

APPENDIX G

Section 46

Outfall 013, February 16, 2009

Test America Analytical Laboratory Report

LABORATORY REPORT

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

Project: Routine Outfall 013

Sampled: 02/16/09
Received: 02/16/09
Revised: 03/19/09 11:23

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

*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 is a revised report to provide reanalysis data for Dissolved Zinc. See Corrective Action Page within this Report.

LABORATORY ID

ISB1806-01
ISB1806-02

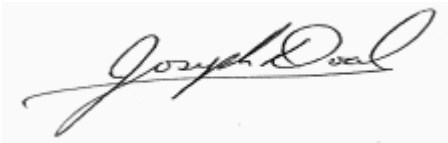
CLIENT ID

Outfall 013
Trip Blanks

MATRIX

Water
Water

Reviewed By:



TestAmerica Irvine

Joseph Doak
Project Manager

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

Project ID: Routine Outfall 013

Report Number: ISB1806

Sampled: 02/16/09
Received: 02/16/09

CORRECTIVE ACTION REPORT

Department: Metals

Date: 03/19/2009

Method: EPA 200.8-Diss, EPA 200.8

Matrix: Water

QC Batch: 9B20106, 9B23088

Identification and Definition of Problem:

The dissolved value of zinc in sample ISB1806-01 (Outfall 013) was originally mis-reported as 100 ug/L.

Determination of the Cause of the Problem:

The error was likely due to Zinc contamination during sample analysis.

Corrective Action Taken:

The sample was re-analyzed for dissolved Zinc and reported as ISB1806-01RE1. The rerun result was found to be below the MRL.

Quality Assurance Approval: _____



Thong Vu

Date: 03/19/2009 10:36 AM

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Joseph Doak
Project Manager

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

Project ID: Routine Outfall 013

Report Number: ISB1806

Sampled: 02/16/09

Received: 02/16/09

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: ISB1806-01 (Outfall 013 - Water)									
Reporting Units: mg/l									
DRO (C13 - C28)	EPA 8015B	9B19076	0.047	0.094	ND	0.943	02/19/09	02/20/09	
Surrogate: n-Octacosane (40-125%)					62 %				

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Arcadia, CA 91007
Attention: Bronwyn Kelly

Project ID: Routine Outfall 013

Report Number: ISB1806

Sampled: 02/16/09

Received: 02/16/09

VOLATILE FUEL HYDROCARBONS (EPA 5030/8015)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ISB1806-01 (Outfall 013 - Water) - cont.									
Reporting Units: mg/l									
GRO (C4 - C12)	EPA 8015B	9B21002	0.030	0.050	ND	1	02/21/09	02/21/09	
Surrogate: 4-BFB (FID) (65-140%)					96 %				

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NPDES - 3487

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Project ID: Routine Outfall 013

Report Number: ISB1806

Sampled: 02/16/09
 Received: 02/16/09

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: ISB1806-01 (Outfall 013 - Water) - cont.									
Reporting Units: ug/l									
1,2-Dibromoethane (EDB)	EPA 624	9B24013	0.40	0.50	ND	1	02/24/09	02/24/09	
1,2,3-Trichloropropane	EPA 624	9B24013	0.40	1.0	ND	1	02/24/09	02/24/09	
Di-isopropyl Ether (DIPE)	EPA 624	9B24013	0.25	0.50	ND	1	02/24/09	02/24/09	
Methyl-tert-butyl Ether (MTBE)	EPA 624	9B24013	0.32	0.50	ND	1	02/24/09	02/24/09	
tert-Butanol (TBA)	EPA 624	9B24013	6.5	10	ND	1	02/24/09	02/24/09	
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>					99 %				
<i>Surrogate: Dibromofluoromethane (80-120%)</i>					92 %				
<i>Surrogate: Toluene-d8 (80-120%)</i>					96 %				
Sample ID: ISB1806-02 (Trip Blanks - Water)									
Reporting Units: ug/l									
1,2-Dibromoethane (EDB)	EPA 624	9B24013	0.40	0.50	ND	1	02/24/09	02/24/09	
1,2,3-Trichloropropane	EPA 624	9B24013	0.40	1.0	ND	1	02/24/09	02/24/09	
Di-isopropyl Ether (DIPE)	EPA 624	9B24013	0.25	0.50	ND	1	02/24/09	02/24/09	
Methyl-tert-butyl Ether (MTBE)	EPA 624	9B24013	0.32	0.50	ND	1	02/24/09	02/24/09	
tert-Butanol (TBA)	EPA 624	9B24013	6.5	10	ND	1	02/24/09	02/24/09	
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>					98 %				
<i>Surrogate: Dibromofluoromethane (80-120%)</i>					90 %				
<i>Surrogate: Toluene-d8 (80-120%)</i>					96 %				

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Report Number: ISB1806

Sampled: 02/16/09
Received: 02/16/09

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

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ISB1806-01 (Outfall 013 - Water)									
Reporting Units: ug/l									
1,4-Dioxane	EPA 8260B-SIM	9B19013	1.0	2.0	ND	1	02/19/09	02/19/09	
Surrogate: Dibromofluoromethane (80-120%)					105 %				

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NPDES - 3489

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 Attention: Bronwyn Kelly

Project ID: Routine Outfall 013

Report Number: ISB1806

Sampled: 02/16/09
 Received: 02/16/09

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: ISB1806-01 (Outfall 013 - Water) - cont.									
Reporting Units: ug/l									
Naphthalene	EPA 625	9B17084	2.9	9.5	ND	0.952	02/17/09	02/21/09	
N-Nitrosodimethylamine	EPA 625	9B17084	2.4	19	ND	0.952	02/17/09	02/21/09	
<i>Surrogate: 2,4,6-Tribromophenol (40-120%)</i>					77 %				
<i>Surrogate: 2-Fluorobiphenyl (50-120%)</i>					67 %				
<i>Surrogate: 2-Fluorophenol (30-120%)</i>					56 %				
<i>Surrogate: Nitrobenzene-d5 (45-120%)</i>					69 %				
<i>Surrogate: Phenol-d6 (35-120%)</i>					50 %				
<i>Surrogate: Terphenyl-d14 (50-125%)</i>					79 %				

