

APPENDIX

DATA QUALIFIERS & ABBREVIATIONS

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

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

CERTIFICATIONS

Accrediting Authority	Certificate Number
State of Alaska, DEC	CA413-2008
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
IRK2832

31222

SENDING LABORATORY:

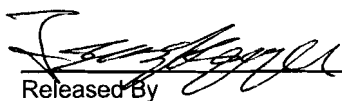
TestAmerica Irvine
17461 Derian Avenue, Suite 100
Irvine, CA 92614
Phone: (949) 261-1022
Fax: (949) 260-3297
Project Manager: Joseph Doak

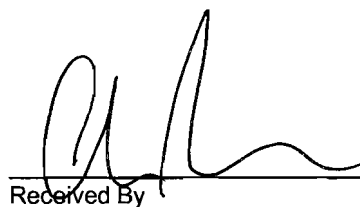
RECEIVING LABORATORY:

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: 1.8 °C

Ice: Y N

Analysis	Units	Due	Expires	Comments
Sample ID: IRK2832-01	Water			Instant Notification
1613-Dioxin-HR-Alta	ug/l	12/09/08	12/03/08 09:15	J flags, 17 congeners, no TEQ, ug/L, sub=Vista
Level 4 Data Package - Out	N/A	12/09/08	12/24/08 09:15	
<i>Containers Supplied:</i>				
1 L Amber (C)	1 L Amber (D)			

 11/28/08 17:00
Released By Date/Time

 11/24/08 10:46
Received By Date/Time

Released By Date/Time

Received By Date/Time

SAMPLE LOG-IN CHECKLIST



Vista Project #: 31222

TAT unspecific

Samples Arrival:	Date/Time 11/29/08 0859	Initials: DB	Location: WR-2
			Shelf/Rack: N/A
Logged In: <u>WJW/08</u>	Date/Time 11/29/08 1016 12/1/08 0836	Initials: CW	Location: WR2 Shelf/Rack: B-3 B1
Delivered By:	<u>FedEx</u>	UPS	Cal
		DHL	Hand Delivered
		Other	
Preservation:	<u>Ice</u>	Blue Ice	Dry Ice
		None	
Temp °C	1.8	Time: 0904	Thermometer ID: IR-1

	YES	NO	NA
Adequate Sample Volume Received? (A+B bottles)	✓		
Holding Time Acceptable?	✓		
Shipping Container(s) Intact?	✓		
Shipping Custody Seals Intact?	✓		
Shipping Documentation Present?	✓		
Airbill	Trk # 7961 4775 5447	✓	
Sample Container Intact?	✓		
Sample Custody Seals Intact?			✓
Chain of Custody / Sample Documentation Present?	✓		
COC Anomaly/Sample Acceptance Form completed?			✓
If Chlorinated or Drinking Water Samples, Acceptable Preservation?			✓
Na ₂ S ₂ O ₃ Preservation Documented?			None
Shipping Container	Vista	<u>Client</u>	Retain
			<u>Return</u>
			Dispose

Comments:

APPENDIX G

Section 16

Outfall 010 - BMP Effectiveness, November 26, 2008

Test America Analytical Laboratory Report

LABORATORY REPORT

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

Project: BMP Effectiveness
Monitoring Program

Sampled: 11/26/08
Received: 11/26/08
Issued: 12/09/08 15:01

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 of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

LABORATORY ID

IRK2851-01

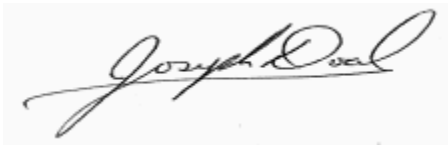
CLIENT ID

010 EFF-1

MATRIX

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: BMP Effectiveness
Monitoring Program
Report Number: IRK2851

Sampled: 11/26/08
Received: 11/26/08

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRK2851-01 (010 EFF-1 - Water)									
Reporting Units: g/cc									
Density	Displacement	8L09076	N/A	NA	0.99	1	12/09/08	12/09/08	
Sample ID: IRK2851-01 (010 EFF-1 - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	8L09085	10	10	ND	1	12/09/08	12/09/08	

TestAmerica Irvine

Joseph Doak
Project Manager

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IRK2851 <Page 2 of 5>

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

Project ID: BMP Effectiveness
Monitoring Program
Report Number: IRK2851

Sampled: 11/26/08
Received: 11/26/08

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8L09076 Extracted: 12/09/08										
Duplicate Analyzed: 12/09/2008 (8L09076-DUP1)										
Density	1.01	NA	N/A	g/cc		Source: IRK2873-01 1.01		0	20	

TestAmerica Irvine

Joseph Doak
Project Manager

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Report Number: IRK2851

Sampled: 11/26/08
Received: 11/26/08

DATA QUALIFIERS AND DEFINITIONS

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

TestAmerica Irvine

Joseph Doak
Project Manager

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IRK2851 <Page 4 of 5>

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Attention: Bronwyn Kelly

Project ID: BMP Effectiveness
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Report Number: IRK2851

