EPA Methods 180.1, 405.1, and 8015M*, and the *National Functional Guidelines for Inorganic Data Review* (2/94).

- Holding Times: The holding times, 48 hours for BOD and turbidity, were met. The hydrazine sample was derivitized within three days of collection and was analyzed within three days of derivitization.

- Calibration: Calibration criteria are not applicable to BOD. The turbidity check standard recoveries were acceptable.

- Blanks: There were no applicable detects in the method blanks.

- Blank Spikes and Laboratory Control Samples: The BOD recoveries and RPD were within the laboratory-established control limits. The LCS is not applicable to turbidity.

- Laboratory Duplicates: Laboratory duplicate analyses were performed for turbidity. The RPD was within the laboratory-established control limit.

- Matrix Spike/Matrix Spike Duplicate: BOD MS/MSD analyses were not performed. Method accuracy and precision were evaluated based on the LCS/LCSD results. MS/MSD analyses are not applicable to turbidity. Hydrazine MS/MSD analyses were performed on the sample in this SDG. The recoveries and RPD were within the laboratory-established control limits.

- Sample Result Verification: The sample results were verified against the raw data. No transcription or calculation errors were noted.

- 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:	IRA2026-01 Outfall 014				EPA Method 1613
Client Data		**Sample Data**		**Laboratory Data**	
Name:	Test America-Irvine, CA	Matrix:	Aqueous	Lab Sample:	30192-001
Project:	IRA2026	Sample Size:	1.01 L	QC Batch No.:	9906
Date Collected:	22-Jan-08			Date Analyzed DB-5:	29-Jan-08
Time Collected:	1030				

Analyte	Conc. (ug/L)	DL [a]	EMPC [b]	Qualifiers
2,3,7,8-TCDD	ND	0.000000723		
1,2,3,7,8-PeCDD	ND	0.00000146		
1,2,3,4,7,8-HxCDD	0.00000125			J
1,2,3,6,7,8-HxCDD	ND		0.00000122	
1,2,3,7,8,9-HxCDD	ND		0.00000138	
1,2,3,4,6,7,8-HpCDD	0.0000365			
OCDD	0.000456			
2,3,7,8-TCDF	ND	0.000000462		
1,2,3,7,8-PeCDF	ND	0.00000110		
2,3,4,7,8-PeCDF	ND	0.00000115		
1,2,3,4,7,8-HxCDF	ND	0.000000890		
1,2,3,6,7,8-HxCDF	ND	0.000000932		
2,3,4,6,7,8-HxCDF	ND	0.000000969		
1,2,3,7,8,9-HxCDF	ND	0.00000123		
1,2,3,4,6,7,8-HpCDF	0.00000350			J
1,2,3,4,7,8,9-HpCDF	ND	0.00000129		
OCDF	0.00000729			J

Labeled Standard		%R	LCL-UCL [d]	Qualifiers
IS	13C-2,3,7,8-TCDD	73.8	25 - 164	
	13C-1,2,3,7,8-PeCDD	66.2	25 - 181	
	13C-1,2,3,4,7,8-HxCDD	70.5	32 - 141	
	13C-1,2,3,6,7,8-HxCDD	70.5	28 - 130	
	13C-1,2,3,4,6,7,8-HpCDD	69.4	23 - 140	
	13C-OCDD	56.0	17 - 157	
	13C-2,3,7,8-TCDF	77.4	24 - 169	
	13C-1,2,3,7,8-PeCDF	61.6	24 - 185	
	13C-2,3,4,7,8-PeCDF	63.5	21 - 178	
	13C-1,2,3,4,7,8-HxCDF	65.2	26 - 152	
	13C-1,2,3,6,7,8-HxCDF	66.3	26 - 123	
	13C-2,3,4,6,7,8-HxCDF	65.9	28 - 136	
	13C-1,2,3,7,8,9-HxCDF	70.2	29 - 147	
	13C-1,2,3,4,6,7,8-HpCDF	62.3	28 - 143	
	13C-1,2,3,4,7,8,9-HpCDF	66.1	26 - 138	
	13C-OCDF	58.7	17 - 157	
CRS	37Cl-2,3,7,8-TCDD	86.7	35 - 197	

Totals			
Total TCDD	ND	0.00000116	
Total PeCDD	ND		0.00000134
Total HxCDD	0.00000653		0.0000117
Total HpCDD	0.0000991		
Total TCDF	ND	0.000000686	
Total PeCDF	ND	0.00000195	
Total HxCDF	0.00000275		0.00000333
Total HpCDF	0.00000755		

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 30-Jan-2008 10:06

Level IV

NPDES - 3580

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: Routine Outfall 014
Report Number: IRA2026