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Sampled: 02/16/09
Received: 02/16/09

HEXANE EXTRACTABLE MATERIAL

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ISB1806-01 (Outfall 013 - Water) - cont.									
Reporting Units: mg/l									
Hexane Extractable Material (Oil & Grease)	EPA 1664A	9B24074	1.3	4.8	ND	1	02/24/09	02/24/09	

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NPDES - 3491

MWH-Pasadena/Boeing
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 Attention: Bronwyn Kelly

Project ID: Routine Outfall 013

Report Number: ISB1806

Sampled: 02/16/09
 Received: 02/16/09

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ISB1806-01 (Outfall 013 - Water) - cont.									
Reporting Units: mg/l									
Boron	EPA 200.7	9B23087	0.020	0.050	ND	1	02/23/09	02/24/09	
Sample ID: ISB1806-01 (Outfall 013 - Water)									
Reporting Units: ug/l									
Cadmium	EPA 200.8	9B23088	0.11	1.0	0.34	1	02/23/09	02/24/09	J
Copper	EPA 200.8	9B23088	0.75	2.0	1.8	1	02/23/09	02/24/09	J
Lead	EPA 200.8	9B23088	0.30	1.0	2.6	1	02/23/09	02/24/09	
Selenium	EPA 200.8	9B23088	0.30	2.0	ND	1	02/23/09	02/24/09	
Zinc	EPA 200.8	9B23088	2.5	20	13	1	02/23/09	02/24/09	J

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Project ID: Routine Outfall 013

Report Number: ISB1806

Sampled: 02/16/09
 Received: 02/16/09

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ISB1806-01 (Outfall 013 - Water) - cont.									
Reporting Units: mg/l									
Boron	EPA 200.7-Diss	9B20105	0.020	0.050	ND	1	02/20/09	02/24/09	
Sample ID: ISB1806-01 (Outfall 013 - Water)									
Reporting Units: ug/l									
Cadmium	EPA 200.8-Diss	9B20106	0.11	1.0	0.19	1	02/20/09	02/24/09	J
Copper	EPA 200.8-Diss	9B20106	0.75	2.0	2.1	1	02/20/09	02/23/09	
Lead	EPA 200.8-Diss	9B20106	0.30	1.0	0.72	1	02/20/09	02/23/09	J
Selenium	EPA 200.8-Diss	9B20106	0.30	2.0	ND	1	02/20/09	02/23/09	
Sample ID: ISB1806-01RE1 (Outfall 013 - Water)									
Reporting Units: ug/l									
Zinc	EPA 200.8-Diss	9B20106	2.5	20	6.1	1	02/20/09	03/18/09	B, J

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Report Number: ISB1806

Sampled: 02/16/09
 Received: 02/16/09

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ISB1806-01 (Outfall 013 - Water) - cont.									
Reporting Units: mg/l									
Ammonia-N (Distilled)	SM4500NH3-C	9B24128	0.50	0.50	0.56	1	02/24/09	02/24/09	
Biochemical Oxygen Demand	SM5210B	9B17161	0.50	2.0	2.2	1	02/17/09	02/22/09	
Chloride	EPA 300.0	9B16057	0.25	0.50	8.4	1	02/16/09	02/17/09	
Fluoride	SM 4500-F-C	9B20008	0.020	0.10	0.14	1	02/20/09	02/20/09	
Nitrate-N	EPA 300.0	9B16057	0.060	0.11	0.66	1	02/16/09	02/17/09	
Nitrite-N	EPA 300.0	9B16057	0.090	0.15	ND	1	02/16/09	02/17/09	
Nitrate/Nitrite-N	EPA 300.0	9B16057	0.15	0.26	0.66	1	02/16/09	02/17/09	
Sulfate	EPA 300.0	9B16057	0.20	0.50	4.5	1	02/16/09	02/17/09	
Total Dissolved Solids	SM2540C	9B18065	10	10	58	1	02/18/09	02/18/09	
Total Suspended Solids	SM 2540D	9B21068	1.0	10	1.0	1	02/21/09	02/21/09	J
Sample ID: ISB1806-01 (Outfall 013 - Water)									
Reporting Units: ml/l									
Total Settleable Solids	SM2540F	9B17065	0.10	0.10	ND	1	02/17/09	02/17/09	pH
Sample ID: ISB1806-01 (Outfall 013 - Water)									
Reporting Units: NTU									
Turbidity	EPA 180.1	9B17067	0.040	1.0	7.6	1	02/17/09	02/17/09	
Sample ID: ISB1806-01 (Outfall 013 - Water)									
Reporting Units: ug/l									
Perchlorate	EPA 314.0	9B18101	0.90	4.0	ND	1	02/18/09	02/18/09	

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Attention: Bronwyn Kelly

Project ID: Routine Outfall 013

Report Number: ISB1806

Sampled: 02/16/09

Received: 02/16/09

MCAWW 245.1

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ISB1806-01 (Outfall 013 - Water) - cont.									
Reporting Units: ug/L									
Mercury	MCAWW 245.1	9050174	0.027	0.2	ND	1	02/19/09	02/19/09	

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NPDES - 3495

MWH-Pasadena/Boeing
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Attention: Bronwyn Kelly

Project ID: Routine Outfall 013

Report Number: ISB1806

Sampled: 02/16/09

Received: 02/16/09

MCAWW 245.1-DISS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ISB1806-01 (Outfall 013 - Water) - cont.									
Reporting Units: ug/L									
Mercury	MCAWW 245.1-DISS	9050182	0.027	0.2	ND	1	02/19/09	02/19/09	

