

# **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

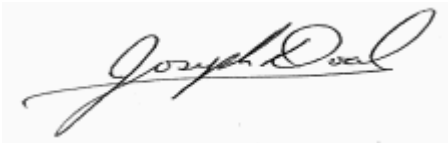
### CLIENT ID

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

### 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

## EXTRACTABLE FUEL HYDROCARBONS (CADHS/8015 Modified)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ISB1806-01 (Outfall 013 - Water)</b>									
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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**NPDES - 3486**

MWH-Pasadena/Boeing  
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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
<b>Sample ID: ISB1806-01 (Outfall 013 - Water) - cont.</b>									
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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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
<b>Sample ID: ISB1806-01 (Outfall 013 - Water) - cont.</b>									
<b>Reporting Units: ug/l</b>									
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 %				
<b>Sample ID: ISB1806-02 (Trip Blanks - Water)</b>									
<b>Reporting Units: ug/l</b>									
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
<b>Sample ID: ISB1806-01 (Outfall 013 - Water)</b>									
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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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
<b>Sample ID: ISB1806-01 (Outfall 013 - Water) - cont.</b>									
<b>Reporting Units: ug/l</b>									
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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Report Number: ISB1806

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
<b>Sample ID: ISB1806-01 (Outfall 013 - Water) - cont.</b>									
<b>Reporting Units: mg/l</b>									
Hexane Extractable Material (Oil & Grease)	EPA 1664A	9B24074	1.3	4.8	ND	1	02/24/09	02/24/09	

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Report Number: ISB1806

Sampled: 02/16/09  
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## METALS

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

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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
<b>Sample ID: ISB1806-01 (Outfall 013 - Water) - cont.</b>									
Reporting Units: mg/l									
Boron	EPA 200.7-Diss	9B20105	0.020	0.050	ND	1	02/20/09	02/24/09	
<b>Sample ID: ISB1806-01 (Outfall 013 - Water)</b>									
Reporting Units: ug/l									
Cadmium	EPA 200.8-Diss	9B20106	0.11	1.0	<b>0.19</b>	1	02/20/09	02/24/09	J
Copper	EPA 200.8-Diss	9B20106	0.75	2.0	<b>2.1</b>	1	02/20/09	02/23/09	
Lead	EPA 200.8-Diss	9B20106	0.30	1.0	<b>0.72</b>	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	
<b>Sample ID: ISB1806-01RE1 (Outfall 013 - Water)</b>									
Reporting Units: ug/l									
Zinc	EPA 200.8-Diss	9B20106	2.5	20	<b>6.1</b>	1	02/20/09	03/18/09	B, J

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## INORGANICS

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

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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
<b>Sample ID: ISB1806-01 (Outfall 013 - Water) - cont.</b>									
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**

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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

	<b>Hold Time (in days)</b>	<b>Date/Time Sampled</b>	<b>Date/Time Received</b>	<b>Date/Time Extracted</b>	<b>Date/Time Analyzed</b>
<b>Sample ID: Outfall 013 (ISB1806-01) - Water</b>					
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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 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
<b>Batch: 9B19076 Extracted: 02/19/09</b>											
<b>Blank Analyzed: 02/19/2009 (9B19076-BLK1)</b>											
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			
<b>LCS Analyzed: 02/19/2009 (9B19076-BS1)</b>											
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			
<b>LCS Dup Analyzed: 02/19/2009 (9B19076-BSD1)</b>											
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
<b>Batch: 9B21002 Extracted: 02/21/09</b>											
<b>Blank Analyzed: 02/21/2009 (9B21002-BLK1)</b>											
GRO (C4 - C12)	ND	0.050	0.030	mg/l							
Surrogate: 4-BFB (FID)	0.00986			mg/l	0.0100		99	65-140			
<b>LCS Analyzed: 02/21/2009 (9B21002-BS1)</b>											
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			
<b>Matrix Spike Analyzed: 02/21/2009 (9B21002-MS1) Source: ISB1906-03</b>											
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			
<b>Matrix Spike Dup Analyzed: 02/21/2009 (9B21002-MSD1) Source: ISB1906-03</b>											
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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Report Number: ISB1806