Sampled: 11/26/08
Received: 11/26/08

Certification Summary

TestAmerica Irvine

Method	Matrix	Nelac	California
ASTM D3977	Water		
Displacement	Water		

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

TestAmerica Irvine

Joseph Doak
Project Manager

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Client Name/Address: MWH-Arcadia 618 Michillinda Avenue, Suite 200 Arcadia, CA 91007		Project: Boeing BMP Effectiveness Monitoring Program		Phone Number: (626) 568-6691 Fax Number: (626) 568-6515		Field readings: Temp = <i>N/A</i> pH = <i>N/A</i> Time of readings = <i>N/A</i>		
Test America Contact: Joseph Doak Project Manager: Bronwyn Kelly Sampler: <i>R. Banagan</i>		Suspended Sediment Concentration (SSC, ASTM- D3977-1997)		ANALYSIS REQUIRED				Comments
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #		
010 EFF-1	W	500 mL Poly	1	<i>11/26/08-0915</i>	None	1	X	
010 EFF-2	W	500 mL Poly	1		None	2	X	
010 EFF-3	W	500 mL Poly	1		None	3	X	
010 EFF-4	W	500 mL Poly	1		None	4	X	
010 EFF-5	W	500 mL Poly	1		None	5	X	
010 EFF-6	W	500 mL Poly	1		None	6	X	
010 EFF-7	W	500 mL Poly	1		None	7	X	
010 EFF-8	W	500 mL Poly	1		None	8	X	
010 EFF-9	W	500 mL Poly	1		None	9	X	
010 EFF-10	W	500 mL Poly	1		None	10	X	
010 EFF-11	W	500 mL Poly	1		None	11	X	
010 EFF-12	W	500 mL Poly	1		None	12	X	
010 EFF-13	W	500 mL Poly	1		None	13	X	
010 EFF-14	W	500 mL Poly	1		None	14	X	
010 EFF-15	W	500 mL Poly	1		None	15	X	
010 EFF-16	W	500 mL Poly	1		None	16	X	
010 EFF-17	W	500 mL Poly	1		None	17	X	
010 EFF-18	W	500 mL Poly	1		None	18	X	
010 EFF-19	W	500 mL Poly	1		None	19	X	
010 EFF-20	W	500 mL Poly	1		None	20	X	
010 EFF-21	W	500 mL Poly	1		None	21	X	
010 EFF-22	W	500 mL Poly	1		None	22	X	
010 EFF-23	W	500 mL Poly	1		None	23	X	
010 EFF-24	W	500 mL Poly	1		None	24	X	
Relinquished By <i>Tim Biny</i> Date/Time: <i>11-26-08 1420</i>				Received By <i>Shweneen TAT</i> Date/Time: <i>11/26/08 1420</i>				Turn around Time: (check) 24 Hours _____ 5 Days _____
Relinquished By <i>Shweneen TAT</i> Date/Time: <i>11/26/08 2045</i>				Received By <i>Shweneen TAT</i> Date/Time: <i>11-26-08 2045</i>				48 Hours _____ 10 Days _____
Relinquished By _____ Date/Time: _____				Received By _____ Date/Time: _____				72 Hours _____ Normal _____
Relinquished By _____ Date/Time: _____				Received By _____ Date/Time: _____				Sample Integrity: (check) Intact <input checked="" type="checkbox"/> On Ice: <input type="checkbox"/>

EW

C

APPENDIX G

Section 17

Outfall 010, December 15, 2008

MEC^X Data Validation Reports



DATA VALIDATION REPORT

Boeing SSFL NPDES

SAMPLE DELIVERY GROUP: IRL1710

Prepared by

MEC^x, LP
12269 East Vassar Drive
Aurora, CO 80014

I. INTRODUCTION

Task Order Title: Boeing SSFL NPDES
 Contract Task Order: 1261.100D.00
 Sample Delivery Group: IRL1710
 Project Manager: B. Kelly
 Matrix: Water
 QC Level: IV
 No. of Samples: 1
 No. of Reanalyses/Dilutions: 0
 Laboratory: TestAmerica-Irvine

Table 1. Sample Identification

Client ID	Laboratory ID	Sub-Laboratory ID	Matrix	Collected	Method
Outfall 010	IRL1710-01	D8L170248-001, 31264-001, F8L170170-001	Water	12/15/08 1050	245.1, 245.1 (Diss.), 900.0, 901.1, 903.0, 904.0, 905.0, 906.0, 908.0, 1613B

II. Sample Management

No anomalies were observed regarding sample management. The samples were received at TestAmerica-Irvine, TestAmerica-St. Louis, and Vista within the temperature limit of $4 \pm 2^{\circ}\text{C}$ and received at TestAmerica-Denver below the control limit; however, the samples were not noted to be damaged or frozen. According to the case narrative for this SDG, the samples were received intact at all laboratories. The COCs were appropriately signed and dated by field and/or laboratory personnel. As the sample was couriered to TestAmerica-Irvine, custody seals were not required. Custody seals were intact upon arrival at TestAmerica-Denver, TestAmerica-St. Louis, and Vista. If necessary, the client ID was added to the sample result summary by the reviewer.

Data Qualifier Reference Table

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

Qualification Code Reference Table

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

Qualification Code Reference Table Cont.

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

III. Method Analyses

A. EPA METHOD 1613—Dioxin/Furans

Reviewed By: S. Dellamia

Date Reviewed: January 21, 2009

The sample listed in Table 1 for this analysis was validated based on the guidelines outlined in the *MEC^x Data Validation Procedure for Dioxins and Furans (DVP-19, Rev. 0)*, *USEPA Method 1613*, and the *National Functional Guidelines Chlorinated Dioxin/Furan Data Review (8/02)*.

- Holding Times: Extraction and analytical holding times were met. The water sample was extracted and analyzed within one year of collection.
- Instrument Performance: Instrument performance criteria were met. Following are findings associated with instrument performance.
 - GC Column Performance: A Windows Defining Mix (WDM) containing the first and last eluting congeners of each descriptor and isomer specificity compounds was not analyzed prior to the initial calibration sequence or at the beginning of each analytical sequence; however, the first and last eluting congeners and isomer specificity compounds were added to the midpoint of the initial calibration and to the continuing calibration standards. The GC column performance in the calibrations was acceptable, with the height of the valley between the closely eluting isomers and 2,3,7,8-TCDD reported as less than 25%.
 - Mass Spectrometer Performance: The mass spectrometer performance was acceptable with the static resolving power greater than 10,000.
- Calibration: Calibration criteria were met.
 - Initial Calibration: Initial calibration criteria were met. The initial calibration was acceptable with %RSDs $\leq 20\%$ for the 16 native compounds (calibration by isotope dilution) and $\leq 35\%$ for the one native and all labeled compounds (calibration by internal standard). The relative retention times and ion abundance ratios were within the Method 1613 QC limits for all standards.
 - Continuing Calibration: Calibration verification (VER) consisted of a mid-level standard (CS3) analyzed at the beginning of each analytical sequence. The VERs were acceptable with the concentrations within the acceptance criteria listed in Table 6 of EPA Method 1613. The ion abundance ratios and relative retention times were within the method QC limits.
- Blanks: The method blank had no target compound detects above the EDL.

- Blank Spikes and Laboratory Control Samples: Recoveries were within the acceptance criteria listed in Table 6 of Method 1613.
- Field QC Samples: Field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. Any remaining detects were used to evaluate the associated site samples. Following are findings associated with field QC samples:
 - Field Blanks and Equipment Rinsates: This SDG had no identified field blank or equipment rinsate samples.
 - Field Duplicates: There were no field duplicate samples identified for this SDG.
- Internal Standards Performance: The labeled standard recoveries were within the acceptance criteria listed in Table 7 of Method 1613.
- Compound Identification: Compound identification was verified. The laboratory analyzed for polychlorinated dioxins/furans by EPA Method 1613.
- Compound Quantification and Reported Detection Limits: Compound quantitation was verified by recalculating any sample detects and a representative number of blank spike concentrations. The laboratory calculated and reported compound-specific detection limits. Total HpCDD detected in sample Outfall010 below the laboratory lower calibration level were qualified as estimated, “J,” and coded with “DNQ,” in order to comply with the NPDES permit. The EMPC value for Total HpCDF in sample Outfall 010 was qualified as an estimated nondetect, “UJ.” Nondetects are valid to the estimated detection limit (EDL).