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NPDES - 3496

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

Project ID: Routine Outfall 013

Report Number: ISB1806

Sampled: 02/16/09
Received: 02/16/09

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 (ISB1806-01) - Water					
EPA 180.1	2	02/16/2009 14:20	02/16/2009 19:00	02/17/2009 09:30	02/17/2009 12:55
EPA 300.0	2	02/16/2009 14:20	02/16/2009 19:00	02/16/2009 16:00	02/17/2009 00:11
Filtration	1	02/16/2009 14:20	02/16/2009 19:00	02/17/2009 00:29	02/17/2009 00:33
SM2540F	2	02/16/2009 14:20	02/16/2009 19:00	02/17/2009 09:45	02/17/2009 09:45
SM5210B	2	02/16/2009 14:20	02/16/2009 19:00	02/17/2009 23:16	02/22/2009 11:00

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NPDES - 3497

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

Project ID: Routine Outfall 013

Report Number: ISB1806

Sampled: 02/16/09
 Received: 02/16/09

METHOD BLANK/QC DATA

EXTRACTABLE FUEL HYDROCARBONS (CADHS/8015 Modified)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 9B19076 Extracted: 02/19/09											
Blank Analyzed: 02/19/2009 (9B19076-BLK1)											
DRO (C13 - C28)	ND	0.10	0.050	mg/l							
EFH (C10 - C28)	ND	0.10	0.050	mg/l							
Surrogate: n-Octacosane	0.106			mg/l	0.200		53	40-125			
LCS Analyzed: 02/19/2009 (9B19076-BS1)											
EFH (C10 - C28)	0.498	0.10	0.050	mg/l	1.00		50	40-115			MNR1
Surrogate: n-Octacosane	0.129			mg/l	0.200		65	40-125			
LCS Dup Analyzed: 02/19/2009 (9B19076-BSD1)											
EFH (C10 - C28)	0.575	0.10	0.050	mg/l	1.00		58	40-115	14	25	
Surrogate: n-Octacosane	0.144			mg/l	0.200		72	40-125			

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Report Number: ISB1806

Sampled: 02/16/09
 Received: 02/16/09

METHOD BLANK/QC DATA

VOLATILE FUEL HYDROCARBONS (EPA 5030/8015)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 9B21002 Extracted: 02/21/09											
Blank Analyzed: 02/21/2009 (9B21002-BLK1)											
GRO (C4 - C12)	ND	0.050	0.030	mg/l							
Surrogate: 4-BFB (FID)	0.00986			mg/l	0.0100		99	65-140			
LCS Analyzed: 02/21/2009 (9B21002-BS1)											
GRO (C4 - C12)	0.814	0.050	0.030	mg/l	0.800		102	80-120			
Surrogate: 4-BFB (FID)	0.0138			mg/l	0.0100		138	65-140			
Matrix Spike Analyzed: 02/21/2009 (9B21002-MS1) Source: ISB1906-03											
GRO (C4 - C12)	0.270	0.050	0.030	mg/l	0.220	0.0336	107	65-140			
Surrogate: 4-BFB (FID)	0.0119			mg/l	0.0100		119	65-140			
Matrix Spike Dup Analyzed: 02/21/2009 (9B21002-MSD1) Source: ISB1906-03											
GRO (C4 - C12)	0.275	0.050	0.030	mg/l	0.220	0.0336	110	65-140	2	20	
Surrogate: 4-BFB (FID)	0.0126			mg/l	0.0100		126	65-140			

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Project ID: Routine Outfall 013

Report Number: ISB1806

Sampled: 02/16/09
Received: 02/16/09

METHOD BLANK/QC DATA

PURGEABLES BY GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 9B24013 Extracted: 02/24/09											
Blank Analyzed: 02/24/2009 (9B24013-BLK1)											
1,2-Dibromoethane (EDB)	ND	0.50	0.40	ug/l							
1,2,3-Trichloropropane	ND	1.0	0.40	ug/l							
Di-isopropyl Ether (DIPE)	ND	0.50	0.25	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	0.50	0.32	ug/l							
tert-Butanol (TBA)	ND	10	6.5	ug/l							
Surrogate: 4-Bromofluorobenzene	25.1			ug/l	25.0		100	80-120			
Surrogate: Dibromofluoromethane	25.2			ug/l	25.0		101	80-120			
Surrogate: Toluene-d8	24.0			ug/l	25.0		96	80-120			
LCS Analyzed: 02/24/2009 (9B24013-BS1)											
1,2-Dibromoethane (EDB)	24.7	0.50	0.40	ug/l	25.0		99	75-125			
1,2,3-Trichloropropane	23.4	1.0	0.40	ug/l	25.0		94	60-130			
Di-isopropyl Ether (DIPE)	24.7	0.50	0.25	ug/l	25.0		99	60-135			
Methyl-tert-butyl Ether (MTBE)	23.4	0.50	0.32	ug/l	25.0		94	60-135			
tert-Butanol (TBA)	144	10	6.5	ug/l	125		115	70-135			
Surrogate: 4-Bromofluorobenzene	25.1			ug/l	25.0		100	80-120			
Surrogate: Dibromofluoromethane	24.3			ug/l	25.0		97	80-120			
Surrogate: Toluene-d8	24.1			ug/l	25.0		96	80-120			
Matrix Spike Analyzed: 02/24/2009 (9B24013-MS1)											
						Source: ISB1549-07					
1,2-Dibromoethane (EDB)	24.8	0.50	0.40	ug/l	25.0	ND	99	70-130			
1,2,3-Trichloropropane	23.9	1.0	0.40	ug/l	25.0	ND	95	55-135			
Di-isopropyl Ether (DIPE)	23.2	0.50	0.25	ug/l	25.0	ND	93	60-140			
Methyl-tert-butyl Ether (MTBE)	22.4	0.50	0.32	ug/l	25.0	ND	89	55-145			
tert-Butanol (TBA)	138	10	6.5	ug/l	125	ND	110	65-140			
Surrogate: 4-Bromofluorobenzene	25.4			ug/l	25.0		102	80-120			
Surrogate: Dibromofluoromethane	23.3			ug/l	25.0		93	80-120			
Surrogate: Toluene-d8	23.8			ug/l	25.0		95	80-120			