Sampled: 02/16/09  
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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	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 9B24013 Extracted: 02/24/09</b>											
<b>Blank Analyzed: 02/24/2009 (9B24013-BLK1)</b>											
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			
<b>LCS Analyzed: 02/24/2009 (9B24013-BS1)</b>											
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			
<b>Matrix Spike Analyzed: 02/24/2009 (9B24013-MS1)</b>											
						<b>Source: ISB1549-07</b>					
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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 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

### PURGEABLES BY GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 9B24013 Extracted: 02/24/09</b>											
<b>Matrix Spike Dup Analyzed: 02/24/2009 (9B24013-MSD1)</b>						<b>Source: ISB1549-07</b>					
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
<b>Batch: 9B19013 Extracted: 02/19/09</b>											
<b>Blank Analyzed: 02/19/2009 (9B19013-BLK1)</b>											
1,4-Dioxane	ND	2.0	1.0	ug/l							
Surrogate: Dibromofluoromethane	0.990			ug/l	1.00		99	80-120			
<b>LCS Analyzed: 02/19/2009 (9B19013-BS1)</b>											
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			
<b>Matrix Spike Analyzed: 02/19/2009 (9B19013-MS1)</b>											
						<b>Source: ISB1803-01</b>					
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			
<b>Matrix Spike Dup Analyzed: 02/19/2009 (9B19013-MSD1)</b>											
						<b>Source: ISB1803-01</b>					
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
<b>Batch: 9B17084 Extracted: 02/17/09</b>											
<b>Blank Analyzed: 02/20/2009 (9B17084-BLK1)</b>											
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			
<b>LCS Analyzed: 02/20/2009 (9B17084-BS1)</b>											
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			
<b>LCS Dup Analyzed: 02/20/2009 (9B17084-BSD1)</b>											
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
<b>Batch: 9B24074 Extracted: 02/24/09</b>											
<b>Blank Analyzed: 02/24/2009 (9B24074-BLK1)</b>											
Hexane Extractable Material (Oil & Grease)	ND	5.0	1.4	mg/l							
<b>LCS Analyzed: 02/24/2009 (9B24074-BS1)</b>											
Hexane Extractable Material (Oil & Grease)	19.2	5.0	1.4	mg/l	20.0		96	78-114			
<b>LCS Dup Analyzed: 02/24/2009 (9B24074-BSD1)</b>											
Hexane Extractable Material (Oil & Grease)	18.8	5.0	1.4	mg/l	20.0		94	78-114	2	11	
<b>Matrix Spike Analyzed: 02/24/2009 (9B24074-MS1)</b>											
Hexane Extractable Material (Oil & Grease)	21.1	4.8	1.3	mg/l	19.1	3.73	90	78-114			