B. EPA METHOD 245.1—Mercury

Reviewed By: P. Meeks

Date Reviewed: January 6, 2009

The sample listed in Table 1 for this analysis was validated based on the guidelines outlined in the *MEC^x Data Validation Procedure for Metals (DVP-5, Rev. 0 and DVP-21, Rev. 0)*, *EPA Method 245.1*, and the *National Functional Guidelines for Inorganic Data Review (10/04)*.

- Holding Times: The analytical holding time, 28 days for mercury, was met.
- Tuning: Not applicable to this method.
- Calibration: Calibration criteria were met. The mercury initial calibration r^2 value was ≥ 0.995 and all initial and continuing calibration recoveries were within 85-115%. The CRA and check standard were recovered within the control limit of 70-130%.

- Blanks: There were no applicable detects in the method blanks or CCBs.
- Interference Check Samples: Not applicable to this method.
- Blank Spikes and Laboratory Control Samples: The recovery was within the laboratory-established QC limits.
- Laboratory Duplicates: No laboratory duplicate analyses were performed on the sample in this SDG.
- Matrix Spike/Matrix Spike Duplicate: No MS/MSD analyses were performed on the sample in this SDG. Method accuracy was evaluated based on LCS results.
- Serial Dilution: No serial dilution analyses were performed on the sample in this SDG.
- Internal Standards Performance: Not applicable to this method.
- Sample Result Verification: Calculations were verified and the sample results reported on the sample result summaries were verified against the raw data. No transcription errors or calculation errors were noted. Detects reported below the reporting limit were qualified as estimated, "J," and coded with "DNQ," in order to comply with the NPDES permit. Reported nondetects are valid to the MDL.
- Field QC Samples: Field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. Any remaining detects were used to evaluate the associated site samples. Following are findings associated with field QC samples:
 - Field Blanks and Equipment Rinsates: This SDG had no identified field blank or equipment rinsate samples.
 - Field Duplicates: There were no field duplicate samples identified for this SDG.

C. VARIOUS EPA METHODS — Radionuclides

Reviewed By: P. Meeks

Date Reviewed: January 26, 2009

The sample listed in Table 1 for this analysis was validated based on the guidelines outlined in the *EPA Methods 900.0, 901.1, 903.1, 904.0, 905.0, and 906.0, ASTM Method D-5174, and the National Functional Guidelines for Inorganic Data Review (2/94)*.

- Holding Times: The tritium sample was analyzed within 180 days of collection. Aliquots for gross alpha, gross beta radium-226, radium-228, strontium-90, and total uranium were prepared within the five-day holding time for unpreserved samples. The aliquot for

gamma spectroscopy was prepared beyond the five-day holding time for unpreserved samples; therefore, the nondetected results for these analytes were qualified as estimated, "UJ."

- Calibration: The laboratory calibration information included the standard certificates and applicable preparation/dilutions logs for NIST-traceability.

The gross alpha detector efficiency was less than 20%; therefore, the nondetected gross alpha in the sample was qualified as estimated, "UJ." The gross beta detector efficiency was greater than 20%.

The tritium aliquot was spiked for efficiency determination; therefore, no calibration was necessary. The tritium detector efficiency for the sample was at least 20% and was considered acceptable. The strontium chemical yield was marginally less than 60%, at 59%, but was considered acceptable. The strontium and radium-226 continuing calibration results were within the laboratory control limits. The radium-228 tracer, yttrium oxalate, yields were greater than 70%. The gamma spectroscopy analytes were determined at the maximum photopeak energy. The kinetic phosphorescence analyzer (KPA) was calibrated immediately prior to the sample analysis. All KPA calibration check standard recoveries were within 90-110% and were deemed acceptable.

- Blanks: Radium-226 and radium-228 were detected in the method blanks but were not detected in the sample. There were no other analytes detected in the method blanks.
- Blank Spikes and Laboratory Control Samples: The radium-226 LCS recovery was 52%; therefore, the nondetected result for radium-226 was qualified as estimated, "UJ." The radium-226 and radium-228 LCS/LCSD RPDs were 53% and 38%, respectively; therefore, the nondetected results for radium-226 and radium-228 were qualified as estimated, "UJ." The remaining recoveries and the strontium-90 RPD were within laboratory-established control limits.
- Laboratory Duplicates: No duplicate analyses were performed on the sample in this SDG.
- Matrix Spike/Matrix Spike Duplicate: A matrix spike analysis was performed on the sample in this SDG for tritium. The recovery was within the laboratory established control limits.
- Sample Result Verification: An EPA Level IV review was performed for the sample in this data package. The sample results and MDAs reported on the sample result form were verified against the raw data and no calculation or transcription errors were noted. Total uranium, normally reported in aqueous units, was converted to pCi/L using a conversion factor for naturally occurring uranium. Detects reported below the reporting limit were qualified as estimated, "J," and coded with "DNQ," in order to comply with the NPDES permit. Reported nondetects are valid to the MDA.
- Field QC Samples: Field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC

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

- Field Blanks and Equipment Rinsates: This SDG had no identified field blank or equipment rinsate samples.
- Field Duplicates: There were no field duplicate samples identified for this SDG.

Sample ID: IRL1710-01		EPA Method 1613					
Client Data		Laboratory Data					
Name: Test American-Irvine, CA	Matrix: Aqueous	Lab Sample: 31264-001	Date Received: 17-Dec-08				
Project: IRL1710	Sample Size: 1.02 L	QC Batch No: 1770	Date Extracted: 17-Dec-08				
Date Collected: 15-Dec-08		Date Analyzed DB-5: 18-Dec-08	Date Analyzed DB-25: NA				
Time Collected: 1050							
Analyte	Conc. (ug/L)	DL ^a	EMPC ^b	Qualifiers	%R	LCL-UC ^d	Qualifiers
2,3,7,8-TCDD	ND	0.000000544			97.8	25 - 164	
1,2,3,7,8-PeCDD	ND	0.00000167			105	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.00000288			84.2	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.00000257			94.0	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.00000252			86.9	23 - 140	
1,2,3,4,6,7,8-HpCDD	ND	0.00001123			71.2	17 - 157	
OCDD	0.0000601				95.3	24 - 169	
2,3,7,8-TCDF	ND	0.000000540			95.9	24 - 185	
1,2,3,7,8-PeCDF	ND	0.00000112			97.1	21 - 178	
2,3,4,7,8-PeCDF	ND	0.00000117			91.9	26 - 152	
1,2,3,4,7,8-HxCDF	ND	0.000000771			85.8	26 - 123	
1,2,3,6,7,8-HxCDF	ND	0.000000898			84.1	28 - 136	
2,3,4,6,7,8-HxCDF	ND	0.00000110			89.1	29 - 147	
1,2,3,7,8,9-HxCDF	ND	0.00000167			84.6	28 - 143	
1,2,3,4,6,7,8-HpCDF	ND	0.00000269			83.9	26 - 138	
1,2,3,4,7,8,9-HpCDF	ND	0.00000330			73.2	17 - 157	
OCDF	ND	0.0000127			90.6	35 - 197	
Totals							
Total TCDD	ND	0.000000544					
Total PeCDD	ND	0.00000167					
Total HxCDD	ND	0.00000265					
Total HpCDD	0.00000814	5/12/08					
Total TCDF	ND	0.000000540					
Total PeCDF	ND	0.00000252					
Total HxCDF	ND	0.00000107					
Total HpCDF	ND	0.00000427					
Footnotes							
a. Sample specific estimated detection limit.							
b. Estimated maximum possible concentration.							
c. Method detection limit.							
d. Lower control limit - upper control limit.							