Sampled: 01/22/08
Received: 01/22/08

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA2026-01 (OUTFALL 014 - Water) - cont.									
Reporting Units: mg/l									
Boron *	EPA 200.7	8A23081	0.020	0.050	ND	1	01/23/08	01/23/08	
Sample ID: IRA2026-01 (OUTFALL 014 - Water)									
Reporting Units: ug/l									
Cadmium J/DNQ	EPA 200.8	8A23079	0.11	1.0	**0.74**	1	01/23/08	01/24/08	J
Copper	EPA 200.8	8A23079	0.75	2.0	**2.9**	1	01/23/08	01/24/08	
Lead	EPA 200.8	8A23079	0.30	1.0	**2.0**	1	01/23/08	01/24/08	
Selenium J/DNQ	EPA 200.8	8A23079	0.30	2.0	**0.35**	1	01/23/08	01/24/08	J
Zinc	EPA 200.8	8A23079	2.5	20	**23**	1	01/23/08	01/24/08	

* Analysis not validated

LEVEL IV

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: Routine Outfall 014
Report Number: IRA2026

Sampled: 01/22/08
Received: 01/22/08

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA2026-01 (OUTFALL 014 - Water) - cont.									
Reporting Units: mg/l									
Boron *	EPA 200.7-Diss	8A22137	0.020	0.050	ND	1	01/22/08	01/23/08	
Sample ID: IRA2026-01 (OUTFALL 014 - Water)									
Reporting Units: ug/l									
Cadmium J/DNQ	EPA 200.8-Diss	8A22140	0.11	1.0	**0.15**	1	01/22/08	01/23/08	J
Copper	EPA 200.8-Diss	8A22140	0.75	2.0	ND	1	01/22/08	01/23/08	
Lead	EPA 200.8-Diss	8A22140	0.30	1.0	ND	1	01/22/08	01/23/08	
Selenium	EPA 200.8-Diss	8A22140	0.30	2.0	ND	1	01/22/08	01/23/08	
Zinc J/DNQ	EPA 200.8-Diss	8A22140	2.5	20	**3.3**	1	01/22/08	01/23/08	J

* Analysis not validated

LEVEL IV

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: Routine Outfall 014
Report Number: IRA2026

Sampled: 01/22/08
Received: 01/22/08

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: IRA2026-01 (OUTFALL 014 - Water) - cont.										
Reporting Units: ug/l										
Mercury, Dissolved	U	EPA 245.1	W8A0913	0.050	0.20	ND	1	01/25/08	01/28/08	
Mercury, Total	U	EPA 245.1	W8A0913	0.050	0.20	ND	1	01/25/08	01/28/08	

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TestAmerica Irvine

Joseph Doak
Project Manager

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Report Number: IRA2026

Sampled: 01/22/08
Received: 01/22/08

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: IRA2026-01 (OUTFALL 014 - Water)									
Reporting Units: ug/l									
Naphthalene	EPA 625	8A23097	2.9	9.6	ND	0.962	01/23/08	01/25/08	
N-Nitrosodimethylamine	EPA 625	8A23097	2.4	19	ND	0.962	01/23/08	01/25/08	
Surrogate: 2-Fluorophenol (30-120%)					*69 %*				
Surrogate: Phenol-d6 (35-120%)					*80 %*				
Surrogate: 2,4,6-Tribromophenol (40-120%)					*72 %*				
Surrogate: Nitrobenzene-d5 (45-120%)					*72 %*				
Surrogate: 2-Fluorobiphenyl (50-120%)					*79 %*				
Surrogate: Terphenyl-d14 (50-125%)					*100 %*				

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MWH-Pasadena/Boeing
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Report Number: IRA2026

Sampled: 01/22/08
Received: 01/22/08

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: IRA2026-01 (OUTFALL 014 - Water) - cont.									
Reporting Units: ug/l									
1,2-Dibromoethane (EDB)	EPA 624	8A25008	0.40	2.0	ND	1	01/25/08	01/25/08	
Methyl-tert-butyl Ether (MTBE)	EPA 624	8A25008	0.32	5.0	ND	1	01/25/08	01/25/08	
1,2,3-Trichloropropane	EPA 624	8A25008	0.40	10	ND	1	01/25/08	01/25/08	
Di-isopropyl Ether (DIPE)	EPA 624	8A25008	0.25	5.0	ND	1	01/25/08	01/25/08	
tert-Butanol (TBA)	EPA 624	8A25008	4.9	25	ND	1	01/25/08	01/25/08	
Surrogate: Dibromofluoromethane (80-120%)					*107 %*				
Surrogate: Toluene-d8 (80-120%)					*107 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*96 %*				
Sample ID: IRA2026-02 (TRIP BLANK - Water)									
Reporting Units: ug/l									
1,2-Dibromoethane (EDB)	EPA 624	8A25008	0.40	2.0	ND	1	01/25/08	01/25/08	
Methyl-tert-butyl Ether (MTBE)	EPA 624	8A25008	0.32	5.0	ND	1	01/25/08	01/25/08	
1,2,3-Trichloropropane	EPA 624	8A25008	0.40	10	ND	1	01/25/08	01/25/08	
Di-isopropyl Ether (DIPE)	EPA 624	8A25008	0.25	5.0	ND	1	01/25/08	01/25/08	
tert-Butanol (TBA)	EPA 624	8A25008	4.9	25	ND	1	01/25/08	01/25/08	
Surrogate: Dibromofluoromethane (80-120%)					*103 %*				
Surrogate: Toluene-d8 (80-120%)					*107 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*96 %*				