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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
<b>Batch: 9B23087 Extracted: 02/23/09</b>											
<b>Blank Analyzed: 02/24/2009 (9B23087-BLK1)</b>											
Boron	ND	0.050	0.020	mg/l							
<b>LCS Analyzed: 02/24/2009 (9B23087-BS1)</b>											
Boron	0.497	0.050	0.020	mg/l	0.500		99	85-115			
<b>Matrix Spike Analyzed: 02/24/2009 (9B23087-MS1)</b>											
						<b>Source: ISB1733-01RE1</b>					
Boron	1.06	0.050	0.020	mg/l	0.500	0.576	97	70-130			
<b>Matrix Spike Analyzed: 02/24/2009 (9B23087-MS2)</b>											
						<b>Source: ISB1806-01</b>					
Boron	0.476	0.050	0.020	mg/l	0.500	ND	95	70-130			
<b>Matrix Spike Dup Analyzed: 02/24/2009 (9B23087-MSD1)</b>											
						<b>Source: ISB1733-01RE1</b>					
Boron	1.10	0.050	0.020	mg/l	0.500	0.576	104	70-130	3	20	
<b>Batch: 9B23088 Extracted: 02/23/09</b>											
<b>Blank Analyzed: 02/24/2009 (9B23088-BLK1)</b>											
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							
<b>LCS Analyzed: 02/24/2009 (9B23088-BS1)</b>											
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
<b>Batch: 9B23088 Extracted: 02/23/09</b>											
<b>Matrix Spike Analyzed: 02/24/2009 (9B23088-MS1)</b>						<b>Source: ISB1530-03</b>					
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			
<b>Matrix Spike Analyzed: 02/24/2009 (9B23088-MS2)</b>						<b>Source: ISB1780-01</b>					
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			
<b>Matrix Spike Dup Analyzed: 02/24/2009 (9B23088-MSD1)</b>						<b>Source: ISB1530-03</b>					
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
<b>Batch: 9B20105 Extracted: 02/20/09</b>											
<b>Blank Analyzed: 02/24/2009 (9B20105-BLK1)</b>											
Boron	ND	0.050	0.020	mg/l							
<b>LCS Analyzed: 02/24/2009 (9B20105-BS1)</b>											
Boron	0.473	0.050	0.020	mg/l	0.500		95	85-115			
<b>Matrix Spike Analyzed: 02/24/2009 (9B20105-MS1)</b>											
						<b>Source: ISB1822-01</b>					
Boron	0.525	0.050	0.020	mg/l	0.500	0.0464	96	70-130			
<b>Matrix Spike Analyzed: 02/24/2009 (9B20105-MS2)</b>											
						<b>Source: ISB1823-01</b>					
Boron	0.484	0.050	0.020	mg/l	0.500	0.0201	93	70-130			
<b>Matrix Spike Dup Analyzed: 02/24/2009 (9B20105-MSD1)</b>											
						<b>Source: ISB1822-01</b>					
Boron	0.522	0.050	0.020	mg/l	0.500	0.0464	95	70-130	1	20	
<b>Batch: 9B20106 Extracted: 02/20/09</b>											
<b>Blank Analyzed: 02/23/2009 (9B20106-BLK1)</b>											
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
<b>LCS Analyzed: 02/23/2009 (9B20106-BS1)</b>											
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
<b>Batch: 9B20106 Extracted: 02/20/09</b>											
<b>Matrix Spike Analyzed: 02/23/2009 (9B20106-MS1)</b>						<b>Source: ISB1693-01</b>					
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			
<b>Matrix Spike Analyzed: 02/23/2009 (9B20106-MS2)</b>						<b>Source: ISB1694-01</b>					
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			
<b>Matrix Spike Dup Analyzed: 02/23/2009 (9B20106-MSD1)</b>						<b>Source: ISB1693-01</b>					
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
<b>Batch: 9B16057 Extracted: 02/16/09</b>											
<b>Blank Analyzed: 02/16/2009 (9B16057-BLK1)</b>											
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							
<b>LCS Analyzed: 02/16/2009 (9B16057-BS1)</b>											
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			
<b>Matrix Spike Analyzed: 02/16/2009 (9B16057-MS1)</b>											
						<b>Source: ISB1719-03</b>					
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			
<b>Matrix Spike Analyzed: 02/17/2009 (9B16057-MS2)</b>											
						<b>Source: ISB1806-01</b>					
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			
<b>Matrix Spike Dup Analyzed: 02/16/2009 (9B16057-MSD1)</b>											
						<b>Source: ISB1719-03</b>					
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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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	RPD Limits	RPD RPD	RPD Limit	Data Qualifiers
<b><u>Batch: 9B17067 Extracted: 02/17/09</u></b>											
<b>Blank Analyzed: 02/17/2009 (9B17067-BLK1)</b>											
Turbidity	ND	1.0	0.040	NTU							
<b>Duplicate Analyzed: 02/17/2009 (9B17067-DUP1)</b>											
Turbidity	20.2	1.0	0.040	NTU		20.9			3	20	
<b>Duplicate Analyzed: 02/17/2009 (9B17067-DUP2)</b>											
Turbidity	430	20	0.80	NTU		440			2	20	
<b><u>Batch: 9B17161 Extracted: 02/17/09</u></b>											
<b>Blank Analyzed: 02/22/2009 (9B17161-BLK1)</b>											
Biochemical Oxygen Demand	ND	2.0	0.50	mg/l							
<b>LCS Analyzed: 02/22/2009 (9B17161-BS1)</b>											
Biochemical Oxygen Demand	178	100	25	mg/l	198		90	85-115			
<b>LCS Dup Analyzed: 02/22/2009 (9B17161-BSD1)</b>											
Biochemical Oxygen Demand	186	100	25	mg/l	198		94	85-115	4	20	
<b><u>Batch: 9B18065 Extracted: 02/18/09</u></b>											
<b>Blank Analyzed: 02/18/2009 (9B18065-BLK1)</b>											
Total Dissolved Solids	ND	10	10	mg/l							
<b>LCS Analyzed: 02/18/2009 (9B18065-BS1)</b>											
Total Dissolved Solids	982	10	10	mg/l	1000		98	90-110			