Analyst: MAS

Approved By: William J. Luksemburg

19-Dec-2008 11:18

LEVEL IV

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

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

Project ID: Routine Outfall 010

Report Number: IRL1710

Sampled: 12/15/08
Received: 12/15/08

MCAWW 245.1

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRL1710-01 (Outfall 010 - Water) - cont.									
Reporting Units: ug/L									
Mercury	U	MCAWW 245.1	8353495	0.027	0.2	ND	1	12/18/08	12/18/08

LEVEL IV

TestAmerica Irvine

Joseph Doak
Project Manager

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

Project ID: Routine Outfall 010
Report Number: IRL1710

Sampled: 12/15/08
Received: 12/15/08

MCAWW 245.1-Diss

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRL1710-01 (Outfall 010 - Water) - cont.									
Reporting Units: ug/L									
Mercury-diss	MCAWW 245.1-Diss	8353517	0.027	0.2	ND	1	12/18/08	12/18/08	

LEVEL IV

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Project Manager

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Outfall 010
 TestAmerica Irvine

Client Sample ID: IRL1710-01

Radiochemistry

Lab Sample ID: F8L170170-001
 Work Order: K4VKX
 Matrix: WATER

Date Collected: 12/15/08 1050
 Date Received: 12/17/08 0930

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	RL	mdc	Prep Date	Analysis Date
Gamma Cs-137 & Hits by EPA 901.1 MOD							
Cesium 137	UJ/H -1.1	U	8.5	20.0	16	12/24/08	01/10/09
Potassium 40	LL -90	U	590		250	12/24/08	01/10/09
Gross Alpha/Beta EPA 900							
Gross Alpha	UJ/R 0.39	U	0.91	3.00	1.6	12/18/08	12/21/08
Gross Beta	4.51		0.96	4.00	0.94	12/18/08	12/21/08
Radium 226 by EPA 903.0 MOD							
Radium (226)	UJ/L, III 0.048	U	0.046	1.00	0.070	12/17/08	01/12/09
Radium 228 by GFPC EPA 904 MOD							
Radium 228	UJ/III -0.07	U	0.26	1.00	0.48	12/17/08	01/09/09
TRITIUM (Distill) by EPA 906.0 MOD							
Tritium	U 10	U	190	500	340	01/12/09	01/13/09
SR-90 BY GFPC EPA-905 MOD							
Strontium 90	U 0.22	U	0.45	3.00	0.76	12/17/08	01/10/09
Total Uranium by KPA ASTM 5174-91							
Total Uranium	U 0.156	U	0.016	0.693	0.21	12/19/08	12/21/08

LEVEL IV

NOTE(S)

- Data are incomplete without the case narrative.
- MDC is determined by instrument performance only.
- Bold results are greater than the MDC.
- U Result is less than the sample detection limit.

APPENDIX G

Section 18

Outfall 010, December 15, 2008

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 010

Sampled: 12/15/08
Received: 12/15/08
Issued: 01/29/09 14:05

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 of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

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

ADDITIONAL INFORMATION: This report has been revised to correct the Total Uranium units to pCi/L per client request (the original incorrect report from TestAmerica St. Louis Laboratory has been removed).

LABORATORY ID

IRL1710-01

CLIENT ID

Outfall 010

MATRIX

Water

Reviewed By:



TestAmerica Irvine

Trupti Mistry For Joseph Doak
Project Manager

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

Project ID: Routine Outfall 010

Report Number: IRL1710

Sampled: 12/15/08

Received: 12/15/08

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRL1710-01 (Outfall 010 - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	8L16092	0.20	2.0	0.36	1	12/16/08	12/17/08	J
Cadmium	EPA 200.8	8L16092	0.11	1.0	ND	1	12/16/08	12/17/08	
Copper	EPA 200.8	8L16092	0.75	2.0	1.5	1	12/16/08	12/17/08	J
Lead	EPA 200.8	8L16092	0.30	1.0	0.53	1	12/16/08	12/17/08	J
Thallium	EPA 200.8	8L16092	0.20	1.0	ND	1	12/16/08	12/17/08	

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

Project ID: Routine Outfall 010

Report Number: IRL1710

Sampled: 12/15/08

Received: 12/15/08

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRL1710-01 (Outfall 010 - Water) - cont.									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	8L17121	0.20	2.0	0.52	1	12/17/08	12/18/08	B, J
Cadmium	EPA 200.8-Diss	8L17121	0.11	1.0	ND	1	12/17/08	12/18/08	
Copper	EPA 200.8-Diss	8L17121	0.75	2.0	1.1	1	12/17/08	12/18/08	B, J
Lead	EPA 200.8-Diss	8L17121	0.30	1.0	ND	1	12/17/08	12/18/08	
Thallium	EPA 200.8-Diss	8L17121	0.20	1.0	ND	1	12/17/08	12/18/08	

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MWH-Pasadena/Boeing
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 Attention: Bronwyn Kelly

Project ID: Routine Outfall 010

Report Number: IRL1710

Sampled: 12/15/08

Received: 12/15/08

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRL1710-01 (Outfall 010 - Water) - cont.									
Reporting Units: mg/l									
Hexane Extractable Material (Oil & Grease)	EPA 1664A	8L19123	1.3	4.8	3.3	1	12/19/08	12/19/08	B, J
Chloride	EPA 300.0	8L15075	2.5	5.0	32	10	12/15/08	12/16/08	
Nitrate/Nitrite-N	EPA 300.0	8L16086	0.15	0.26	1.2	1	12/16/08	12/16/08	
Sulfate	EPA 300.0	8L15075	0.20	0.50	24	1	12/15/08	12/16/08	
Total Dissolved Solids	SM2540C	8L16052	10	10	190	1	12/16/08	12/17/08	