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

Project ID: Routine Outfall 014
Report Number: IRA2026

Sampled: 01/22/08
Received: 01/22/08

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA2026-01 (OUTFALL 014 - Water) - cont.									
Reporting Units: mg/l									
Hexane Extractable Material (Oil & Grease) *	EPA 1664A	8A28083	1.3	4.8	ND	1	01/28/08	01/28/08	
Ammonia-N (Distilled)	EPA 350.2	8A23117	0.30	0.50	ND	1	01/23/08	01/23/08	
Biochemical Oxygen Demand	EPA 405.1	8A23070	0.59	2.0	**4.8**	1	01/23/08	01/28/08	
Chloride *	EPA 300.0	8A22048	5.0	10	**50**	20	01/22/08	01/23/08	
Fluoride	EPA 340.2	8A24126	0.014	0.10	**0.49**	1	01/24/08	01/24/08	
Nitrate-N	EPA 300.0	8A22048	0.060	0.11	ND	1	01/22/08	01/23/08	
Nitrite-N	EPA 300.0	8A22048	0.090	0.15	ND	1	01/22/08	01/23/08	
Nitrate/Nitrite-N	EPA 300.0	8A22048	0.15	0.26	ND	1	01/22/08	01/23/08	
Sulfate	EPA 300.0	8A22048	0.20	0.50	**7.1**	1	01/22/08	01/23/08	
Total Dissolved Solids	SM2540C	8A23102	10	10	**230**	1	01/23/08	01/23/08	
Total Suspended Solids	EPA 160.2	8A23124	10	10	**18**	1	01/23/08	01/23/08	
Sample ID: IRA2026-01 (OUTFALL 014 - Water)									
Reporting Units: ml/l/hr									
Total Settleable Solids *	EPA 160.5	8A23073	0.10	0.10	ND	1	01/23/08	01/23/08	
Sample ID: IRA2026-01 (OUTFALL 014 - Water)									
Reporting Units: NTU									
Turbidity	EPA 180.1	8A23074	0.040	1.0	**26**	1	01/23/08	01/23/08	
Sample ID: IRA2026-01 (OUTFALL 014 - Water)									
Reporting Units: ug/l									
Perchlorate *	EPA 314.0	8A23064	1.5	4.0	ND	1	01/23/08	01/23/08	

* Analysis not validated

LEVEL IV

TestAmerica Irvine

Joseph Doak
Project Manager

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(714) 730-6239 · FAX (714) 730-6462 · www.truesdail.com

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Client: TestAmerica Analytical-Irvine
17461 Derian Avenue, Suite 100
Irvine, CA 92614-5817

Attention: Joseph Doak
Sample: Water / 1 Sample
Project Name: IRA2026-01
P.O. Number: IRA0404
Method Number: 8315 (Modified)
Investigation: Hydrazines

REPORT

Laboratory No: 972906
Report Date: February 8, 2008
Sampling Date: January 22, 2008
Receiving Date: January 23, 2008
Extraction Date: January 25, 2008
Analysis Date: January 25, 2008
Units: µg/L
Reported By: JAM

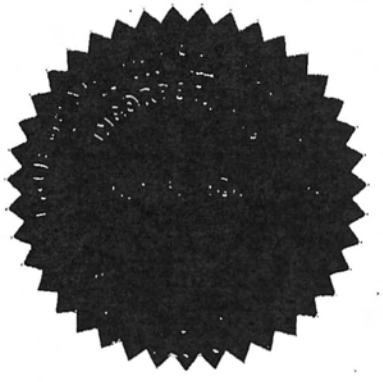
Analytical Results

Sample ID	Sample Descript	Sample Amount (mL)	Dilution Factor	Monomethyl Hydrazine	u-Dimethyl Hydrazine	Hydrazine	Qualifier Codes
707192-MB	Method Blank *	100	1	ND	ND	ND	None
972906	IRA2026-01	100	1	ND U	ND U	ND U	None
MDL				0.56	0.32	0.15	
PQL				5.0	5.0	1.00	
Sample Reporting Limits				5.0	5.0	1.00	

* Analysis not validated

LEVEL IV

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



Xuan Dang, Project Manager
Analytical Services, Truesdail Laboratories, Inc.

NPDES - 3587