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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

## METHOD BLANK/QC DATA

### INORGANICS

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

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

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 Project Manager

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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
<b>Batch: 9050174 Extracted: 02/19/09</b>											
<b>Blank Analyzed: 02/19/2009 (D9B190000174B)</b>						<b>Source:</b>					
Mercury	ND	0.2	0.027	ug/L				-			
<b>LCS Analyzed: 02/19/2009 (D9B190000174C)</b>						<b>Source:</b>					
Mercury	4.78	0.2	0.027	ug/L	5		96	90-110			
<b>Matrix Spike Dup Analyzed: 02/19/2009 (D9B190119001D)</b>						<b>Source: D9B190119001</b>					
Mercury	4.29	0.2	0.027	ug/L	5	0.032	85	90-110	0	10	N
<b>Matrix Spike Analyzed: 02/19/2009 (D9B190119001S)</b>						<b>Source: D9B190119001</b>					
Mercury	4.29	0.2	0.027	ug/L	5	0.032	85	90-110	0	10	N

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 Project Manager

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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

## 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
<b>Batch: 9050182 Extracted: 02/19/09</b>											
<b>Blank Analyzed: 02/19/2009 (D9B190000182B)</b>						<b>Source:</b>					
Mercury	ND	0.2	0.027	ug/L				-			
<b>LCS Analyzed: 02/19/2009 (D9B190000182C)</b>						<b>Source:</b>					
Mercury	4.63	0.2	0.027	ug/L	5		93	90-110			
<b>Matrix Spike Dup Analyzed: 02/19/2009 (D9B190119001D)</b>						<b>Source: D9B190119001</b>					
Mercury	4.55	0.2	0.027	ug/L	5	0.03	90	90-110	0	10	
<b>Matrix Spike Analyzed: 02/19/2009 (D9B190119001S)</b>						<b>Source: D9B190119001</b>					
Mercury	4.57	0.2	0.027	ug/L	5	0.03	91	90-110	0	10	

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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

## 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

## TestAmerica Irvine

Joseph Doak  
Project Manager

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

Project ID: 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.
- MI** 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.

**TestAmerica Irvine**

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](http://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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ISB806