TestAmerica Irvine

Trupti Mistry For Joseph Doak
 Project Manager

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

Project ID: Routine Outfall 010

Report Number: IRL1710

Sampled: 12/15/08

Received: 12/15/08

DIOXIN (EPA 1613)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRL1710-01 (Outfall 010 - Water) - cont.									
Reporting Units: ug/L									
2,3,7,8-TCDD	1613-Dioxin-HR Alta	1770	0.00000540	0.0000488	ND	1	12/17/08	12/18/08	
1,2,3,7,8-PeCDD	1613-Dioxin-HR Alta	1770	0.000001670	0.0000244	ND	1	12/17/08	12/18/08	
1,2,3,4,7,8-HxCDD	1613-Dioxin-HR Alta	1770	0.000002880	0.0000244	ND	1	12/17/08	12/18/08	
1,2,3,6,7,8-HxCDD	1613-Dioxin-HR Alta	1770	0.000002570	0.0000244	ND	1	12/17/08	12/18/08	
1,2,3,7,8,9-HxCDD	1613-Dioxin-HR Alta	1770	0.000002520	0.0000244	ND	1	12/17/08	12/18/08	
1,2,3,4,6,7,8-HpCDD	1613-Dioxin-HR Alta	1770	0.0000123	0.0000244	ND	1	12/17/08	12/18/08	
OCDD	1613-Dioxin-HR Alta	1770	0.000002450	0.0000488	0.0000601	1	12/17/08	12/18/08	
2,3,7,8-TCDF	1613-Dioxin-HR Alta	1770	0.000000540	0.0000488	ND	1	12/17/08	12/18/08	
1,2,3,7,8-PeCDF	1613-Dioxin-HR Alta	1770	0.000001120	0.0000244	ND	1	12/17/08	12/18/08	
2,3,4,7,8-PeCDF	1613-Dioxin-HR Alta	1770	0.000001170	0.0000244	ND	1	12/17/08	12/18/08	
1,2,3,4,7,8-HxCDF	1613-Dioxin-HR Alta	1770	0.000000770	0.0000244	ND	1	12/17/08	12/18/08	
1,2,3,6,7,8-HxCDF	1613-Dioxin-HR Alta	1770	0.000000890	0.0000244	ND	1	12/17/08	12/18/08	
2,3,4,6,7,8-HxCDF	1613-Dioxin-HR Alta	1770	0.0000011	0.0000244	ND	1	12/17/08	12/18/08	
1,2,3,7,8,9-HxCDF	1613-Dioxin-HR Alta	1770	0.000001670	0.0000244	ND	1	12/17/08	12/18/08	
1,2,3,4,6,7,8-HpCDF	1613-Dioxin-HR Alta	1770	0.000002690	0.0000244	ND	1	12/17/08	12/18/08	
1,2,3,4,7,8,9-HpCDF	1613-Dioxin-HR Alta	1770	0.0000033	0.0000244	ND	1	12/17/08	12/18/08	
OCDF	1613-Dioxin-HR Alta	1770	0.0000127	0.0000488	ND	1	12/17/08	12/18/08	
Total TCDD	1613-Dioxin-HR Alta	1770	0.000005440	0.0000488	ND	1	12/17/08	12/18/08	
Total PeCDD	1613-Dioxin-HR Alta	1770	0.00000167	0.0000244	ND	1	12/17/08	12/18/08	
Total HxCDD	1613-Dioxin-HR Alta	1770	0.00000252	0.0000244	ND	1	12/17/08	12/18/08	
Total HpCDD	1613-Dioxin-HR Alta	1770	0.0000123	0.0000244	0.00000814	1	12/17/08	12/18/08	
Total TCDF	1613-Dioxin-HR Alta	1770	0.000000540	0.0000488	ND	1	12/17/08	12/18/08	
Total PeCDF	1613-Dioxin-HR Alta	1770	0.00000112	0.0000244	ND	1	12/17/08	12/18/08	
Total HxCDF	1613-Dioxin-HR Alta	1770	0.000000770	0.0000244	ND	1	12/17/08	12/18/08	
Total HpCDF	1613-Dioxin-HR Alta	1770	0.00000269	0.0000244	ND	1	12/17/08	12/18/08	

Surrogate: 13C-2,3,7,8-TCDD (25-164%)	97.8 %
Surrogate: 13C-1,2,3,7,8-PeCDD (25-181%)	105 %
Surrogate: 13C-1,2,3,4,7,8-HxCDD (32-141%)	84.2 %
Surrogate: 13C-1,2,3,6,7,8-HxCDD (28-130%)	94 %
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD (23-140%)	86.9 %
Surrogate: 13C-OCDD (17-157%)	71.2 %
Surrogate: 13C-2,3,7,8-TCDF (24-169%)	95.3 %
Surrogate: 13C-1,2,3,7,8-PeCDF (24-185%)	95.9 %
Surrogate: 13C-2,3,4,7,8-PeCDF (21-178%)	97.1 %
Surrogate: 13C-1,2,3,4,7,8-HxCDF (26-152%)	91.9 %
Surrogate: 13C-1,2,3,6,7,8-HxCDF (26-123%)	85.8 %
Surrogate: 13C-2,3,4,6,7,8-HxCDF (28-136%)	84.1 %
Surrogate: 13C-1,2,3,7,8,9-HxCDF (29-147%)	89.1 %
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF (28-143%)	84.6 %
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF (26-138%)	83.9 %
Surrogate: 13C-OCDF (17-157%)	73.2 %

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Trupti Mistry For Joseph Doak
Project Manager

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

Project ID: Routine Outfall 010

Report Number: IRL1710

Sampled: 12/15/08

Received: 12/15/08

DIOXIN (EPA 1613)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRL1710-01 (Outfall 010 - Water) - cont.									
Reporting Units: ug/L									
Surrogate: 37Cl-2,3,7,8-TCDD (35-197%)					90.6 %				

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Project ID: Routine Outfall 010

Report Number: IRL1710

Sampled: 12/15/08

Received: 12/15/08

MCAWW 245.1

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRL1710-01 (Outfall 010 - Water) - cont.									
Reporting Units: ug/L									
Mercury	MCAWW 245.1	8353495	0.027	0.2	ND	1	12/18/08	12/18/08	

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Project ID: Routine Outfall 010

Report Number: IRL1710

Sampled: 12/15/08

Received: 12/15/08

MCAWW 245.1-Diss

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRL1710-01 (Outfall 010 - Water) - cont.									
Reporting Units: ug/L									
Mercury-diss	MCAWW 245.1-Diss	8353517	0.027	0.2	ND	1	12/18/08	12/18/08	