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Project ID: Routine Outfall 013

Report Number: ISB1806

Sampled: 02/16/09
 Received: 02/16/09

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: 9B24013 Extracted: 02/24/09											
Matrix Spike Dup Analyzed: 02/24/2009 (9B24013-MSD1)						Source: ISB1549-07					
1,2-Dibromoethane (EDB)	25.0	0.50	0.40	ug/l	25.0	ND	100	70-130	1	25	
1,2,3-Trichloropropane	24.3	1.0	0.40	ug/l	25.0	ND	97	55-135	2	30	
Di-isopropyl Ether (DIPE)	23.8	0.50	0.25	ug/l	25.0	ND	95	60-140	3	25	
Methyl-tert-butyl Ether (MTBE)	23.0	0.50	0.32	ug/l	25.0	ND	92	55-145	3	25	
tert-Butanol (TBA)	140	10	6.5	ug/l	125	ND	112	65-140	2	25	
Surrogate: 4-Bromofluorobenzene	25.0			ug/l	25.0		100	80-120			
Surrogate: Dibromofluoromethane	23.6			ug/l	25.0		94	80-120			
Surrogate: Toluene-d8	24.1			ug/l	25.0		96	80-120			

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METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 9B19013 Extracted: 02/19/09											
Blank Analyzed: 02/19/2009 (9B19013-BLK1)											
1,4-Dioxane	ND	2.0	1.0	ug/l							
Surrogate: Dibromofluoromethane	0.990			ug/l	1.00		99	80-120			
LCS Analyzed: 02/19/2009 (9B19013-BS1)											
1,4-Dioxane	11.0	2.0	1.0	ug/l	10.0		110	70-125			
Surrogate: Dibromofluoromethane	1.03			ug/l	1.00		103	80-120			
Matrix Spike Analyzed: 02/19/2009 (9B19013-MS1)											
						Source: ISB1803-01					
1,4-Dioxane	11.7	2.0	1.0	ug/l	10.0	ND	117	70-130			
Surrogate: Dibromofluoromethane	1.03			ug/l	1.00		103	80-120			
Matrix Spike Dup Analyzed: 02/19/2009 (9B19013-MSD1)											
						Source: ISB1803-01					
1,4-Dioxane	10.7	2.0	1.0	ug/l	10.0	ND	107	70-130	10	30	
Surrogate: Dibromofluoromethane	1.01			ug/l	1.00		101	80-120			

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METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 9B17084 Extracted: 02/17/09											
Blank Analyzed: 02/20/2009 (9B17084-BLK1)											
Naphthalene	ND	10	3.0	ug/l							
N-Nitrosodimethylamine	ND	20	2.5	ug/l							
Surrogate: 2,4,6-Tribromophenol	157			ug/l	200		79	40-120			
Surrogate: 2-Fluorobiphenyl	76.3			ug/l	100		76	50-120			
Surrogate: 2-Fluorophenol	126			ug/l	200		63	30-120			
Surrogate: Nitrobenzene-d5	75.7			ug/l	100		76	45-120			
Surrogate: Phenol-d6	137			ug/l	200		68	35-120			
Surrogate: Terphenyl-d14	84.4			ug/l	100		84	50-125			
LCS Analyzed: 02/20/2009 (9B17084-BS1)											
Naphthalene	76.1	10	3.0	ug/l	100		76	55-120			MNR1
N-Nitrosodimethylamine	74.6	20	2.5	ug/l	100		75	45-120			
Surrogate: 2,4,6-Tribromophenol	162			ug/l	200		81	40-120			
Surrogate: 2-Fluorobiphenyl	77.3			ug/l	100		77	50-120			
Surrogate: 2-Fluorophenol	123			ug/l	200		61	30-120			
Surrogate: Nitrobenzene-d5	78.6			ug/l	100		79	45-120			
Surrogate: Phenol-d6	134			ug/l	200		67	35-120			
Surrogate: Terphenyl-d14	86.0			ug/l	100		86	50-125			
LCS Dup Analyzed: 02/20/2009 (9B17084-BSD1)											
Naphthalene	72.6	10	3.0	ug/l	100		73	55-120	5	20	
N-Nitrosodimethylamine	72.5	20	2.5	ug/l	100		72	45-120	3	20	
Surrogate: 2,4,6-Tribromophenol	153			ug/l	200		76	40-120			
Surrogate: 2-Fluorobiphenyl	74.8			ug/l	100		75	50-120			
Surrogate: 2-Fluorophenol	119			ug/l	200		60	30-120			
Surrogate: Nitrobenzene-d5	74.8			ug/l	100		75	45-120			
Surrogate: Phenol-d6	130			ug/l	200		65	35-120			
Surrogate: Terphenyl-d14	81.7			ug/l	100		82	50-125			

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METHOD BLANK/QC DATA

HEXANE EXTRACTABLE MATERIAL

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 9B24074 Extracted: 02/24/09											
Blank Analyzed: 02/24/2009 (9B24074-BLK1)											
Hexane Extractable Material (Oil & Grease)	ND	5.0	1.4	mg/l							
LCS Analyzed: 02/24/2009 (9B24074-BS1)											
Hexane Extractable Material (Oil & Grease)	19.2	5.0	1.4	mg/l	20.0		96	78-114			
LCS Dup Analyzed: 02/24/2009 (9B24074-BSD1)											
Hexane Extractable Material (Oil & Grease)	18.8	5.0	1.4	mg/l	20.0		94	78-114	2	11	
Matrix Spike Analyzed: 02/24/2009 (9B24074-MS1)											
Hexane Extractable Material (Oil & Grease)	21.1	4.8	1.3	mg/l	19.1	3.73	90	78-114			