# 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										Field readings: Temp = 46.8 pH = 7.35 Time of readings = 1420									
Test America Contact: Joseph Doak Project Manager: Bronwyn Kelly Sampler: Pollock		Phone Number: (626) 568-6691 Fax Number: (626) 568-6515		Oil & Grease (1664-HEM)		8015 Mod Gas (C6-C12)		8015 Mod diesel/jet fuel (C13-C28)		Total Rec. Petroleum Hydrocarbons (8015)		1,4-Dioxane (8260B)		BOD <sub>5</sub> (20 degrees C)		625 (Naphthalene +NDMA analysis)		Ammonia-N (350.2)		Chloride, Sulfate, Fluoride, Nitrate+Nitrite-N, Perchlorate		Nitrate-N, Nitrite-N	
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	Comments																
Outfall 013	W	1L Amber	1	2/16/09	HCl	1A	EW																
Outfall 013 Dup	W	1L Amber	1	2/16/09	HCl	1B	EW																
Outfall 013	W	VOAs	1		HCl	2A																	
Outfall 013 Dup	W	VOAs	2		HCl	2B, 2C																	
Outfall 013	W	1L Amber	1		None	3A																	
Outfall 013 Dup	W	1L Amber	1		None	3B																	
Outfall 013	W	1L Amber	1		HCl	4A																	
Outfall 013 Dup	W	1L Amber	1		HCl	4B																	
Outfall 013	W	VOAs	1		HCl	5A																	
Outfall 013 Dup	W	VOAs	2		HCl	5B, 5C																	
Outfall 013	W	1L Poly	1		None	6																	
Outfall 013	W	1L Amber	1		None	7A																	
Outfall 013 Dup	W	1L Amber	1		None	7B																	
Outfall 013	W	500 ml Poly	1		H <sub>2</sub> SO <sub>4</sub>	8																	
Outfall 013	W	500 ml Poly	2		None	9A, 9B																	
Outfall 013	W	500 ml Poly	1		None	10																	
Relinquished By		Date/Time:		Received By		Date/Time:		Turn around Time: (check) 24 Hours _____ 5 Days _____ 48 Hours _____ 10 Days _____ 72 Hours _____ Normal _____															
Relinquished By		Date/Time:		Received By		Date/Time:		Sample Integrity: (check) On Ice: _____ Data Requirements: (check) No Level IV _____ All Level IV _____ NPDES Level IV <input checked="" type="checkbox"/>															
Relinquished By		Date/Time:		Received By		Date/Time:																	



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](mailto: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.*



**Section I: Sample Inventory Report**

**Date Received: 2/18/2009**

Vista Lab. ID

Client Sample ID

31443-001

ISB1806-01



**SECTION II**

**Method Blank** **EPA Method 1613**

Matrix: Aqueous	QC Batch No.: 1907	Lab Sample: 0-MB001						
Sample Size: 1.00 L	Date Extracted: 21-Feb-09	Date Analyzed DB-5: 24-Feb-09						
Date Analyzed DB-225: NA								
Analyte	Conc. (ug/L)	DL <sup>a</sup>	EMPC <sup>b</sup>	Qualifiers	Labeled Standard	%R	LCL-UCL <sup>d</sup>	Qualifiers
2,3,7,8-TCDD	ND	0.00000484			IS 13C-2,3,7,8-TCDD	84.7	25 - 164	
1,2,3,7,8-PeCDD	ND	0.00000938			13C-1,2,3,7,8-PeCDD	76.5	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0000107			13C-1,2,3,4,7,8-HxCDD	82.7	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0000110			13C-1,2,3,6,7,8-HxCDD	79.3	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0000105			13C-1,2,3,4,6,7,8-HpCDD	83.7	23 - 140	
1,2,3,4,6,7,8-HpCDD	ND	0.0000347			13C-OCDD	74.0	17 - 157	
OCDD	ND	0.0000193			13C-2,3,7,8-TCDF	93.7	24 - 169	
2,3,7,8-TCDF	ND	0.00000369			13C-1,2,3,7,8-PeCDF	80.7	24 - 185	
1,2,3,7,8-PeCDF	ND	0.00000467			13C-2,3,4,7,8-PeCDF	79.8	21 - 178	
2,3,4,7,8-PeCDF	ND	0.00000467			13C-1,2,3,4,7,8-HxCDF	83.9	26 - 152	
1,2,3,4,7,8-HxCDF	ND	0.00000652			13C-1,2,3,6,7,8-HxCDF	80.2	26 - 123	
1,2,3,6,7,8-HxCDF	ND	0.00000635			13C-2,3,4,6,7,8-HxCDF	83.8	28 - 136	
2,3,4,6,7,8-HxCDF	ND	0.00000697			13C-1,2,3,7,8,9-HxCDF	81.6	29 - 147	
1,2,3,7,8,9-HxCDF	ND	0.0000100			13C-1,2,3,4,6,7,8-HpCDF	80.1	28 - 143	
1,2,3,4,6,7,8-HpCDF	ND	0.0000223			13C-1,2,3,4,7,8,9-HpCDF	85.3	26 - 138	
1,2,3,4,7,8,9-HpCDF	ND	0.0000241			13C-OCDF	69.3	17 - 157	
OCDF	ND	0.0000157			CRS 37Cl-2,3,7,8-TCDD	90.8	35 - 197	