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Attention: Bronwyn Kelly

Project ID: Routine Outfall 010

Report Number: IRL1710

Sampled: 12/15/08

Received: 12/15/08

SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: Outfall 010 (IRL1710-01) - Water EPA 300.0	2	12/15/2008 10:50	12/15/2008 18:15	12/16/2008 13:00	12/16/2008 14:18

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Project Manager

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MWH-Pasadena/Boeing
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 Attention: Bronwyn Kelly

Project ID: Routine Outfall 010

Report Number: IRL1710

Sampled: 12/15/08

Received: 12/15/08

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 8L16092 Extracted: 12/16/08											
Blank Analyzed: 12/17/2008 (8L16092-BLK1)											
Antimony	ND	2.0	0.20	ug/l							
Cadmium	ND	1.0	0.11	ug/l							
Copper	ND	2.0	0.75	ug/l							
Lead	ND	1.0	0.30	ug/l							
Thallium	ND	1.0	0.20	ug/l							
LCS Analyzed: 12/17/2008 (8L16092-BS1)											
Antimony	83.1	2.0	0.20	ug/l	80.0		104	85-115			
Cadmium	81.2	1.0	0.11	ug/l	80.0		101	85-115			
Copper	78.8	2.0	0.75	ug/l	80.0		99	85-115			
Lead	79.1	1.0	0.30	ug/l	80.0		99	85-115			
Thallium	81.4	1.0	0.20	ug/l	80.0		102	85-115			
Matrix Spike Analyzed: 12/17/2008 (8L16092-MS1) Source: IRL1721-01											
Antimony	82.4	2.0	0.20	ug/l	80.0	2.39	100	70-130			
Cadmium	79.8	1.0	0.11	ug/l	80.0	2.50	97	70-130			
Copper	81.9	2.0	0.75	ug/l	80.0	4.87	96	70-130			
Lead	81.9	1.0	0.30	ug/l	80.0	2.16	100	70-130			
Thallium	85.6	1.0	0.20	ug/l	80.0	ND	107	70-130			
Matrix Spike Analyzed: 12/17/2008 (8L16092-MS2) Source: IRL1706-01											
Antimony	84.1	2.0	0.20	ug/l	80.0	0.415	105	70-130			
Cadmium	81.1	1.0	0.11	ug/l	80.0	ND	101	70-130			
Copper	78.8	2.0	0.75	ug/l	80.0	0.930	97	70-130			
Lead	82.0	1.0	0.30	ug/l	80.0	ND	102	70-130			
Thallium	84.1	1.0	0.20	ug/l	80.0	ND	105	70-130			
Matrix Spike Dup Analyzed: 12/17/2008 (8L16092-MSD1) Source: IRL1721-01											
Antimony	86.2	2.0	0.20	ug/l	80.0	2.39	105	70-130	5	20	
Cadmium	82.8	1.0	0.11	ug/l	80.0	2.50	100	70-130	4	20	
Copper	84.2	2.0	0.75	ug/l	80.0	4.87	99	70-130	3	20	
Lead	86.4	1.0	0.30	ug/l	80.0	2.16	105	70-130	5	20	
Thallium	90.1	1.0	0.20	ug/l	80.0	ND	113	70-130	5	20	

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Trupti Mistry For Joseph Doak
 Project Manager

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

Project ID: Routine Outfall 010

Report Number: IRL1710

Sampled: 12/15/08

Received: 12/15/08

METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8L17121 Extracted: 12/17/08											
Blank Analyzed: 12/18/2008 (8L17121-BLK1)											
Antimony	0.481	2.0	0.20	ug/l							J
Cadmium	ND	1.0	0.11	ug/l							
Copper	1.97	2.0	0.75	ug/l							J
Lead	ND	1.0	0.30	ug/l							
Thallium	ND	1.0	0.20	ug/l							
LCS Analyzed: 12/18/2008 (8L17121-BS1)											
Antimony	82.2	2.0	0.20	ug/l	80.0		103	85-115			
Cadmium	81.0	1.0	0.11	ug/l	80.0		101	85-115			
Copper	81.1	2.0	0.75	ug/l	80.0		101	85-115			
Lead	85.0	1.0	0.30	ug/l	80.0		106	85-115			
Thallium	89.6	1.0	0.20	ug/l	80.0		112	85-115			
Matrix Spike Analyzed: 12/18/2008 (8L17121-MS1) Source: IRL1362-01											
Antimony	79.1	2.0	0.20	ug/l	80.0	0.572	98	70-130			
Cadmium	74.4	1.0	0.11	ug/l	80.0	ND	93	70-130			
Copper	72.4	2.0	0.75	ug/l	80.0	1.31	89	70-130			
Lead	75.0	1.0	0.30	ug/l	80.0	ND	94	70-130			
Thallium	79.7	1.0	0.20	ug/l	80.0	ND	100	70-130			
Matrix Spike Dup Analyzed: 12/18/2008 (8L17121-MSD1) Source: IRL1362-01											
Antimony	88.0	2.0	0.20	ug/l	80.0	0.572	109	70-130	11	20	
Cadmium	82.4	1.0	0.11	ug/l	80.0	ND	103	70-130	10	20	
Copper	79.1	2.0	0.75	ug/l	80.0	1.31	97	70-130	9	20	
Lead	81.5	1.0	0.30	ug/l	80.0	ND	102	70-130	8	20	
Thallium	88.2	1.0	0.20	ug/l	80.0	ND	110	70-130	10	20	

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 Project Manager

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 618 Michillinda Avenue, Suite 200
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 Attention: Bronwyn Kelly

Project ID: Routine Outfall 010
 Report Number: IRL1710

Sampled: 12/15/08
 Received: 12/15/08

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8L15075 Extracted: 12/15/08											
Blank Analyzed: 12/15/2008 (8L15075-BLK1)											
Chloride	ND	0.50	0.25	mg/l							
Sulfate	ND	0.50	0.20	mg/l							
LCS Analyzed: 12/15/2008 (8L15075-BS1)											
Chloride	4.94	0.50	0.25	mg/l	5.00		99	90-110			
Sulfate	10.1	0.50	0.20	mg/l	10.0		101	90-110			
Matrix Spike Analyzed: 12/15/2008 (8L15075-MS1)											
						Source: IRL1621-01					
Chloride	116	20	10	mg/l	50.0	71.2	89	80-120			
Sulfate	845	20	8.0	mg/l	100	757	88	80-120			MHA
Matrix Spike Analyzed: 12/15/2008 (8L15075-MS2)											
						Source: IRL1706-01					
Chloride	5.40	0.50	0.25	mg/l	5.00	0.625	95	80-120			
Sulfate	14.0	0.50	0.20	mg/l	10.0	4.57	95	80-120			
Matrix Spike Dup Analyzed: 12/15/2008 (8L15075-MSD1)											
						Source: IRL1621-01					
Chloride	111	20	10	mg/l	50.0	71.2	80	80-120	4	20	
Sulfate	834	20	8.0	mg/l	100	757	77	80-120	1	20	MHA
Batch: 8L16052 Extracted: 12/16/08											
Blank Analyzed: 12/16/2008 (8L16052-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 12/16/2008 (8L16052-BS1)											
Total Dissolved Solids	996	10	10	mg/l	1000		100	90-110			