Source: ISB2624-01

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 9B23087 Extracted: 02/23/09											
Blank Analyzed: 02/24/2009 (9B23087-BLK1)											
Boron	ND	0.050	0.020	mg/l							
LCS Analyzed: 02/24/2009 (9B23087-BS1)											
Boron	0.497	0.050	0.020	mg/l	0.500		99	85-115			
Matrix Spike Analyzed: 02/24/2009 (9B23087-MS1)											
						Source: ISB1733-01RE1					
Boron	1.06	0.050	0.020	mg/l	0.500	0.576	97	70-130			
Matrix Spike Analyzed: 02/24/2009 (9B23087-MS2)											
						Source: ISB1806-01					
Boron	0.476	0.050	0.020	mg/l	0.500	ND	95	70-130			
Matrix Spike Dup Analyzed: 02/24/2009 (9B23087-MSD1)											
						Source: ISB1733-01RE1					
Boron	1.10	0.050	0.020	mg/l	0.500	0.576	104	70-130	3	20	
Batch: 9B23088 Extracted: 02/23/09											
Blank Analyzed: 02/24/2009 (9B23088-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	0.402	2.0	0.30	ug/l							J
Zinc	ND	20	2.5	ug/l							
LCS Analyzed: 02/24/2009 (9B23088-BS1)											
Cadmium	79.6	1.0	0.11	ug/l	80.0		100	85-115			
Copper	80.0	2.0	0.75	ug/l	80.0		100	85-115			
Lead	83.7	1.0	0.30	ug/l	80.0		105	85-115			
Selenium	77.8	2.0	0.30	ug/l	80.0		97	85-115			
Zinc	81.1	20	2.5	ug/l	80.0		101	85-115			

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 9B23088 Extracted: 02/23/09											
Matrix Spike Analyzed: 02/24/2009 (9B23088-MS1)						Source: ISB1530-03					
Cadmium	84.1	1.0	0.11	ug/l	80.0	ND	105	70-130			
Copper	75.7	2.0	0.75	ug/l	80.0	1.56	93	70-130			
Lead	76.4	1.0	0.30	ug/l	80.0	ND	95	70-130			
Selenium	76.0	2.0	0.30	ug/l	80.0	ND	95	70-130			
Zinc	76.1	20	2.5	ug/l	80.0	3.19	91	70-130			
Matrix Spike Analyzed: 02/24/2009 (9B23088-MS2)						Source: ISB1780-01					
Cadmium	79.0	1.0	0.11	ug/l	80.0	ND	99	70-130			
Copper	74.4	2.0	0.75	ug/l	80.0	1.17	92	70-130			
Lead	77.8	1.0	0.30	ug/l	80.0	0.676	96	70-130			
Selenium	75.3	2.0	0.30	ug/l	80.0	0.988	93	70-130			
Zinc	99.1	20	2.5	ug/l	80.0	27.6	89	70-130			
Matrix Spike Dup Analyzed: 02/24/2009 (9B23088-MSD1)						Source: ISB1530-03					
Cadmium	81.7	1.0	0.11	ug/l	80.0	ND	102	70-130	3	20	
Copper	75.5	2.0	0.75	ug/l	80.0	1.56	92	70-130	0	20	
Lead	76.0	1.0	0.30	ug/l	80.0	ND	95	70-130	1	20	
Selenium	74.4	2.0	0.30	ug/l	80.0	ND	93	70-130	2	20	
Zinc	75.6	20	2.5	ug/l	80.0	3.19	91	70-130	1	20	

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 9B20105 Extracted: 02/20/09											
Blank Analyzed: 02/24/2009 (9B20105-BLK1)											
Boron	ND	0.050	0.020	mg/l							
LCS Analyzed: 02/24/2009 (9B20105-BS1)											
Boron	0.473	0.050	0.020	mg/l	0.500		95	85-115			
Matrix Spike Analyzed: 02/24/2009 (9B20105-MS1)											
						Source: ISB1822-01					
Boron	0.525	0.050	0.020	mg/l	0.500	0.0464	96	70-130			
Matrix Spike Analyzed: 02/24/2009 (9B20105-MS2)											
						Source: ISB1823-01					
Boron	0.484	0.050	0.020	mg/l	0.500	0.0201	93	70-130			
Matrix Spike Dup Analyzed: 02/24/2009 (9B20105-MSD1)											
						Source: ISB1822-01					
Boron	0.522	0.050	0.020	mg/l	0.500	0.0464	95	70-130	1	20	
Batch: 9B20106 Extracted: 02/20/09											
Blank Analyzed: 02/23/2009 (9B20106-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	3.33	20	2.5	ug/l							J
LCS Analyzed: 02/23/2009 (9B20106-BS1)											
Cadmium	83.3	1.0	0.11	ug/l	80.0		104	85-115			
Copper	78.1	2.0	0.75	ug/l	80.0		98	85-115			
Lead	83.7	1.0	0.30	ug/l	80.0		105	85-115			
Selenium	76.6	2.0	0.30	ug/l	80.0		96	85-115			
Zinc	88.5	20	2.5	ug/l	80.0		111	85-115			

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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: 9B20106 Extracted: 02/20/09											
Matrix Spike Analyzed: 02/23/2009 (9B20106-MS1)						Source: ISB1693-01					
Cadmium	82.0	1.0	0.11	ug/l	80.0	ND	103	70-130			
Copper	78.5	2.0	0.75	ug/l	80.0	1.32	97	70-130			
Lead	83.6	1.0	0.30	ug/l	80.0	ND	105	70-130			
Selenium	74.0	2.0	0.30	ug/l	80.0	ND	92	70-130			
Zinc	75.9	20	2.5	ug/l	80.0	2.51	92	70-130			
Matrix Spike Analyzed: 02/23/2009 (9B20106-MS2)						Source: ISB1694-01					
Cadmium	82.9	1.0	0.11	ug/l	80.0	ND	104	70-130			
Copper	76.3	2.0	0.75	ug/l	80.0	1.12	94	70-130			
Lead	81.7	1.0	0.30	ug/l	80.0	ND	102	70-130			
Selenium	74.5	2.0	0.30	ug/l	80.0	ND	93	70-130			
Zinc	76.9	20	2.5	ug/l	80.0	ND	96	70-130			
Matrix Spike Dup Analyzed: 02/23/2009 (9B20106-MSD1)						Source: ISB1693-01					
Cadmium	84.3	1.0	0.11	ug/l	80.0	ND	105	70-130	3	20	
Copper	78.9	2.0	0.75	ug/l	80.0	1.32	97	70-130	0	20	
Lead	83.6	1.0	0.30	ug/l	80.0	ND	105	70-130	0	20	
Selenium	75.7	2.0	0.30	ug/l	80.0	ND	95	70-130	2	20	
Zinc	80.3	20	2.5	ug/l	80.0	2.51	97	70-130	6	20	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD RPD	RPD Limit	Data Qualifiers
Batch: 9B16057 Extracted: 02/16/09											
Blank Analyzed: 02/16/2009 (9B16057-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: 02/16/2009 (9B16057-BS1)											
Chloride	4.54	0.50	0.25	mg/l	5.00		91	90-110			M-3
Nitrate-N	1.11	0.11	0.060	mg/l	1.13		98	90-110			
Nitrite-N	1.55	0.15	0.090	mg/l	1.52		102	90-110			
Sulfate	9.13	0.50	0.20	mg/l	10.0		91	90-110			
Matrix Spike Analyzed: 02/16/2009 (9B16057-MS1)											
						Source: ISB1719-03					
Nitrate-N	4.50	0.11	0.060	mg/l	1.13	3.20	115	80-120			
Nitrite-N	2.06	0.15	0.090	mg/l	1.52	ND	136	80-120			MI
Sulfate	16.3	0.50	0.20	mg/l	10.0	5.12	112	80-120			
Matrix Spike Analyzed: 02/17/2009 (9B16057-MS2)											
						Source: ISB1806-01					
Chloride	13.9	0.50	0.25	mg/l	5.00	8.38	111	80-120			
Nitrate-N	1.88	0.11	0.060	mg/l	1.13	0.664	108	80-120			
Nitrite-N	1.70	0.15	0.090	mg/l	1.52	ND	112	80-120			
Sulfate	15.8	0.50	0.20	mg/l	10.0	4.54	113	80-120			
Matrix Spike Dup Analyzed: 02/16/2009 (9B16057-MSD1)											
						Source: ISB1719-03					
Nitrate-N	4.51	0.11	0.060	mg/l	1.13	3.20	116	80-120	0	20	
Nitrite-N	2.07	0.15	0.090	mg/l	1.52	ND	136	80-120	1	20	MI
Sulfate	16.0	0.50	0.20	mg/l	10.0	5.12	109	80-120	2	20	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
<u>Batch: 9B17067 Extracted: 02/17/09</u>											
Blank Analyzed: 02/17/2009 (9B17067-BLK1)											
Turbidity	ND	1.0	0.040	NTU							
Duplicate Analyzed: 02/17/2009 (9B17067-DUP1)											
Turbidity	20.2	1.0	0.040	NTU		20.9			3	20	
Duplicate Analyzed: 02/17/2009 (9B17067-DUP2)											
Turbidity	430	20	0.80	NTU		440			2	20	
<u>Batch: 9B17161 Extracted: 02/17/09</u>											
Blank Analyzed: 02/22/2009 (9B17161-BLK1)											
Biochemical Oxygen Demand	ND	2.0	0.50	mg/l							
LCS Analyzed: 02/22/2009 (9B17161-BS1)											
Biochemical Oxygen Demand	178	100	25	mg/l	198		90	85-115			
LCS Dup Analyzed: 02/22/2009 (9B17161-BSD1)											
Biochemical Oxygen Demand	186	100	25	mg/l	198		94	85-115	4	20	
<u>Batch: 9B18065 Extracted: 02/18/09</u>											
Blank Analyzed: 02/18/2009 (9B18065-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 02/18/2009 (9B18065-BS1)											
Total Dissolved Solids	982	10	10	mg/l	1000		98	90-110			

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 9B18065 Extracted: 02/18/09											
Duplicate Analyzed: 02/18/2009 (9B18065-DUP1)						Source: ISB1930-01					
Total Dissolved Solids	177	10	10	mg/l		172			3	10	
Batch: 9B18101 Extracted: 02/18/09											
Blank Analyzed: 02/18/2009 (9B18101-BLK1)											
Perchlorate	ND	4.0	0.90	ug/l							
LCS Analyzed: 02/18/2009 (9B18101-BS1)											
Perchlorate	23.9	4.0	0.90	ug/l	25.0		96	85-115			
Matrix Spike Analyzed: 02/18/2009 (9B18101-MS1)						Source: ISB1967-03					
Perchlorate	24.1	4.0	0.90	ug/l	25.0	1.76	89	80-120			
Matrix Spike Dup Analyzed: 02/18/2009 (9B18101-MSD1)						Source: ISB1967-03					
Perchlorate	23.7	4.0	0.90	ug/l	25.0	1.76	88	80-120	2	20	
Batch: 9B20008 Extracted: 02/20/09											
Blank Analyzed: 02/20/2009 (9B20008-BLK1)											
Fluoride	0.0341	0.10	0.020	mg/l							J
LCS Analyzed: 02/20/2009 (9B20008-BS1)											
Fluoride	0.988	0.10	0.020	mg/l	1.00		99	90-110			
Matrix Spike Analyzed: 02/20/2009 (9B20008-MS1)						Source: ISB1530-03					
Fluoride	1.31	0.10	0.020	mg/l	1.00	0.360	95	80-120			

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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 013

Report Number: ISB1806

Sampled: 02/16/09
 Received: 02/16/09

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 9B20008 Extracted: 02/20/09											
Matrix Spike Dup Analyzed: 02/20/2009 (9B20008-MSD1)						Source: ISB1530-03					
Fluoride	1.32	0.10	0.020	mg/l	1.00	0.360	96	80-120	1	20	
Batch: 9B21068 Extracted: 02/21/09											
Blank Analyzed: 02/21/2009 (9B21068-BLK1)											
Total Suspended Solids	ND	10	1.0	mg/l							
LCS Analyzed: 02/21/2009 (9B21068-BS1)											
Total Suspended Solids	990	10	1.0	mg/l	1000		99	85-115			
Duplicate Analyzed: 02/21/2009 (9B21068-DUP1)						Source: ISB1750-01					
Total Suspended Solids	105	10	1.0	mg/l		106			1	10	
Batch: 9B24128 Extracted: 02/24/09											
Blank Analyzed: 02/24/2009 (9B24128-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.50	mg/l							
LCS Analyzed: 02/24/2009 (9B24128-BS1)											
Ammonia-N (Distilled)	10.6	0.50	0.50	mg/l	10.0		106	80-115			
Matrix Spike Analyzed: 02/24/2009 (9B24128-MS1)						Source: ISB1703-01					
Ammonia-N (Distilled)	10.1	0.50	0.50	mg/l	10.0	0.560	95	70-120			
Matrix Spike Dup Analyzed: 02/24/2009 (9B24128-MSD1)						Source: ISB1703-01					
Ammonia-N (Distilled)	10.1	0.50	0.50	mg/l	10.0	0.560	95	70-120	0	15	

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

Project ID: Routine Outfall 013

Report Number: ISB1806

Sampled: 02/16/09
 Received: 02/16/09

METHOD BLANK/QC DATA

MCAWW 245.1

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 9050174 Extracted: 02/19/09											
Blank Analyzed: 02/19/2009 (D9B190000174B)						Source:					
Mercury	ND	0.2	0.027	ug/L				-			
LCS Analyzed: 02/19/2009 (D9B190000174C)						Source:					
Mercury	4.78	0.2	0.027	ug/L	5		96	90-110			
Matrix Spike Dup Analyzed: 02/19/2009 (D9B190119001D)						Source: D9B190119001					
Mercury	4.29	0.2	0.027	ug/L	5	0.032	85	90-110	0	10	N
Matrix Spike Analyzed: 02/19/2009 (D9B190119001S)						Source: D9B190119001					
Mercury	4.29	0.2	0.027	ug/L	5	0.032	85	90-110	0	10	N

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

Project ID: Routine Outfall 013

Report Number: ISB1806

Sampled: 02/16/09
 Received: 02/16/09

METHOD BLANK/QC DATA

MCAWW 245.1-DISS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 9050182 Extracted: 02/19/09											
Blank Analyzed: 02/19/2009 (D9B190000182B)						Source:					
Mercury	ND	0.2	0.027	ug/L				-			
LCS Analyzed: 02/19/2009 (D9B190000182C)						Source:					
Mercury	4.63	0.2	0.027	ug/L	5		93	90-110			
Matrix Spike Dup Analyzed: 02/19/2009 (D9B190119001D)						Source: D9B190119001					
Mercury	4.55	0.2	0.027	ug/L	5	0.03	90	90-110	0	10	
Matrix Spike Analyzed: 02/19/2009 (D9B190119001S)						Source: D9B190119001					
Mercury	4.57	0.2	0.027	ug/L	5	0.03	91	90-110	0	10	

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

Project ID: Routine Outfall 013

Report Number: ISB1806

Sampled: 02/16/09
Received: 02/16/09

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
ISB1806-01	1664-HEM	Hexane Extractable Material (Oil & Greas	mg/l	1.05	4.8	15
ISB1806-01	624-Boeing 012/013/014 DT, LOW	1,2-Dibromoethane (EDB)	ug/l	0	0.50	50
ISB1806-01	624-Boeing 012/013/014 DT, LOW	tert-Butanol (TBA)	ug/l	0	10	12
ISB1806-01	625-Boeing 012/013/014 DT	Naphthalene	ug/l	0	9.5	21
ISB1806-01	8015B-DRO(C13-C28)-LowRL	DRO (C13 - C28)	mg/l	0.00070	0.094	0.1
ISB1806-01	8015B-GRO(C4-C12)	GRO (C4 - C12)	mg/l	0.0097	0.050	0.1
ISB1806-01	8260B-SIM 1,4-Dioxane	1,4-Dioxane	ug/l	0	2.0	3
ISB1806-01	Ammonia-N, Titr 4500NH3-C (w/dis	Ammonia-N (Distilled)	mg/l	0.56	0.50	10
ISB1806-01	Boron-200.7	Boron	mg/l	0.0061	0.050	1
ISB1806-01	Cadmium-200.8	Cadmium	ug/l	0.34	1.0	3.1
ISB1806-01	Chloride - 300.0	Chloride	mg/l	8.38	0.50	150
ISB1806-01	Copper-200.8	Copper	ug/l	1.80	2.0	14
ISB1806-01	Fluoride SM4500F,C	Fluoride	mg/l	0.14	0.10	1.6
ISB1806-01	Lead-200.8	Lead	ug/l	2.61	1.0	5.2
ISB1806-01	Nitrate-N, 300.0	Nitrate-N	mg/l	0.66	0.11	8
ISB1806-01	Nitrite-N, 300.0	Nitrite-N	mg/l	0	0.15	1
ISB1806-01	Nitrogen, NO3+NO2 -N	Nitrate/Nitrite-N	mg/l	0.66	0.26	8
ISB1806-01	Perchlorate 314.0-DEFAULT	Perchlorate	ug/l	0	4.0	6
ISB1806-01	Selenium-200.8	Selenium	ug/l	-1	2.0	5
ISB1806-01	Settleable Solids - SM2540F	Total Settleable Solids	ml/l	0	0.10	0.3
ISB1806-01	Sulfate-300.0	Sulfate	mg/l	4.54	0.50	300
ISB1806-01	TDS - SM2540C	Total Dissolved Solids	mg/l	58	10	950
ISB1806-01	TSS - SM2540D	Total Suspended Solids	mg/l	1.00	10	45
ISB1806-01	Zinc-200.8	Zinc	ug/l	13	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
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Compliance Check

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

TestAmerica Irvine

Joseph Doak
Project Manager

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

Project ID: Routine Outfall 013

Report Number: ISB1806

Sampled: 02/16/09

Received: 02/16/09

LabNumber	Analysis	Analyte	Units	Result	MRL	Compliance Limit
ISB1806-02	624-Boeing 012/013/014 DT, LOW	1,2-Dibromoethane (EDB)	ug/l	0	0.50	50
ISB1806-02	624-Boeing 012/013/014 DT, LOW	tert-Butanol (TBA)	ug/l	0	10	12

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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 013

Report Number: ISB1806

Sampled: 02/16/09
Received: 02/16/09

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.
- M1** The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M-3** Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the Blank Spike (LCS).
- MNR1** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- N** Spike sample recovery is outside control limits.
- pH** pH = 5
- 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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Joseph Doak
Project Manager

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ISB1806 <Page 34 of 35>
NPDES - 3517

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

Project ID: Routine Outfall 013

Report Number: ISB1806

Sampled: 02/16/09
Received: 02/16/09

Certification Summary

TestAmerica Irvine

Method	Matrix	Nelac	California
EPA 1664A	Water	X	X
EPA 180.1	Water	X	X
EPA 200.7-Diss	Water	X	X
EPA 200.7	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
EPA 300.0	Water	X	X
EPA 314.0	Water	X	X
EPA 624	Water	X	X
EPA 625	Water	X	X
EPA 8015B	Water	X	X
EPA 8260B-SIM	Water	X	X
Filtration	Water	N/A	N/A
SM 2540D	Water	X	X
SM 4500-F-C	Water	X	X
SM2540C	Water	X	X
SM2540F	Water	X	X
SM4500NH3-C	Water	X	X
SM5210B	Water	X	X

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

Subcontracted Laboratories

TestAmerica Denver

4955 Yarrow Street - Arvada, CO 80002

Method Performed: MCAWW 245.1
Samples: ISB1806-01

Method Performed: MCAWW 245.1-DISS
Samples: ISB1806-01

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: ISB1806-01

TestAmerica Irvine

Joseph Doak
Project Manager

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ISB 806

CHAIN OF CUSTODY FORM

Test America Version 12/20/07

Client Name/Address: MWH-Arcadia 618 Michillinda Avenue, Suite 200 Arcadia, CA 91007		Project: Boeing-SSFL NPDES Routine Outfall 013 Bravo Test Stand		ANALYSIS REQUIRED Nitrate-N, Nitrite-N Perchlorate Cl ⁻ , SO ₄ ⁻² , F ⁻ , NO ₃ ⁻ +NO ₂ ⁻ , Ammonia-N (350.2) analysis) 625 (Naphthalene +NDMA BOD ₅ (20 degrees C) 1,4-Dioxane (8260B) Hydrocarbons (8015) Total Rec. Petroleum (C13-C28) 8015 Mod diesel/jet fuel 8015 Mod Gas (C6-C12) Oil & Grease (1664-HEM)										Field readings: Temp = 46.8 pH = 7.35 Time of readings = 1420		Comments	
Test America Contact: Joseph Doak Project Manager: Bronwyn Kelly Sampler: <i>P. L. Kelly</i>	Phone Number: (626) 568-6691 Fax Number: (626) 568-6515	Sampling Date/Time 2/16/07	Preservative HCl	Bottle # 1A X 1B X 2A X 2B, 2C X 3A X 3B X 4A 4B 5A X 5B, 5C X 6 X 7A X 7B X 8 X 9A, 9B X 10	Oils & Grease (1664-HEM) 8015 Mod Gas (C6-C12) 8015 Mod diesel/jet fuel Total Rec. Petroleum (8015) Hydrocarbons (8260B) 1,4-Dioxane (8260B) BOD ₅ (20 degrees C) 625 (Naphthalene +NDMA analysis) Ammonia-N (350.2) Perchlorate Nitrate-N, Nitrite-N	NPDES Level IV <input checked="" type="checkbox"/>											
Relinquished By <i>[Signature]</i>	Date/Time: 2/16/07	Received By <i>[Signature]</i>	Date/Time: 2/16/07	NPDES Level IV <input checked="" type="checkbox"/>													
Relinquished By <i>[Signature]</i>	Date/Time: 2-16-07	Received By <i>[Signature]</i>	Date/Time: 2/16/07	NPDES Level IV <input checked="" type="checkbox"/>													
Relinquished By <i>[Signature]</i>	Date/Time: 2-16-07	Received By <i>[Signature]</i>	Date/Time: 2/16/07	NPDES Level IV <input checked="" type="checkbox"/>													

EW

March 07, 2009

Vista Project I.D.: 31443

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

Dear Mr. Doak,

Enclosed are the results for the one aqueous sample received at Vista Analytical Laboratory on February 18, 2009 under your Project Name "ISB1806". 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 NELAP 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.