<b>Totals</b>	
Total TCDD	ND
Total PeCDD	ND
Total HxCDD	ND
Total HpCDD	ND
Total TCDF	ND
Total PeCDF	ND
Total HxCDF	ND
Total HpCDF	ND

**Footnotes**

- a. Sample specific estimated detection limit.
- b. Estimated maximum possible concentration.
- c. Method detection limit.
- d. Lower control limit - upper control limit.

Analyst: JMH Approved By: Martha M. Maier 07-Mar-2009 08:19

EPA Method 1613						
OPR Results		Lab Sample: 0-OPR001				
Matrix: Aqueous	QC Batch No.: 1907	Date Analyzed DB-5: 24-Feb-09 Date Analyzed DB-225: NA				
Sample Size: 1.00 L	Date Extracted: 21-Feb-09					
Analyte	Spike Conc.	Conc. (ng/mL)	OPR Limits	Labeled Standard	%R	LCL-UCL Qualifier
2,3,7,8-TCDD	10.0	10.3	6.7 - 15.8	IS 13C-2,3,7,8-TCDD	86.0	25 - 164
1,2,3,7,8-PeCDD	50.0	52.1	35 - 71	13C-1,2,3,7,8-PeCDD	78.7	25 - 181
1,2,3,4,7,8-HxCDD	50.0	51.0	35 - 82	13C-1,2,3,4,7,8-HxCDD	84.9	32 - 141
1,2,3,6,7,8-HxCDD	50.0	50.0	38 - 67	13C-1,2,3,6,7,8-HxCDD	81.1	28 - 130
1,2,3,7,8,9-HxCDD	50.0	49.9	32 - 81	13C-1,2,3,4,6,7,8-HpCDD	79.5	23 - 140
1,2,3,4,6,7,8-HpCDD	50.0	50.9	35 - 70	13C-OCDD	71.0	17 - 157
OCDD	100	102	78 - 144	13C-2,3,7,8-TCDF	90.8	24 - 169
2,3,7,8-TCDF	10.0	10.2	7.5 - 15.8	13C-1,2,3,7,8-PeCDF	83.2	24 - 185
1,2,3,7,8-PeCDF	50.0	50.9	40 - 67	13C-2,3,4,7,8-PeCDF	81.4	21 - 178
2,3,4,7,8-PeCDF	50.0	50.9	34 - 80	13C-1,2,3,4,7,8-HxCDF	84.8	26 - 152
1,2,3,4,7,8-HxCDF	50.0	50.9	36 - 67	13C-1,2,3,6,7,8-HxCDF	81.8	26 - 123
1,2,3,6,7,8-HxCDF	50.0	51.5	42 - 65	13C-2,3,4,6,7,8-HxCDF	84.2	28 - 136
2,3,4,6,7,8-HxCDF	50.0	50.1	35 - 78	13C-1,2,3,7,8,9-HxCDF	81.1	29 - 147
1,2,3,7,8,9-HxCDF	50.0	51.3	39 - 65	13C-1,2,3,4,6,7,8-HpCDF	76.4	28 - 143
1,2,3,4,6,7,8-HpCDF	50.0	51.0	41 - 61	13C-1,2,3,4,7,8,9-HpCDF	81.1	26 - 138
1,2,3,4,7,8,9-HpCDF	50.0	50.6	39 - 69	13C-OCDF	67.5	17 - 157
OCDF	100	105	63 - 170	CRS 37Cl-2,3,7,8-TCDD	90.9	35 - 197