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8L16052 Extracted: 12/16/08											
Duplicate Analyzed: 12/16/2008 (8L16052-DUP1)						Source: IRL1707-01					
Total Dissolved Solids	569	10	10	mg/l		577			1	10	
Batch: 8L16086 Extracted: 12/16/08											
Blank Analyzed: 12/16/2008 (8L16086-BLK1)											
Nitrate/Nitrite-N	ND	0.26	0.15	mg/l							
Batch: 8L19123 Extracted: 12/19/08											
Blank Analyzed: 12/19/2008 (8L19123-BLK1)											
Hexane Extractable Material (Oil & Grease)	3.50	5.0	1.4	mg/l							J
LCS Analyzed: 12/19/2008 (8L19123-BS1)											
Hexane Extractable Material (Oil & Grease)	21.4	5.0	1.4	mg/l	20.2		106	78-114			MNR1
LCS Dup Analyzed: 12/19/2008 (8L19123-BSD1)											
Hexane Extractable Material (Oil & Grease)	21.9	5.0	1.4	mg/l	20.2		108	78-114	2	11	

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METHOD BLANK/QC DATA

DIOXIN (EPA 1613)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
Batch: 1770 Extracted: 12/17/08											
Blank Analyzed: 12/18/2008 (MB001)						Source:					
2,3,7,8-TCDD	ND	0.0000500	0.0000095	ug/L				50-150		25	
1,2,3,7,8-PeCDD	ND	0.0000250	0.0000025	ug/L				50-150		25	
1,2,3,4,7,8-HxCDD	ND	0.0000250	0.00000182	ug/L				50-150		25	
1,2,3,6,7,8-HxCDD	ND	0.0000250	0.00000171	ug/L				50-150		25	
1,2,3,7,8,9-HxCDD	ND	0.0000250	0.00000164	ug/L				50-150		25	
1,2,3,4,6,7,8-HpCDD	ND	0.0000250	0.00000279	ug/L				50-150		25	
OCDD	ND	0.0000500	0.0000043	ug/L				50-150		25	
2,3,7,8-TCDF	ND	0.0000500	0.00000887	ug/L				50-150		25	
1,2,3,7,8-PeCDF	ND	0.0000250	0.00000118	ug/L				50-150		25	
2,3,4,7,8-PeCDF	ND	0.0000250	0.00000107	ug/L				50-150		25	
1,2,3,4,7,8-HxCDF	ND	0.0000250	0.00000051	ug/L				50-150		25	
1,2,3,6,7,8-HxCDF	ND	0.0000250	0.00000059	ug/L				50-150		25	
2,3,4,6,7,8-HxCDF	ND	0.0000250	0.00000069	ug/L				50-150		25	
1,2,3,7,8,9-HxCDF	ND	0.0000250	0.00000105	ug/L				50-150		25	
1,2,3,4,6,7,8-HpCDF	ND	0.0000250	0.00000153	ug/L				50-150		25	
1,2,3,4,7,8,9-HpCDF	ND	0.0000250	0.00000182	ug/L				50-150		25	
OCDF	ND	0.0000500	0.00000159	ug/L				50-150		25	
Total TCDD	ND	0.00000500	0.00000958	ug/L				50-150		25	
Total PeCDD	ND	0.0000250	0.0000025	ug/L				50-150		25	
Total HxCDD	ND	0.0000250	0.00000164	ug/L				50-150		25	
Total HpCDD	ND	0.0000250	0.00000279	ug/L				50-150		25	
Total TCDF	ND	0.00000500	0.00000887	ug/L				50-150		25	
Total PeCDF	ND	0.0000250	0.00000107	ug/L				50-150		25	
Total HxCDF	ND	0.0000250	0.000000512	ug/L				50-150		25	
Total HpCDF	ND	0.0000250	0.00000153	ug/L				50-150		25	
Surrogate: 13C-2,3,7,8-TCDD	0.00188			ug/L	2000		94	50-150			
Surrogate: 13C-1,2,3,7,8-PeCDD	0.00202			ug/L	2000		101	50-150			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.00169			ug/L	2000		84	50-150			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.00191			ug/L	2000		96	50-150			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.00179			ug/L	2000		90	50-150			
Surrogate: 13C-OCDD	0.00297			ug/L	4000		74	50-150			
Surrogate: 13C-2,3,7,8-TCDF	0.00186			ug/L	2000		93	50-150			
Surrogate: 13C-1,2,3,7,8-PeCDF	0.00180			ug/L	2000		90	50-150			
Surrogate: 13C-2,3,4,7,8-PeCDF	0.00194			ug/L	2000		97	50-150			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.00182			ug/L	2000		91	50-150			

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METHOD BLANK/QC DATA

DIOXIN (EPA 1613)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 1770 Extracted: 12/17/08											
Blank Analyzed: 12/18/2008 (MB001)											
Source:											
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.00172			ug/L	2000		86	50-150			
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.00174			ug/L	2000		87	50-150			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.00180			ug/L	2000		90	50-150			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.00160			ug/L	2000		80	50-150			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.00166			ug/L	2000		83	50-150			
Surrogate: 13C-OCDF	0.00312			ug/L	4000		78	50-150			
Surrogate: 37Cl-2,3,7,8-TCDD	0.000760			ug/L	800		95	50-150			
LCS Analyzed: 12/18/2008 (OPR001)											
Source:											
2,3,7,8-TCDD	8.63	5.00	0.840	ug/L	10		86	50-150		25	
1,2,3,7,8-PeCDD	47.8	25.0	1.59	ug/L	50		96	50-150		25	
1,2,3,4,7,8-HxCDD	46.8	25.0	1.18	ug/L	50		94	50-150		25	
1,2,3,6,7,8-HxCDD	46.3	25.0	1.69	ug/L	50		93	50-150		25	
1,2,3,7,8,9-HxCDD	45.7	25.0	1.18	ug/L	50		91	50-150		25	
1,2,3,4,6,7,8-HpCDD	46.3	25.0	2.01	ug/L	50		93	50-150		25	
OCDD	95.6	50.0	2.45	ug/L	100		96	50-150		25	
2,3,7,8-TCDF	8.58	5.00	0.970	ug/L	10		86	50-150		25	
1,2,3,7,8-PeCDF	46.7	25.0	1.09	ug/L	50		93	50-150		25	
2,3,4,7,8-PeCDF	48.7	25.0	1.48	ug/L	50		97	50-150		25	
1,2,3,4,7,8-HxCDF	45.2	25.0	1.06	ug/L	50		90	50-150		25	
1,2,3,6,7,8-HxCDF	47.5	25.0	0.730	ug/L	50		95	50-150		25	
2,3,4,6,7,8-HxCDF	45.7	25.0	1.26	ug/L	50		91	50-150		25	
1,2,3,7,8,9-HxCDF	46.6	25.0	0.940	ug/L	50		93	50-150		25	
1,2,3,4,6,7,8-HpCDF	45.0	25.0	1.70	ug/L	50		90	50-150		25	
1,2,3,4,7,8,9-HpCDF	44.9	25.0	0.960	ug/L	50		90	50-150		25	
OCDF	89.5	50.0	3.66	ug/L	100		90	50-150		25	
Surrogate: 13C-2,3,7,8-TCDD	89.2			ug/L	100		89	50-150			
Surrogate: 13C-1,2,3,7,8-PeCDD	96.7			ug/L	100		97	50-150			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	77.1			ug/L	100		77	50-150			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	91.1			ug/L	100		91	50-150			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	84.0			ug/L	100		84	50-150			
Surrogate: 13C-OCDD	136			ug/L	200		68	50-150			
Surrogate: 13C-2,3,7,8-TCDF	88.6			ug/L	100		89	50-150			
Surrogate: 13C-1,2,3,7,8-PeCDF	88.4			ug/L	100		88	50-150			
Surrogate: 13C-2,3,4,7,8-PeCDF	91.1			ug/L	100		91	50-150			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	88.6			ug/L	100		89	50-150			

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Trupti Mistry For Joseph Doak
 Project Manager

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Sampled: 12/15/08

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METHOD BLANK/QC DATA

DIOXIN (EPA 1613)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 1770 Extracted: 12/17/08											
LCS Analyzed: 12/18/2008 (OPR001)											
Surrogate: 13C-1,2,3,6,7,8-HxCDF	81.1			ug/L	100		81	50-150			
Surrogate: 13C-2,3,4,6,7,8-HxCDF	81.0			ug/L	100		81	50-150			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	83.5			ug/L	100		84	50-150			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	74.7			ug/L	100		75	50-150			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	79.5			ug/L	100		80	50-150			
Surrogate: 13C-OCDF	146			ug/L	200		73	50-150			
Surrogate: 37Cl-2,3,7,8-TCDD	33.6			ug/L	40		84	50-150			

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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: 8353495 Extracted: 12/18/08											
Matrix Spike Dup Analyzed: 12/18/2008 (D8L170200001D)						Source: D8L170200001					
Mercury	4.64	0.2	0.027	ug/L	5	ND	93	90-110	9	10	
Matrix Spike Analyzed: 12/18/2008 (D8L170200001S)						Source: D8L170200001					
Mercury	4.24	0.2	0.027	ug/L	5	ND	85	90-110	9	10	N
Blank Analyzed: 12/18/2008 (D8L180000495B)						Source:					
Mercury	ND	0.2	0.027	ug/L				-			
LCS Analyzed: 12/18/2008 (D8L180000495C)						Source:					
Mercury	4.59	0.2	0.027	ug/L	5		92	90-110			

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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: 8353517 Extracted: 12/18/08											
Matrix Spike Dup Analyzed: 12/18/2008 (D8L170200001D)						Source: D8L170200001					
Mercury-diss	4.37	0.2	0.027	ug/L	5	ND	87	90-110	9	10	N
Matrix Spike Analyzed: 12/18/2008 (D8L170200001S)						Source: D8L170200001					
Mercury-diss	4.8	0.2	0.027	ug/L	5	ND	96	90-110	9	10	
Blank Analyzed: 12/18/2008 (D8L180000517B)						Source:					
Mercury-diss	ND	0.2	0.027	ug/L				-			
LCS Analyzed: 12/18/2008 (D8L180000517C)						Source:					
Mercury-diss	4.63	0.2	0.027	ug/L	5		93	90-110			

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Compliance Check

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

LabNumber	Analysis	Analyte	Units	Result	MRL	Compliance Limit
IRL1710-01	1664-HEM	Hexane Extractable Material (Oil & Greas	mg/l	3.35	4.8	15
IRL1710-01	Antimony-200.8	Antimony	ug/l	0.36	2.0	6
IRL1710-01	Cadmium-200.8	Cadmium	ug/l	0.093	1.0	4
IRL1710-01	Chloride - 300.0	Chloride	mg/l	32	5.0	150
IRL1710-01	Copper-200.8	Copper	ug/l	1.52	2.0	14
IRL1710-01	Lead-200.8	Lead	ug/l	0.53	1.0	5.2
IRL1710-01	Nitrogen, NO3+NO2 -N	Nitrate/Nitrite-N	mg/l	1.16	0.26	10
IRL1710-01	Sulfate-300.0	Sulfate	mg/l	24	0.50	250
IRL1710-01	TDS - SM 2540C	Total Dissolved Solids	mg/l	193	10	850
IRL1710-01	Thallium-200.8	Thallium	ug/l	0.0025	1.0	2

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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.
- MHA** Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
- MNR1** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- N** Spike sample recovery is outside control limits.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

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Certification Summary

TestAmerica Irvine

Method	Matrix	Nelac	California
EPA 1664A	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
EPA 300.0	Water	X	X
SM2540C	Water	X	

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

Subcontracted Laboratories

Alta Analytical Perspectives

2714 Exchange Drive - Wilmington, NC 28405

Method Performed: 1613-Dioxin-HR Alta
Samples: IRL1710-01

Aquatic Testing Laboratories-SUB *California Cert #1775*

4350 Transport Street, Unit 107 - Ventura, CA 93003

Analysis Performed: Bioassay-7 dy Chnric
Samples: IRL1710-01

TestAmerica Denver

4955 Yarrow Street - Arvada, CO 80002

Method Performed: MCAWW 245.1
Samples: IRL1710-01

Method Performed: MCAWW 245.1-Diss
Samples: IRL1710-01

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TestAmerica St. Louis

13715 Rider Trail North - Earth City, MO 63045

Analysis Performed: Gamma Spec
Samples: IRL1710-01

Analysis Performed: Gross Alpha
Samples: IRL1710-01

Analysis Performed: Gross Beta
Samples: IRL1710-01

Analysis Performed: Radium, Combined
Samples: IRL1710-01

Analysis Performed: Strontium 90
Samples: IRL1710-01

Analysis Performed: Tritium
Samples: IRL1710-01

Analysis Performed: Uranium, Combined
Samples: IRL1710-01

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: IRL1710-01

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