Analyst: JMH

Approved By: Martha M. Maier 07-Mar-2009 08:19

Sample ID: ISB1806-01		EPA Method 1613					
Client Data		Sample Data		Laboratory Data			
Name:	Testf. America-Irvine, CA	Matrix:	Aqueous	Lab Sample:	31443-001		
Project:	ISB1806	Sample Size:	1.03 L	QC Batch No.:	1907		
Date Collected:	16-Feb-09			Date Analyzed DB-5:	24-Feb-09		
Time Collected:	1420			Date Analyzed DB-225:	NA		
Date Received:	18-Feb-09			Date Extracted:	21-Feb-09		
Analyte	Conc. (ug/L)	DL <sup>a</sup>	EMPC <sup>b</sup>	Labeled Standard	%R	LCL-UCL <sup>d</sup>	Qualifiers
2,3,7,8-TCDD	ND	0.000000439		IS 13C-2,3,7,8-TCDD	85.1	25 - 164	
1,2,3,7,8-PeCDD	ND	0.000000915		13C-1,2,3,7,8-PeCDD	76.0	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.00000118		13C-1,2,3,4,7,8-HxCDD	79.6	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.00000111		13C-1,2,3,6,7,8-HxCDD	78.7	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.00000110		13C-1,2,3,4,6,7,8-HpCDD	71.9	23 - 140	
1,2,3,4,6,7,8-HpCDD	0.00000398		J	13C-OCDD	61.1	17 - 157	
OCDD	0.0000215		J	13C-2,3,7,8-TCDF	94.0	24 - 169	
2,3,7,8-TCDF	ND	0.000000467		13C-1,2,3,7,8-PeCDF	81.5	24 - 185	
1,2,3,7,8-PeCDF	ND	0.000000557		13C-2,3,4,7,8-PeCDF	80.2	21 - 178	
2,3,4,7,8-PeCDF	ND	0.000000593		13C-1,2,3,4,7,8-HxCDF	85.6	26 - 152	
1,2,3,4,7,8-HxCDF	ND	0.000000547		13C-1,2,3,6,7,8-HxCDF	77.7	26 - 123	
1,2,3,6,7,8-HxCDF	ND	0.000000541		13C-2,3,4,6,7,8-HxCDF	82.2	28 - 136	
2,3,4,6,7,8-HxCDF	ND	0.000000642		13C-1,2,3,7,8,9-HxCDF	77.7	29 - 147	
1,2,3,7,8,9-HxCDF	ND	0.000000921		13C-1,2,3,4,6,7,8-HpCDF	71.7	28 - 143	
1,2,3,4,6,7,8-HpCDF	ND	0.00000131		13C-1,2,3,4,7,8,9-HpCDF	74.9	26 - 138	
1,2,3,4,7,8,9-HpCDF	ND	0.00000145		13C-OCDF	60.3	17 - 157	
OCDF	0.00000306		J	CRS 37Cl-2,3,7,8-TCDD	89.7	35 - 197	
Totals							
Total TCDD	ND	0.000000439					
Total PeCDD	ND	0.000000915					
Total HxCDD	ND	0.00000113					
Total HpCDD	0.00000398						
Total TCDF	ND	0.000000467					
Total PeCDF	ND	0.000000575					
Total HxCDF	ND	0.000000663					
Total HpCDF	ND	0.00000138					
Footnotes							
a. Sample specific estimated detection limit.							
b. Estimated maximum possible concentration.							
c. Method detection limit.							
d. Lower control limit - upper control limit.							

Analyst: JMH

Approved By: Martha M. Maier 07-Mar-2009 08:19

## **APPENDIX**

## DATA QUALIFIERS & ABBREVIATIONS

<b>B</b>	<b>This compound was also detected in the method blank.</b>
<b>D</b>	<b>Dilution</b>
<b>E</b>	<b>The amount detected is above the High Calibration Limit.</b>
<b>P</b>	<b>The amount reported is the maximum possible concentration due to possible chlorinated diphenylether interference.</b>
<b>H</b>	<b>The signal-to-noise ratio is greater than 10:1.</b>
<b>I</b>	<b>Chemical Interference</b>
<b>J</b>	<b>The amount detected is below the Low Calibration Limit.</b>
<b>*</b>	<b>See Cover Letter</b>
<b>Conc.</b>	<b>Concentration</b>
<b>DL</b>	<b>Sample-specific estimated detection limit</b>
<b>MDL</b>	<b>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.</b>
<b>EMPC</b>	<b>Estimated Maximum Possible Concentration</b>
<b>NA</b>	<b>Not applicable</b>
<b>RL</b>	<b>Reporting Limit – concentrations that correspond to low calibration point</b>
<b>ND</b>	<b>Not Detected</b>
<b>TEQ</b>	<b>Toxic Equivalency</b>

**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	CA413-2008
State of Arizona	AZ0639
State of Arkansas, DEQ	08-043-0
State of Arkansas, DOH	Reciprocity through CA
State of California – NELAP Primary AA	02102CA
State of Colorado	N/A
State of Connecticut	PH-0182
State of Florida, DEP	E87777
State of Indiana Department of Health	C-CA-02
Commonwealth of Kentucky	90063
State of Louisiana, Health and Hospitals	LA08000
State of Louisiana, DEQ	01977
State of Maine	2008024
State of Michigan	9932
State of Mississippi	Reciprocity through CA
Naval Facilities Engineering Service Center	NFESC413
State of Nevada	CA004132007A
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	CA200001-006
State of Pennsylvania	68-00490
State of South Carolina	87002001
State of Tennessee	TN02996
State of Texas	T104704189-08-TX
U.S. Army Corps of Engineers	N/A
State of Utah	CA16400
Commonwealth of Virginia	00013
State of Washington	C1285
State of Wisconsin	998036160
State of Wyoming	8TMS-Q

SUBCONTRACT ORDER

TestAmerica Irvine

ISB1806

31443

SENDING LABORATORY:

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

RECEIVING LABORATORY:

Vista Analytical Laboratory- SUB  
1104 Windfield Way  
El Dorado Hills, CA 95762  
Phone : (916) 673-1520  
Fax: (916) 673-0106  
Project Location: CA - CALIFORNIA  
Receipt Temperature: 3.9 °C

Ice: Y N

Analysis	Units	Due	Expires	Comments
Sample ID: ISB1806-01	Water		Sampled: 02/16/09 14:20	
1613-Dioxin-HR-Alta	ug/l	02/25/09	02/23/09 14:20	J flags, 17 congeners, no TEQ, ug/L, sub=Vista
Level 4 + EDD-OUT	N/A	02/25/09	03/16/09 14:20	Excel EDD email to pm, Include Std logs for Lvl IV
<i>Containers Supplied:</i>				
1 L Amber (AA)	1 L Amber (AB)			

NPDES - 3530

[Signature] 2/17/09 17:00  
Released By Date/Time

FedEx 2/17/09 17:00  
Received By Date/Time

Released By Date/Time

[Signature] 2/18/09 15:00  
Received By Date/Time



SAMPLE LOG-IN CHECKLIST



Vista Project #: 31443

TAT unspecified

Samples Arrival:	Date/Time 2/18/09 0950	Initials: C	Location: WR2
			Shelf/Rack: N/A
Logged In:	Date/Time 2/18/09 1500	Initials: C	Location: WR2
			Shelf/Rack: CA
Delivered By:	<u>FedEx</u>	UPS	Cal
		DHL	Hand Delivered
		Other	
Preservation:	<u>Ice</u>	Blue Ice	Dry Ice
		None	
Temp °C	3.9°	Time: 0959	Thermometer ID: IR-1

	YES	NO	NA
Adequate Sample Volume Received? (A & B bottles)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Holding Time Acceptable?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Shipping Container(s) Intact?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Shipping Custody Seals Intact?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Shipping Documentation Present?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Airbill			
Trk # 7963 5046 4802	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Sample Container Intact?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Sample Custody Seals Intact?			<input checked="" type="checkbox"/>
Chain of Custody / Sample Documentation Present?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
COC Anomaly/Sample Acceptance Form completed?			<input checked="" type="checkbox"/>
If Chlorinated or Drinking Water Samples, Acceptable Preservation?			<input checked="" type="checkbox"/>
Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> Preservation Documented?			<u>None</u>
	COC	Sample Container	
Shipping Container	Vista	<u>Client</u>	Retain
			<u>Return</u>
			Dispose

Comments: