

APPENDIX G

Section 7

Outfall 002 - February 5, 2010

MEC^X Data Validation Reports

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DATA VALIDATION REPORT

Boeing SSFL NPDES

SAMPLE DELIVERY GROUP: ITB0783 & ITB0888

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: ITB0783 & ITB0888
 Project Manager: B. Kelly
 Matrix: Water
 QC Level: IV
 No. of Samples: 2
 No. of Reanalyses/Dilutions: 0
 Laboratory: TestAmerica-Irvine

Table 1. Sample Identification

Client ID	Laboratory ID	Sub-Laboratory ID	Matrix	Collected	Method
Outfall 002 (Comp)	ITB0888-01	F0B090482-001, G0B100439-001	Water	2/5/2010 13:44	ASTM 5174-91, 180.1, 200.7, 200.7 (Diss), 245.1, 245.1 (Diss), 1613B, 8315M, 900.0 MOD, 901.1 MOD, 903.0 MOD, 904 MOD, 905 MOD, 906.0 MOD, SM2340B, SM2540D, SM5310B
Outfall 002 (Grab)	ITB0783-01	N/A	Water	2/5/2010 13:44	SM2510B

II. Sample Management

No anomalies were observed regarding sample management. The sample receipt temperature was noted to be ambient by TestAmerica-St Louis; however, due to the nonvolatile nature of the analytes, no qualifications were required. The samples in this SDG were received at the remaining laboratories within the temperature limits of 4°C ±2°C. According to the case narrative for this SDG, the samples were received intact, on ice, and properly preserved, if applicable. The COCs were appropriately signed and dated by field and/or laboratory personnel. Custody seals were present upon receipt at TestAmerica-West Sacramento and TestAmerica-St. Louis. As the samples were delivered to the remaining laboratories by courier, no custody seals were necessary. 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 or PCB congeners.	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: L. Calvin

Date Reviewed: March 23, 2010

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 (9/05)*.

- 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 analyzed with the initial calibration sequence and at the beginning of each analytical sequence. 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 detects between the EDL and the RL for 1,2,3,4,6,7,8-HpCDD and total HpCDD, OCDD, 1,2,3,4,6,7,8-HpCDF and total HpCDF, and OCDF. Most detects in the method blank did not meet ratio criteria and were reported as EMPCs; however, due to the extent of contamination present in the method blank, it was the reviewer's professional opinion that those results be utilized to qualify applicable sample

results. Isomers present in the sample between the EDLs and RLs were qualified as nondetected, "U," at the levels of contamination. The sample result for total HpCDD was qualified as nondetected, "U," as both peaks comprising the total were present in the method blank. Total HpCDF included one peak not present in the method blank, and was qualified as estimated, "J," as only a portion of the total was considered method blank contamination.

- Blank Spikes and Laboratory Control Samples: OPR 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. The laboratory performed a confirmation analysis for 2,3,7,8-TCDF; however as the initial result was identified as an EMPC and qualified as nondetected, the confirmation result was rejected, "R," in favor of the initial result.
- Compound Quantification and Reported Detection Limits: Compound quantitation was verified by recalculating a representative number of reportable sample results. EMPCs qualified as nondetected for method blank contamination were not further qualified as EMPCs. Any remaining isomers reported as EMPCs were qualified as estimated and nondetected, "UJ," at the level of the EMPC, and any total results reported as EMPCs or including EMPCs were qualified as estimated, "J." Any detects reported below the EDL, or between the estimated detection limit (EDL) and the reporting limit (RL) were qualified as estimated, "J," and coded with "DNQ," in order to comply with the NPDES permit. Nondetects are valid to the EDL.

B. EPA METHOD 8315M—Hydrazines

Reviewed By: P. Meeks

Date Reviewed: April 4, 2010

The sample listed in Table 1 for this analysis was validated based on the guidelines outlined in the *MEC^X Data Validation Procedure for General Minerals (DVP-6, Rev. 0)*, *EPA Method 8315M*, and the *National Functional Guidelines for Organic Data Review (10/99)*.

- Holding Times: Extraction and analytical holding times were met. The sample was derivitized and analyzed within three days of collection.
- Calibration: Calibration criteria were met. The initial calibration r^2 values were ≥ 0.995 . The ICV, CCV and QCS recoveries were within 85-115%.
- Blanks: There were no target compound detects above the MDL in the method blank.
- Blank Spikes and Laboratory Control Samples: Recoveries and RPDs were within laboratory-established QC limits.
- Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were performed on the sample in this SDG. All recoveries and RPDs were within the laboratory-established control limits.
- 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.
- Compound Identification: Compound identification was verified. Review of the sample chromatograms and retention times indicated no problems with target compound identification.
- Compound Quantification and Reported Detection Limits: Compound quantification was verified. The reporting limits were supported by the low point of the initial calibrations and the laboratory MDLs. Any results reported between the MDL and the reporting limit were qualified as estimated, "J," and coded with "DNQ," in order to comply with the NPDES permit. Reported nondetects are valid to the reporting limit.

C. EPA METHODS 200.7 and 245.1—Metals and Mercury

Reviewed By: P. Meeks

Date Reviewed: March 17, 2010

The sample listed in Table 1 for these analyses were validated based on the guidelines outlined in the *MEC^X Data Validation Procedure for Metals (DVP-5, Rev. 0 and DVP-21, Rev. 0)*, *EPA Methods 200.7 and 245.1, SM2340B*, and the *National Functional Guidelines for Inorganic Data Review (7/02)*.

- Holding Times: Analytical holding times, six months for ICP metals and 28 days for mercury, were met.
- Tuning: Not applicable to these analyses.
- Calibration: Calibration criteria were met. Mercury initial calibration r^2 values were ≥ 0.995 and all initial and continuing calibration recoveries were within 90-110% for the ICP and ICP-MS metals and 85-115% for mercury. The nickel CRDL recovery was 66%; therefore, nondetected nickel was qualified as estimated, "UJ," in both fractions. The remaining CRDL and CRI recoveries were within the control limits of 70-130%.
- Blanks: Boron was detected in the dissolved method blank at 45.3 $\mu\text{g/L}$; therefore, boron in the dissolved fraction was qualified as nondetected, "U," at the reporting limit. Method blanks and CCBs had no other applicable detects.
- Interference Check Samples: Recoveries were within the method-established control limits. Boron was reported at -75 $\mu\text{g/L}$ in the ICSA solution; however, the concentration of the interfering element, iron, was insufficient to cause matrix interference in the site sample.
- Blank Spikes and Laboratory Control Samples: Recoveries were within 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 these analyses.
- Sample Result Verification: Calculations were verified and the sample results reported on the sample result summary were verified against the raw data. No transcription errors or calculation errors were noted. When the sample results were qualified and the reviewer

was able to clearly determine bias, detected results were qualified as either “J+” or “J-”; otherwise, bias was not indicated in the qualification. Any detects between the method detection limit and the reporting limit were qualified as estimated, “J,” and coded with “DNQ,” in order to comply with the NPDES permit. Reported nondetects are valid to the 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.

D. VARIOUS EPA METHODS — Radionuclides

Reviewed By: P. Meeks

Date Reviewed: March 17, 2010

The sample listed in Table 1 for these analyses 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 (7/02)*.

- Holding Times: The tritium sample was analyzed within 180 days of collection. The aliquots for total uranium and radium-228 were reanalyzed more than 3x beyond the holding time for unpreserved samples; therefore, total uranium and radium-228 detected in the sample was qualified as estimated, “J.” Aliquots for gross alpha and gross beta, and gamma spectroscopy were prepared beyond the five-day analytical holding time for unpreserved samples; therefore, the results for these analytes were qualified as estimated, “J,” for detects and, “UJ,” for nondetects. Aliquots for radium-226 and strontium-90 were prepared within the five-day holding time for unpreserved aqueous samples.
- Calibration: The laboratory calibration information included the standard certificates and applicable preparation/dilutions logs for NIST-traceability.

The gross alpha and radium-226 detector efficiencies were less than 20%; therefore, the results for these analytes were qualified as estimated, “J,” for detects and, “UJ,” for nondetects. The remaining detector efficiencies were greater than 20%.

The tritium aliquot was spiked for efficiency determination; therefore, no calibration was necessary. All chemical yields were at least 40% and were considered acceptable. 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: Tritium was detected in the method blank at 165 pCi/L; therefore, tritium detected in the sample was qualified as nondetected, “U,” at the reporting limit. There were no other analytes detected in the method blanks or KPA CCBs.
- Blank Spikes and Laboratory Control Samples: The recoveries and the radium-228 RPD were within laboratory-established control 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 for the sample in this SDG. Method accuracy was evaluated based on the LCS results.
- 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. Any detects between the MDA and the reporting limit were qualified as estimated, “J,” and coded with “DNQ,” in order to comply with the NPDES permit. Reported nondetects are valid to the MDA.

The reviewer noted that the preparation log for KPA was not signed as having been reviewed.

- 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.

E. VARIOUS EPA METHODS—General Minerals

Reviewed By: P. Meeks

Date Reviewed: March 17, 2010

The samples listed in Table 1 for these analyses were validated based on the guidelines outlined in the *MEC^X Data Validation Procedure for General Minerals (DVP-6, Rev. 0)*, *EPA Method 180, 1, SM2510B, SM5310B*, and the *National Functional Guidelines for Inorganic Data Review (7/02)*.

- Holding Times: The analytical holding time of seven days was met.
- Calibration: The initial calibration r^2 values were ≥ 0.995 . Initial and continuing calibration check samples were recovered within 90-110%, except for the closing TOC CCV, which was recovered at 122%; therefore, TOC detected in the sample was qualified as estimated, "J."
- Blanks: The method blanks had no detects.
- Blank Spikes and Laboratory Control Samples: The recoveries were within laboratory-established QC limits.
- Laboratory Duplicates: No laboratory duplicate analyses were performed on the samples in this SDG.
- Matrix Spike/Matrix Spike Duplicate: No MS/MSD analyses were performed on the samples in this SDG. Method accuracy was evaluated based on LCS results.
- Sample Result Verification: Calculations were verified and the sample results reported on the sample result summary were verified against the raw data. No transcription errors or calculation errors were noted. When the sample results were qualified and the reviewer was able to clearly determine bias, detected results were qualified as either "J+" or "J-"; otherwise, bias was not indicated in the qualification. Any detects between the method detection limit and the reporting limit were qualified as estimated, "J," and coded with "DNQ," in order to comply with the NPDES permit. Reported nondetects are valid to the reporting limit.
- 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.

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Client: Test America - Irvine
17461 Derian Avenue, Suite 100
Irvine, CA 92614-5817

REPORT

Laboratory No: 987712
Report Date: February 11, 2010
Sampling Date: February 5, 2010
Receiving Date: February 8, 2010
Extraction Date: February 8, 2010
Analysis Date: February 9, 2010
Units: µg/L
Reported By: JS

Attention: Joseph Doak
Sample: Water / 1 Sample
Project Name: ITB0888 *Outfall 002*
Project Number: ITB0888
Method Number: EPA 8315 (Modified)
Investigation: Hydrazines

Analytical Results

Sample ID	Sample Description	Sample Amount (mL)	Dilution Factor	Monomethyl Hydrazine	u-Dimethyl Hydrazine	Hydrazine	Qualifier Codes
708690-MB	Method Blank	100	1	* ND	* ND	* ND	None
987712	ITB0888-01	100	1	U ND	U ND	U ND	None
MDL				0.857	1.42	0.452	
PQL				5.0	5.0	1.00	
Sample Reporting Limits				5.0	5.0	1.00	

**Analysis not validated*

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

Linda Saetern, Project Manager
Analytical Services, Truesdail Laboratories, Inc.

Level IV

PM 4/5/10

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from Truesdail Laboratories.

Validated Sample Result Forms ITB0783/ITB0888

Analysis Method ASTM 5174-91

Sample Name Outfall 002 (Composite) Matrix Type: WATER Validation Level: IV

Lab Sample Name: ITB0888-01 Sample Date: 2/5/2010 9:03:00 PM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Total Uranium	7440-61-1	1.48	0.69	0.21	pCi/L			

Analysis Method EPA 180.1

Sample Name Outfall 002 (Composite) Matrix Type: Water Validation Level: IV

Lab Sample Name: ITB0888-01 Sample Date: 2/5/2010 9:03:00 PM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Turbidity	Turb	11	1.0	0.040	NTU			

Analysis Method EPA 200.7

Sample Name Outfall 002 (Composite) Matrix Type: Water Validation Level: IV

Lab Sample Name: ITB0888-01 Sample Date: 2/5/2010 9:03:00 PM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Arsenic	7440-38-2	ND	10	7.0	ug/l		U	
Barium	7440-39-3	0.041	0.010	0.0060	mg/l			
Beryllium	7440-41-7	ND	2.0	0.90	ug/l		U	
Boron	7440-42-8	0.085	0.050	0.020	mg/l			
Calcium	7440-70-2	61	0.10	0.050	mg/l			
Chromium	7440-47-3	ND	5.0	2.0	ug/l		U	
Cobalt	7440-48-4	ND	10	2.0	ug/l		U	
Iron	7439-89-6	0.61	0.040	0.015	mg/l			
Magnesium	7439-95-4	16	0.020	0.012	mg/l			
Manganese	7439-96-5	18	20	7.0	ug/l	Ja	J	DNQ
Nickel	7440-02-0	ND	10	2.0	ug/l		UJ	R
Vanadium	7440-62-2	ND	10	3.0	ug/l		U	
Zinc	7440-66-6	8.8	20	6.0	ug/l	Ja	J	DNQ

Analysis Method EPA 200.7-Diss

Sample Name		Outfall 002 (Composite)		Matrix Type:		Water		Validation Level:		IV	
Lab Sample Name:		ITB0888-01		Sample Date:		2/5/2010 9:03:00 PM					
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes			
Arsenic	7440-38-2	ND	10	7.0	ug/l		U				
Barium	7440-39-3	0.035	0.010	0.0060	mg/l						
Beryllium	7440-41-7	ND	2.0	0.90	ug/l		U				
Boron	7440-42-8	ND	0.093	0.020	mg/l	B	U	B			
Calcium	7440-70-2	54	0.10	0.050	mg/l						
Cobalt	7440-48-4	ND	10	2.0	ug/l		U				
Iron	7439-89-6	ND	0.040	0.015	mg/l		U				
Magnesium	7439-95-4	14	0.020	0.012	mg/l						
Manganese	7439-96-5	7.1	20	7.0	ug/l	Ja	J	DNQ			
Nickel	7440-02-0	ND	10	2.0	ug/l		UJ	R			
Vanadium	7440-62-2	ND	10	3.0	ug/l		U				
Zinc	7440-66-6	ND	20	6.0	ug/l		U				

Analysis Method EPA 245.1

Sample Name		Outfall 002 (Composite)		Matrix Type:		Water		Validation Level:		IV	
Lab Sample Name:		ITB0888-01		Sample Date:		2/5/2010 9:03:00 PM					
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes			
Mercury	7439-97-6	ND	0.00020	0.00010	mg/l		U				

Analysis Method EPA 245.1-Diss

Sample Name		Outfall 002 (Composite)		Matrix Type:		Water		Validation Level:		IV	
Lab Sample Name:		ITB0888-01		Sample Date:		2/5/2010 9:03:00 PM					
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes			
Mercury	7439-97-6	ND	0.00020	0.00010	mg/l		U				

Analysis Method EPA 900.0 MOD

Sample Name		Outfall 002 (Composite)		Matrix Type:		WATER		Validation Level:		IV	
Lab Sample Name:		ITB0888-01		Sample Date:		2/5/2010 9:03:00 PM					
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes			
Gross Alpha	12587-46-1	4.5	3	3	pCi/L		J	H,C			
Gross Beta	12587-47-2	2.9	4	1.3	pCi/L	Jb	J	H, DNQ			

Analysis Method *EPA 901.1 MOD*

Sample Name Outfall 002 (Composite) **Matrix Type:** WATER **Validation Level:** IV

Lab Sample Name: ITB0888-01 **Sample Date:** 2/5/2010 9:03:00 PM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Cesium 137	10045-97-3	2.6	20	10	pCi/L	U	UJ	H
Potassium 40	13966-00-2	-40	0	190	pCi/L	U	UJ	H

Analysis Method *EPA 903.0 MOD*

Sample Name Outfall 002 (Composite) **Matrix Type:** WATER **Validation Level:** IV

Lab Sample Name: ITB0888-01 **Sample Date:** 2/5/2010 9:03:00 PM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Radium (226)	13982-63-3	0.1	1	0.2	pCi/L	U	UJ	C

Analysis Method *EPA 904 MOD*

Sample Name Outfall 002 (Composite) **Matrix Type:** WATER **Validation Level:** IV

Lab Sample Name: ITB0888-01RE1 **Sample Date:** 2/5/2010 9:03:00 PM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Radium 228	15262-20-1	-0.04	1	0.37	pCi/L	U	R	H

Analysis Method *EPA 905 MOD*

Sample Name Outfall 002 (Composite) **Matrix Type:** WATER **Validation Level:** IV

Lab Sample Name: ITB0888-01 **Sample Date:** 2/5/2010 9:03:00 PM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Strontium 90	10098-97-2	0.37	3	0.42	pCi/L	U	U	

Analysis Method *EPA 906.0 MOD*

Sample Name Outfall 002 (Composite) **Matrix Type:** WATER **Validation Level:** IV

Lab Sample Name: ITB0888-01 **Sample Date:** 2/5/2010 9:03:00 PM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Tritium	10028-17-8	ND	500	93	pCi/L	Jb	U	B

Analysis Method EPA-5 1613B

Sample Name Outfall 002 (Composite) **Matrix Type:** WATER **Validation Level:** IV
Lab Sample Name: ITB0888-01 **Sample Date:** 2/5/2010 9:03:00 PM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1,2,3,4,6,7,8-HpCDD	35822-46-9	ND	0.00005	0.0000005	ug/L	J, Ba	U	B
1,2,3,4,6,7,8-HpCDF	67562-39-4	ND	1.9e-006	0.0000003	ug/L	J, Q, Ba	U	B
1,2,3,4,7,8,9-HpCDF	55673-89-7	ND	6.4e-007	0.0000006	ug/L	J, Q	UJ	*III
1,2,3,4,7,8-HxCDD	39227-28-6	ND	2.9e-007	0.0000005	ug/L	J, Q	UJ	*III
1,2,3,4,7,8-HxCDF	70648-26-9	8e-007	0.00005	0.0000004	ug/L	J	J	DNQ
1,2,3,6,7,8-HxCDD	57653-85-7	ND	0.00005	0.0000005	ug/L		U	
1,2,3,6,7,8-HxCDF	57117-44-9	5.5e-007	0.00005	0.0000003	ug/L	J	J	DNQ
1,2,3,7,8,9-HxCDD	19408-74-3	5e-007	0.00005	0.0000003	ug/L	J	J	DNQ
1,2,3,7,8,9-HxCDF	72918-21-9	ND	0.00005	0.0000004	ug/L		U	
1,2,3,7,8-PeCDD	40321-76-4	ND	0.00005	0.0000005	ug/L		U	
1,2,3,7,8-PeCDF	57117-41-6	ND	0.00005	0.0000004	ug/L		U	
2,3,4,6,7,8-HxCDF	60851-34-5	ND	0.00005	0.0000003	ug/L		U	
2,3,4,7,8-PeCDF	57117-31-4	ND	0.00005	0.0000005	ug/L		U	
2,3,7,8-TCDD	1746-01-6	ND	0.00001	0.0000004	ug/L		U	
2,3,7,8-TCDF	51207-31-9	ND	0.00001	0.0000019	ug/L		R	D
2,3,7,8-TCDF	51207-31-9	ND	8.1e-007	0.0000003	ug/L	J, Q	UJ	*III
OCDD	3268-87-9	ND	0.0001	0.0000012	ug/L	J, Ba	U	B
OCDF	39001-02-0	ND	0.0001	0.0000007	ug/L	J, Ba	U	B
Total HpCDD	37871-00-4	ND	0.00005	0.0000005	ug/L	J, Ba	U	B
Total HpCDF	38998-75-3	3.9e-006	0.00005	0.0000003	ug/L	J, Q, Ba	J	B, DNQ, *III
Total HxCDD	34465-46-8	1.5e-006	1.5e-006	0.0000003	ug/L	J, Q	J	DNQ, *III
Total HxCDF	55684-94-1	1.9e-006	1.9e-006	0.0000003	ug/L	J, Q	J	DNQ, *III
Total PeCDD	36088-22-9	ND	0.00005	0.0000005	ug/L		U	
Total PeCDF	30402-15-4	ND	0.00005	0.0000001	ug/L		U	
Total TCDD	41903-57-5	ND	0.00001	0.0000004	ug/L		U	
Total TCDF	55722-27-5	1.5e-006	1.5e-006	0.0000003	ug/L	J, Q	J	DNQ, *III

Analysis Method SM2340B

Sample Name Outfall 002 (Composite) **Matrix Type:** Water **Validation Level:** IV
Lab Sample Name: ITB0888-01 **Sample Date:** 2/5/2010 9:03:00 PM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Hardness as CaCO3		220	0.33	0.17	mg/l			

Analysis Method SM2340B-Diss

Sample Name Outfall 002 (Composite) **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB0888-01 **Sample Date:** 2/5/2010 9:03:00 PM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Hardness as CaCO3		190	0.33	0.17	mg/l			

Analysis Method SM2510B

Sample Name Outfall 002 **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB0783-01 **Sample Date:** 2/5/2010 9:30:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Specific Conductance	NA	670	1.0	1.0	umhos/c			

Analysis Method SM5310B

Sample Name Outfall 002 (Composite) **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB0888-01 **Sample Date:** 2/5/2010 9:03:00 PM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Total Organic Carbon	TOC	7.1	1.0	0.50	mg/l		J	C

APPENDIX G

Section 8

Outfall 002 - February 5, 2010

Test America Analytical Laboratory Reports

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LABORATORY REPORT

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

Project: Annual Outfall 002

Sampled: 02/05/10
Received: 02/05/10
Revised: 03/31/10 12:37

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.

CASE NARRATIVE

SAMPLE RECEIPT: Samples were received intact, at 3°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: Results that fall between the MDL and RL are 'J' flagged.

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

ADDITIONAL INFORMATION: Final revised report to include corrected units and .pdf for Radchem work.

LABORATORY ID

ITB0783-01
ITB0783-02
ITB0888-01

CLIENT ID

Outfall 002
Trip Blanks
Outfall 002 (Composite)

MATRIX

Water
Water
Water

Reviewed By:



TestAmerica Irvine

Kathleen A. Robb For Heather Clark
Project Manager

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

Project ID: Annual Outfall 002

Report Number: ITB0783

Sampled: 02/05/10

Received: 02/05/10

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

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0783-01 (Outfall 002 - Water)									
Reporting Units: ug/l									
GRO (C4 - C12)	EPA 8015 Mod.	10B1671	25	100	ND	1	02/13/10	02/13/10	
Surrogate: 4-BFB (FID) (65-140%)					100 %				

TestAmerica Irvine

Kathleen A. Robb For Heather Clark
Project Manager

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

Project ID: Annual Outfall 002

Report Number: ITB0783

Sampled: 02/05/10

Received: 02/05/10

EXTRACTABLE FUEL HYDROCARBONS (EPA 3510C/EPA 8015B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0783-01 (Outfall 002 - Water)									
Reporting Units: ug/l									
DRO (C13 - C28)	EPA 8015B	10B1526	50	100	ND	1	02/12/10	02/12/10	
Surrogate: n-Octacosane (45-120%)					72 %				

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Kathleen A. Robb For Heather Clark
Project Manager

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

Project ID: Annual Outfall 002

Report Number: ITB0783

Sampled: 02/05/10
Received: 02/05/10

PURGEABLES BY GC/MS (EPA 624)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0783-01 (Outfall 002 - Water)									
Reporting Units: ug/l									
Benzene	EPA 624	10B0785	0.28	0.50	ND	1	02/07/10	02/08/10	
Bromodichloromethane	EPA 624	10B0785	0.30	0.50	ND	1	02/07/10	02/08/10	
Bromoform	EPA 624	10B0785	0.40	0.50	ND	1	02/07/10	02/08/10	
Bromomethane	EPA 624	10B0785	0.42	1.0	ND	1	02/07/10	02/08/10	
Carbon tetrachloride	EPA 624	10B0785	0.28	0.50	ND	1	02/07/10	02/08/10	C, L
Chlorobenzene	EPA 624	10B0785	0.36	0.50	ND	1	02/07/10	02/08/10	
Chloroethane	EPA 624	10B0785	0.40	1.0	ND	1	02/07/10	02/08/10	
Chloroform	EPA 624	10B0785	0.33	0.50	ND	1	02/07/10	02/08/10	
Chloromethane	EPA 624	10B0785	0.40	0.50	ND	1	02/07/10	02/08/10	
Dibromochloromethane	EPA 624	10B0785	0.40	0.50	ND	1	02/07/10	02/08/10	
1,2-Dichlorobenzene	EPA 624	10B0785	0.32	0.50	ND	1	02/07/10	02/08/10	
1,3-Dichlorobenzene	EPA 624	10B0785	0.35	0.50	ND	1	02/07/10	02/08/10	
1,4-Dichlorobenzene	EPA 624	10B0785	0.37	0.50	ND	1	02/07/10	02/08/10	
1,1-Dichloroethane	EPA 624	10B0785	0.40	0.50	ND	1	02/07/10	02/08/10	
1,2-Dichloroethane	EPA 624	10B0785	0.28	0.50	ND	1	02/07/10	02/08/10	
1,1-Dichloroethene	EPA 624	10B0785	0.42	0.50	ND	1	02/07/10	02/08/10	
cis-1,2-Dichloroethene	EPA 624	10B0785	0.32	0.50	ND	1	02/07/10	02/08/10	
trans-1,2-Dichloroethene	EPA 624	10B0785	0.30	0.50	ND	1	02/07/10	02/08/10	
1,2-Dichloropropane	EPA 624	10B0785	0.35	0.50	ND	1	02/07/10	02/08/10	
cis-1,3-Dichloropropene	EPA 624	10B0785	0.22	0.50	ND	1	02/07/10	02/08/10	
trans-1,3-Dichloropropene	EPA 624	10B0785	0.32	0.50	ND	1	02/07/10	02/08/10	
1,2-Dichloro-1,1,2-trifluoroethane	EPA 624	10B0785	1.1	2.0	ND	1	02/07/10	02/08/10	
Ethylbenzene	EPA 624	10B0785	0.25	0.50	ND	1	02/07/10	02/08/10	
Methylene chloride	EPA 624	10B0785	0.95	1.0	ND	1	02/07/10	02/08/10	
1,1,2,2-Tetrachloroethane	EPA 624	10B0785	0.30	0.50	ND	1	02/07/10	02/08/10	
Tetrachloroethene	EPA 624	10B0785	0.32	0.50	ND	1	02/07/10	02/08/10	
Toluene	EPA 624	10B0785	0.36	0.50	ND	1	02/07/10	02/08/10	
1,1,1-Trichloroethane	EPA 624	10B0785	0.30	0.50	ND	1	02/07/10	02/08/10	
1,1,2-Trichloroethane	EPA 624	10B0785	0.30	0.50	ND	1	02/07/10	02/08/10	
Trichloroethene	EPA 624	10B0785	0.26	0.50	ND	1	02/07/10	02/08/10	
Trichlorofluoromethane	EPA 624	10B0785	0.34	0.50	ND	1	02/07/10	02/08/10	
Trichlorotrifluoroethane (Freon 113)	EPA 624	10B0785	0.50	5.0	ND	1	02/07/10	02/08/10	
Vinyl chloride	EPA 624	10B0785	0.40	0.50	ND	1	02/07/10	02/08/10	
Xylenes, Total	EPA 624	10B0785	0.90	1.5	ND	1	02/07/10	02/08/10	
Cyclohexane	EPA 624	10B0785	0.40	1.0	ND	1	02/07/10	02/08/10	
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>					<i>106 %</i>				
<i>Surrogate: Dibromofluoromethane (80-120%)</i>					<i>113 %</i>				
<i>Surrogate: Toluene-d8 (80-120%)</i>					<i>110 %</i>				

TestAmerica Irvine

Kathleen A. Robb For Heather Clark
Project Manager

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

Project ID: Annual Outfall 002

Report Number: ITB0783

Sampled: 02/05/10
 Received: 02/05/10

PURGEABLES BY GC/MS (EPA 624)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0783-02 (Trip Blanks - Water)									
Reporting Units: ug/l									
Benzene	EPA 624	10B0785	0.28	0.50	ND	1	02/07/10	02/08/10	
Bromodichloromethane	EPA 624	10B0785	0.30	0.50	ND	1	02/07/10	02/08/10	
Bromoform	EPA 624	10B0785	0.40	0.50	ND	1	02/07/10	02/08/10	
Bromomethane	EPA 624	10B0785	0.42	1.0	ND	1	02/07/10	02/08/10	
Carbon tetrachloride	EPA 624	10B0785	0.28	0.50	ND	1	02/07/10	02/08/10	C, L
Chlorobenzene	EPA 624	10B0785	0.36	0.50	ND	1	02/07/10	02/08/10	
Chloroethane	EPA 624	10B0785	0.40	1.0	ND	1	02/07/10	02/08/10	
Chloroform	EPA 624	10B0785	0.33	0.50	ND	1	02/07/10	02/08/10	
Chloromethane	EPA 624	10B0785	0.40	0.50	ND	1	02/07/10	02/08/10	
Dibromochloromethane	EPA 624	10B0785	0.40	0.50	ND	1	02/07/10	02/08/10	
1,2-Dichlorobenzene	EPA 624	10B0785	0.32	0.50	ND	1	02/07/10	02/08/10	
1,3-Dichlorobenzene	EPA 624	10B0785	0.35	0.50	ND	1	02/07/10	02/08/10	
1,4-Dichlorobenzene	EPA 624	10B0785	0.37	0.50	ND	1	02/07/10	02/08/10	
1,1-Dichloroethane	EPA 624	10B0785	0.40	0.50	ND	1	02/07/10	02/08/10	
1,2-Dichloroethane	EPA 624	10B0785	0.28	0.50	ND	1	02/07/10	02/08/10	
1,1-Dichloroethene	EPA 624	10B0785	0.42	0.50	ND	1	02/07/10	02/08/10	
cis-1,2-Dichloroethene	EPA 624	10B0785	0.32	0.50	ND	1	02/07/10	02/08/10	
trans-1,2-Dichloroethene	EPA 624	10B0785	0.30	0.50	ND	1	02/07/10	02/08/10	
1,2-Dichloropropane	EPA 624	10B0785	0.35	0.50	ND	1	02/07/10	02/08/10	
cis-1,3-Dichloropropene	EPA 624	10B0785	0.22	0.50	ND	1	02/07/10	02/08/10	
trans-1,3-Dichloropropene	EPA 624	10B0785	0.32	0.50	ND	1	02/07/10	02/08/10	
1,2-Dichloro-1,1,2-trifluoroethane	EPA 624	10B0785	1.1	2.0	ND	1	02/07/10	02/08/10	
Ethylbenzene	EPA 624	10B0785	0.25	0.50	ND	1	02/07/10	02/08/10	
Methylene chloride	EPA 624	10B0785	0.95	1.0	ND	1	02/07/10	02/08/10	
1,1,2,2-Tetrachloroethane	EPA 624	10B0785	0.30	0.50	ND	1	02/07/10	02/08/10	
Tetrachloroethene	EPA 624	10B0785	0.32	0.50	ND	1	02/07/10	02/08/10	
Toluene	EPA 624	10B0785	0.36	0.50	ND	1	02/07/10	02/08/10	
1,1,1-Trichloroethane	EPA 624	10B0785	0.30	0.50	ND	1	02/07/10	02/08/10	
1,1,2-Trichloroethane	EPA 624	10B0785	0.30	0.50	ND	1	02/07/10	02/08/10	
Trichloroethene	EPA 624	10B0785	0.26	0.50	ND	1	02/07/10	02/08/10	
Trichlorofluoromethane	EPA 624	10B0785	0.34	0.50	ND	1	02/07/10	02/08/10	
Trichlorotrifluoroethane (Freon 113)	EPA 624	10B0785	0.50	5.0	ND	1	02/07/10	02/08/10	
Vinyl chloride	EPA 624	10B0785	0.40	0.50	ND	1	02/07/10	02/08/10	
Xylenes, Total	EPA 624	10B0785	0.90	1.5	ND	1	02/07/10	02/08/10	
Cyclohexane	EPA 624	10B0785	0.40	1.0	ND	1	02/07/10	02/08/10	
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>					<i>106 %</i>				
<i>Surrogate: Dibromofluoromethane (80-120%)</i>					<i>109 %</i>				
<i>Surrogate: Toluene-d8 (80-120%)</i>					<i>112 %</i>				

TestAmerica Irvine

Kathleen A. Robb For Heather Clark
 Project Manager

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

Project ID: Annual Outfall 002

Report Number: ITB0783

Sampled: 02/05/10
 Received: 02/05/10

PURGEABLES-- GC/MS (EPA 624)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0783-01 (Outfall 002 - Water)									
Reporting Units: ug/l									
Acrolein	EPA 624	10B0785	4.0	5.0	ND	1	02/07/10	02/08/10	
Acrylonitrile	EPA 624	10B0785	1.2	2.0	ND	1	02/07/10	02/08/10	
2-Chloroethyl vinyl ether	EPA 624	10B0785	1.8	5.0	ND	1	02/07/10	02/08/10	
Surrogate: 4-Bromofluorobenzene (80-120%)					106 %				
Surrogate: Dibromofluoromethane (80-120%)					113 %				
Surrogate: Toluene-d8 (80-120%)					110 %				
Sample ID: ITB0783-02 (Trip Blanks - Water)									
Reporting Units: ug/l									
Acrolein	EPA 624	10B0785	4.0	5.0	ND	1	02/07/10	02/08/10	
Acrylonitrile	EPA 624	10B0785	1.2	2.0	ND	1	02/07/10	02/08/10	
2-Chloroethyl vinyl ether	EPA 624	10B0785	1.8	5.0	ND	1	02/07/10	02/08/10	
Surrogate: 4-Bromofluorobenzene (80-120%)					106 %				
Surrogate: Dibromofluoromethane (80-120%)					109 %				
Surrogate: Toluene-d8 (80-120%)					112 %				

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 Project Manager

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Arcadia, CA 91007
Attention: Bronwyn Kelly

Project ID: Annual Outfall 002

Report Number: ITB0783

Sampled: 02/05/10

Received: 02/05/10

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

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0888-01 (Outfall 002 (Composite) - Water)									
Reporting Units: ug/l									
1,4-Dioxane	EPA 8260B-SIM	10B0317	1.0	2.0	ND	1	02/08/10	02/08/10	
Surrogate: Dibromofluoromethane (80-120%)					101 %				

TestAmerica Irvine

Kathleen A. Robb For Heather Clark
Project Manager

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

Project ID: Annual Outfall 002

Report Number: ITB0783

Sampled: 02/05/10
Received: 02/05/10

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

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0888-01 (Outfall 002 (Composite) - Water)									
Reporting Units: ug/l									
Acenaphthene	EPA 625	10B1159	0.094	0.47	ND	0.943	02/10/10	02/15/10	
Acenaphthylene	EPA 625	10B1159	0.094	0.47	ND	0.943	02/10/10	02/15/10	
Aniline	EPA 625	10B1159	0.28	9.4	ND	0.943	02/10/10	02/15/10	
Anthracene	EPA 625	10B1159	0.094	0.47	ND	0.943	02/10/10	02/15/10	
Benzidine	EPA 625	10B1159	4.7	4.7	ND	0.943	02/10/10	02/15/10	
Benzo(a)anthracene	EPA 625	10B1159	0.094	4.7	ND	0.943	02/10/10	02/15/10	
Benzo(a)pyrene	EPA 625	10B1159	0.094	1.9	ND	0.943	02/10/10	02/15/10	
Benzo(b)fluoranthene	EPA 625	10B1159	0.094	1.9	ND	0.943	02/10/10	02/15/10	
Benzo(g,h,i)perylene	EPA 625	10B1159	0.094	4.7	ND	0.943	02/10/10	02/15/10	
Benzo(k)fluoranthene	EPA 625	10B1159	0.094	0.47	ND	0.943	02/10/10	02/15/10	
Benzoic acid	EPA 625	10B1159	2.8	19	ND	0.943	02/10/10	02/15/10	
Benzyl alcohol	EPA 625	10B1159	0.094	4.7	ND	0.943	02/10/10	02/15/10	
4-Bromophenyl phenyl ether	EPA 625	10B1159	0.094	0.94	ND	0.943	02/10/10	02/15/10	
Butyl benzyl phthalate	EPA 625	10B1159	0.66	4.7	ND	0.943	02/10/10	02/15/10	
4-Chloro-3-methylphenol	EPA 625	10B1159	0.19	1.9	ND	0.943	02/10/10	02/15/10	
4-Chloroaniline	EPA 625	10B1159	0.094	1.9	ND	0.943	02/10/10	02/15/10	
Bis(2-chloroethoxy)methane	EPA 625	10B1159	0.094	0.47	ND	0.943	02/10/10	02/15/10	
Bis(2-chloroethyl)ether	EPA 625	10B1159	0.094	0.47	ND	0.943	02/10/10	02/15/10	
Bis(2-chloroisopropyl)ether	EPA 625	10B1159	0.094	0.47	ND	0.943	02/10/10	02/15/10	
Bis(2-ethylhexyl)phthalate	EPA 625	10B1159	1.6	4.7	ND	0.943	02/10/10	02/15/10	
2-Chloronaphthalene	EPA 625	10B1159	0.094	0.47	ND	0.943	02/10/10	02/15/10	
2-Chlorophenol	EPA 625	10B1159	0.19	0.94	ND	0.943	02/10/10	02/15/10	
4-Chlorophenyl phenyl ether	EPA 625	10B1159	0.094	0.47	ND	0.943	02/10/10	02/15/10	
Chrysene	EPA 625	10B1159	0.094	0.47	ND	0.943	02/10/10	02/15/10	
Dibenz(a,h)anthracene	EPA 625	10B1159	0.094	0.47	ND	0.943	02/10/10	02/15/10	
Dibenzofuran	EPA 625	10B1159	0.094	0.47	ND	0.943	02/10/10	02/15/10	
Di-n-butyl phthalate	EPA 625	10B1159	0.19	1.9	ND	0.943	02/10/10	02/15/10	
1,2-Dichlorobenzene	EPA 625	10B1159	0.094	0.47	ND	0.943	02/10/10	02/15/10	
1,3-Dichlorobenzene	EPA 625	10B1159	0.094	0.47	ND	0.943	02/10/10	02/15/10	
1,4-Dichlorobenzene	EPA 625	10B1159	0.19	0.47	ND	0.943	02/10/10	02/15/10	
3,3'-Dichlorobenzidine	EPA 625	10B1159	4.7	4.7	ND	0.943	02/10/10	02/15/10	
2,4-Dichlorophenol	EPA 625	10B1159	0.19	1.9	ND	0.943	02/10/10	02/15/10	
Diethyl phthalate	EPA 625	10B1159	0.094	0.94	0.11	0.943	02/10/10	02/15/10	Ja
2,4-Dimethylphenol	EPA 625	10B1159	0.28	1.9	ND	0.943	02/10/10	02/15/10	
Dimethyl phthalate	EPA 625	10B1159	0.094	0.47	ND	0.943	02/10/10	02/15/10	
4,6-Dinitro-2-methylphenol	EPA 625	10B1159	0.19	4.7	ND	0.943	02/10/10	02/15/10	
2,4-Dinitrophenol	EPA 625	10B1159	0.85	4.7	ND	0.943	02/10/10	02/15/10	
2,4-Dinitrotoluene	EPA 625	10B1159	0.19	4.7	ND	0.943	02/10/10	02/15/10	
2,6-Dinitrotoluene	EPA 625	10B1159	0.094	4.7	ND	0.943	02/10/10	02/15/10	
Di-n-octyl phthalate	EPA 625	10B1159	0.094	4.7	ND	0.943	02/10/10	02/15/10	
1,2-Diphenylhydrazine/Azobenzene	EPA 625	10B1159	0.094	0.94	ND	0.943	02/10/10	02/15/10	

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Project Manager

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

Project ID: Annual Outfall 002

Report Number: ITB0783

Sampled: 02/05/10
Received: 02/05/10

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

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0888-01 (Outfall 002 (Composite) - Water) - cont.									
Reporting Units: ug/l									
Fluoranthene	EPA 625	10B1159	0.094	0.47	ND	0.943	02/10/10	02/15/10	
Fluorene	EPA 625	10B1159	0.094	0.47	ND	0.943	02/10/10	02/15/10	
Hexachlorobenzene	EPA 625	10B1159	0.094	0.94	ND	0.943	02/10/10	02/15/10	
Hexachlorobutadiene	EPA 625	10B1159	0.19	1.9	ND	0.943	02/10/10	02/15/10	
Hexachlorocyclopentadiene	EPA 625	10B1159	0.094	4.7	ND	0.943	02/10/10	02/15/10	
Hexachloroethane	EPA 625	10B1159	0.19	2.8	ND	0.943	02/10/10	02/15/10	
Indeno(1,2,3-cd)pyrene	EPA 625	10B1159	0.094	1.9	ND	0.943	02/10/10	02/15/10	
Isophorone	EPA 625	10B1159	0.094	0.94	ND	0.943	02/10/10	02/15/10	
2-Methylnaphthalene	EPA 625	10B1159	0.094	0.94	ND	0.943	02/10/10	02/15/10	
2-Methylphenol	EPA 625	10B1159	0.094	1.9	ND	0.943	02/10/10	02/15/10	
4-Methylphenol	EPA 625	10B1159	0.19	4.7	ND	0.943	02/10/10	02/15/10	
Naphthalene	EPA 625	10B1159	0.094	0.94	ND	0.943	02/10/10	02/15/10	
2-Nitroaniline	EPA 625	10B1159	0.094	4.7	ND	0.943	02/10/10	02/15/10	
3-Nitroaniline	EPA 625	10B1159	0.19	4.7	ND	0.943	02/10/10	02/15/10	
4-Nitroaniline	EPA 625	10B1159	0.47	4.7	ND	0.943	02/10/10	02/15/10	
Nitrobenzene	EPA 625	10B1159	0.094	0.94	ND	0.943	02/10/10	02/15/10	
2-Nitrophenol	EPA 625	10B1159	0.094	1.9	ND	0.943	02/10/10	02/15/10	
4-Nitrophenol	EPA 625	10B1159	2.4	4.7	ND	0.943	02/10/10	02/15/10	
N-Nitroso-di-n-propylamine	EPA 625	10B1159	0.094	1.9	ND	0.943	02/10/10	02/15/10	
N-Nitrosodimethylamine	EPA 625	10B1159	0.094	1.9	ND	0.943	02/10/10	02/15/10	
N-Nitrosodiphenylamine	EPA 625	10B1159	0.094	0.94	ND	0.943	02/10/10	02/15/10	
Pentachlorophenol	EPA 625	10B1159	0.094	1.9	ND	0.943	02/10/10	02/15/10	
Phenanthrene	EPA 625	10B1159	0.094	0.47	ND	0.943	02/10/10	02/15/10	
Phenol	EPA 625	10B1159	0.28	0.94	ND	0.943	02/10/10	02/15/10	
Pyrene	EPA 625	10B1159	0.094	0.47	ND	0.943	02/10/10	02/15/10	
1,2,4-Trichlorobenzene	EPA 625	10B1159	0.094	0.94	ND	0.943	02/10/10	02/15/10	
2,4,5-Trichlorophenol	EPA 625	10B1159	0.19	1.9	ND	0.943	02/10/10	02/15/10	
2,4,6-Trichlorophenol	EPA 625	10B1159	0.094	0.94	ND	0.943	02/10/10	02/15/10	
Surrogate: 2,4,6-Tribromophenol (40-120%)					96 %				
Surrogate: 2-Fluorobiphenyl (50-120%)					73 %				
Surrogate: 2-Fluorophenol (30-120%)					65 %				
Surrogate: Nitrobenzene-d5 (45-120%)					75 %				
Surrogate: Phenol-d6 (35-120%)					69 %				
Surrogate: Terphenyl-d14 (50-125%)					86 %				

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Project Manager

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

Project ID: Annual Outfall 002

Report Number: ITB0783

Sampled: 02/05/10
 Received: 02/05/10

ORGANOCHLORINE PESTICIDES (EPA 608)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0888-01 (Outfall 002 (Composite) - Water)									
Reporting Units: ug/l									
4,4'-DDD	EPA 608	10B1291	0.0019	0.0047	ND	0.943	02/11/10	02/13/10	
4,4'-DDE	EPA 608	10B1291	0.0028	0.0047	ND	0.943	02/11/10	02/13/10	
4,4'-DDT	EPA 608	10B1291	0.0038	0.0094	ND	0.943	02/11/10	02/13/10	
Aldrin	EPA 608	10B1291	0.0014	0.0047	ND	0.943	02/11/10	02/13/10	
alpha-BHC	EPA 608	10B1291	0.0024	0.0047	ND	0.943	02/11/10	02/13/10	
beta-BHC	EPA 608	10B1291	0.0038	0.0094	ND	0.943	02/11/10	02/13/10	
delta-BHC	EPA 608	10B1291	0.0033	0.0047	ND	0.943	02/11/10	02/13/10	
Dieldrin	EPA 608	10B1291	0.0019	0.0047	ND	0.943	02/11/10	02/13/10	
Endosulfan I	EPA 608	10B1291	0.0019	0.0047	ND	0.943	02/11/10	02/13/10	
Endosulfan II	EPA 608	10B1291	0.0028	0.0047	ND	0.943	02/11/10	02/13/10	
Endosulfan sulfate	EPA 608	10B1291	0.0028	0.0094	ND	0.943	02/11/10	02/13/10	
Endrin	EPA 608	10B1291	0.0019	0.0047	ND	0.943	02/11/10	02/13/10	C
Endrin aldehyde	EPA 608	10B1291	0.0019	0.0094	ND	0.943	02/11/10	02/13/10	
Endrin ketone	EPA 608	10B1291	0.0028	0.0094	ND	0.943	02/11/10	02/13/10	
gamma-BHC (Lindane)	EPA 608	10B1291	0.0028	0.019	ND	0.943	02/11/10	02/13/10	
Heptachlor	EPA 608	10B1291	0.0028	0.0094	ND	0.943	02/11/10	02/13/10	C
Heptachlor epoxide	EPA 608	10B1291	0.0024	0.0047	ND	0.943	02/11/10	02/13/10	
Methoxychlor	EPA 608	10B1291	0.0033	0.0047	ND	0.943	02/11/10	02/13/10	
Chlordane	EPA 608	10B1291	0.038	0.094	ND	0.943	02/11/10	02/13/10	
Toxaphene	EPA 608	10B1291	0.24	0.47	ND	0.943	02/11/10	02/13/10	
Surrogate: Decachlorobiphenyl (45-120%)					78 %				
Surrogate: Decachlorobiphenyl (45-120%)					78 %				
Surrogate: Tetrachloro-m-xylene (35-115%)					52 %				
Surrogate: Tetrachloro-m-xylene (35-115%)					52 %				

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Project ID: Annual Outfall 002

Report Number: ITB0783

Sampled: 02/05/10

Received: 02/05/10

TOTAL PCBS (EPA 608)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0888-01 (Outfall 002 (Composite) - Water) - cont.									
Reporting Units: ug/l									
Aroclor 1016	EPA 608	10B1291	0.24	0.47	ND	0.943	02/11/10	02/12/10	
Aroclor 1221	EPA 608	10B1291	0.24	0.47	ND	0.943	02/11/10	02/12/10	
Aroclor 1232	EPA 608	10B1291	0.24	0.47	ND	0.943	02/11/10	02/12/10	
Aroclor 1242	EPA 608	10B1291	0.24	0.47	ND	0.943	02/11/10	02/12/10	
Aroclor 1248	EPA 608	10B1291	0.24	0.47	ND	0.943	02/11/10	02/12/10	
Aroclor 1254	EPA 608	10B1291	0.24	0.47	ND	0.943	02/11/10	02/12/10	
Aroclor 1260	EPA 608	10B1291	0.24	0.47	ND	0.943	02/11/10	02/12/10	
<i>Surrogate: Decachlorobiphenyl (45-120%)</i>					86 %				

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Project ID: Annual Outfall 002

Report Number: ITB0783

Sampled: 02/05/10

Received: 02/05/10

HEXANE EXTRACTABLE MATERIAL

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0783-01 (Outfall 002 - Water)									
Reporting Units: mg/l									
Hexane Extractable Material (Oil & Grease)	EPA 1664A	10B1778	1.4	5.0	ND	1	02/15/10	02/15/10	

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Project ID: Annual Outfall 002

Report Number: ITB0783

Sampled: 02/05/10
 Received: 02/05/10

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0888-01 (Outfall 002 (Composite) - Water)									
Reporting Units: mg/l									
Hardness as CaCO3	SM2340B	[CALC]	N/A	0.33	220	1	02/15/10	02/16/10	
Barium	EPA 200.7	10B1807	0.0060	0.010	0.041	1	02/15/10	02/16/10	
Boron	EPA 200.7	10B1807	0.020	0.050	0.085	1	02/15/10	02/16/10	
Calcium	EPA 200.7	10B1807	0.050	0.10	61	1	02/15/10	02/16/10	
Iron	EPA 200.7	10B1807	0.015	0.040	0.61	1	02/15/10	02/16/10	
Magnesium	EPA 200.7	10B1807	0.012	0.020	16	1	02/15/10	02/16/10	
Sample ID: ITB0888-01 (Outfall 002 (Composite) - Water)									
Reporting Units: ug/l									
Mercury	EPA 245.1	10B1942	0.10	0.20	ND	1	02/16/10	02/16/10	
Arsenic	EPA 200.7	10B1807	7.0	10	ND	1	02/15/10	02/16/10	
Antimony	EPA 200.8	10B1598	0.30	2.0	ND	1	02/12/10	02/15/10	
Beryllium	EPA 200.7	10B1807	0.90	2.0	ND	1	02/15/10	02/16/10	
Chromium	EPA 200.7	10B1807	2.0	5.0	ND	1	02/15/10	02/16/10	
Cobalt	EPA 200.7	10B1807	2.0	10	ND	1	02/15/10	02/16/10	
Manganese	EPA 200.7	10B1807	7.0	20	18	1	02/15/10	02/16/10	Ja
Nickel	EPA 200.7	10B1807	2.0	10	ND	1	02/15/10	02/16/10	
Cadmium	EPA 200.8	10B1598	0.10	1.0	ND	1	02/12/10	02/15/10	
Vanadium	EPA 200.7	10B1807	3.0	10	ND	1	02/15/10	02/16/10	
Zinc	EPA 200.7	10B1807	6.0	20	8.8	1	02/15/10	02/16/10	Ja
Copper	EPA 200.8	10B1598	0.50	2.0	1.7	1	02/12/10	02/15/10	Ja
Lead	EPA 200.8	10B1598	0.20	1.0	0.40	1	02/12/10	02/15/10	Ja
Selenium	EPA 200.8	10B1598	0.50	2.0	ND	1	02/12/10	02/15/10	
Silver	EPA 200.8	10B1598	0.10	1.0	ND	1	02/12/10	02/15/10	
Thallium	EPA 200.8	10B1598	0.20	1.0	ND	1	02/12/10	02/15/10	C

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Project ID: Annual Outfall 002

Report Number: ITB0783

Sampled: 02/05/10
 Received: 02/05/10

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0888-01 (Outfall 002 (Composite) - Water)									
Reporting Units: mg/l									
Hardness as CaCO3	SM2340B-Diss	[CALC]	N/A	0.33	190	1	02/15/10	02/16/10	
Barium	EPA 200.7-Diss	10B1846	0.0060	0.010	0.035	1	02/15/10	02/16/10	
Boron	EPA 200.7-Diss	10B1846	0.020	0.050	0.093	1	02/15/10	02/16/10	B
Calcium	EPA 200.7-Diss	10B1846	0.050	0.10	54	1	02/15/10	02/16/10	
Iron	EPA 200.7-Diss	10B1846	0.015	0.040	ND	1	02/15/10	02/16/10	
Magnesium	EPA 200.7-Diss	10B1846	0.012	0.020	14	1	02/15/10	02/16/10	
Sample ID: ITB0888-01 (Outfall 002 (Composite) - Water)									
Reporting Units: ug/l									
Mercury	EPA 245.1-Diss	10B1953	0.10	0.20	ND	1	02/16/10	02/16/10	
Arsenic	EPA 200.7-Diss	10B1846	7.0	10	ND	1	02/15/10	02/16/10	
Antimony	EPA 200.8-Diss	10B1845	0.30	2.0	ND	1	02/15/10	02/16/10	
Beryllium	EPA 200.7-Diss	10B1846	0.90	2.0	ND	1	02/15/10	02/16/10	
Cobalt	EPA 200.7-Diss	10B1846	2.0	10	ND	1	02/15/10	02/16/10	
Manganese	EPA 200.7-Diss	10B1846	7.0	20	7.1	1	02/15/10	02/16/10	Ja
Nickel	EPA 200.7-Diss	10B1846	2.0	10	ND	1	02/15/10	02/16/10	
Cadmium	EPA 200.8-Diss	10B1845	0.10	1.0	ND	1	02/15/10	02/16/10	
Vanadium	EPA 200.7-Diss	10B1846	3.0	10	ND	1	02/15/10	02/16/10	
Zinc	EPA 200.7-Diss	10B1846	6.0	20	ND	1	02/15/10	02/16/10	
Copper	EPA 200.8-Diss	10B2106	0.50	2.0	1.3	1	02/17/10	02/18/10	Ja
Lead	EPA 200.8-Diss	10B1845	0.20	1.0	ND	1	02/15/10	02/16/10	
Selenium	EPA 200.8-Diss	10B1845	0.50	2.0	0.51	1	02/15/10	02/16/10	Ja
Silver	EPA 200.8-Diss	10B1845	0.10	1.0	ND	1	02/15/10	02/16/10	
Thallium	EPA 200.8-Diss	10B1845	0.20	1.0	ND	1	02/15/10	02/16/10	

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Attention: Bronwyn Kelly

Project ID: Annual Outfall 002

Report Number: ITB0783

Sampled: 02/05/10

Received: 02/05/10

DISSOLVED INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0783-01 (Outfall 002 - Water)									
Reporting Units: ug/l									
Chromium VI	EPA 218.6	10B0683	0.25	1.0	ND	1	02/05/10	02/05/10	

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618 Michillinda Avenue, Suite 200
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Attention: Bronwyn Kelly

Project ID: Annual Outfall 002

Report Number: ITB0783

Sampled: 02/05/10
Received: 02/05/10

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0888-01 (Outfall 002 (Composite) - Water)									
Reporting Units: mg/l									
Ammonia-N (Distilled)	SM4500NH3-C	10B1575	0.50	0.50	ND	1	02/12/10	02/12/10	
Biochemical Oxygen Demand	SM5210B	10B0795	0.50	2.0	0.81	1	02/07/10	02/12/10	Ja
Chloride	EPA 300.0	10B0807	0.25	0.50	27	1	02/07/10	02/07/10	
Fluoride	SM 4500-F-C	10B1111	0.020	0.10	0.39	1	02/10/10	02/10/10	
Nitrate-N	EPA 300.0	10B0807	0.060	0.11	0.24	1	02/07/10	02/07/10	
Nitrate/Nitrite-N	EPA 300.0	10B0807	0.15	0.26	0.24	1	02/07/10	02/07/10	Ja
Sulfate	EPA 300.0	10B0857	4.0	10	160	20	02/08/10	02/08/10	
Surfactants (MBAS)	SM5540-C	10B0757	0.025	0.10	0.038	1	02/06/10	02/06/10	Ja
Total Dissolved Solids	SM2540C	10B1300	1.0	10	400	1	02/11/10	02/11/10	
Total Organic Carbon	SM5310B	10B1284	0.50	1.0	7.1	1	02/11/10	02/11/10	
Total Suspended Solids	SM 2540D	10B1450	1.0	10	9.0	1	02/11/10	02/11/10	Ja
Sample ID: ITB0783-01 (Outfall 002 - Water)									
Reporting Units: ml/l									
Total Settleable Solids	SM2540F	10B0752	0.10	0.10	ND	1	02/06/10	02/06/10	
Sample ID: ITB0888-01 (Outfall 002 (Composite) - Water)									
Reporting Units: NTU									
Turbidity	EPA 180.1	10B0771	0.040	1.0	11	1	02/07/10	02/07/10	
Sample ID: ITB0783-01 (Outfall 002 - Water)									
Reporting Units: ug/l									
Total Cyanide	SM4500CN-E	10B1250	2.2	5.0	ND	1	02/10/10	02/10/10	
Sample ID: ITB0888-01 (Outfall 002 (Composite) - Water)									
Reporting Units: ug/l									
Perchlorate	EPA 314.0	10B1873	0.90	4.0	ND	1	02/16/10	02/16/10	
Nitrite-N	EPA 300.0	10B0807	90	150	ND	1	02/07/10	02/07/10	
Sample ID: ITB0783-01 (Outfall 002 - Water)									
Reporting Units: umhos/cm									
Specific Conductance	SM2510B	10B1119	1.0	1.0	670	1	02/10/10	02/10/10	

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Attention: Bronwyn Kelly

Project ID: Annual Outfall 002

Report Number: ITB0783

Sampled: 02/05/10

Received: 02/05/10

ASTM 5174-91

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0888-01 (Outfall 002 (Composite) - Water)									
Reporting Units: pCi/L									
Total Uranium	ASTM 5174-91	53280	0.21	0.69	1.48	1	02/23/10	02/26/10	

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Sampled: 02/05/10

Received: 02/05/10

EPA 900.0 MOD

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0888-01 (Outfall 002 (Composite) - Water)									
Reporting Units: pCi/L									
Gross Alpha	EPA 900.0 MOD	43108	3	3	4.5	1	02/10/10	02/18/10	
Gross Beta	EPA 900.0 MOD	43108	1.3	4	2.9	1	02/10/10	02/18/10	Jb

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Sampled: 02/05/10

Received: 02/05/10

EPA 901.1 MOD

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0888-01 (Outfall 002 (Composite) - Water)									
Reporting Units: pCi/L									
Cesium 137	EPA 901.1 MOD	42136	10	20	2.6	1	02/11/10	02/19/10	U
Potassium 40	EPA 901.1 MOD	42136	190	NA	-40	1	02/11/10	02/19/10	U

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Sampled: 02/05/10

Received: 02/05/10

EPA 903.0 MOD

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0888-01 (Outfall 002 (Composite) - Water)									
Reporting Units: pCi/L									
Radium (226)	EPA 903.0 MOD	41160	0.2	1	0.1	1	02/10/10	02/26/10	U

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Sampled: 02/05/10

Received: 02/05/10

EPA 904 MOD

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0888-01RE1 (Outfall 002 (Composite) - Water)									
Reporting Units: pCi/L									
Radium 228	EPA 904 MOD	60257	0.37	1	-0.04	1	03/01/10	03/05/10	U

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Sampled: 02/05/10

Received: 02/05/10

EPA 905 MOD

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0888-01 (Outfall 002 (Composite) - Water)									
Reporting Units: pCi/L									
Strontium 90	EPA 905 MOD	41162	0.42	3	0.37	1	02/10/10	02/19/10	U

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Sampled: 02/05/10

Received: 02/05/10

EPA 906.0 MOD

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0888-01 (Outfall 002 (Composite) - Water)									
Reporting Units: pCi/L									
Tritium	EPA 906.0 MOD	49035	93	500	109	1	02/18/10	02/18/10	Jb

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Project ID: Annual Outfall 002

Report Number: ITB0783

Sampled: 02/05/10
 Received: 02/05/10

EPA-5 1613B

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0888-01 (Outfall 002 (Composite) - Water)									
Reporting Units: ug/L									
1,2,3,4,6,7,8-HpCDD	EPA-5 1613B	48124	0.00000058	0.00005	4.7e-006	1	02/17/10	02/19/10	J, Ba
1,2,3,4,6,7,8-HpCDF	EPA-5 1613B	48124	0.00000037	0.00005	1.9e-006	1	02/17/10	02/19/10	J, Q, Ba
2,3,7,8-TCDF	EPA-5 1613B	48124	0.00000036	0.00001	8.1e-007	1	02/17/10	02/19/10	J, Q
1,2,3,4,7,8,9-HpCDF	EPA-5 1613B	48124	0.00000068	0.00005	6.4e-007	1	02/17/10	02/19/10	J, Q
1,2,3,4,7,8-HxCDD	EPA-5 1613B	48124	0.00000051	0.00005	2.9e-007	1	02/17/10	02/19/10	J, Q
1,2,3,4,7,8-HxCDF	EPA-5 1613B	48124	0.00000041	0.00005	8e-007	1	02/17/10	02/19/10	J
1,2,3,6,7,8-HxCDD	EPA-5 1613B	48124	0.00000051	0.00005	ND	1	02/17/10	02/19/10	
1,2,3,6,7,8-HxCDF	EPA-5 1613B	48124	0.00000037	0.00005	5.5e-007	1	02/17/10	02/19/10	J
1,2,3,7,8,9-HxCDD	EPA-5 1613B	48124	0.00000039	0.00005	5e-007	1	02/17/10	02/19/10	J
1,2,3,7,8,9-HxCDF	EPA-5 1613B	48124	0.00000049	0.00005	ND	1	02/17/10	02/19/10	
1,2,3,7,8-PeCDD	EPA-5 1613B	48124	0.00000058	0.00005	ND	1	02/17/10	02/19/10	
1,2,3,7,8-PeCDF	EPA-5 1613B	48124	0.00000044	0.00005	ND	1	02/17/10	02/19/10	
2,3,4,6,7,8-HxCDF	EPA-5 1613B	48124	0.00000036	0.00005	ND	1	02/17/10	02/19/10	
2,3,4,7,8-PeCDF	EPA-5 1613B	48124	0.00000054	0.00005	ND	1	02/17/10	02/19/10	
2,3,7,8-TCDD	EPA-5 1613B	48124	0.00000046	0.00001	ND	1	02/17/10	02/19/10	
OCDD	EPA-5 1613B	48124	0.0000012	0.0001	3.7e-005	1	02/17/10	02/19/10	J, Ba
OCDF	EPA-5 1613B	48124	0.00000076	0.0001	4.4e-006	1	02/17/10	02/19/10	J, Ba
Total HpCDD	EPA-5 1613B	48124	0.00000058	0.00005	1.5e-005	1	02/17/10	02/19/10	J, Ba
Total HpCDF	EPA-5 1613B	48124	0.00000037	0.00005	3.9e-006	1	02/17/10	02/19/10	J, Q, Ba
Total HxCDD	EPA-5 1613B	48124	0.00000039	0.00005	1.5e-006	1	02/17/10	02/19/10	J, Q
Total HxCDF	EPA-5 1613B	48124	0.00000036	0.00005	1.9e-006	1	02/17/10	02/19/10	J, Q
Total PeCDD	EPA-5 1613B	48124	0.00000058	0.00005	ND	1	02/17/10	02/19/10	
Total PeCDF	EPA-5 1613B	48124	0.00000012	0.00005	ND	1	02/17/10	02/19/10	
Total TCDD	EPA-5 1613B	48124	0.00000046	0.00001	ND	1	02/17/10	02/19/10	
Total TCDF	EPA-5 1613B	48124	0.00000036	0.00001	1.5e-006	1	02/17/10	02/19/10	J, Q

Surrogate: 13C-2,3,7,8-TCDF (24-169%)	71 %
Surrogate: 37Cl4-2,3,7,8-TCDD (35-197%)	89 %
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD (23-140%)	103 %
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF (28-143%)	99 %
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF (26-138%)	90 %
Surrogate: 13C-1,2,3,4,7,8-HxCDD (32-141%)	105 %
Surrogate: 13C-1,2,3,4,7,8-HxCDF (26-152%)	99 %
Surrogate: 13C-1,2,3,6,7,8-HxCDD (28-130%)	95 %
Surrogate: 13C-1,2,3,6,7,8-HxCDF (26-123%)	100 %
Surrogate: 13C-1,2,3,7,8,9-HxCDF (29-147%)	93 %
Surrogate: 13C-1,2,3,7,8-PeCDD (25-181%)	90 %
Surrogate: 13C-1,2,3,7,8-PeCDF (24-185%)	85 %
Surrogate: 13C-2,3,4,6,7,8-HxCDF (28-136%)	106 %
Surrogate: 13C-2,3,4,7,8-PeCDF (21-178%)	81 %
Surrogate: 13C-2,3,7,8-TCDD (25-164%)	81 %
Surrogate: 13C-OCDD (17-157%)	102 %

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Attention: Bronwyn Kelly

Project ID: Annual Outfall 002

Report Number: ITB0783

Sampled: 02/05/10

Received: 02/05/10

EPA-5 1613B

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0888-01RE1 (Outfall 002 (Composite) - Water) - cont.									
Reporting Units: ug/L									
2,3,7,8-TCDF	EPA-5 1613B	48124	0.0000019	0.00001	ND	1	02/17/10	02/19/10	
Surrogate: 13C-2,3,7,8-TCDF (24-169%)					92 %				
Surrogate: 37Cl4-2,3,7,8-TCDD (35-197%)					89 %				

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Report Number: ITB0783

Sampled: 02/05/10

Received: 02/05/10

SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: Outfall 002 (ITB0783-01) - Water					
EPA 218.6	1	02/05/2010 09:30	02/05/2010 19:20	02/05/2010 22:45	02/05/2010 23:01
EPA 624	3	02/05/2010 09:30	02/05/2010 19:20	02/07/2010 00:00	02/08/2010 02:21
SM2540F	2	02/05/2010 09:30	02/05/2010 19:20	02/06/2010 10:40	02/06/2010 12:45
Sample ID: Trip Blanks (ITB0783-02) - Water					
EPA 624	3	02/05/2010 09:30	02/05/2010 19:20	02/07/2010 00:00	02/08/2010 01:24
Sample ID: Outfall 002 (Composite) (ITB0888-01) - Water					
EPA 180.1	2	02/05/2010 21:03	02/06/2010 17:00	02/07/2010 08:03	02/07/2010 08:30
EPA 300.0	2	02/05/2010 21:03	02/06/2010 17:00	02/07/2010 18:15	02/07/2010 18:43
Filtration	1	02/05/2010 21:03	02/06/2010 17:00	02/08/2010 14:27	02/08/2010 14:28
SM5210B	2	02/05/2010 21:03	02/06/2010 17:00	02/07/2010 11:58	02/12/2010 16:10
SM5540-C	2	02/05/2010 21:03	02/06/2010 17:00	02/06/2010 20:00	02/06/2010 20:36

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Report Number: ITB0783

Sampled: 02/05/10
 Received: 02/05/10

METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1671 Extracted: 02/13/10											
Blank Analyzed: 02/13/2010 (10B1671-BLK1)											
GRO (C4 - C12)	ND	100	25	ug/l							
Surrogate: 4-BFB (FID)	10.8			ug/l	10.0		108	65-140			
LCS Analyzed: 02/13/2010 (10B1671-BS1)											
GRO (C4 - C12)	805	100	25	ug/l	800		101	80-120			
Surrogate: 4-BFB (FID)	11.5			ug/l	10.0		115	65-140			
Matrix Spike Analyzed: 02/13/2010 (10B1671-MS1) Source: ITB1599-01											
GRO (C4 - C12)	458	100	25	ug/l	220	165	133	65-140			
Surrogate: 4-BFB (FID)	11.5			ug/l	10.0		115	65-140			
Matrix Spike Dup Analyzed: 02/13/2010 (10B1671-MSD1) Source: ITB1599-01											
GRO (C4 - C12)	364	100	25	ug/l	220	165	90	65-140	23	20	R
Surrogate: 4-BFB (FID)	10.6			ug/l	10.0		106	65-140			

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Report Number: ITB0783

Sampled: 02/05/10
 Received: 02/05/10

METHOD BLANK/QC DATA

EXTRACTABLE FUEL HYDROCARBONS (EPA 3510C/EPA 8015B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1526 Extracted: 02/12/10											
Blank Analyzed: 02/12/2010 (10B1526-BLK1)											
DRO (C13 - C28)	ND	100	50	ug/l							
EFH (C10 - C28)	ND	100	50	ug/l							
Surrogate: n-Octacosane	145			ug/l	200		72	45-120			
LCS Analyzed: 02/12/2010 (10B1526-BS1)											
EFH (C10 - C28)	547	100	50	ug/l	1000		55	40-115			MNR1
Surrogate: n-Octacosane	116			ug/l	200		58	45-120			
LCS Dup Analyzed: 02/12/2010 (10B1526-BSD1)											
EFH (C10 - C28)	584	100	50	ug/l	1000		58	40-115	7	25	
Surrogate: n-Octacosane	125			ug/l	200		63	45-120			

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Sampled: 02/05/10
 Received: 02/05/10

METHOD BLANK/QC DATA

PURGEABLES BY GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B0785 Extracted: 02/07/10											
Blank Analyzed: 02/07/2010 (10B0785-BLK1)											
Benzene	ND	0.50	0.28	ug/l							
Benzene	ND	0.50	0.28	ug/l							
Bromodichloromethane	ND	0.50	0.30	ug/l							
Bromoform	ND	0.50	0.40	ug/l							
Bromomethane	ND	1.0	0.42	ug/l							
Carbon tetrachloride	ND	0.50	0.28	ug/l							
Carbon tetrachloride	ND	0.50	0.28	ug/l							
Chlorobenzene	ND	0.50	0.36	ug/l							
Chloroethane	ND	1.0	0.40	ug/l							
Chloroform	ND	0.50	0.33	ug/l							
Chloroform	ND	0.50	0.33	ug/l							
Chloromethane	ND	0.50	0.40	ug/l							
Dibromochloromethane	ND	0.50	0.40	ug/l							
1,2-Dichlorobenzene	ND	0.50	0.32	ug/l							
1,3-Dichlorobenzene	ND	0.50	0.35	ug/l							
1,4-Dichlorobenzene	ND	0.50	0.37	ug/l							
1,1-Dichloroethane	ND	0.50	0.40	ug/l							
1,1-Dichloroethane	ND	0.50	0.40	ug/l							
1,2-Dichloroethane	ND	0.50	0.28	ug/l							
1,2-Dichloroethane	ND	0.50	0.28	ug/l							
1,1-Dichloroethene	ND	0.50	0.42	ug/l							
1,1-Dichloroethene	ND	0.50	0.42	ug/l							
cis-1,2-Dichloroethene	ND	0.50	0.32	ug/l							
trans-1,2-Dichloroethene	ND	0.50	0.30	ug/l							
1,2-Dichloropropane	ND	0.50	0.35	ug/l							
cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l							
trans-1,3-Dichloropropene	ND	0.50	0.32	ug/l							
1,2-Dichloro-1,1,2-trifluoroethane	ND	2.0	1.1	ug/l							
Ethylbenzene	ND	0.50	0.25	ug/l							
Ethylbenzene	ND	0.50	0.25	ug/l							
Methylene chloride	ND	1.0	0.95	ug/l							
1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l							
Tetrachloroethene	ND	0.50	0.32	ug/l							
Tetrachloroethene	ND	0.50	0.32	ug/l							
Toluene	ND	0.50	0.36	ug/l							

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Report Number: ITB0783

Sampled: 02/05/10
 Received: 02/05/10

METHOD BLANK/QC DATA

PURGEABLES BY GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B0785 Extracted: 02/07/10											
Blank Analyzed: 02/07/2010 (10B0785-BLK1)											
Toluene	ND	0.50	0.36	ug/l							
1,1,1-Trichloroethane	ND	0.50	0.30	ug/l							
1,1,1-Trichloroethane	ND	0.50	0.30	ug/l							
1,1,2-Trichloroethane	ND	0.50	0.30	ug/l							
1,1,2-Trichloroethane	ND	0.50	0.30	ug/l							
Trichloroethene	ND	0.50	0.26	ug/l							
Trichloroethene	ND	0.50	0.26	ug/l							
Trichlorofluoromethane	ND	0.50	0.34	ug/l							
Trichlorofluoromethane	ND	0.50	0.34	ug/l							
Trichlorotrifluoroethane (Freon 113)	ND	5.0	0.50	ug/l							
Trichlorotrifluoroethane (Freon 113)	ND	5.0	0.50	ug/l							
Vinyl chloride	ND	0.50	0.40	ug/l							
Vinyl chloride	ND	0.50	0.40	ug/l							
Xylenes, Total	ND	1.5	0.90	ug/l							
Xylenes, Total	ND	1.5	0.90	ug/l							
Cyclohexane	ND	1.0	0.40	ug/l							
Surrogate: 4-Bromofluorobenzene	26.2			ug/l	25.0		105	80-120			
Surrogate: 4-Bromofluorobenzene	26.2			ug/l	25.0		105	80-120			
Surrogate: Dibromofluoromethane	23.9			ug/l	25.0		96	80-120			
Surrogate: Dibromofluoromethane	23.9			ug/l	25.0		96	80-120			
Surrogate: Toluene-d8	27.0			ug/l	25.0		108	80-120			
Surrogate: Toluene-d8	27.0			ug/l	25.0		108	80-120			
LCS Analyzed: 02/07/2010 (10B0785-BS1)											
Benzene	24.1	0.50	0.28	ug/l	25.0		96	70-120			
Benzene	24.1	0.50	0.28	ug/l	25.0		96	70-120			
Bromodichloromethane	28.8	0.50	0.30	ug/l	25.0		115	70-135			
Bromoform	22.2	0.50	0.40	ug/l	25.0		89	55-130			
Bromomethane	30.3	1.0	0.42	ug/l	25.0		121	65-140			
Carbon tetrachloride	39.8	0.50	0.28	ug/l	25.0		159	65-140			L
Carbon tetrachloride	39.8	0.50	0.28	ug/l	25.0		159	65-140			L
Chlorobenzene	25.9	0.50	0.36	ug/l	25.0		104	75-120			
Chloroethane	27.2	1.0	0.40	ug/l	25.0		109	60-140			
Chloroform	25.5	0.50	0.33	ug/l	25.0		102	70-130			
Chloroform	25.5	0.50	0.33	ug/l	25.0		102	70-130			
Chloromethane	28.2	0.50	0.40	ug/l	25.0		113	50-140			

TestAmerica Irvine

Kathleen A. Robb For Heather Clark
 Project Manager

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

Project ID: Annual Outfall 002

Report Number: ITB0783

Sampled: 02/05/10
 Received: 02/05/10

METHOD BLANK/QC DATA

PURGEABLES BY GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B0785 Extracted: 02/07/10											
LCS Analyzed: 02/07/2010 (10B0785-BS1)											
Dibromochloromethane	25.7	0.50	0.40	ug/l	25.0		103	70-140			
1,2-Dichlorobenzene	26.1	0.50	0.32	ug/l	25.0		104	75-120			
1,3-Dichlorobenzene	27.0	0.50	0.35	ug/l	25.0		108	75-120			
1,4-Dichlorobenzene	26.6	0.50	0.37	ug/l	25.0		107	75-120			
1,1-Dichloroethane	25.1	0.50	0.40	ug/l	25.0		100	70-125			
1,1-Dichloroethane	25.1	0.50	0.40	ug/l	25.0		100	70-125			
1,2-Dichloroethane	25.5	0.50	0.28	ug/l	25.0		102	60-140			
1,2-Dichloroethane	25.5	0.50	0.28	ug/l	25.0		102	60-140			
1,1-Dichloroethene	26.8	0.50	0.42	ug/l	25.0		107	70-125			
1,1-Dichloroethene	26.8	0.50	0.42	ug/l	25.0		107	70-125			
cis-1,2-Dichloroethene	25.6	0.50	0.32	ug/l	25.0		102	70-125			
trans-1,2-Dichloroethene	25.4	0.50	0.30	ug/l	25.0		102	70-125			
1,2-Dichloropropane	22.8	0.50	0.35	ug/l	25.0		91	70-125			
cis-1,3-Dichloropropene	30.0	0.50	0.22	ug/l	25.0		120	75-125			
trans-1,3-Dichloropropene	23.0	0.50	0.32	ug/l	25.0		92	70-125			
Ethylbenzene	28.4	0.50	0.25	ug/l	25.0		114	75-125			
Ethylbenzene	28.4	0.50	0.25	ug/l	25.0		114	75-125			
Methylene chloride	21.2	1.0	0.95	ug/l	25.0		85	55-130			
1,1,2,2-Tetrachloroethane	22.6	0.50	0.30	ug/l	25.0		90	55-130			
Tetrachloroethene	28.9	0.50	0.32	ug/l	25.0		116	70-125			
Tetrachloroethene	28.9	0.50	0.32	ug/l	25.0		116	70-125			
Toluene	25.5	0.50	0.36	ug/l	25.0		102	70-120			
Toluene	25.5	0.50	0.36	ug/l	25.0		102	70-120			
1,1,1-Trichloroethane	31.7	0.50	0.30	ug/l	25.0		127	65-135			
1,1,1-Trichloroethane	31.7	0.50	0.30	ug/l	25.0		127	65-135			
1,1,2-Trichloroethane	22.6	0.50	0.30	ug/l	25.0		91	70-125			
1,1,2-Trichloroethane	22.6	0.50	0.30	ug/l	25.0		91	70-125			
Trichloroethene	28.0	0.50	0.26	ug/l	25.0		112	70-125			
Trichloroethene	28.0	0.50	0.26	ug/l	25.0		112	70-125			
Trichlorofluoromethane	31.6	0.50	0.34	ug/l	25.0		126	65-145			
Trichlorofluoromethane	31.6	0.50	0.34	ug/l	25.0		126	65-145			
Vinyl chloride	30.9	0.50	0.40	ug/l	25.0		124	55-135			
Vinyl chloride	30.9	0.50	0.40	ug/l	25.0		124	55-135			
Xylenes, Total	79.7	1.5	0.90	ug/l	75.0		106	70-125			
Xylenes, Total	79.7	1.5	0.90	ug/l	75.0		106	70-125			

TestAmerica Irvine

Kathleen A. Robb For Heather Clark
 Project Manager

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

Project ID: Annual Outfall 002

Report Number: ITB0783

Sampled: 02/05/10
Received: 02/05/10

METHOD BLANK/QC DATA

PURGEABLES BY GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B0785 Extracted: 02/07/10											
LCS Analyzed: 02/07/2010 (10B0785-BS1)											
Surrogate: 4-Bromofluorobenzene	28.3			ug/l	25.0		113	80-120			
Surrogate: 4-Bromofluorobenzene	28.3			ug/l	25.0		113	80-120			
Surrogate: Dibromofluoromethane	24.8			ug/l	25.0		99	80-120			
Surrogate: Dibromofluoromethane	24.8			ug/l	25.0		99	80-120			
Surrogate: Toluene-d8	27.3			ug/l	25.0		109	80-120			
Surrogate: Toluene-d8	27.3			ug/l	25.0		109	80-120			
Matrix Spike Analyzed: 02/07/2010 (10B0785-MS1)											
Source: ITB0302-01											
Benzene	21.5	0.50	0.28	ug/l	25.0	ND	86	65-125			
Benzene	21.5	0.50	0.28	ug/l	25.0	ND	86	65-125			
Bromodichloromethane	26.4	0.50	0.30	ug/l	25.0	ND	106	70-135			
Bromoform	19.7	0.50	0.40	ug/l	25.0	ND	79	55-135			
Bromomethane	26.9	1.0	0.42	ug/l	25.0	ND	108	55-145			
Carbon tetrachloride	35.7	0.50	0.28	ug/l	25.0	ND	143	65-140			M7
Carbon tetrachloride	35.7	0.50	0.28	ug/l	25.0	ND	143	65-140			M7
Chlorobenzene	23.7	0.50	0.36	ug/l	25.0	ND	95	75-125			
Chloroethane	24.5	1.0	0.40	ug/l	25.0	ND	98	55-140			
Chloroform	23.0	0.50	0.33	ug/l	25.0	ND	92	65-135			
Chloroform	23.0	0.50	0.33	ug/l	25.0	ND	92	65-135			
Chloromethane	25.6	0.50	0.40	ug/l	25.0	ND	103	45-145			
Dibromochloromethane	23.2	0.50	0.40	ug/l	25.0	ND	93	65-140			
1,2-Dichlorobenzene	23.4	0.50	0.32	ug/l	25.0	ND	94	75-125			
1,3-Dichlorobenzene	24.0	0.50	0.35	ug/l	25.0	ND	96	75-125			
1,4-Dichlorobenzene	24.0	0.50	0.37	ug/l	25.0	ND	96	75-125			
1,1-Dichloroethane	22.7	0.50	0.40	ug/l	25.0	ND	91	65-130			
1,1-Dichloroethane	22.7	0.50	0.40	ug/l	25.0	ND	91	65-130			
1,2-Dichloroethane	23.4	0.50	0.28	ug/l	25.0	ND	93	60-140			
1,2-Dichloroethane	23.4	0.50	0.28	ug/l	25.0	ND	93	60-140			
1,1-Dichloroethane	25.0	0.50	0.42	ug/l	25.0	0.470	98	60-130			
1,1-Dichloroethane	25.0	0.50	0.42	ug/l	25.0	0.470	98	60-130			
cis-1,2-Dichloroethene	23.1	0.50	0.32	ug/l	25.0	ND	93	65-130			
trans-1,2-Dichloroethene	22.8	0.50	0.30	ug/l	25.0	ND	91	65-130			
1,2-Dichloropropane	20.3	0.50	0.35	ug/l	25.0	ND	81	65-130			
cis-1,3-Dichloropropene	26.6	0.50	0.22	ug/l	25.0	ND	106	70-130			
trans-1,3-Dichloropropene	21.0	0.50	0.32	ug/l	25.0	ND	84	65-135			
Ethylbenzene	25.6	0.50	0.25	ug/l	25.0	ND	103	65-130			

TestAmerica Irvine

Kathleen A. Robb For Heather Clark
Project Manager

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

Project ID: Annual Outfall 002

Report Number: ITB0783

Sampled: 02/05/10
Received: 02/05/10

METHOD BLANK/QC DATA

PURGEABLES BY GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B0785 Extracted: 02/07/10											
Matrix Spike Analyzed: 02/07/2010 (10B0785-MS1)					Source: ITB0302-01						
Ethylbenzene	25.6	0.50	0.25	ug/l	25.0	ND	103	65-130			
Methylene chloride	18.6	1.0	0.95	ug/l	25.0	ND	74	50-135			
1,1,2,2-Tetrachloroethane	19.8	0.50	0.30	ug/l	25.0	ND	79	55-135			
Tetrachloroethene	29.3	0.50	0.32	ug/l	25.0	3.33	104	65-130			
Tetrachloroethene	29.3	0.50	0.32	ug/l	25.0	3.33	104	65-130			
Toluene	23.0	0.50	0.36	ug/l	25.0	ND	92	70-125			
Toluene	23.0	0.50	0.36	ug/l	25.0	ND	92	70-125			
1,1,1-Trichloroethane	28.6	0.50	0.30	ug/l	25.0	ND	115	65-140			
1,1,1-Trichloroethane	28.6	0.50	0.30	ug/l	25.0	ND	115	65-140			
1,1,2-Trichloroethane	20.7	0.50	0.30	ug/l	25.0	ND	83	65-130			
1,1,2-Trichloroethane	20.7	0.50	0.30	ug/l	25.0	ND	83	65-130			
Trichloroethene	26.5	0.50	0.26	ug/l	25.0	1.63	100	65-125			
Trichloroethene	26.5	0.50	0.26	ug/l	25.0	1.63	100	65-125			
Trichlorofluoromethane	29.1	0.50	0.34	ug/l	25.0	ND	116	60-145			
Trichlorofluoromethane	29.1	0.50	0.34	ug/l	25.0	ND	116	60-145			
Vinyl chloride	28.1	0.50	0.40	ug/l	25.0	ND	112	45-140			
Vinyl chloride	28.1	0.50	0.40	ug/l	25.0	ND	112	45-140			
Xylenes, Total	71.7	1.5	0.90	ug/l	75.0	ND	96	60-130			
Xylenes, Total	71.7	1.5	0.90	ug/l	75.0	ND	96	60-130			
Surrogate: 4-Bromofluorobenzene	28.7			ug/l	25.0		115	80-120			
Surrogate: 4-Bromofluorobenzene	28.7			ug/l	25.0		115	80-120			
Surrogate: Dibromofluoromethane	25.0			ug/l	25.0		100	80-120			
Surrogate: Dibromofluoromethane	25.0			ug/l	25.0		100	80-120			
Surrogate: Toluene-d8	27.1			ug/l	25.0		108	80-120			
Surrogate: Toluene-d8	27.1			ug/l	25.0		108	80-120			
Matrix Spike Dup Analyzed: 02/07/2010 (10B0785-MSD1)					Source: ITB0302-01						
Benzene	24.4	0.50	0.28	ug/l	25.0	ND	98	65-125	13	20	
Benzene	24.4	0.50	0.28	ug/l	25.0	ND	98	65-125	13	20	
Bromodichloromethane	29.7	0.50	0.30	ug/l	25.0	ND	119	70-135	12	20	
Bromoform	23.7	0.50	0.40	ug/l	25.0	ND	95	55-135	18	25	
Bromomethane	29.8	1.0	0.42	ug/l	25.0	ND	119	55-145	10	25	
Carbon tetrachloride	39.9	0.50	0.28	ug/l	25.0	ND	160	65-140	11	25	M7
Carbon tetrachloride	39.9	0.50	0.28	ug/l	25.0	ND	160	65-140	11	25	M7
Chlorobenzene	26.9	0.50	0.36	ug/l	25.0	ND	108	75-125	13	20	
Chloroethane	27.2	1.0	0.40	ug/l	25.0	ND	109	55-140	11	25	

TestAmerica Irvine

Kathleen A. Robb For Heather Clark
Project Manager

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

Project ID: Annual Outfall 002

Report Number: ITB0783

Sampled: 02/05/10
Received: 02/05/10

METHOD BLANK/QC DATA

PURGEABLES BY GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B0785 Extracted: 02/07/10											
Matrix Spike Dup Analyzed: 02/07/2010 (10B0785-MSD1)						Source: ITB0302-01					
Chloroform	25.8	0.50	0.33	ug/l	25.0	ND	103	65-135	11	20	
Chloroform	25.8	0.50	0.33	ug/l	25.0	ND	103	65-135	11	20	
Chloromethane	28.8	0.50	0.40	ug/l	25.0	ND	115	45-145	12	25	
Dibromochloromethane	27.2	0.50	0.40	ug/l	25.0	ND	109	65-140	16	25	
1,2-Dichlorobenzene	26.6	0.50	0.32	ug/l	25.0	ND	106	75-125	13	20	
1,3-Dichlorobenzene	27.4	0.50	0.35	ug/l	25.0	ND	109	75-125	13	20	
1,4-Dichlorobenzene	26.9	0.50	0.37	ug/l	25.0	ND	108	75-125	11	20	
1,1-Dichloroethane	25.2	0.50	0.40	ug/l	25.0	ND	101	65-130	10	20	
1,1-Dichloroethane	25.2	0.50	0.40	ug/l	25.0	ND	101	65-130	10	20	
1,2-Dichloroethane	26.8	0.50	0.28	ug/l	25.0	ND	107	60-140	14	20	
1,2-Dichloroethane	26.8	0.50	0.28	ug/l	25.0	ND	107	60-140	14	20	
1,1-Dichloroethane	27.6	0.50	0.42	ug/l	25.0	0.470	108	60-130	10	20	
1,1-Dichloroethane	27.6	0.50	0.42	ug/l	25.0	0.470	108	60-130	10	20	
cis-1,2-Dichloroethene	26.0	0.50	0.32	ug/l	25.0	ND	104	65-130	12	20	
trans-1,2-Dichloroethene	25.4	0.50	0.30	ug/l	25.0	ND	102	65-130	11	20	
1,2-Dichloropropane	23.5	0.50	0.35	ug/l	25.0	ND	94	65-130	15	20	
cis-1,3-Dichloropropene	30.8	0.50	0.22	ug/l	25.0	ND	123	70-130	15	20	
trans-1,3-Dichloropropene	24.5	0.50	0.32	ug/l	25.0	ND	98	65-135	16	25	
Ethylbenzene	29.0	0.50	0.25	ug/l	25.0	ND	116	65-130	12	20	
Ethylbenzene	29.0	0.50	0.25	ug/l	25.0	ND	116	65-130	12	20	
Methylene chloride	21.4	1.0	0.95	ug/l	25.0	ND	85	50-135	14	20	
1,1,2,2-Tetrachloroethane	24.3	0.50	0.30	ug/l	25.0	ND	97	55-135	20	30	
Tetrachloroethene	32.2	0.50	0.32	ug/l	25.0	3.33	115	65-130	9	20	
Tetrachloroethene	32.2	0.50	0.32	ug/l	25.0	3.33	115	65-130	9	20	
Toluene	26.0	0.50	0.36	ug/l	25.0	ND	104	70-125	12	20	
Toluene	26.0	0.50	0.36	ug/l	25.0	ND	104	70-125	12	20	
1,1,1-Trichloroethane	31.6	0.50	0.30	ug/l	25.0	ND	126	65-140	10	20	
1,1,1-Trichloroethane	31.6	0.50	0.30	ug/l	25.0	ND	126	65-140	10	20	
1,1,2-Trichloroethane	23.6	0.50	0.30	ug/l	25.0	ND	95	65-130	13	25	
1,1,2-Trichloroethane	23.6	0.50	0.30	ug/l	25.0	ND	95	65-130	13	25	
Trichloroethene	30.2	0.50	0.26	ug/l	25.0	1.63	114	65-125	13	20	
Trichloroethene	30.2	0.50	0.26	ug/l	25.0	1.63	114	65-125	13	20	
Trichlorofluoromethane	32.0	0.50	0.34	ug/l	25.0	ND	128	60-145	10	25	
Trichlorofluoromethane	32.0	0.50	0.34	ug/l	25.0	ND	128	60-145	10	25	
Vinyl chloride	31.2	0.50	0.40	ug/l	25.0	ND	125	45-140	11	30	

TestAmerica Irvine

Kathleen A. Robb For Heather Clark
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

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

Project ID: Annual Outfall 002

Report Number: ITB0783

Sampled: 02/05/10
 Received: 02/05/10

METHOD BLANK/QC DATA

PURGEABLES BY GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B0785 Extracted: 02/07/10											
Matrix Spike Dup Analyzed: 02/07/2010 (10B0785-MSD1)						Source: ITB0302-01					
Vinyl chloride	31.2	0.50	0.40	ug/l	25.0	ND	125	45-140	11	30	
Xylenes, Total	80.9	1.5	0.90	ug/l	75.0	ND	108	60-130	12	20	
Xylenes, Total	80.9	1.5	0.90	ug/l	75.0	ND	108	60-130	12	20	
Surrogate: 4-Bromofluorobenzene	28.3			ug/l	25.0		113	80-120			
Surrogate: 4-Bromofluorobenzene	28.3			ug/l	25.0		113	80-120			
Surrogate: Dibromofluoromethane	24.7			ug/l	25.0		99	80-120			
Surrogate: Dibromofluoromethane	24.7			ug/l	25.0		99	80-120			
Surrogate: Toluene-d8	27.4			ug/l	25.0		109	80-120			
Surrogate: Toluene-d8	27.4			ug/l	25.0		109	80-120			

TestAmerica Irvine

Kathleen A. Robb For Heather Clark
 Project Manager

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METHOD BLANK/QC DATA

PURGEABLES-- GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B0785 Extracted: 02/07/10											
Blank Analyzed: 02/07/2010 (10B0785-BLK1)											
Acrolein	ND	5.0	4.0	ug/l							
Acrylonitrile	ND	2.0	1.2	ug/l							
2-Chloroethyl vinyl ether	ND	5.0	1.8	ug/l							
Surrogate: 4-Bromofluorobenzene	26.2			ug/l	25.0		105	80-120			
Surrogate: Dibromofluoromethane	23.9			ug/l	25.0		96	80-120			
Surrogate: Toluene-d8	27.0			ug/l	25.0		108	80-120			
LCS Analyzed: 02/07/2010 (10B0785-BS1)											
2-Chloroethyl vinyl ether	18.7	5.0	1.8	ug/l	25.0		75	25-170			
Surrogate: 4-Bromofluorobenzene	28.3			ug/l	25.0		113	80-120			
Surrogate: Dibromofluoromethane	24.8			ug/l	25.0		99	80-120			
Surrogate: Toluene-d8	27.3			ug/l	25.0		109	80-120			
Matrix Spike Analyzed: 02/07/2010 (10B0785-MS1) Source: ITB0302-01											
2-Chloroethyl vinyl ether	ND	5.0	1.8	ug/l	25.0	ND		25-170			M13
Surrogate: 4-Bromofluorobenzene	28.7			ug/l	25.0		115	80-120			
Surrogate: Dibromofluoromethane	25.0			ug/l	25.0		100	80-120			
Surrogate: Toluene-d8	27.1			ug/l	25.0		108	80-120			
Matrix Spike Dup Analyzed: 02/07/2010 (10B0785-MSD1) Source: ITB0302-01											
2-Chloroethyl vinyl ether	ND	5.0	1.8	ug/l	25.0	ND		25-170		25	M13
Surrogate: 4-Bromofluorobenzene	28.3			ug/l	25.0		113	80-120			
Surrogate: Dibromofluoromethane	24.7			ug/l	25.0		99	80-120			
Surrogate: Toluene-d8	27.4			ug/l	25.0		109	80-120			

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Kathleen A. Robb For Heather Clark
Project Manager

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

Project ID: Annual Outfall 002

Report Number: ITB0783

Sampled: 02/05/10
 Received: 02/05/10

METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B0317 Extracted: 02/08/10											
Blank Analyzed: 02/08/2010 (10B0317-BLK1)											
1,4-Dioxane	ND	2.0	1.0	ug/l							
Surrogate: Dibromofluoromethane	0.980			ug/l	1.00		98	80-120			
LCS Analyzed: 02/08/2010 (10B0317-BS1)											
1,4-Dioxane	9.80	2.0	1.0	ug/l	10.0		98	70-125			
Surrogate: Dibromofluoromethane	0.960			ug/l	1.00		96	80-120			
Matrix Spike Analyzed: 02/08/2010 (10B0317-MS1) Source: ITB0632-01											
1,4-Dioxane	9.00	2.0	1.0	ug/l	10.0	ND	90	70-130			
Surrogate: Dibromofluoromethane	1.03			ug/l	1.00		103	80-120			
Matrix Spike Dup Analyzed: 02/08/2010 (10B0317-MSD1) Source: ITB0632-01											
1,4-Dioxane	9.37	2.0	1.0	ug/l	10.0	ND	94	70-130	4	30	
Surrogate: Dibromofluoromethane	1.02			ug/l	1.00		102	80-120			

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Sampled: 02/05/10
Received: 02/05/10

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	RPD Limit	Data Qualifiers
Batch: 10B1159 Extracted: 02/10/10											
Blank Analyzed: 02/15/2010 (10B1159-BLK1)											
Acenaphthene	ND	0.50	0.10	ug/l							
Acenaphthylene	ND	0.50	0.10	ug/l							
Aniline	ND	10	0.30	ug/l							
Anthracene	ND	0.50	0.10	ug/l							
Benzidine	ND	5.0	5.0	ug/l							
Benzo(a)anthracene	ND	5.0	0.10	ug/l							
Benzo(a)pyrene	ND	2.0	0.10	ug/l							
Benzo(b)fluoranthene	ND	2.0	0.10	ug/l							
Benzo(g,h,i)perylene	ND	5.0	0.10	ug/l							
Benzo(k)fluoranthene	ND	0.50	0.10	ug/l							
Benzoic acid	ND	20	3.0	ug/l							
Benzyl alcohol	ND	5.0	0.10	ug/l							
4-Bromophenyl phenyl ether	ND	1.0	0.10	ug/l							
Butyl benzyl phthalate	ND	5.0	0.70	ug/l							
4-Chloro-3-methylphenol	ND	2.0	0.20	ug/l							
4-Chloroaniline	ND	2.0	0.10	ug/l							
Bis(2-chloroethoxy)methane	ND	0.50	0.10	ug/l							
Bis(2-chloroethyl)ether	ND	0.50	0.10	ug/l							
Bis(2-chloroisopropyl)ether	ND	0.50	0.10	ug/l							
Bis(2-ethylhexyl)phthalate	ND	5.0	1.7	ug/l							
2-Chloronaphthalene	ND	0.50	0.10	ug/l							
2-Chlorophenol	ND	1.0	0.20	ug/l							
4-Chlorophenyl phenyl ether	ND	0.50	0.10	ug/l							
Chrysene	ND	0.50	0.10	ug/l							
Dibenz(a,h)anthracene	ND	0.50	0.10	ug/l							
Dibenzofuran	ND	0.50	0.10	ug/l							
Di-n-butyl phthalate	ND	2.0	0.20	ug/l							
1,2-Dichlorobenzene	ND	0.50	0.10	ug/l							
1,3-Dichlorobenzene	ND	0.50	0.10	ug/l							
1,4-Dichlorobenzene	ND	0.50	0.20	ug/l							
3,3'-Dichlorobenzidine	ND	5.0	5.0	ug/l							
2,4-Dichlorophenol	ND	2.0	0.20	ug/l							
Diethyl phthalate	ND	1.0	0.10	ug/l							
2,4-Dimethylphenol	ND	2.0	0.30	ug/l							
Dimethyl phthalate	ND	0.50	0.10	ug/l							

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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	RPD Limit	Data Qualifiers
Batch: 10B1159 Extracted: 02/10/10											
Blank Analyzed: 02/15/2010 (10B1159-BLK1)											
4,6-Dinitro-2-methylphenol	ND	5.0	0.20	ug/l							
2,4-Dinitrophenol	ND	5.0	0.90	ug/l							
2,4-Dinitrotoluene	ND	5.0	0.20	ug/l							
2,6-Dinitrotoluene	ND	5.0	0.10	ug/l							
Di-n-octyl phthalate	ND	5.0	0.10	ug/l							
1,2-Diphenylhydrazine/Azobenzene	ND	1.0	0.10	ug/l							
Fluoranthene	ND	0.50	0.10	ug/l							
Fluorene	ND	0.50	0.10	ug/l							
Hexachlorobenzene	ND	1.0	0.10	ug/l							
Hexachlorobutadiene	ND	2.0	0.20	ug/l							
Hexachlorocyclopentadiene	ND	5.0	0.10	ug/l							
Hexachloroethane	ND	3.0	0.20	ug/l							
Indeno(1,2,3-cd)pyrene	ND	2.0	0.10	ug/l							
Isophorone	ND	1.0	0.10	ug/l							
2-Methylnaphthalene	ND	1.0	0.10	ug/l							
2-Methylphenol	ND	2.0	0.10	ug/l							
4-Methylphenol	ND	5.0	0.20	ug/l							
Naphthalene	ND	1.0	0.10	ug/l							
2-Nitroaniline	ND	5.0	0.10	ug/l							
3-Nitroaniline	ND	5.0	0.20	ug/l							
4-Nitroaniline	ND	5.0	0.50	ug/l							
Nitrobenzene	ND	1.0	0.10	ug/l							
2-Nitrophenol	ND	2.0	0.10	ug/l							
4-Nitrophenol	ND	5.0	2.5	ug/l							
N-Nitroso-di-n-propylamine	ND	2.0	0.10	ug/l							
N-Nitrosodimethylamine	ND	2.0	0.10	ug/l							
N-Nitrosodiphenylamine	ND	1.0	0.10	ug/l							
Pentachlorophenol	ND	2.0	0.10	ug/l							
Phenanthrene	ND	0.50	0.10	ug/l							
Phenol	ND	1.0	0.30	ug/l							
Pyrene	ND	0.50	0.10	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	0.10	ug/l							
2,4,5-Trichlorophenol	ND	2.0	0.20	ug/l							
2,4,6-Trichlorophenol	ND	1.0	0.10	ug/l							
Surrogate: 2,4,6-Tribromophenol	20.9			ug/l	20.0		104	40-120			

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METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1159 Extracted: 02/10/10											
Blank Analyzed: 02/15/2010 (10B1159-BLK1)											
Surrogate: 2-Fluorobiphenyl	10.3			ug/l	10.0		103	50-120			
Surrogate: 2-Fluorophenol	14.7			ug/l	20.0		74	30-120			
Surrogate: Nitrobenzene-d5	8.54			ug/l	10.0		85	45-120			
Surrogate: Phenol-d6	15.2			ug/l	20.0		76	35-120			
Surrogate: Terphenyl-d14	10.2			ug/l	10.0		102	50-125			
LCS Analyzed: 02/15/2010 (10B1159-BS1)											
Acenaphthene	8.64	0.50	0.10	ug/l	10.0		86	60-120			
Acenaphthylene	9.02	0.50	0.10	ug/l	10.0		90	60-120			
Aniline	7.16	10	0.30	ug/l	10.0		72	35-120			Ja
Anthracene	9.24	0.50	0.10	ug/l	10.0		92	65-120			
Benzidine	5.98	5.0	5.0	ug/l	10.0		60	30-160			
Benzo(a)anthracene	9.58	5.0	0.10	ug/l	10.0		96	65-120			
Benzo(a)pyrene	9.92	2.0	0.10	ug/l	10.0		99	55-130			
Benzo(b)fluoranthene	9.96	2.0	0.10	ug/l	10.0		100	55-125			
Benzo(g,h,i)perylene	11.1	5.0	0.10	ug/l	10.0		111	45-135			
Benzo(k)fluoranthene	9.34	0.50	0.10	ug/l	10.0		93	50-125			
Benzoic acid	8.18	20	3.0	ug/l	10.0		82	25-120			Ja
Benzyl alcohol	8.10	5.0	0.10	ug/l	10.0		81	50-120			
4-Bromophenyl phenyl ether	9.46	1.0	0.10	ug/l	10.0		95	60-120			
Butyl benzyl phthalate	10.2	5.0	0.70	ug/l	10.0		102	55-130			
4-Chloro-3-methylphenol	8.26	2.0	0.20	ug/l	10.0		83	60-120			
4-Chloroaniline	7.82	2.0	0.10	ug/l	10.0		78	55-120			
Bis(2-chloroethoxy)methane	8.26	0.50	0.10	ug/l	10.0		83	55-120			
Bis(2-chloroethyl)ether	7.66	0.50	0.10	ug/l	10.0		77	50-120			
Bis(2-chloroisopropyl)ether	7.12	0.50	0.10	ug/l	10.0		71	45-120			
Bis(2-ethylhexyl)phthalate	10.1	5.0	1.7	ug/l	10.0		101	65-130			
2-Chloronaphthalene	8.34	0.50	0.10	ug/l	10.0		83	60-120			
2-Chlorophenol	7.78	1.0	0.20	ug/l	10.0		78	45-120			
4-Chlorophenyl phenyl ether	10.1	0.50	0.10	ug/l	10.0		101	65-120			
Chrysene	9.58	0.50	0.10	ug/l	10.0		96	65-120			
Dibenz(a,h)anthracene	10.2	0.50	0.10	ug/l	10.0		102	50-135			
Dibenzofuran	9.46	0.50	0.10	ug/l	10.0		95	65-120			
Di-n-butyl phthalate	9.34	2.0	0.20	ug/l	10.0		93	60-125			
1,2-Dichlorobenzene	7.14	0.50	0.10	ug/l	10.0		71	40-120			
1,3-Dichlorobenzene	6.68	0.50	0.10	ug/l	10.0		67	35-120			

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Project Manager

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

Project ID: Annual Outfall 002

Report Number: ITB0783

Sampled: 02/05/10
Received: 02/05/10

METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1159 Extracted: 02/10/10											
LCS Analyzed: 02/15/2010 (10B1159-BS1)											
1,4-Dichlorobenzene	6.72	0.50	0.20	ug/l	10.0		67	35-120			
3,3'-Dichlorobenzidine	8.16	5.0	5.0	ug/l	10.0		82	45-135			
2,4-Dichlorophenol	8.26	2.0	0.20	ug/l	10.0		83	55-120			
Diethyl phthalate	9.78	1.0	0.10	ug/l	10.0		98	55-120			
2,4-Dimethylphenol	7.00	2.0	0.30	ug/l	10.0		70	40-120			
Dimethyl phthalate	10.2	0.50	0.10	ug/l	10.0		102	30-120			
4,6-Dinitro-2-methylphenol	8.02	5.0	0.20	ug/l	10.0		80	45-120			
2,4-Dinitrophenol	8.18	5.0	0.90	ug/l	10.0		82	40-120			
2,4-Dinitrotoluene	9.60	5.0	0.20	ug/l	10.0		96	65-120			
2,6-Dinitrotoluene	9.78	5.0	0.10	ug/l	10.0		98	65-120			
Di-n-octyl phthalate	10.1	5.0	0.10	ug/l	10.0		101	65-135			
1,2-Diphenylhydrazine/Azobenzene	8.90	1.0	0.10	ug/l	10.0		89	60-120			
Fluoranthene	9.30	0.50	0.10	ug/l	10.0		93	60-120			
Fluorene	9.88	0.50	0.10	ug/l	10.0		99	65-120			
Hexachlorobenzene	9.10	1.0	0.10	ug/l	10.0		91	60-120			
Hexachlorobutadiene	6.16	2.0	0.20	ug/l	10.0		62	40-120			
Hexachlorocyclopentadiene	6.54	5.0	0.10	ug/l	10.0		65	25-120			
Hexachloroethane	6.02	3.0	0.20	ug/l	10.0		60	35-120			
Indeno(1,2,3-cd)pyrene	10.7	2.0	0.10	ug/l	10.0		107	45-135			
Isophorone	8.36	1.0	0.10	ug/l	10.0		84	50-120			
2-Methylnaphthalene	8.12	1.0	0.10	ug/l	10.0		81	55-120			
2-Methylphenol	7.62	2.0	0.10	ug/l	10.0		76	50-120			
4-Methylphenol	7.82	5.0	0.20	ug/l	10.0		78	50-120			
Naphthalene	7.80	1.0	0.10	ug/l	10.0		78	55-120			
2-Nitroaniline	9.98	5.0	0.10	ug/l	10.0		100	65-120			
3-Nitroaniline	10.2	5.0	0.20	ug/l	10.0		102	60-120			
4-Nitroaniline	9.78	5.0	0.50	ug/l	10.0		98	55-125			
Nitrobenzene	7.98	1.0	0.10	ug/l	10.0		80	55-120			
2-Nitrophenol	8.60	2.0	0.10	ug/l	10.0		86	50-120			
4-Nitrophenol	10.6	5.0	2.5	ug/l	10.0		106	45-120			
N-Nitroso-di-n-propylamine	7.64	2.0	0.10	ug/l	10.0		76	45-120			
N-Nitrosodimethylamine	8.18	2.0	0.10	ug/l	10.0		82	45-120			
N-Nitrosodiphenylamine	9.40	1.0	0.10	ug/l	10.0		94	60-120			
Pentachlorophenol	8.12	2.0	0.10	ug/l	10.0		81	50-120			
Phenanthrene	9.14	0.50	0.10	ug/l	10.0		91	65-120			

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Attention: Bronwyn Kelly

Project ID: Annual Outfall 002

Report Number: ITB0783

Sampled: 02/05/10
Received: 02/05/10

METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1159 Extracted: 02/10/10											
LCS Analyzed: 02/15/2010 (10B1159-BS1)											
Phenol	7.70	1.0	0.30	ug/l	10.0		77	40-120			
Pyrene	9.56	0.50	0.10	ug/l	10.0		96	55-125			
1,2,4-Trichlorobenzene	7.14	1.0	0.10	ug/l	10.0		71	45-120			
2,4,5-Trichlorophenol	9.00	2.0	0.20	ug/l	10.0		90	55-120			
2,4,6-Trichlorophenol	8.56	1.0	0.10	ug/l	10.0		86	55-120			
Surrogate: 2,4,6-Tribromophenol	20.9			ug/l	20.0		104	40-120			
Surrogate: 2-Fluorobiphenyl	8.88			ug/l	10.0		89	50-120			
Surrogate: 2-Fluorophenol	13.7			ug/l	20.0		69	30-120			
Surrogate: Nitrobenzene-d5	8.20			ug/l	10.0		82	45-120			
Surrogate: Phenol-d6	14.9			ug/l	20.0		75	35-120			
Surrogate: Terphenyl-d14	9.58			ug/l	10.0		96	50-125			
Matrix Spike Analyzed: 02/15/2010 (10B1159-MS1)											
Source: ITB0810-01											
Acenaphthene	8.02	0.49	0.098	ug/l	9.80	ND	82	60-120			
Acenaphthylene	7.22	0.49	0.098	ug/l	9.80	ND	74	60-120			
Aniline	ND	9.8	0.29	ug/l	9.80	ND		35-120			M2
Anthracene	7.84	0.49	0.098	ug/l	9.80	ND	80	65-120			
Benzidine	ND	4.9	4.9	ug/l	9.80	ND		30-160			M2
Benzo(a)anthracene	8.73	4.9	0.098	ug/l	9.80	ND	89	65-120			
Benzo(a)pyrene	8.22	2.0	0.098	ug/l	9.80	ND	84	55-130			
Benzo(b)fluoranthene	9.22	2.0	0.098	ug/l	9.80	ND	94	55-125			
Benzo(g,h,i)perylene	9.82	4.9	0.098	ug/l	9.80	ND	100	45-135			
Benzo(k)fluoranthene	8.45	0.49	0.098	ug/l	9.80	ND	86	55-125			
Benzoic acid	11.6	20	2.9	ug/l	9.80	ND	118	25-125			Ja
Benzyl alcohol	7.59	4.9	0.098	ug/l	9.80	ND	77	40-120			
4-Bromophenyl phenyl ether	8.25	0.98	0.098	ug/l	9.80	ND	84	60-120			
Butyl benzyl phthalate	9.51	4.9	0.69	ug/l	9.80	ND	97	55-130			
4-Chloro-3-methylphenol	3.18	2.0	0.20	ug/l	9.80	ND	32	60-120			M2
4-Chloroaniline	ND	2.0	0.098	ug/l	9.80	ND		55-120			M2
Bis(2-chloroethoxy)methane	7.12	0.49	0.098	ug/l	9.80	ND	73	50-120			
Bis(2-chloroethyl)ether	7.29	0.49	0.098	ug/l	9.80	ND	74	50-120			
Bis(2-chloroisopropyl)ether	6.71	0.49	0.098	ug/l	9.80	ND	68	45-120			
Bis(2-ethylhexyl)phthalate	9.55	4.9	1.7	ug/l	9.80	ND	97	65-130			
2-Chloronaphthalene	6.92	0.49	0.098	ug/l	9.80	ND	71	60-120			
2-Chlorophenol	6.12	0.98	0.20	ug/l	9.80	ND	62	45-120			
4-Chlorophenyl phenyl ether	9.33	0.49	0.098	ug/l	9.80	ND	95	65-120			

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Report Number: ITB0783

Sampled: 02/05/10
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METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1159 Extracted: 02/10/10											
Matrix Spike Analyzed: 02/15/2010 (10B1159-MS1)					Source: ITB0810-01						
Chrysene	8.61	0.49	0.098	ug/l	9.80	ND	88	65-120			
Dibenz(a,h)anthracene	8.78	0.49	0.098	ug/l	9.80	ND	90	45-135			
Dibenzofuran	8.84	0.49	0.098	ug/l	9.80	ND	90	65-120			
Di-n-butyl phthalate	8.59	2.0	0.20	ug/l	9.80	ND	88	60-125			
1,2-Dichlorobenzene	9.25	0.49	0.098	ug/l	9.80	ND	94	40-120			
1,3-Dichlorobenzene	6.55	0.49	0.098	ug/l	9.80	ND	67	35-120			
1,4-Dichlorobenzene	6.53	0.49	0.20	ug/l	9.80	ND	67	35-120			
3,3'-Dichlorobenzidine	ND	4.9	4.9	ug/l	9.80	ND		45-135			M2
2,4-Dichlorophenol	5.47	2.0	0.20	ug/l	9.80	ND	56	55-120			
Diethyl phthalate	10.1	0.98	0.098	ug/l	9.80	ND	103	55-120			
2,4-Dimethylphenol	ND	2.0	0.29	ug/l	9.80	ND		40-120			M2
Dimethyl phthalate	9.53	0.49	0.098	ug/l	9.80	ND	97	30-120			
4,6-Dinitro-2-methylphenol	10.7	4.9	0.20	ug/l	9.80	ND	109	45-120			
2,4-Dinitrophenol	11.4	4.9	0.88	ug/l	9.80	ND	116	40-120			
2,4-Dinitrotoluene	9.41	4.9	0.20	ug/l	9.80	ND	96	65-120			
2,6-Dinitrotoluene	10.3	4.9	0.098	ug/l	9.80	ND	105	65-120			
Di-n-octyl phthalate	9.51	4.9	0.098	ug/l	9.80	ND	97	65-135			
1,2-Diphenylhydrazine/Azobenzene	9.12	0.98	0.098	ug/l	9.80	ND	93	60-120			
Fluoranthene	8.51	0.49	0.098	ug/l	9.80	ND	87	60-120			
Fluorene	9.31	0.49	0.098	ug/l	9.80	ND	95	65-120			
Hexachlorobenzene	8.04	0.98	0.098	ug/l	9.80	ND	82	60-120			
Hexachlorobutadiene	6.39	2.0	0.20	ug/l	9.80	ND	65	40-120			
Hexachlorocyclopentadiene	6.39	4.9	0.098	ug/l	9.80	ND	65	25-120			
Hexachloroethane	6.14	2.9	0.20	ug/l	9.80	ND	63	35-120			
Indeno(1,2,3-cd)pyrene	9.31	2.0	0.098	ug/l	9.80	ND	95	40-135			
Isophorone	7.65	0.98	0.098	ug/l	9.80	0.333	75	50-120			
2-Methylnaphthalene	6.78	0.98	0.098	ug/l	9.80	ND	69	55-120			
2-Methylphenol	0.451	2.0	0.098	ug/l	9.80	ND	5	50-120			M2, Ja
4-Methylphenol	0.275	4.9	0.20	ug/l	9.80	ND	3	50-120			M2, Ja
Naphthalene	7.12	0.98	0.098	ug/l	9.80	ND	73	55-120			
2-Nitroaniline	5.57	4.9	0.098	ug/l	9.80	ND	57	65-120			M2
3-Nitroaniline	ND	4.9	0.20	ug/l	9.80	ND		60-120			M2
4-Nitroaniline	1.00	4.9	0.49	ug/l	9.80	ND	10	55-125			M2, Ja
Nitrobenzene	11.9	0.98	0.098	ug/l	9.80	ND	121	55-120			M1
2-Nitrophenol	12.4	2.0	0.098	ug/l	9.80	ND	126	50-120			M1

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Kathleen A. Robb For Heather Clark
Project Manager

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

Project ID: Annual Outfall 002

Report Number: ITB0783

Sampled: 02/05/10
Received: 02/05/10

METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1159 Extracted: 02/10/10											
Matrix Spike Analyzed: 02/15/2010 (10B1159-MS1)						Source: ITB0810-01					
4-Nitrophenol	16.5	4.9	2.5	ug/l	9.80	ND	168	45-120			MI
N-Nitroso-di-n-propylamine	7.57	2.0	0.098	ug/l	9.80	ND	77	45-120			
N-Nitrosodimethylamine	7.31	2.0	0.098	ug/l	9.80	ND	75	45-120			
N-Nitrosodiphenylamine	6.55	0.98	0.098	ug/l	9.80	ND	67	60-120			
Pentachlorophenol	9.12	2.0	0.098	ug/l	9.80	ND	93	50-120			
Phenanthrene	8.33	0.49	0.098	ug/l	9.80	ND	85	65-120			
Phenol	7.92	0.98	0.29	ug/l	9.80	ND	81	40-120			
Pyrene	8.88	0.49	0.098	ug/l	9.80	ND	91	55-125			
1,2,4-Trichlorobenzene	6.88	0.98	0.098	ug/l	9.80	ND	70	45-120			
2,4,5-Trichlorophenol	9.37	2.0	0.20	ug/l	9.80	ND	96	55-120			
2,4,6-Trichlorophenol	9.18	0.98	0.098	ug/l	9.80	ND	94	55-120			
Surrogate: 2,4,6-Tribromophenol	17.4			ug/l	19.6		89	40-120			
Surrogate: 2-Fluorobiphenyl	6.96			ug/l	9.80		71	50-120			
Surrogate: 2-Fluorophenol	8.49			ug/l	19.6		43	30-120			
Surrogate: Nitrobenzene-d5	7.65			ug/l	9.80		78	45-120			
Surrogate: Phenol-d6	8.53			ug/l	19.6		44	35-120			
Surrogate: Terphenyl-d14	8.73			ug/l	9.80		89	50-125			
Matrix Spike Dup Analyzed: 02/15/2010 (10B1159-MSD1)						Source: ITB0810-01					
Acenaphthene	7.43	0.49	0.098	ug/l	9.80	ND	76	60-120	8	25	
Acenaphthylene	6.16	0.49	0.098	ug/l	9.80	ND	63	60-120	16	25	
Aniline	ND	9.8	0.29	ug/l	9.80	ND		35-120		30	M2
Anthracene	7.53	0.49	0.098	ug/l	9.80	ND	77	65-120	4	25	
Benzidine	ND	4.9	4.9	ug/l	9.80	ND		30-160		35	M2
Benzo(a)anthracene	8.20	4.9	0.098	ug/l	9.80	ND	84	65-120	6	20	
Benzo(a)pyrene	7.90	2.0	0.098	ug/l	9.80	ND	81	55-130	4	25	
Benzo(b)fluoranthene	8.47	2.0	0.098	ug/l	9.80	ND	86	55-125	8	25	
Benzo(g,h,i)perylene	9.24	4.9	0.098	ug/l	9.80	ND	94	45-135	6	30	
Benzo(k)fluoranthene	8.18	0.49	0.098	ug/l	9.80	ND	83	55-125	3	30	
Benzoic acid	10.2	20	2.9	ug/l	9.80	ND	104	25-125	13	30	Ja
Benzyl alcohol	6.84	4.9	0.098	ug/l	9.80	ND	70	40-120	10	30	
4-Bromophenyl phenyl ether	8.04	0.98	0.098	ug/l	9.80	ND	82	60-120	3	25	
Butyl benzyl phthalate	9.35	4.9	0.69	ug/l	9.80	ND	95	55-130	2	25	
4-Chloro-3-methylphenol	5.67	2.0	0.20	ug/l	9.80	ND	58	60-120	56	25	M2, R-3
4-Chloroaniline	ND	2.0	0.098	ug/l	9.80	ND		55-120		25	M2
Bis(2-chloroethoxy)methane	6.57	0.49	0.098	ug/l	9.80	ND	67	50-120	8	25	

TestAmerica Irvine

Kathleen A. Robb For Heather Clark
Project Manager

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

Project ID: Annual Outfall 002

Report Number: ITB0783

Sampled: 02/05/10
Received: 02/05/10

METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1159 Extracted: 02/10/10											
Matrix Spike Dup Analyzed: 02/15/2010 (10B1159-MSD1)						Source: ITB0810-01					
Bis(2-chloroethyl)ether	6.73	0.49	0.098	ug/l	9.80	ND	69	50-120	8	25	
Bis(2-chloroisopropyl)ether	5.22	0.49	0.098	ug/l	9.80	ND	53	45-120	25	25	
Bis(2-ethylhexyl)phthalate	9.18	4.9	1.7	ug/l	9.80	ND	94	65-130	4	25	
2-Chloronaphthalene	6.53	0.49	0.098	ug/l	9.80	ND	67	60-120	6	20	
2-Chlorophenol	6.31	0.98	0.20	ug/l	9.80	ND	64	45-120	3	25	
4-Chlorophenyl phenyl ether	8.71	0.49	0.098	ug/l	9.80	ND	89	65-120	7	25	
Chrysene	7.92	0.49	0.098	ug/l	9.80	ND	81	65-120	8	25	
Dibenz(a,h)anthracene	8.53	0.49	0.098	ug/l	9.80	ND	87	45-135	3	30	
Dibenzofuran	8.02	0.49	0.098	ug/l	9.80	ND	82	65-120	10	25	
Di-n-butyl phthalate	8.43	2.0	0.20	ug/l	9.80	ND	86	60-125	2	25	
1,2-Dichlorobenzene	6.98	0.49	0.098	ug/l	9.80	ND	71	40-120	28	25	R
1,3-Dichlorobenzene	5.14	0.49	0.098	ug/l	9.80	ND	52	35-120	24	25	
1,4-Dichlorobenzene	5.04	0.49	0.20	ug/l	9.80	ND	51	35-120	26	25	R
3,3'-Dichlorobenzidine	ND	4.9	4.9	ug/l	9.80	ND		45-135		25	M2
2,4-Dichlorophenol	5.73	2.0	0.20	ug/l	9.80	ND	58	55-120	5	25	
Diethyl phthalate	9.02	0.98	0.098	ug/l	9.80	ND	92	55-120	11	30	
2,4-Dimethylphenol	ND	2.0	0.29	ug/l	9.80	ND		40-120		25	M2
Dimethyl phthalate	8.84	0.49	0.098	ug/l	9.80	ND	90	30-120	7	30	
4,6-Dinitro-2-methylphenol	9.63	4.9	0.20	ug/l	9.80	ND	98	45-120	11	25	
2,4-Dinitrophenol	11.0	4.9	0.88	ug/l	9.80	ND	112	40-120	4	25	
2,4-Dinitrotoluene	8.65	4.9	0.20	ug/l	9.80	ND	88	65-120	8	25	
2,6-Dinitrotoluene	9.69	4.9	0.098	ug/l	9.80	ND	99	65-120	6	20	
Di-n-octyl phthalate	9.45	4.9	0.098	ug/l	9.80	ND	96	65-135	0.6	20	
1,2-Diphenylhydrazine/Azobenzene	8.37	0.98	0.098	ug/l	9.80	ND	85	60-120	9	25	
Fluoranthene	8.12	0.49	0.098	ug/l	9.80	ND	83	60-120	5	25	
Fluorene	8.59	0.49	0.098	ug/l	9.80	ND	88	65-120	8	25	
Hexachlorobenzene	7.73	0.98	0.098	ug/l	9.80	ND	79	60-120	4	25	
Hexachlorobutadiene	4.96	2.0	0.20	ug/l	9.80	ND	51	40-120	25	25	
Hexachlorocyclopentadiene	5.55	4.9	0.098	ug/l	9.80	ND	57	25-120	14	30	
Hexachloroethane	4.47	2.9	0.20	ug/l	9.80	ND	46	35-120	31	25	R
Indeno(1,2,3-cd)pyrene	9.18	2.0	0.098	ug/l	9.80	ND	94	40-135	1	30	
Isophorone	6.82	0.98	0.098	ug/l	9.80	0.333	66	50-120	11	25	
2-Methylnaphthalene	6.06	0.98	0.098	ug/l	9.80	ND	62	55-120	11	20	
2-Methylphenol	1.49	2.0	0.098	ug/l	9.80	ND	15	50-120	107	25	M2, R-3, Ja
4-Methylphenol	1.18	4.9	0.20	ug/l	9.80	ND	12	50-120	124	25	M2, R-3, Ja

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Kathleen A. Robb For Heather Clark
Project Manager

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

Project ID: Annual Outfall 002

Report Number: ITB0783

Sampled: 02/05/10
Received: 02/05/10

METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1159 Extracted: 02/10/10											
Matrix Spike Dup Analyzed: 02/15/2010 (10B1159-MSD1)					Source: ITB0810-01						
Naphthalene	6.24	0.98	0.098	ug/l	9.80	ND	64	55-120	13	25	
2-Nitroaniline	3.16	4.9	0.098	ug/l	9.80	ND	32	65-120	55	25	M2, R-3, Ja
3-Nitroaniline	ND	4.9	0.20	ug/l	9.80	ND		60-120		25	M2
4-Nitroaniline	ND	4.9	0.49	ug/l	9.80	ND		55-125		25	M2
Nitrobenzene	9.80	0.98	0.098	ug/l	9.80	ND	100	55-120	19	25	
2-Nitrophenol	9.75	2.0	0.098	ug/l	9.80	ND	99	50-120	24	25	
4-Nitrophenol	13.3	4.9	2.5	ug/l	9.80	ND	136	45-120	21	30	MI
N-Nitroso-di-n-propylamine	6.45	2.0	0.098	ug/l	9.80	ND	66	45-120	16	25	
N-Nitrosodimethylamine	6.84	2.0	0.098	ug/l	9.80	ND	70	45-120	7	25	
N-Nitrosodiphenylamine	6.57	0.98	0.098	ug/l	9.80	ND	67	60-120	0.3	25	
Pentachlorophenol	8.57	2.0	0.098	ug/l	9.80	ND	87	50-120	6	25	
Phenanthrene	7.94	0.49	0.098	ug/l	9.80	ND	81	65-120	5	25	
Phenol	9.53	0.98	0.29	ug/l	9.80	ND	97	40-120	18	25	
Pyrene	8.33	0.49	0.098	ug/l	9.80	ND	85	55-125	6	25	
1,2,4-Trichlorobenzene	5.45	0.98	0.098	ug/l	9.80	ND	56	45-120	23	20	R
2,4,5-Trichlorophenol	8.51	2.0	0.20	ug/l	9.80	ND	87	55-120	10	30	
2,4,6-Trichlorophenol	8.06	0.98	0.098	ug/l	9.80	ND	82	55-120	13	30	
Surrogate: 2,4,6-Tribromophenol	16.4			ug/l	19.6		83	40-120			
Surrogate: 2-Fluorobiphenyl	6.69			ug/l	9.80		68	50-120			
Surrogate: 2-Fluorophenol	9.96			ug/l	19.6		51	30-120			
Surrogate: Nitrobenzene-d5	6.75			ug/l	9.80		69	45-120			
Surrogate: Phenol-d6	10.6			ug/l	19.6		54	35-120			
Surrogate: Terphenyl-d14	8.06			ug/l	9.80		82	50-125			

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Report Number: ITB0783

Sampled: 02/05/10
 Received: 02/05/10

METHOD BLANK/QC DATA

ORGANOCHLORINE PESTICIDES (EPA 608)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1291 Extracted: 02/11/10											
Blank Analyzed: 02/12/2010 (10B1291-BLK1)											
4,4'-DDD	ND	0.0050	0.0020	ug/l							
4,4'-DDE	ND	0.0050	0.0030	ug/l							
4,4'-DDT	ND	0.010	0.0040	ug/l							
Aldrin	ND	0.0050	0.0015	ug/l							
alpha-BHC	ND	0.0050	0.0025	ug/l							
beta-BHC	ND	0.010	0.0040	ug/l							
delta-BHC	ND	0.0050	0.0035	ug/l							
Dieldrin	ND	0.0050	0.0020	ug/l							
Endosulfan I	ND	0.0050	0.0020	ug/l							
Endosulfan II	ND	0.0050	0.0030	ug/l							
Endosulfan sulfate	ND	0.010	0.0030	ug/l							
Endrin	ND	0.0050	0.0020	ug/l							
Endrin aldehyde	ND	0.010	0.0020	ug/l							
Endrin ketone	ND	0.010	0.0030	ug/l							
gamma-BHC (Lindane)	ND	0.020	0.0030	ug/l							
Heptachlor	ND	0.010	0.0030	ug/l							
Heptachlor epoxide	ND	0.0050	0.0025	ug/l							
Methoxychlor	ND	0.0050	0.0035	ug/l							
Chlordane	ND	0.10	0.040	ug/l							
Toxaphene	ND	0.50	0.25	ug/l							
Surrogate: Decachlorobiphenyl	0.387			ug/l	0.500		77	45-120			
Surrogate: Decachlorobiphenyl	0.387			ug/l	0.500		77	45-120			
Surrogate: Tetrachloro-m-xylene	0.240			ug/l	0.500		48	35-115			
Surrogate: Tetrachloro-m-xylene	0.240			ug/l	0.500		48	35-115			
LCS Analyzed: 02/12/2010 (10B1291-BS1)											
4,4'-DDD	0.464	0.0050	0.0020	ug/l	0.500		93	55-120			
4,4'-DDE	0.418	0.0050	0.0030	ug/l	0.500		84	50-120			
4,4'-DDT	0.450	0.010	0.0040	ug/l	0.500		90	55-120			
Aldrin	0.374	0.0050	0.0015	ug/l	0.500		75	40-115			
alpha-BHC	0.369	0.0050	0.0025	ug/l	0.500		74	45-115			
beta-BHC	0.361	0.010	0.0040	ug/l	0.500		72	55-115			
delta-BHC	0.404	0.0050	0.0035	ug/l	0.500		81	55-115			
Dieldrin	0.434	0.0050	0.0020	ug/l	0.500		87	55-115			

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Report Number: ITB0783

Sampled: 02/05/10
Received: 02/05/10

METHOD BLANK/QC DATA

ORGANOCHLORINE PESTICIDES (EPA 608)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1291 Extracted: 02/11/10											
LCS Analyzed: 02/12/2010 (10B1291-BS1)											
Endosulfan I	0.423	0.0050	0.0020	ug/l	0.500		85	55-115			
Endosulfan II	0.464	0.0050	0.0030	ug/l	0.500		93	55-120			
Endosulfan sulfate	0.431	0.010	0.0030	ug/l	0.500		86	60-120			
Endrin	0.477	0.0050	0.0020	ug/l	0.500		95	55-115			
Endrin aldehyde	0.393	0.010	0.0020	ug/l	0.500		79	50-120			
Endrin ketone	0.454	0.010	0.0030	ug/l	0.500		91	55-120			
gamma-BHC (Lindane)	0.381	0.020	0.0030	ug/l	0.500		76	45-115			
Heptachlor	0.415	0.010	0.0030	ug/l	0.500		83	45-115			
Heptachlor epoxide	0.407	0.0050	0.0025	ug/l	0.500		81	55-115			
Methoxychlor	0.485	0.0050	0.0035	ug/l	0.500		97	60-120			
Surrogate: Decachlorobiphenyl	0.394			ug/l	0.500		79	45-120			
Surrogate: Decachlorobiphenyl	0.394			ug/l	0.500		79	45-120			
Surrogate: Tetrachloro-m-xylene	0.339			ug/l	0.500		68	35-115			
Surrogate: Tetrachloro-m-xylene	0.339			ug/l	0.500		68	35-115			
Matrix Spike Analyzed: 02/12/2010 (10B1291-MS1)											
Source: ITB0602-01											
4,4'-DDD	0.362	0.019	0.0075	ug/l	0.472	ND	77	50-125			
4,4'-DDE	0.530	0.019	0.011	ug/l	0.472	ND	112	45-125			
4,4'-DDT	0.402	0.038	0.015	ug/l	0.472	ND	85	50-125			
Aldrin	0.386	0.019	0.0057	ug/l	0.472	ND	82	35-120			
alpha-BHC	0.372	0.019	0.0094	ug/l	0.472	ND	79	40-120			
beta-BHC	0.186	0.038	0.015	ug/l	0.472	ND	39	50-120			M2
delta-BHC	0.314	0.019	0.013	ug/l	0.472	ND	67	50-120			
Dieldrin	0.390	0.019	0.0075	ug/l	0.472	ND	83	50-120			
Endosulfan I	0.475	0.019	0.0075	ug/l	0.472	ND	101	50-120			
Endosulfan II	0.390	0.019	0.011	ug/l	0.472	ND	83	50-125			
Endosulfan sulfate	0.333	0.038	0.011	ug/l	0.472	ND	71	55-125			
Endrin	0.413	0.019	0.0075	ug/l	0.472	ND	88	50-120			
Endrin aldehyde	0.190	0.038	0.0075	ug/l	0.472	ND	40	45-125			M2
Endrin ketone	0.342	0.038	0.011	ug/l	0.472	ND	72	50-125			
gamma-BHC (Lindane)	0.371	0.075	0.011	ug/l	0.472	ND	79	40-120			
Heptachlor	0.452	0.038	0.011	ug/l	0.472	ND	96	40-120			
Heptachlor epoxide	0.450	0.019	0.0094	ug/l	0.472	ND	95	50-120			
Methoxychlor	0.447	0.019	0.013	ug/l	0.472	ND	95	55-125			
Surrogate: Decachlorobiphenyl	0.418			ug/l	0.472		89	45-120			

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Kathleen A. Robb For Heather Clark
Project Manager

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

Project ID: Annual Outfall 002

Report Number: ITB0783

Sampled: 02/05/10
Received: 02/05/10

METHOD BLANK/QC DATA

ORGANOCHLORINE PESTICIDES (EPA 608)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1291 Extracted: 02/11/10											
Matrix Spike Analyzed: 02/12/2010 (10B1291-MS1)						Source: ITB0602-01					
Surrogate: Decachlorobiphenyl	0.418			ug/l	0.472		89	45-120			
Surrogate: Tetrachloro-m-xylene	0.220			ug/l	0.472		47	35-115			
Surrogate: Tetrachloro-m-xylene	0.220			ug/l	0.472		47	35-115			
Matrix Spike Dup Analyzed: 02/12/2010 (10B1291-MSD1)						Source: ITB0602-01					
4,4'-DDD	0.364	0.019	0.0075	ug/l	0.472	ND	77	50-125	0.5	30	
4,4'-DDE	0.527	0.019	0.011	ug/l	0.472	ND	112	45-125	0.7	30	
4,4'-DDT	0.396	0.038	0.015	ug/l	0.472	ND	84	50-125	1	30	
Aldrin	0.384	0.019	0.0057	ug/l	0.472	ND	81	35-120	0.6	30	
alpha-BHC	0.367	0.019	0.0094	ug/l	0.472	ND	78	40-120	1	30	
beta-BHC	0.196	0.038	0.015	ug/l	0.472	ND	42	50-120	5	30	M2
delta-BHC	0.313	0.019	0.013	ug/l	0.472	ND	66	50-120	0.2	30	
Dieldrin	0.387	0.019	0.0075	ug/l	0.472	ND	82	50-120	0.7	30	
Endosulfan I	0.471	0.019	0.0075	ug/l	0.472	ND	100	50-120	1	30	
Endosulfan II	0.393	0.019	0.011	ug/l	0.472	ND	83	50-125	0.7	30	
Endosulfan sulfate	0.346	0.038	0.011	ug/l	0.472	ND	73	55-125	4	30	
Endrin	0.409	0.019	0.0075	ug/l	0.472	ND	87	50-120	1	30	
Endrin aldehyde	0.197	0.038	0.0075	ug/l	0.472	ND	42	45-125	4	30	M2
Endrin ketone	0.338	0.038	0.011	ug/l	0.472	ND	72	50-125	1	30	
gamma-BHC (Lindane)	0.368	0.075	0.011	ug/l	0.472	ND	78	40-120	0.6	30	
Heptachlor	0.441	0.038	0.011	ug/l	0.472	ND	93	40-120	3	30	
Heptachlor epoxide	0.447	0.019	0.0094	ug/l	0.472	ND	95	50-120	0.7	30	
Methoxychlor	0.442	0.019	0.013	ug/l	0.472	ND	94	55-125	1	30	
Surrogate: Decachlorobiphenyl	0.407			ug/l	0.472		86	45-120			
Surrogate: Decachlorobiphenyl	0.407			ug/l	0.472		86	45-120			
Surrogate: Tetrachloro-m-xylene	0.264			ug/l	0.472		56	35-115			
Surrogate: Tetrachloro-m-xylene	0.264			ug/l	0.472		56	35-115			

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Kathleen A. Robb For Heather Clark
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METHOD BLANK/QC DATA

TOTAL PCBS (EPA 608)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1291 Extracted: 02/11/10											
Blank Analyzed: 02/11/2010 (10B1291-BLK1)											
Aroclor 1016	ND	0.50	0.25	ug/l							
Aroclor 1221	ND	0.50	0.25	ug/l							
Aroclor 1232	ND	0.50	0.25	ug/l							
Aroclor 1242	ND	0.50	0.25	ug/l							
Aroclor 1248	ND	0.50	0.25	ug/l							
Aroclor 1254	ND	0.50	0.25	ug/l							
Aroclor 1260	ND	0.50	0.25	ug/l							
Surrogate: Decachlorobiphenyl	0.422			ug/l	0.500		84	45-120			
LCS Analyzed: 02/11/2010 (10B1291-BS2)											
Aroclor 1016	2.94	0.50	0.25	ug/l	4.00		74	50-115			
Aroclor 1260	3.60	0.50	0.25	ug/l	4.00		90	60-120			
Surrogate: Decachlorobiphenyl	0.432			ug/l	0.500		86	45-120			
Matrix Spike Analyzed: 02/11/2010 (10B1291-MS2) Source: ITB0602-01											
Aroclor 1016	4.30	0.47	0.24	ug/l	3.77	ND	114	45-120			
Aroclor 1260	3.32	0.47	0.24	ug/l	3.77	ND	88	55-125			
Surrogate: Decachlorobiphenyl	0.388			ug/l	0.472		82	45-120			
Matrix Spike Dup Analyzed: 02/11/2010 (10B1291-MSD2) Source: ITB0602-01											
Aroclor 1016	4.36	0.47	0.24	ug/l	3.77	ND	116	45-120	1	30	
Aroclor 1260	3.32	0.47	0.24	ug/l	3.77	ND	88	55-125	0.2	25	
Surrogate: Decachlorobiphenyl	0.383			ug/l	0.472		81	45-120			

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METHOD BLANK/QC DATA

HEXANE EXTRACTABLE MATERIAL

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1778 Extracted: 02/15/10											
Blank Analyzed: 02/15/2010 (10B1778-BLK1)											
Hexane Extractable Material (Oil & Grease)	ND	5.0	1.4	mg/l							
LCS Analyzed: 02/15/2010 (10B1778-BS1)											
Hexane Extractable Material (Oil & Grease)	20.9	5.0	1.4	mg/l	20.0		104	78-114			MNR1
LCS Dup Analyzed: 02/15/2010 (10B1778-BSD1)											
Hexane Extractable Material (Oil & Grease)	20.5	5.0	1.4	mg/l	20.0		102	78-114	2	11	

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1598 Extracted: 02/12/10											
Blank Analyzed: 02/15/2010 (10B1598-BLK1)											
Antimony	ND	2.0	0.30	ug/l							
Cadmium	ND	1.0	0.10	ug/l							
Copper	ND	2.0	0.50	ug/l							
Lead	ND	1.0	0.20	ug/l							
Selenium	ND	2.0	0.50	ug/l							
Silver	ND	1.0	0.10	ug/l							
Thallium	ND	1.0	0.20	ug/l							
LCS Analyzed: 02/15/2010 (10B1598-BS1)											
Antimony	82.5	2.0	0.30	ug/l	80.0		103	85-115			
Cadmium	82.4	1.0	0.10	ug/l	80.0		103	85-115			
Copper	81.0	2.0	0.50	ug/l	80.0		101	85-115			
Lead	84.3	1.0	0.20	ug/l	80.0		105	85-115			
Selenium	81.2	2.0	0.50	ug/l	80.0		101	85-115			
Silver	82.7	1.0	0.10	ug/l	80.0		103	85-115			
Thallium	81.6	1.0	0.20	ug/l	80.0		102	85-115			
Matrix Spike Analyzed: 02/15/2010 (10B1598-MS1) Source: ITB0888-01											
Antimony	83.1	2.0	0.30	ug/l	80.0	ND	104	70-130			
Cadmium	79.9	1.0	0.10	ug/l	80.0	ND	100	70-130			
Copper	80.3	2.0	0.50	ug/l	80.0	1.68	98	70-130			
Lead	77.4	1.0	0.20	ug/l	80.0	0.398	96	70-130			
Selenium	80.3	2.0	0.50	ug/l	80.0	ND	100	70-130			
Silver	78.7	1.0	0.10	ug/l	80.0	ND	98	70-130			
Thallium	79.3	1.0	0.20	ug/l	80.0	ND	99	70-130			
Matrix Spike Analyzed: 02/15/2010 (10B1598-MS2) Source: ITB0900-02											
Antimony	82.9	2.0	0.30	ug/l	80.0	ND	104	70-130			
Cadmium	81.1	1.0	0.10	ug/l	80.0	ND	101	70-130			
Copper	84.1	2.0	0.50	ug/l	80.0	1.41	103	70-130			
Lead	78.7	1.0	0.20	ug/l	80.0	0.252	98	70-130			
Selenium	77.8	2.0	0.50	ug/l	80.0	ND	97	70-130			
Silver	81.0	1.0	0.10	ug/l	80.0	ND	101	70-130			
Thallium	82.9	1.0	0.20	ug/l	80.0	ND	104	70-130			

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1598 Extracted: 02/12/10											
Matrix Spike Dup Analyzed: 02/15/2010 (10B1598-MSD1)						Source: ITB0888-01					
Antimony	84.1	2.0	0.30	ug/l	80.0	ND	105	70-130	1	20	
Cadmium	80.8	1.0	0.10	ug/l	80.0	ND	101	70-130	1	20	
Copper	82.7	2.0	0.50	ug/l	80.0	1.68	101	70-130	3	20	
Lead	79.1	1.0	0.20	ug/l	80.0	0.398	98	70-130	2	20	
Selenium	81.4	2.0	0.50	ug/l	80.0	ND	102	70-130	1	20	
Silver	79.8	1.0	0.10	ug/l	80.0	ND	100	70-130	1	20	
Thallium	80.5	1.0	0.20	ug/l	80.0	ND	101	70-130	1	20	

Batch: 10B1807 Extracted: 02/15/10

Blank Analyzed: 02/16/2010 (10B1807-BLK1)

Arsenic	ND	10	7.0	ug/l							
Barium	ND	0.010	0.0060	mg/l							
Beryllium	ND	2.0	0.90	ug/l							
Boron	ND	0.050	0.020	mg/l							
Calcium	ND	0.10	0.050	mg/l							
Chromium	ND	5.0	2.0	ug/l							
Cobalt	ND	10	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Magnesium	0.0179	0.020	0.012	mg/l							Ja
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Vanadium	ND	10	3.0	ug/l							
Zinc	ND	20	6.0	ug/l							

LCS Analyzed: 02/16/2010 (10B1807-BS1)

Arsenic	518	10	7.0	ug/l	500		104	85-115			
Barium	0.511	0.010	0.0060	mg/l	0.500		102	85-115			
Beryllium	511	2.0	0.90	ug/l	500		102	85-115			
Boron	0.520	0.050	0.020	mg/l	0.500		104	85-115			
Calcium	2.58	0.10	0.050	mg/l	2.50		103	85-115			
Chromium	488	5.0	2.0	ug/l	500		98	85-115			
Cobalt	483	10	2.0	ug/l	500		97	85-115			
Iron	0.505	0.040	0.015	mg/l	0.500		101	85-115			
Magnesium	2.52	0.020	0.012	mg/l	2.50		101	85-115			
Manganese	497	20	7.0	ug/l	500		99	85-115			

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD RPD	Data Qualifiers
Batch: 10B1807 Extracted: 02/15/10										
LCS Analyzed: 02/16/2010 (10B1807-BS1)										
Nickel	500	10	2.0	ug/l	500		100	85-115		
Vanadium	500	10	3.0	ug/l	500		100	85-115		
Zinc	522	20	6.0	ug/l	500		104	85-115		
Matrix Spike Analyzed: 02/16/2010 (10B1807-MS1) Source: ITB0980-01										
Arsenic	522	10	7.0	ug/l	500	ND	104	70-130		
Barium	0.511	0.010	0.0060	mg/l	0.500	ND	102	70-130		
Beryllium	501	2.0	0.90	ug/l	500	0.967	100	70-130		
Boron	0.537	0.050	0.020	mg/l	0.500	0.0262	102	70-130		
Calcium	5.69	0.10	0.050	mg/l	2.50	3.23	98	70-130		
Chromium	483	5.0	2.0	ug/l	500	ND	97	70-130		
Cobalt	477	10	2.0	ug/l	500	ND	95	70-130		
Iron	0.539	0.040	0.015	mg/l	0.500	0.0466	98	70-130		
Magnesium	2.75	0.020	0.012	mg/l	2.50	0.285	99	70-130		
Manganese	491	20	7.0	ug/l	500	ND	98	70-130		
Nickel	492	10	2.0	ug/l	500	2.57	98	70-130		
Vanadium	491	10	3.0	ug/l	500	3.29	98	70-130		
Zinc	524	20	6.0	ug/l	500	34.0	98	70-130		
Matrix Spike Analyzed: 02/16/2010 (10B1807-MS2) Source: ITB1117-02										
Arsenic	ND	1000	700	ug/l	500	ND		70-130		M2
Barium	0.924	1.0	0.60	mg/l	0.500	ND	185	70-130		M1, Ja
Beryllium	565	200	90	ug/l	500	ND	113	70-130		
Boron	ND	5.0	2.0	mg/l	0.500	ND		70-130		M2
Calcium	65.3	10	5.0	mg/l	2.50	65.0	12	70-130		MHA
Chromium	4140	500	200	ug/l	500	3620	104	70-130		MHA
Cobalt	2410	1000	200	ug/l	500	1980	86	70-130		MHA
Iron	19100	4.0	1.5	mg/l	0.500	19000	8290	70-130		MHA
Magnesium	258	2.0	1.2	mg/l	2.50	256	57	70-130		MHA
Manganese	90700	2000	700	ug/l	500	90600	11	70-130		MHA
Nickel	5520	1000	200	ug/l	500	5010	101	70-130		MHA
Vanadium	906	1000	300	ug/l	500	477	86	70-130		Ja
Zinc	24100	2000	600	ug/l	500	24000	18	70-130		M2

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1807 Extracted: 02/15/10											
Matrix Spike Dup Analyzed: 02/16/2010 (10B1807-MSD1)						Source: ITB0980-01					
Arsenic	524	10	7.0	ug/l	500	ND	105	70-130	0.4	20	
Barium	0.503	0.010	0.0060	mg/l	0.500	ND	101	70-130	2	20	
Beryllium	503	2.0	0.90	ug/l	500	0.967	100	70-130	0.4	20	
Boron	0.532	0.050	0.020	mg/l	0.500	0.0262	101	70-130	1	20	
Calcium	5.71	0.10	0.050	mg/l	2.50	3.23	99	70-130	0.3	20	
Chromium	487	5.0	2.0	ug/l	500	ND	97	70-130	0.7	20	
Cobalt	479	10	2.0	ug/l	500	ND	96	70-130	0.2	20	
Iron	0.546	0.040	0.015	mg/l	0.500	0.0466	100	70-130	1	20	
Magnesium	2.76	0.020	0.012	mg/l	2.50	0.285	99	70-130	0.3	20	
Manganese	492	20	7.0	ug/l	500	ND	98	70-130	0.2	20	
Nickel	493	10	2.0	ug/l	500	2.57	98	70-130	0.2	20	
Vanadium	490	10	3.0	ug/l	500	3.29	97	70-130	0.1	20	
Zinc	527	20	6.0	ug/l	500	34.0	99	70-130	0.4	20	

Batch: 10B1942 Extracted: 02/16/10

Blank Analyzed: 02/16/2010 (10B1942-BLK1)

Mercury	ND	0.20	0.10	ug/l							
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LCS Analyzed: 02/16/2010 (10B1942-BS1)

Mercury	7.96	0.20	0.10	ug/l	8.00		100	85-115			
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Matrix Spike Analyzed: 02/16/2010 (10B1942-MS1)

Source: ITB0974-01

Mercury	7.91	0.20	0.10	ug/l	8.00	ND	99	70-130			
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Matrix Spike Dup Analyzed: 02/16/2010 (10B1942-MSD1)

Source: ITB0974-01

Mercury	7.91	0.20	0.10	ug/l	8.00	ND	99	70-130	0.03	20	
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Report Number: ITB0783

Sampled: 02/05/10
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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1845 Extracted: 02/15/10											
Blank Analyzed: 02/16/2010 (10B1845-BLK1)											
Antimony	ND	2.0	0.30	ug/l							
Cadmium	ND	1.0	0.10	ug/l							
Lead	ND	1.0	0.20	ug/l							
Selenium	ND	2.0	0.50	ug/l							
Silver	ND	1.0	0.10	ug/l							
Thallium	ND	1.0	0.20	ug/l							
LCS Analyzed: 02/16/2010 (10B1845-BS1)											
Antimony	81.7	2.0	0.30	ug/l	80.0		102	85-115			
Cadmium	81.8	1.0	0.10	ug/l	80.0		102	85-115			
Lead	84.1	1.0	0.20	ug/l	80.0		105	85-115			
Selenium	82.4	2.0	0.50	ug/l	80.0		103	85-115			
Silver	84.4	1.0	0.10	ug/l	80.0		105	85-115			
Thallium	87.0	1.0	0.20	ug/l	80.0		109	85-115			
Matrix Spike Analyzed: 02/16/2010 (10B1845-MS1) Source: ITB1082-03											
Antimony	82.8	20	3.0	ug/l	80.0	ND	103	70-130			
Cadmium	81.7	10	1.0	ug/l	80.0	1.14	101	70-130			
Lead	74.3	10	2.0	ug/l	80.0	ND	93	70-130			
Selenium	88.1	20	5.0	ug/l	80.0	10.3	97	70-130			
Silver	82.2	10	1.0	ug/l	80.0	ND	103	70-130			
Thallium	78.4	10	2.0	ug/l	80.0	ND	98	70-130			
Matrix Spike Analyzed: 02/16/2010 (10B1845-MS2) Source: ITB0888-01											
Antimony	86.1	2.0	0.30	ug/l	80.0	ND	108	70-130			
Cadmium	83.4	1.0	0.10	ug/l	80.0	ND	104	70-130			
Copper	84.8	2.0	0.50	ug/l	80.0	1.30	104	70-130			
Lead	78.5	1.0	0.20	ug/l	80.0	ND	98	70-130			
Selenium	83.6	2.0	0.50	ug/l	80.0	0.511	104	70-130			
Silver	82.6	1.0	0.10	ug/l	80.0	ND	103	70-130			
Thallium	85.5	1.0	0.20	ug/l	80.0	ND	107	70-130			

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Kathleen A. Robb For Heather Clark
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MWH-Pasadena/Boeing
618 Michillinda Avenue, Suite 200
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Attention: Bronwyn Kelly

Project ID: Annual Outfall 002

Report Number: ITB0783

Sampled: 02/05/10
Received: 02/05/10

METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1845 Extracted: 02/15/10											
Matrix Spike Dup Analyzed: 02/16/2010 (10B1845-MSD1)						Source: ITB1082-03					
Antimony	85.7	20	3.0	ug/l	80.0	ND	107	70-130	4	20	
Cadmium	84.8	10	1.0	ug/l	80.0	1.14	105	70-130	4	20	
Lead	76.5	10	2.0	ug/l	80.0	ND	96	70-130	3	20	
Selenium	93.5	20	5.0	ug/l	80.0	10.3	104	70-130	6	20	
Silver	84.5	10	1.0	ug/l	80.0	ND	106	70-130	3	20	
Thallium	80.8	10	2.0	ug/l	80.0	ND	101	70-130	3	20	

Batch: 10B1846 Extracted: 02/15/10

Blank Analyzed: 02/16/2010 (10B1846-BLK1)

Analyte	Result	Reporting Limit	MDL	Units	Data Qualifiers
Arsenic	ND	10	7.0	ug/l	
Barium	ND	0.010	0.0060	mg/l	
Beryllium	ND	2.0	0.90	ug/l	
Boron	0.0453	0.050	0.020	mg/l	Ja
Calcium	0.0573	0.10	0.050	mg/l	Ja
Cobalt	ND	10	2.0	ug/l	
Iron	0.0219	0.040	0.015	mg/l	Ja
Magnesium	0.0150	0.020	0.012	mg/l	Ja
Manganese	ND	20	7.0	ug/l	
Nickel	ND	10	2.0	ug/l	
Vanadium	ND	10	3.0	ug/l	
Zinc	ND	20	6.0	ug/l	

LCS Analyzed: 02/16/2010 (10B1846-BS1)

Analyte	Result	Reporting Limit	MDL	Units	%REC	%REC Limits
Arsenic	521	10	7.0	ug/l	500	104 85-115
Barium	0.489	0.010	0.0060	mg/l	0.500	98 85-115
Beryllium	486	2.0	0.90	ug/l	500	97 85-115
Boron	0.521	0.050	0.020	mg/l	0.500	104 85-115
Calcium	2.42	0.10	0.050	mg/l	2.50	97 85-115
Cobalt	461	10	2.0	ug/l	500	92 85-115
Iron	0.499	0.040	0.015	mg/l	0.500	100 85-115
Magnesium	2.42	0.020	0.012	mg/l	2.50	97 85-115
Manganese	481	20	7.0	ug/l	500	96 85-115
Nickel	480	10	2.0	ug/l	500	96 85-115
Vanadium	489	10	3.0	ug/l	500	98 85-115
Zinc	499	20	6.0	ug/l	500	100 85-115

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Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1846 Extracted: 02/15/10											
Matrix Spike Analyzed: 02/16/2010 (10B1846-MS1)						Source: ITB0895-01					
Arsenic	543	10	7.0	ug/l	500	ND	109	70-130			
Barium	0.525	0.010	0.0060	mg/l	0.500	0.0235	100	70-130			
Beryllium	503	2.0	0.90	ug/l	500	ND	101	70-130			
Boron	0.617	0.050	0.020	mg/l	0.500	0.110	102	70-130			
Calcium	28.3	0.10	0.050	mg/l	2.50	24.7	144	70-130			MHA
Cobalt	468	10	2.0	ug/l	500	ND	94	70-130			
Iron	0.567	0.040	0.015	mg/l	0.500	ND	113	70-130			
Magnesium	7.76	0.020	0.012	mg/l	2.50	4.98	111	70-130			
Manganese	686	20	7.0	ug/l	500	190	99	70-130			
Nickel	488	10	2.0	ug/l	500	ND	98	70-130			
Vanadium	500	10	3.0	ug/l	500	ND	100	70-130			
Zinc	523	20	6.0	ug/l	500	12.7	102	70-130			
Matrix Spike Analyzed: 02/16/2010 (10B1846-MS2)						Source: ITB0887-04					
Arsenic	510	10	7.0	ug/l	500	ND	102	70-130			
Barium	0.496	0.010	0.0060	mg/l	0.500	0.0149	96	70-130			
Beryllium	481	2.0	0.90	ug/l	500	ND	96	70-130			
Boron	0.549	0.050	0.020	mg/l	0.500	0.0701	96	70-130			
Calcium	13.1	0.10	0.050	mg/l	2.50	11.0	84	70-130			MHA
Cobalt	453	10	2.0	ug/l	500	ND	91	70-130			
Iron	1.16	0.040	0.015	mg/l	0.500	0.642	104	70-130			
Magnesium	5.35	0.020	0.012	mg/l	2.50	3.23	85	70-130			
Manganese	477	20	7.0	ug/l	500	ND	95	70-130			
Nickel	465	10	2.0	ug/l	500	ND	93	70-130			
Vanadium	486	10	3.0	ug/l	500	ND	97	70-130			
Zinc	497	20	6.0	ug/l	500	10.3	97	70-130			
Matrix Spike Dup Analyzed: 02/16/2010 (10B1846-MSD1)						Source: ITB0895-01					
Arsenic	534	10	7.0	ug/l	500	ND	107	70-130	2	20	
Barium	0.502	0.010	0.0060	mg/l	0.500	0.0235	96	70-130	4	20	
Beryllium	480	2.0	0.90	ug/l	500	ND	96	70-130	5	20	
Boron	0.599	0.050	0.020	mg/l	0.500	0.110	98	70-130	3	20	
Calcium	27.1	0.10	0.050	mg/l	2.50	24.7	96	70-130	4	20	MHA
Cobalt	455	10	2.0	ug/l	500	ND	91	70-130	3	20	
Iron	0.509	0.040	0.015	mg/l	0.500	ND	102	70-130	11	20	
Magnesium	7.37	0.020	0.012	mg/l	2.50	4.98	96	70-130	5	20	

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Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1846 Extracted: 02/15/10											
Matrix Spike Dup Analyzed: 02/16/2010 (10B1846-MSD1)						Source: ITB0895-01					
Manganese	658	20	7.0	ug/l	500	190	94	70-130	4	20	
Nickel	472	10	2.0	ug/l	500	ND	94	70-130	3	20	
Vanadium	480	10	3.0	ug/l	500	ND	96	70-130	4	20	
Zinc	510	20	6.0	ug/l	500	12.7	99	70-130	3	20	

Batch: 10B1953 Extracted: 02/16/10

Blank Analyzed: 02/16/2010 (10B1953-BLK1)

Mercury	ND	0.20	0.10	ug/l							
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LCS Analyzed: 02/16/2010 (10B1953-BS1)

Mercury	8.15	0.20	0.10	ug/l	8.00		102	85-115			
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Matrix Spike Analyzed: 02/16/2010 (10B1953-MS1)

Source: ITB0907-01

Mercury	7.43	0.20	0.10	ug/l	8.00	ND	93	70-130			
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Matrix Spike Dup Analyzed: 02/16/2010 (10B1953-MSD1)

Source: ITB0907-01

Mercury	7.66	0.20	0.10	ug/l	8.00	ND	96	70-130	3	20	
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Batch: 10B2106 Extracted: 02/17/10

Blank Analyzed: 02/17/2010 (10B2106-BLK1)

Copper	ND	2.0	0.50	ug/l							
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LCS Analyzed: 02/17/2010 (10B2106-BS1)

Copper	77.6	2.0	0.50	ug/l	80.0		97	85-115			
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DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B2106 Extracted: 02/17/10											
Matrix Spike Analyzed: 02/17/2010 (10B2106-MS1)						Source: ITB1775-07					
Copper	76.0	2.0	0.50	ug/l	80.0	2.19	92	70-130			
Matrix Spike Dup Analyzed: 02/17/2010 (10B2106-MSD1)						Source: ITB1775-07					
Copper	77.2	2.0	0.50	ug/l	80.0	2.19	94	70-130	2	20	

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DISSOLVED INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B0683 Extracted: 02/05/10											
Blank Analyzed: 02/05/2010 (10B0683-BLK1)											
Chromium VI	ND	1.0	0.25	ug/l							
LCS Analyzed: 02/05/2010 (10B0683-BS1)											
Chromium VI	5.10	1.0	0.25	ug/l	5.00		102	90-110			
Matrix Spike Analyzed: 02/05/2010 (10B0683-MS1)											
						Source: ITB0773-01					
Chromium VI	4.72	1.0	0.25	ug/l	5.00	ND	94	90-110			
Matrix Spike Dup Analyzed: 02/05/2010 (10B0683-MSD1)											
						Source: ITB0773-01					
Chromium VI	5.34	1.0	0.25	ug/l	5.00	ND	107	90-110	12	10	R-3

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 10B0757 Extracted: 02/06/10</u>											
Blank Analyzed: 02/06/2010 (10B0757-BLK1)											
Surfactants (MBAS)	ND	0.10	0.025	mg/l							
LCS Analyzed: 02/06/2010 (10B0757-BS1)											
Surfactants (MBAS)	0.245	0.10	0.025	mg/l	0.250		98	90-110			
Matrix Spike Analyzed: 02/06/2010 (10B0757-MS1)											
Surfactants (MBAS)	0.351	0.10	0.025	mg/l	0.250	0.130	88	50-125			
Matrix Spike Dup Analyzed: 02/06/2010 (10B0757-MSD1)											
Surfactants (MBAS)	0.353	0.10	0.025	mg/l	0.250	0.130	89	50-125	0.4	20	
<u>Batch: 10B0771 Extracted: 02/07/10</u>											
Blank Analyzed: 02/07/2010 (10B0771-BLK1)											
Turbidity	ND	1.0	0.040	NTU							
Duplicate Analyzed: 02/07/2010 (10B0771-DUP1)											
Turbidity	7.94	1.0	0.040	NTU		7.93			0.1	20	
<u>Batch: 10B0795 Extracted: 02/07/10</u>											
Blank Analyzed: 02/12/2010 (10B0795-BLK1)											
Biochemical Oxygen Demand	ND	2.0	0.50	mg/l							
LCS Analyzed: 02/12/2010 (10B0795-BS1)											
Biochemical Oxygen Demand	198	100	25	mg/l	198		100	85-115			

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B0795 Extracted: 02/07/10											
LCS Dup Analyzed: 02/12/2010 (10B0795-BSD1)											
Biochemical Oxygen Demand	201	100	25	mg/l	198		102	85-115	2	20	
Batch: 10B0807 Extracted: 02/07/10											
Blank Analyzed: 02/07/2010 (10B0807-BLK1)											
Chloride	ND	0.50	0.25	mg/l							
Nitrate-N	ND	0.11	0.060	mg/l							
Nitrite-N	ND	150	90	ug/l							
Nitrate/Nitrite-N	ND	0.26	0.15	mg/l							
LCS Analyzed: 02/07/2010 (10B0807-BS1)											
Chloride	4.79	0.50	0.25	mg/l	5.00		96	90-110			
Nitrate-N	1.06	0.11	0.060	mg/l	1.13		94	90-110			
Nitrite-N	1470	150	90	ug/l	1520		97	90-110			
Matrix Spike Analyzed: 02/07/2010 (10B0807-MS1) Source: ITB0887-04											
Chloride	9.87	0.50	0.25	mg/l	5.00	4.64	105	80-120			
Nitrate-N	1.52	0.11	0.060	mg/l	1.13	0.404	99	80-120			
Nitrite-N	1510	150	90	ug/l	1520	ND	100	80-120			
Matrix Spike Analyzed: 02/07/2010 (10B0807-MS2) Source: ITB0886-01											
Chloride	12.1	0.50	0.25	mg/l	5.00	7.33	96	80-120			C8
Nitrate-N	1.65	0.11	0.060	mg/l	1.13	0.587	94	80-120			
Nitrite-N	1500	150	90	ug/l	1520	ND	99	80-120			
Matrix Spike Dup Analyzed: 02/07/2010 (10B0807-MSD1) Source: ITB0887-04											
Chloride	9.84	0.50	0.25	mg/l	5.00	4.64	104	80-120	0.3	20	
Nitrate-N	1.52	0.11	0.060	mg/l	1.13	0.404	98	80-120	0.4	20	
Nitrite-N	1530	150	90	ug/l	1520	ND	100	80-120	0.9	20	

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Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B0857 Extracted: 02/08/10											
Blank Analyzed: 02/08/2010 (10B0857-BLK1)											
Sulfate	ND	0.50	0.20	mg/l							
LCS Analyzed: 02/08/2010 (10B0857-BS1)											
Sulfate	9.63	0.50	0.20	mg/l	10.0		96	90-110			
Matrix Spike Analyzed: 02/08/2010 (10B0857-MS1) Source: ITB0604-05											
Sulfate	248	10	4.0	mg/l	100	163	85	80-120			
Matrix Spike Analyzed: 02/08/2010 (10B0857-MS2) Source: ITB0923-03											
Sulfate	31.2	1.0	0.40	mg/l	10.0	21.4	98	80-120			
Matrix Spike Dup Analyzed: 02/08/2010 (10B0857-MSD1) Source: ITB0604-05											
Sulfate	246	10	4.0	mg/l	100	163	82	80-120	1	20	
Batch: 10B1111 Extracted: 02/10/10											
Blank Analyzed: 02/10/2010 (10B1111-BLK1)											
Fluoride	0.0333	0.10	0.020	mg/l							Ja
LCS Analyzed: 02/10/2010 (10B1111-BS1)											
Fluoride	1.03	0.10	0.020	mg/l	1.00		103	90-110			
Matrix Spike Analyzed: 02/10/2010 (10B1111-MS1) Source: ITB0532-05											
Fluoride	1.19	0.10	0.020	mg/l	1.00	0.129	107	80-120			
Matrix Spike Dup Analyzed: 02/10/2010 (10B1111-MSD1) Source: ITB0532-05											
Fluoride	1.18	0.10	0.020	mg/l	1.00	0.129	105	80-120	2	20	

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Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1119 Extracted: 02/10/10											
Blank Analyzed: 02/10/2010 (10B1119-BLK1)											
Specific Conductance	ND	1.0	1.0	umhos/cm							
LCS Analyzed: 02/10/2010 (10B1119-BS1)											
Specific Conductance	1370	1.0	1.0	umhos/cm	1410		97	90-110			
Duplicate Analyzed: 02/10/2010 (10B1119-DUP1)											
Specific Conductance	98.5	1.0	1.0	umhos/cm		Source: ITB0680-01 98.2			0.3	5	
Batch: 10B1250 Extracted: 02/10/10											
Blank Analyzed: 02/10/2010 (10B1250-BLK1)											
Total Cyanide	ND	5.0	2.2	ug/l							
LCS Analyzed: 02/10/2010 (10B1250-BS1)											
Total Cyanide	190	5.0	2.2	ug/l	200		95	90-110			
Matrix Spike Analyzed: 02/10/2010 (10B1250-MS1)											
Total Cyanide	187	5.0	2.2	ug/l	200	ND	94	70-115			
Matrix Spike Dup Analyzed: 02/10/2010 (10B1250-MSD1)											
Total Cyanide	182	5.0	2.2	ug/l	200	ND	91	70-115	3	15	
Batch: 10B1284 Extracted: 02/11/10											
Blank Analyzed: 02/11/2010 (10B1284-BLK1)											
Total Organic Carbon	ND	1.0	0.50	mg/l							

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Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 10B1284 Extracted: 02/11/10</u>											
LCS Analyzed: 02/11/2010 (10B1284-BS1)											
Total Organic Carbon	10.0	1.0	0.50	mg/l	10.0		100	90-110			
Matrix Spike Analyzed: 02/11/2010 (10B1284-MS1)											
						Source: ITB1082-01					
Total Organic Carbon	9.13	1.0	0.50	mg/l	5.00	4.47	93	80-120			
Matrix Spike Dup Analyzed: 02/11/2010 (10B1284-MSD1)											
						Source: ITB1082-01					
Total Organic Carbon	9.43	1.0	0.50	mg/l	5.00	4.47	99	80-120	3	20	
<u>Batch: 10B1300 Extracted: 02/11/10</u>											
Blank Analyzed: 02/11/2010 (10B1300-BLK1)											
Total Dissolved Solids	ND	10	1.0	mg/l							
LCS Analyzed: 02/11/2010 (10B1300-BS1)											
Total Dissolved Solids	1010	10	1.0	mg/l	1000		101	90-110			
Duplicate Analyzed: 02/11/2010 (10B1300-DUP1)											
						Source: ITB0770-04					
Total Dissolved Solids	122	10	1.0	mg/l		120			2	10	
<u>Batch: 10B1450 Extracted: 02/11/10</u>											
Blank Analyzed: 02/11/2010 (10B1450-BLK1)											
Total Suspended Solids	ND	10	1.0	mg/l							
LCS Analyzed: 02/11/2010 (10B1450-BS1)											
Total Suspended Solids	994	10	1.0	mg/l	1000		99	85-115			

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Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1450 Extracted: 02/11/10											
Duplicate Analyzed: 02/11/2010 (10B1450-DUP1)						Source: ITB0770-04					
Total Suspended Solids	19.0	10	1.0	mg/l		19.0			0	10	
Batch: 10B1575 Extracted: 02/12/10											
Blank Analyzed: 02/12/2010 (10B1575-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.50	mg/l							
LCS Analyzed: 02/12/2010 (10B1575-BS1)											
Ammonia-N (Distilled)	10.6	0.50	0.50	mg/l	10.0		106	80-115			
Matrix Spike Analyzed: 02/12/2010 (10B1575-MS1)						Source: ITB0887-04					
Ammonia-N (Distilled)	11.2	0.50	0.50	mg/l	10.0	0.560	106	70-120			
Matrix Spike Dup Analyzed: 02/12/2010 (10B1575-MSD1)						Source: ITB0887-04					
Ammonia-N (Distilled)	11.5	0.50	0.50	mg/l	10.0	0.560	109	70-120	2	15	
Batch: 10B1873 Extracted: 02/16/10											
Blank Analyzed: 02/16/2010 (10B1873-BLK1)											
Perchlorate	ND	4.0	0.90	ug/l							
LCS Analyzed: 02/16/2010 (10B1873-BS1)											
Perchlorate	26.1	4.0	0.90	ug/l	25.0		104	85-115			
Matrix Spike Analyzed: 02/16/2010 (10B1873-MS1)						Source: ITB0819-01					
Perchlorate	337	40	9.0	ug/l	250	109	91	80-120			

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Project Manager

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

Project ID: Annual Outfall 002

Report Number: ITB0783

Sampled: 02/05/10
Received: 02/05/10

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1873 Extracted: 02/16/10											
Matrix Spike Dup Analyzed: 02/16/2010 (10B1873-MSD1)						Source: ITB0819-01					
Perchlorate	334	40	9.0	ug/l	250	109	90	80-120	0.7	20	

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METHOD BLANK/QC DATA

ASTM 5174-91

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 53280 Extracted: 02/23/10											
Matrix Spike Dup Analyzed: 02/26/2010 (F0B090470001D)						Source: F0B090470001					
Total Uranium	30	1.4	0.4	pCi/L	27.7	0.566	106	62-150	1	20	
Matrix Spike Analyzed: 02/26/2010 (F0B090470001S)						Source: F0B090470001					
Total Uranium	29.7	1.4	0.4	pCi/L	27.7	0.566	105	62-150			
Blank Analyzed: 02/26/2010 (F0B220000280B)						Source:					
Total Uranium	0.046	0.693	0.21	pCi/L				-			U
LCS Analyzed: 02/26/2010 (F0B220000280C)						Source:					
Total Uranium	30.2	0.7	0.2	pCi/L	27.7		109	90-120			

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METHOD BLANK/QC DATA

EPA 900.0 MOD

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
Batch: 43108 Extracted: 02/10/10											
Matrix Spike Analyzed: 02/18/2010 (F0B090470001S)						Source: F0B090470001					
Gross Alpha	47.2	3	1	pCi/L	49.4	2	91	35-150			
Gross Beta	79	4	1.5	pCi/L	68	3.9	110	54-150			
Duplicate Analyzed: 02/18/2010 (F0B090470001X)						Source: F0B090470001					
Gross Alpha	0.84	3	0.94	pCi/L		2		-			U
Gross Beta	3.2	4	1.5	pCi/L		3.9		-			Jb
Blank Analyzed: 02/19/2010 (F0B120000108B)						Source:					
Gross Alpha	-0.28	2	0.87	pCi/L				-			U
Gross Beta	-0.23	4	1.1	pCi/L				-			U
LCS Analyzed: 02/19/2010 (F0B120000108C)						Source:					
Gross Alpha	34.8	3	1.2	pCi/L	49.4		70	62-134			
Gross Beta	71.6	4	1	pCi/L	68		105	58-133			

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METHOD BLANK/QC DATA

EPA 901.1 MOD

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 42136 Extracted: 02/11/10											
Duplicate Analyzed: 02/19/2010 (F0B090470001X)						Source: F0B090470001					
Cesium 137	1.2	20	14	pCi/L		-2.9		-			U
Potassium 40	-50	NA	200	pCi/L		-100		-			U
Blank Analyzed: 02/19/2010 (F0B110000136B)						Source:					
Cesium 137	1.8	20	14	pCi/L				-			U
Potassium 40	-80	NA	210	pCi/L				-			U
LCS Analyzed: 02/19/2010 (F0B110000136C)						Source:					
Americium 241	140000	NA	500	pCi/L	141000		99	87-110			
Cobalt 60	88000	NA	200	pCi/L	87900		100	89-110			
Cesium 137	52900	20	200	pCi/L	53100		100	90-110			

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METHOD BLANK/QC DATA

EPA 903.0 MOD

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 41160 Extracted: 02/10/10											
Duplicate Analyzed: 02/26/2010 (F0B090467001X)						Source: F0B090467001					
Radium (226)	0.07	1	0.29	pCi/L		0.089	-				U
Blank Analyzed: 02/26/2010 (F0B100000160B)						Source:					
Radium (226)	0.092	1	0.14	pCi/L			-				U
LCS Analyzed: 02/26/2010 (F0B100000160C)						Source:					
Radium (226)	10.4	1	0.2	pCi/L	11.3		93	68-136			

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METHOD BLANK/QC DATA

EPA 904 MOD

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 60257 Extracted: 03/01/10											
Blank Analyzed: 03/05/2010 (F0C010000257B)											
Radium 228	0.08	1	0.39	pCi/L				-			U
LCS Analyzed: 03/05/2010 (F0C010000257C)											
Radium 228	6.23	1	0.39	pCi/L	6.4		97	60-142			
LCS Dup Analyzed: 03/05/2010 (F0C010000257L)											
Radium 228	6.35	1	0.4	pCi/L	6.4		99	60-142	2	40	

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METHOD BLANK/QC DATA

EPA 905 MOD

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 41162 Extracted: 02/10/10											
Duplicate Analyzed: 02/19/2010 (F0B090475001X)						Source: F0B090475001					
Strontium 90	-0.15	3	0.42	pCi/L		-0.05		-			U
Blank Analyzed: 02/19/2010 (F0B100000162B)						Source:					
Strontium 90	-0.15	3	0.38	pCi/L				-			U
LCS Analyzed: 02/19/2010 (F0B100000162C)						Source:					
Strontium 90	6.82	3	0.34	pCi/L	6.8		100	80-130			

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METHOD BLANK/QC DATA

EPA 906.0 MOD

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 49035 Extracted: 02/18/10											
Duplicate Analyzed: 02/18/2010 (F0B090470001X)						Source: F0B090470001					
Tritium	80	500	92	pCi/L		114	-				U
Matrix Spike Analyzed: 02/18/2010 (F0B090473001S)						Source: F0B090473001					
Tritium	4650	500	90	pCi/L	4530	122	100	62-147			
Blank Analyzed: 02/18/2010 (F0B180000035B)						Source:					
Tritium	165	500	95	pCi/L							Jb
LCS Analyzed: 02/18/2010 (F0B180000035C)						Source:					
Tritium	4440	500	90	pCi/L	4530		98	85-112			

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METHOD BLANK/QC DATA

EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
Batch: 48124 Extracted: 02/17/10											
Blank Analyzed: 02/18/2010 (G0B170000124B)						Source:					
1,2,3,4,6,7,8-HpCDD	2.3e-006	0.00005	0.0000011	ug/L				-			J, Q
1,2,3,4,6,7,8-HpCDF	6e-007	0.00005	0.0000004	ug/L				-			J, Q
2,3,7,8-TCDF	ND	0.00001	0.00000047	ug/L				-			
1,2,3,4,7,8,9-HpCDF	ND	0.00005	0.00000069	ug/L				-			
1,2,3,4,7,8-HxCDD	ND	0.00005	0.0000006	ug/L				-			
1,2,3,4,7,8-HxCDF	ND	0.00005	0.00000036	ug/L				-			
1,2,3,6,7,8-HxCDD	ND	0.00005	0.0000005	ug/L				-			
1,2,3,6,7,8-HxCDF	ND	0.00005	0.00000031	ug/L				-			
1,2,3,7,8,9-HxCDD	ND	0.00005	0.00000046	ug/L				-			
1,2,3,7,8,9-HxCDF	ND	0.00005	0.0000004	ug/L				-			
1,2,3,7,8-PeCDD	ND	0.00005	0.00000057	ug/L				-			
1,2,3,7,8-PeCDF	ND	0.00005	0.00000044	ug/L				-			
2,3,4,6,7,8-HxCDF	ND	0.00005	0.00000031	ug/L				-			
2,3,4,7,8-PeCDF	ND	0.00005	0.00000052	ug/L				-			
2,3,7,8-TCDD	ND	0.00001	0.00000046	ug/L				-			
OCDD	2.3e-005	0.0001	0.00000084	ug/L				-			J
OCDF	7.2e-007	0.0001	0.0000008	ug/L				-			J, Q
Total HpCDD	1.3e-005	0.00005	0.0000011	ug/L				-			J, Q
Total HpCDF	1.1e-006	0.00005	0.0000004	ug/L				-			J, Q
Total HxCDD	ND	0.00005	0.00000046	ug/L				-			
Total HxCDF	ND	0.00005	0.00000031	ug/L				-			
Total PeCDD	ND	0.00005	0.00000057	ug/L				-			
Total PeCDF	ND	0.00005	0.00000016	ug/L				-			
Total TCDD	ND	0.00001	0.00000046	ug/L				-			
Total TCDF	ND	0.00001	0.00000047	ug/L				-			
Surrogate: 13C-2,3,7,8-TCDF	0.0013			ug/L	0.002		63	24-169			
Surrogate: 37Cl4-2,3,7,8-TCDD	0.00072			ug/L	0.0008		90	35-197			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.0018			ug/L	0.002		92	23-140			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.0017			ug/L	0.002		86	28-143			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.0016			ug/L	0.002		79	26-138			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.0017			ug/L	0.002		87	32-141			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.0016			ug/L	0.002		82	26-152			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.0017			ug/L	0.002		86	28-130			
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.0017			ug/L	0.002		86	26-123			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.0016			ug/L	0.002		81	29-147			

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 Attention: Bronwyn Kelly

Project ID: Annual Outfall 002

Report Number: ITB0783

Sampled: 02/05/10
 Received: 02/05/10

METHOD BLANK/QC DATA

EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 48124 Extracted: 02/17/10											
Blank Analyzed: 02/18/2010 (G0B170000124B)						Source:					
Surrogate: 13C-1,2,3,7,8-PeCDD	0.0016			ug/L	0.002		80	25-181			
Surrogate: 13C-1,2,3,7,8-PeCDF	0.0015			ug/L	0.002		75	24-185			
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.0018			ug/L	0.002		90	28-136			
Surrogate: 13C-2,3,4,7,8-PeCDF	0.0015			ug/L	0.002		74	21-178			
Surrogate: 13C-2,3,7,8-TCDD	0.0014			ug/L	0.002		71	25-164			
Surrogate: 13C-OCDD	0.0039			ug/L	0.004		98	17-157			
LCS Analyzed: 02/19/2010 (G0B170000124C)						Source:					
1,2,3,4,6,7,8-HpCDD	0.00111	0.00005	0.0000021	ug/L	0.001		111	70-140			Ba
1,2,3,4,6,7,8-HpCDF	0.00113	0.00005	0.0000023	ug/L	0.001		113	82-122			Ba
2,3,7,8-TCDF	0.000222	0.00001	0.00000048	ug/L	0.0002		111	75-158			
1,2,3,4,7,8,9-HpCDF	0.00125	0.00005	0.0000004	ug/L	0.001		125	78-138			
1,2,3,4,7,8-HxCDD	0.00128	0.00005	0.0000013	ug/L	0.001		128	70-164			
1,2,3,4,7,8-HxCDF	0.00119	0.00005	0.0000019	ug/L	0.001		119	72-134			
1,2,3,6,7,8-HxCDD	0.00109	0.00005	0.0000011	ug/L	0.001		109	76-134			
1,2,3,6,7,8-HxCDF	0.00114	0.00005	0.0000017	ug/L	0.001		114	84-130			
1,2,3,7,8,9-HxCDD	0.00102	0.00005	0.00000097	ug/L	0.001		102	64-162			
1,2,3,7,8,9-HxCDF	0.00118	0.00005	0.0000022	ug/L	0.001		118	78-130			
1,2,3,7,8-PeCDD	0.00112	0.00005	0.0000013	ug/L	0.001		112	70-142			
1,2,3,7,8-PeCDF	0.00114	0.00005	0.0000014	ug/L	0.001		114	80-134			
2,3,4,6,7,8-HxCDF	0.00116	0.00005	0.0000016	ug/L	0.001		116	70-156			
2,3,4,7,8-PeCDF	0.00115	0.00005	0.0000016	ug/L	0.001		115	68-160			
2,3,7,8-TCDD	0.000231	0.00001	0.00000063	ug/L	0.0002		115	67-158			
OCDD	0.00222	0.0001	0.0000034	ug/L	0.002		111	78-144			Ba
OCDF	0.0021	0.0001	0.0000025	ug/L	0.002		105	63-170			Ba
Surrogate: 13C-2,3,7,8-TCDF	0.00139			ug/L	0.002		70	22-152			
Surrogate: 37Cl4-2,3,7,8-TCDD	0.000723			ug/L	0.0008		90	31-191			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.00186			ug/L	0.002		93	26-166			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.00176			ug/L	0.002		88	21-158			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.0016			ug/L	0.002		80	20-186			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.00179			ug/L	0.002		89	21-193			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.00175			ug/L	0.002		87	19-202			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.00189			ug/L	0.002		94	25-163			
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.00177			ug/L	0.002		89	21-159			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.00171			ug/L	0.002		85	17-205			
Surrogate: 13C-1,2,3,7,8-PeCDD	0.00174			ug/L	0.002		87	21-227			

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METHOD BLANK/QC DATA

EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 48124 Extracted: 02/17/10											
LCS Analyzed: 02/19/2010 (G0B170000124C)											
Surrogate: 13C-1,2,3,7,8-PeCDF	0.00161			ug/L	0.002		81	21-192			
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.00192			ug/L	0.002		96	22-176			
Surrogate: 13C-2,3,4,7,8-PeCDF	0.00158			ug/L	0.002		79	13-328			
Surrogate: 13C-2,3,7,8-TCDD	0.00151			ug/L	0.002		76	20-175			
Surrogate: 13C-OCDD	0.00383			ug/L	0.004		96	13-199			

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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
ITB0783-01	1664-HEM	Hexane Extractable Material (Oil & Greas	mg/l	0.100	5.0	15
ITB0783-01	624-Boeing 001/002Q (Fr113+X+Fr1,1-Dichloroethene		ug/l	0	0.50	6
ITB0783-01	624-Boeing 001/002Q (Fr113+X+FrTrichloroethene		ug/l	0	0.50	5
ITB0783-01	Chromium VI-218.6	Chromium VI	ug/l	0.012	1.0	16
ITB0783-01	Cyanide, Total-4500CN-E (5ppb)	Total Cyanide	ug/l	-4	5.0	8.5
ITB0783-01	Settleable Solids - SM2540F	Total Settleable Solids	ml/l	0	0.10	0.3

Compliance Check

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LabNumber	Analysis	Analyte	Units	Result	MRL	Compliance Limit
ITB0783-02	624-Boeing 001/002Q (Fr113+X+Fr1,1-Dichloroethene		ug/l	0	0.50	6
ITB0783-02	624-Boeing 001/002Q (Fr113+X+FrTrichloroethene		ug/l	0	0.50	5

Compliance Check

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LabNumber	Analysis	Analyte	Units	Result	MRL	Compliance Limit
ITB0888-01	608-Pest Boeing 001/002 Q (LL)	alpha-BHC	ug/l	0.0014	0.0094	0.03
ITB0888-01	608-Pesticides (LowRL)	alpha-BHC	ug/l	0.0014	0.0047	0.03
ITB0888-01	625+NDMA, LL	2,4,6-Trichlorophenol	ug/l	0	0.94	13
ITB0888-01	625+NDMA, LL	2,4-Dinitrotoluene	ug/l	0	4.7	18
ITB0888-01	625+NDMA, LL	Bis(2-ethylhexyl)phthalate	ug/l	0.83	4.7	4
ITB0888-01	625+NDMA, LL	N-Nitrosodimethylamine	ug/l	0	1.9	16
ITB0888-01	625+NDMA, LL	Pentachlorophenol	ug/l	0	1.9	16
ITB0888-01	Antimony-200.8	Antimony	ug/l	0	2.0	6
ITB0888-01	Arsenic-200.7	Arsenic	ug/l	1.78	10	10
ITB0888-01	Barium-200.7	Barium	mg/l	0.041	0.010	1
ITB0888-01	Beryllium-200.7	Beryllium	ug/l	0	2.0	4
ITB0888-01	BOD - SM5210B	Biochemical Oxygen Demand	mg/l	0.81	2.0	30
ITB0888-01	Cadmium-200.8	Cadmium	ug/l	0	1.0	3.1
ITB0888-01	Chloride - 300.0	Chloride	mg/l	27	0.50	150

TestAmerica Irvine

Kathleen A. Robb For Heather Clark
Project Manager

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

Project ID: Annual Outfall 002

Report Number: ITB0783

Sampled: 02/05/10
Received: 02/05/10

ITB0888-01	Chromium-200.7	Chromium	ug/l	0	5.0	16
ITB0888-01	Copper-200.8	Copper	ug/l	1.68	2.0	14
ITB0888-01	Fluoride SM4500F,C	Fluoride	mg/l	0.39	0.10	1.6
ITB0888-01	Iron-200.7	Iron	mg/l	0.61	0.040	0.3
ITB0888-01	Lead-200.8	Lead	ug/l	0.40	1.0	5.2
ITB0888-01	Manganese-200.7	Manganese	ug/l	18	20	50
ITB0888-01	MBAS - SM5540-C	Surfactants (MBAS)	mg/l	0.038	0.10	0.5
ITB0888-01	Nickel-200.7	Nickel	ug/l	-1	10	96
ITB0888-01	Nitrate-N, 300.0	Nitrate-N	mg/l	0.24	0.11	8
ITB0888-01	Nitrite-N, 300.0	Nitrite-N	ug/l	0	150	1000
ITB0888-01	Nitrogen, NO3+NO2 -N EPA 300.0	Nitrate/Nitrite-N	mg/l	0.24	0.26	8
ITB0888-01	Perchlorate 314.0 - Default	Perchlorate	ug/l	0	4.0	6
ITB0888-01	Selenium-200.8	Selenium	ug/l	0.42	2.0	5
ITB0888-01	Silver-200.8	Silver	ug/l	0	1.0	4.1
ITB0888-01	Sulfate-300.0	Sulfate	mg/l	157	10	300
ITB0888-01	TDS - SM2540C	Total Dissolved Solids	mg/l	401	10	950
ITB0888-01	Thallium-200.8	Thallium	ug/l	0.095	1.0	2
ITB0888-01	TSS - SM2540D	Total Suspended Solids	mg/l	9.00	10	45
ITB0888-01	Zinc-200.7	Zinc	ug/l	8.82	20	120

Compliance Check

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

LabNumber	Analysis	Analyte	Units	Result	MRL	Compliance Limit
-----------	----------	---------	-------	--------	-----	------------------

TestAmerica Irvine

Kathleen A. Robb For Heather Clark
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

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

Project ID: Annual Outfall 002

Report Number: ITB0783

Sampled: 02/05/10
Received: 02/05/10

DATA QUALIFIERS AND DEFINITIONS

B	Analyte was detected in the associated Method Blank.
Ba	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
C	Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.
C8	Calibration Verification recovery was above the method control limit for this analyte. A high bias may be indicated.
J	Estimated result. Result is less than the reporting limit.
Ja	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.
Jb	Result is greater than sample detection limit but less than stated reporting limit.
L	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.
M1	The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
M13	The sample spiked had a pH of less than 2. 2-Chloroethylvinylether degrades under acidic conditions.
M2	The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
M7	The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS).
MHA	Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
MNR1	There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
Q	Estimated maximum possible concentration (EMPC).
R	The RPD exceeded the method control limit due to sample matrix effects. The individual analyte QA/QC recoveries, however, were within acceptance limits.
R-3	The RPD exceeded the acceptance limit due to sample matrix effects.
U	Result is less than the sample detection limit.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

ADDITIONAL COMMENTS

For 1,2-Diphenylhydrazine:

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

For GRO (C4-C12):

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

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

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

TestAmerica Irvine

Kathleen A. Robb For Heather Clark
Project Manager

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

Project ID: Annual Outfall 002

Report Number: ITB0783

Sampled: 02/05/10
 Received: 02/05/10

Certification Summary

TestAmerica Irvine

Method	Matrix	Nelac	California
EDD + Level 4	Water	N/A	N/A
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 218.6	Water	X	X
EPA 245.1-Diss	Water	X	X
EPA 245.1	Water	X	X
EPA 300.0	Water	X	X
EPA 314.0	Water	X	X
EPA 608	Water	X	X
EPA 624	Water	X	X
EPA 625	Water	X	X
EPA 8015 Mod.	Water	X	X
EPA 8015B	Water	X	X
EPA 8260B-SIM	Water	X	X
Filtration	Water	N/A	N/A
SM 2540D	Water	X	X
SM 4500-F-C	Water	X	X
SM2340B-Diss	Water		
SM2340B	Water	X	X
SM2510B	Water	X	X
SM2540C	Water	X	
SM2540F	Water	X	X
SM4500CN-E	Water	X	X
SM4500NH3-C	Water	X	X
SM5210B	Water	X	X
SM5310B	Water	X	X
SM5540-C	Water	X	X

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

Subcontracted Laboratories

TestAmerica Irvine

Kathleen A. Robb For Heather Clark
 Project Manager

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

Project ID: Annual Outfall 002

Report Number: ITB0783

Sampled: 02/05/10
Received: 02/05/10

Aquatic Testing Laboratories-SUB *California Cert #1775*

4350 Transport Street, Unit 107 - Ventura, CA 93003

Analysis Performed: Bioassay-7 dy Chronic
Samples: ITB0888-01

Analysis Performed: Bioassay-Acute 96hr
Samples: ITB0888-01

TestAmerica St. Louis

13715 Rider Trail North - Earth City, MO 63045

Method Performed: ASTM 5174-91
Samples: ITB0888-01

Method Performed: EPA 900.0 MOD
Samples: ITB0888-01

Method Performed: EPA 901.1 MOD
Samples: ITB0888-01

Method Performed: EPA 903.0 MOD
Samples: ITB0888-01

Method Performed: EPA 904 MOD
Samples: ITB0888-01RE1

Method Performed: EPA 905 MOD
Samples: ITB0888-01

Method Performed: EPA 906.0 MOD
Samples: ITB0888-01

TestAmerica West Sacramento

880 Riverside Parkway - West Sacramento, CA 95605

Method Performed: EPA-5 1613B
Samples: ITB0888-01, ITB0888-01RE1

Truesdail Laboratories-SUB *California Cert #1237*

14201 Franklin Avenue - Tustin, CA 92680

Analysis Performed: Hydrazine
Samples: ITB0888-01

TestAmerica Irvine

Kathleen A. Robb For Heather Clark
Project Manager

CHAIN OF CUSTODY FORM

ITB0783

Client Name/Address: MWH-Arcadia 618 Michillinda Ave, Suite 200 Arcadia, CA 91007		Project: Boeing-SSFL NPDES Annual Outfall 002 GRAB		ANALYSIS REQUIRED										Field Readings: (Log in and include in report Temp and pH) Temp °F = 50.9 pH = 7.6 Total Residual Chlorine = 0.02 mg/L Time of readings = 2/5/10 0930 Comments			
Test America Contact: Joseph Doak		Project Manager: Bronwyn Kelly Sampler: S. Dawson		Phone Number: (626) 568-6691 Fax Number: (626) 568-6515		Project Number: (626) 568-6691 Fax Number: (626) 568-6515		VOCs 624 + xylenes + Freon 113, Freon 123A, Cyclohexane + PP VOCs 624 + A+A+2C+E Cr (VI) (218.6) Settleable Solids Total Residual Chlorine Oil & Grease (1664-HEM) Cyanide (total recoverable) 8015 - gas 8015 - diesel/jet fuel Conductivity									
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	VOCs 624 + xylenes + Freon 113, Freon 123A, Cyclohexane + PP	VOCs 624 + A+A+2C+E	Cr (VI) (218.6)	Settleable Solids	Total Residual Chlorine	Oil & Grease (1664-HEM)	Cyanide (total recoverable)	8015 - gas	8015 - diesel/jet fuel	Conductivity	
Outfall 002	W	VOAS	5	2/5/10 0930	HCl	1A, 1B, 1C, 1D, 1E	X										
Outfall 002	W	VOAS	3	2/5/10 0930	None	2A, 2B, 2C	X										
Outfall 002	W	500 mL Poly	1		None	3		X									
Outfall 002	W	1L Poly	1		None	4			X								
Outfall 002	W	150 mL Poly	1		None	5				X							
Outfall 002	W	1L Amber	2		HCl	6A, 6B					X						
Outfall 002	W	500 mL Poly	1		NaOH	7						X					
Trip Blanks	W	VOAS	3		HCl	8A, 8B, 8C	X										
Trip Blanks	W	VOAS	3		None	9A, 9B, 9C		X									
Outfall 002	W	VOAS	1		HCl	10A							X				
Outfall 002 Dup	W	VOAS	2		HCl	10B, 10C							X				
Outfall 002	W	1L Amber	1		None	11A								X			
Outfall 002 Dup	W	1L Amber	1		None	11B								X			
Outfall 002	W	500 mL Poly	2	2/5/10 0930	None	12A, 12B									X		

These Samples are the Grab Portion of Outfall 002 for this storm event. Composite samples will follow and are to be added to this work order.

Relinquished By: *[Signature]* Date/Time: 2-5-10 15:30
 Received By: *[Signature]* Date/Time: 2-5-10 15:30

Relinquished By: *[Signature]* Date/Time: 2-5-10 14:20
 Received By: *[Signature]* Date/Time: 2-5-10 14:20

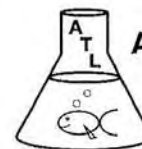
Turn-around time: (Check)
 24 Hour: 72 Hour:
 48 Hour: 5 Day:
 10 Day: Normal:

Sample Integrity: (Check)
 Intact: On Ice:

Data Requirements: (Check)
 No Level IV: All Level IV: NPDES Level IV:

2.9 M253

LABORATORY REPORT



**Aquatic
Testing
Laboratories**

"dedicated to providing quality aquatic toxicity testing"

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

Date: February 15, 2010

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

Laboratory No.: A-10020703-001
Sample I.D.: ITB0888-01 (Outfall 002)

Sample Control: The sample was received by ATL chilled and with the chain of custody record attached. Testing conducted on only one sample per client instruction (rain runoff sample). Sample received outside the recommended 36 hour hold time and conduct per client instruction.

Date Sampled: 02/05/10
Date Received: 02/07/10
Temp. Received: 3.8°C
Chlorine (TRC): 0.0 mg/l
Date Tested: 02/07/10 to 02/14/10

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

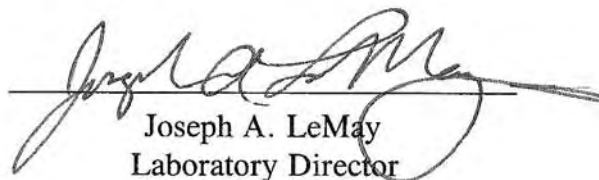
Fathead Minnow 96hr Percent Survival Bioassay (EPA Method 2000.0).
Ceriodaphnia dubia Survival and Reproduction Test (EPA Method 1002).

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

Result Summary:

Acute:	<u>Survival</u>	<u>TUa</u>
Fathead Minnow:	100%	0.0
Chronic:	<u>NOEC</u>	<u>TUc</u>
<i>Ceriodaphnia</i> Survival:	100%	1.0
<i>Ceriodaphnia</i> Reproduction:	100%	1.0

Quality Control: Reviewed and approved by:


Joseph A. LeMay
Laboratory Director

FATHEAD MINNOW PERCENT SURVIVAL TEST
EPA Method 2000.0



Lab No.: A-10020703-001

Client/ID: TestAmerica ITB0888-01 Outfall 002

Start Date: 02/07/2010

TEST SUMMARY

Species: *Pimephales promelas*.

Age: 12 (1-14) days.

Regulations: NPDES.

Test solution volume: 250 ml.

Feeding: prior to renewal at 48 hrs.

Number of replicates: 2.

Dilution water: Moderately hard reconstituted water.

Photoperiod: 16/8 hrs light/dark.

Source: In-laboratory Culture.

Test type: Static-Renewal.

Test Protocol: EPA-821-R-02-012.

Endpoints: Percent Survival at 96 hrs.

Test chamber: 600 ml beakers.

Temperature: 20 +/- 1°C.

Number of fish per chamber: 10.

QA/QC Batch No.: RT-100202.

TEST DATA

		°C	DO	pH	# Dead		Analyst & Time of Readings
					A	B	
INITIAL	Control	20.1	8.5	7.7	0	0	J 1400
	100%	20.1	9.8	7.7	0	0	
24 Hr	Control	19.6	8.1	8.0	0	0	Z 1200
	100%	19.7	8.7	8.2	0	0	
48 Hr	Control	19.3	8.1	7.5	0	0	R 1300
	100%	19.0	8.2	8.2	0	0	
Renewal	Control	19.8	9.0	8.0	0	0	R 1300
	100%	20.4	9.6	8.0	0	0	
72 Hr	Control	19.4	7.1	7.5	0	0	R 1500
	100%	19.0	6.9	7.7	0	0	
96 Hr	Control	19.1	8.2	7.7	0	0	R 1400
	100%	19.0	8.6	7.9	0	0	

Comments:

Sample as received: Chlorine: 0.0 mg/l; pH: 7.7; Conductivity: 614 umho; Temp: 3.8°C;

DO: 7.9 mg/l; Alkalinity: 167 mg/l; Hardness: 215 mg/l; NH₃-N: 0.2 mg/l.

Sample aerated moderately (approx. 500 ml/min) to raise or lower DO? Yes / No.

Control: Alkalinity: 71 mg/l; Hardness: 108 mg/l; Conductivity: 325 umho.

Test solution aerated (not to exceed 100 bubbles/min) to maintain DO >4.0 mg/l? Yes / No.

Sample used for renewal is the original sample kept at 0-6°C with minimal headspace.

Dissolved Oxygen (DO) readings in mg/l O₂.

RESULTS

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



CERIODAPHNIA SURVIVAL AND REPRODUCTION TEST

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

**CERIODAPHNIA CHRONIC BIOASSAY
EPA METHOD 1002.0**



Lab No.: A-10020703-00
Client/ID: Test America – ITB0888-01 (Outfall 002)

Date Tested: 02/07/10 to 02/14/10

TEST SUMMARY

Test type: Daily static-renewal.
Species: *Ceriodaphnia dubia*.
Age: < 24 hrs; all released within 8 hrs.
Test vessel size: 30 ml.
Number of test organisms per vessel: 1.
Temperature: 25 +/- 1°C.
Dilution water: Mod. hard reconstituted (MHRW).
QA/QC Batch No.: RT-100207.

Endpoints: Survival and Reproduction.
Source: In-laboratory culture.
Food: .1 ml YTC, algae per day.
Test solution volume: 15 ml.
Number of replicates: 10.
Photoperiod: 16/8 hrs. light/dark cycle.
Test duration: 7 days.
Statistics: ToxCalc computer program.

RESULTS SUMMARY

Sample Concentration	Percent Survival	Mean Number of Young Per Female
Control	100%	27.9
100% Sample	100%	30.2
* Sample not statistically significantly less than Control.		

CHRONIC TOXICITY

Survival NOEC	100%
Survival TUc	1.0
Reproduction NOEC	100%
Reproduction TUc	1.0

QA/QC TEST ACCEPTABILITY

Parameter	Result
Control survival ≥80%	Pass (100% survival)
≥15 young per surviving control female	Pass (27.9 young)
≥60% surviving controls had 3 broods	Pass (100% with 3 broods)
PMSD <47% for reproduction; if >47% and no toxicity at IWC, the test must be repeated	Pass (PMSD = 10.9%)
Statistically significantly different concentrations relative difference >13%	Pass (no concentration significantly different)
Concentration response relationship acceptable	Pass (no significant response at concentration tested)

Ceriodaphnia Survival and Reproduction Test-7 Day Survival

Start Date: 2/7/2010 15:00 Test ID: 10020703c Sample ID: ITB0888-01
 End Date: 2/14/2010 14:00 Lab ID: CAATL-Aquatic Testing Labs Sample Type: EFF2-Industrial
 Sample Date: 2/5/2010 21:03 Protocol: FWCH EPA Test Species: CD-Ceriodaphnia dubia
 Comments:

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

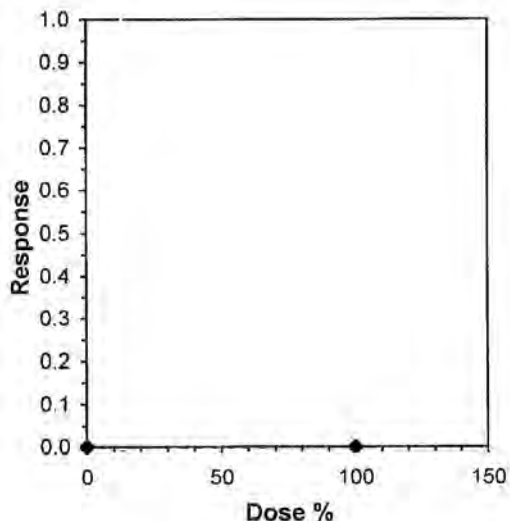
Conc-%	Mean	N-Mean	Resp	Not Resp	Total	N	Fisher's 1-Tailed		Isotonic	
							Exact P	Critical	Mean	N-Mean
D-Control	1.0000	1.0000	0	10	10	10			1.0000	1.0000
100	1.0000	1.0000	0	10	10	10	1.0000	0.0500	1.0000	1.0000

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

Treatments vs D-Control

Linear Interpolation (200 Resamples)

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



Ceriodaphnia Survival and Reproduction Test-Reproduction

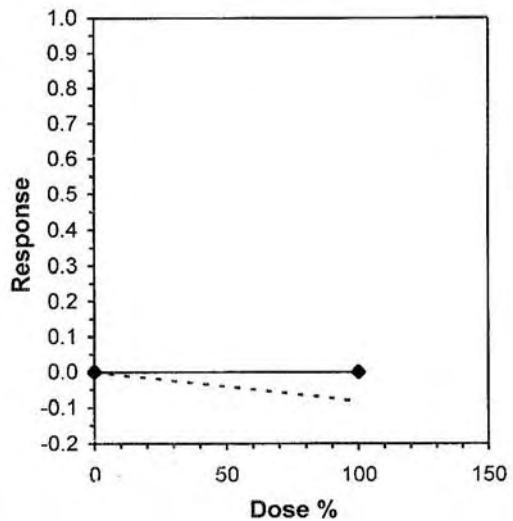
Start Date: 2/7/2010 15:00 Test ID: 10020703c Sample ID: ITB0888-01
 End Date: 2/14/2010 14:00 Lab ID: CAATL-Aquatic Testing Labs Sample Type: EFF2-Industrial
 Sample Date: 2/5/2010 21:03 Protocol: FWCH EPA Test Species: CD-Ceriodaphnia dubia
 Comments:

Conc-%	1	2	3	4	5	6	7	8	9	10
D-Control	30.000	26.000	31.000	29.000	30.000	32.000	24.000	30.000	22.000	25.000
100	31.000	34.000	38.000	33.000	25.000	33.000	24.000	27.000	28.000	29.000

Conc-%	Mean	N-Mean	Transform: Untransformed					N	t-Stat	1-Tailed Critical	MSD	Isotonic	
			Mean	Min	Max	CV%	Mean					N-Mean	
D-Control	27.900	1.0000	27.900	22.000	32.000	12.119	10				29.050	1.0000	
100	30.200	1.0824	30.200	24.000	38.000	14.543	10	-1.312	1.734	3.039	29.050	1.0000	

Auxiliary Tests	Statistic	Critical	Skew	Kurt		
Shapiro-Wilk's Test indicates normal distribution (p > 0.05)	0.95408	0.905	-0.0193	-0.6964		
F-Test indicates equal variances (p = 0.45)	1.68707	6.54109				
Hypothesis Test (1-tail, 0.05)	MSDu	MSDp	MSB	MSE	F-Prob	df
Homoscedastic t Test indicates no significant differences	3.03942	0.10894	26.45	15.3611	0.20594	1, 18

Linear Interpolation (200 Resamples)				
Point	%	SD	95% CL	Skew
IC05	>100			
IC10	>100			
IC15	>100			
IC20	>100			
IC25	>100			
IC40	>100			
IC50	>100			



CERIODAPHNIA DUBIA CHRONIC BIOASSAY
EPA METHOD 1002.0 Raw Data Sheet



Lab No.: A-10020703-001

Client ID: TestAmerica - ITB0888-01 Outfall 002

Start Date: 02/07/2010

		DAY 1		DAY 2		DAY 3		DAY 4		DAY 5		DAY 6		DAY 7	
		0 hr	24hr	0 hr	24hr	0 hr	24hr	0 hr	24hr	0 hr	24hr	0 hr	24hr	0 hr	24hr
Analyst Initials:		R R		R R		R R		R R		R R		R R		R R	
Time of Readings:		1500	1430	1430	1500	1500	1400	1400	1400	1400	1500	1500	1600	1600	1400
Control	DO	8.3	8.1	8.2	8.3	8.2	8.4	8.2	8.0	8.3	8.0	8.1	7.8	8.0	8.1
	pH	7.7	7.8	7.6	7.8	8.0	7.6	7.7	7.9	7.7	7.4	7.7	7.7	7.5	7.5
	Temp	24.3	24.8	24.8	25.6	25.6	24.7	24.4	24.6	25.7	25.0	25.4	25.3	25.5	24.4
100%	DO	10.8	8.0	10.2	8.5	9.1	8.3	10.2	7.6	10.3	7.9	10.4	7.7	10.1	7.8
	pH	7.6	7.9	7.8	8.2	8.1	8.1	7.8	8.3	7.8	8.1	7.8	8.2	7.8	8.0
	Temp	24.9	24.7	24.4	25.4	25.0	25.1	25.1	25.0	25.1	25.1	25.2	25.5	25.1	24.9

Additional Parameters	Control	100% Sample
Conductivity (umohms)	349	614
Alkalinity (mg/l CaCO ₃)	67	167
Hardness (mg/l CaCO ₃)	90	215
Ammonia (mg/l NH ₃ -N)	2.0-1	0.2

Source of Neonates											
Replicate:	A	B	C	D	E	F	G	H	I	J	
Brood ID:	5A	6B	6C	4D	4E	6F	4G	5H	6I	5J	

Sample	Day	Number of Young Produced										Total Live Young	No. Live Adults	Analyst Initials
		A	B	C	D	E	F	G	H	I	J			
Control	1	0	0	0	0	0	0	0	0	0	0	0	10	R
	2	0	0	0	0	0	0	0	0	0	0	0	10	R
	3	4	5	4	4	4	0	3	3	2	4	33	10	R
	4	0	0	0	0	9	6	5	10	7	9	46	10	R
	5	8	6	10	9	0	0	16	17	13	12	91	10	R
	6	18	0	0	0	0	10	0	0	0	0	28	10	R
	7	0	15	17	16	17	16	15	17	17	16	81	10	R
	Total	30	26	31	29	30	32	24	30	22	25	279	10	R
100%	1	0	0	0	0	0	0	0	0	0	0	0	10	R
	2	0	0	0	0	0	0	0	0	0	0	0	10	R
	3	4	4	5	4	4	4	2	4	4	3	38	10	R
	4	9	0	0	0	7	0	9	9	10	10	54	10	R
	5	18	11	12	11	14	10	13	14	0	0	103	10	R
	6	20	19	21	18	0	19	23	19	14	16	107	10	R
	7	0	18	19	0	19	0	0	0	19	16	0	10	R
	Total	31	34	38	33	25	33	24	27	28	29	302	10	R

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



***CHAIN
OF
CUSTODY***

SUBCONTRACT ORDER
TestAmerica Irvine
ITB0888

SENDING LABORATORY:

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

RECEIVING LABORATORY:

Aquatic Testing Laboratories-SUB
 4350 Transport Street, Unit 107
 Ventura, CA 93003
 Phone : (805) 650-0546
 Fax: (805) 650-0756
 Project Location: CA - CALIFORNIA
 Receipt Temperature: 3-8°C Ice: Y / N

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

Analysis	Units	Expires	Comments
Sample ID: ITB0888-01 (Outfall 002 (Composite) - Water) Sampled: 02/05/10 21:03			
Bioassay-7 dy Chrnrc	N/A	02/07/10 09:03	Cerio, EPA/821-R02-013, Sub to Aquatic
Bioassay-Acute 96hr	% Survival	02/07/10 09:03	FH minnow, EPA/821-R02-012, Sub to Aquatic
<i>Containers Supplied:</i>			
1 gal Poly (AA)	1 gal Poly (AD)		

Released By: [Signature] Date/Time: 27-10-905
 Released By: [Signature] Date/Time: 27-10-1108

Received By: [Signature] Date/Time: 27-10-905
 Received By: [Signature] Date/Time: 27-10-1108



***REFERENCE
TOXICANT
DATA***

**FATHEAD MINNOW ACUTE
Method 2000.0
Reference Toxicant - SDS**



QA/QC Batch No.: RT-100202

TEST SUMMARY

Species: *Pimephales promelas*.

Age: 13 days old.

Regulations: NPDES.

Test chamber volume: 250 ml.

Feeding: Prior to renewal at 48 hrs.

Temperature: 20 +/- 1°C.

Number of replicates: 2.

Dilution water: MHSF.

Source: In-lab culture.

Test type: Static-Renewal.

Test Protocol: EPA-821-R-02-012.

Endpoints: LC50 at 96 hrs.

Test chamber: 600 ml beakers.

Aeration: None.

Number of organisms per chamber: 10.

Photoperiod: 16/8 hrs light/dark.

TEST DATA

Date/Time:	INITIAL			24 Hr					48 Hr				
	<u>2-2-10 1200</u>			<u>2-3-10 1300</u>					<u>2-4-10 1200</u>				
	<u>Rm</u>			<u>Rm</u>					<u>Rm</u>				
	°C	DO	pH	°C	DO	pH	# Dead		°C	DO	pH	# Dead	
A							B	A				B	
Control	<u>19.6</u>	<u>8.4</u>	<u>7.6</u>	<u>19.4</u>	<u>7.9</u>	<u>7.4</u>	<u>0</u>	<u>0</u>	<u>19.2</u>	<u>7.1</u>	<u>7.9</u>	<u>0</u>	<u>0</u>
1.0 mg/l	<u>19.6</u>	<u>8.5</u>	<u>7.6</u>	<u>19.2</u>	<u>8.0</u>	<u>7.4</u>	<u>0</u>	<u>0</u>	<u>19.2</u>	<u>7.3</u>	<u>7.7</u>	<u>0</u>	<u>0</u>
2.0 mg/l	<u>19.6</u>	<u>8.5</u>	<u>7.7</u>	<u>19.1</u>	<u>8.0</u>	<u>7.4</u>	<u>0</u>	<u>0</u>	<u>19.1</u>	<u>7.2</u>	<u>7.6</u>	<u>0</u>	<u>0</u>
4.0 mg/l	<u>19.6</u>	<u>8.5</u>	<u>7.7</u>	<u>19.1</u>	<u>7.6</u>	<u>7.4</u>	<u>0</u>	<u>0</u>	<u>19.1</u>	<u>7.2</u>	<u>7.6</u>	<u>0</u>	<u>0</u>
8.0 mg/l	<u>19.6</u>	<u>8.6</u>	<u>7.7</u>	<u>19.0</u>	<u>6.8</u>	<u>7.3</u>	<u>10</u>	<u>10</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>

Date/Time:	RENEWAL			72 Hr					96 Hr				
	<u>2-4-10 1200</u>			<u>2-5-10 1200</u>					<u>2-6-10 1130</u>				
	<u>Rm</u>			<u>Rm</u>					<u>Rm</u>				
	°C	DO	pH	°C	DO	pH	# Dead		°C	DO	pH	# Dead	
A							B	A				B	
Control	<u>19.5</u>	<u>8.8</u>	<u>7.8</u>	<u>19.5</u>	<u>7.4</u>	<u>7.4</u>	<u>0</u>	<u>0</u>	<u>20.6</u>	<u>6.3</u>	<u>7.4</u>	<u>0</u>	<u>0</u>
1.0 mg/l	<u>19.5</u>	<u>8.8</u>	<u>7.8</u>	<u>19.4</u>	<u>7.4</u>	<u>7.4</u>	<u>0</u>	<u>0</u>	<u>20.6</u>	<u>6.6</u>	<u>7.4</u>	<u>0</u>	<u>0</u>
2.0 mg/l	<u>19.5</u>	<u>8.9</u>	<u>7.8</u>	<u>19.2</u>	<u>7.4</u>	<u>7.4</u>	<u>0</u>	<u>0</u>	<u>20.6</u>	<u>6.5</u>	<u>7.4</u>	<u>0</u>	<u>0</u>
4.0 mg/l	<u>19.5</u>	<u>8.9</u>	<u>7.8</u>	<u>19.2</u>	<u>7.3</u>	<u>7.4</u>	<u>0</u>	<u>0</u>	<u>20.5</u>	<u>6.4</u>	<u>7.4</u>	<u>0</u>	<u>0</u>
8.0 mg/l	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>

Comments: Control: Alkalinity: 69 mg/l; Hardness: 94 mg/l; Conductivity: 330 umho.
 SDS: Alkalinity: 68 mg/l; Hardness: 94 mg/l; Conductivity: 333 umho.

Concentration-response relationship acceptable? (see attached computer analysis):

Yes (response curve normal)

No (dose interrupted indicated or non-normal)

Acute Fish Test-96 Hr Survival

Start Date: 2/2/2010 12:00 Test ID: RT100202f Sample ID: REF-Ref Toxicant
 End Date: 2/6/2010 11:30 Lab ID: CAATL-Aquatic Testing Labs Sample Type: SDS-Sodium dodecyl sulfate
 Sample Date: 2/2/2010 Protocol: ACUTE-EPA-821-R-02-012 Test Species: PP-Pimephales promelas
 Comments:

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

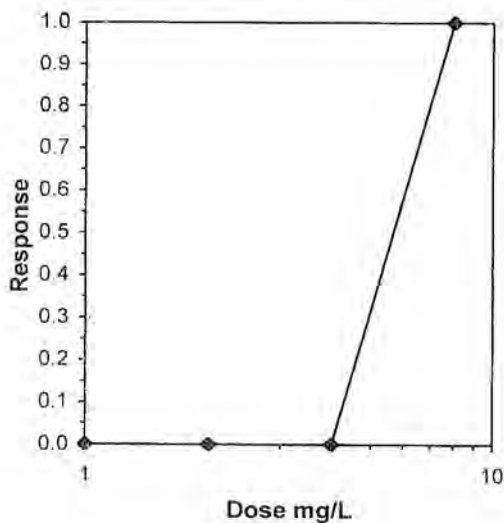
Conc-mg/L	Mean	N-Mean	Transform: Arcsin Square Root					N	Number Resp	Total Number
			Mean	Min	Max	CV%				
D-Control	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	2	0	20	
1	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	2	0	20	
2	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	2	0	20	
4	1.0000	1.0000	1.4120	1.4120	1.4120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

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

Graphical Method

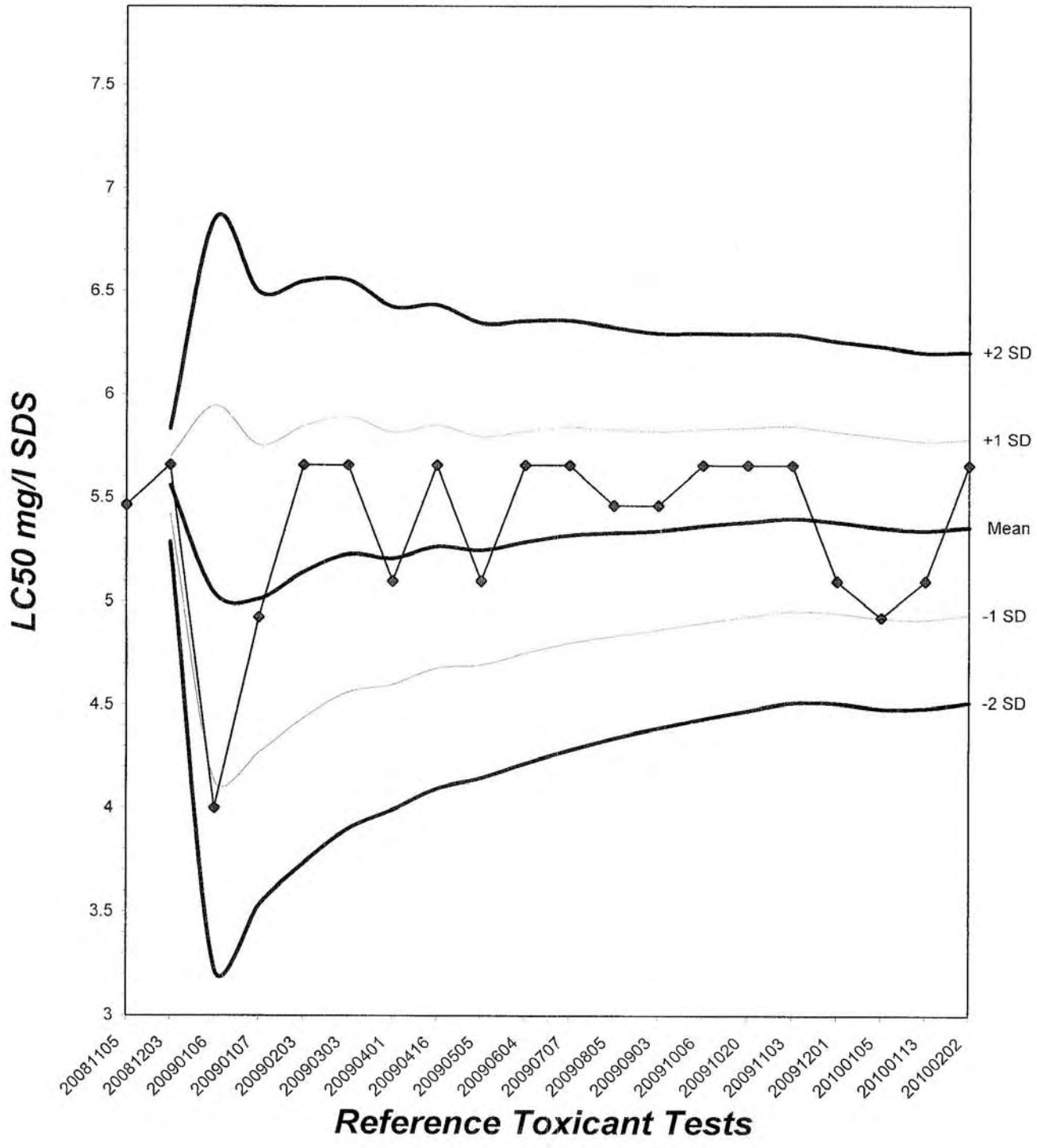
Trim Level	EC50
0.0%	5.6569

5.6569



Fathead Minnow Acute Laboratory Control Chart

CV% = 7.91



TEST ORGANISM LOG



FATHEAD MINNOW - LARVAL (*Pimephales promelas*)

QA/QC BATCH NO.: RT-100202

SOURCE: In-Lab Culture

DATE HATCHED: 1-20-10

APPROXIMATE QUANTITY: 400

GENERAL APPEARANCE: good

MORTALITIES 48 HOURS PRIOR TO
TO USE IN TESTING: 0

DATE USED IN LAB: 1-15-10

AVERAGE FISH WEIGHT: 0.006 gm

LOADING LIMITS: 0.65 gm/liter @ 20°C, 0.40 gm/liter @ 25°C

Approximately 1000 fish per 10 liters limit if held overnight for acclimation without filtration @ 20°C for fish with a mean weight of 0.006 gm.

Approximately 650 fish per 10 liters limit if held overnight for acclimation without filtration @ 25°C for fish with a mean weight of 0.006 gm.

200 ml test solution volume = 0.013 gm mean fish weight limit @ 20°C; 0.008 @ 25°C

250 ml test solution volume = 0.016 gm mean fish weight limit @ 20°C; 0.010 @ 25°C

ACCLIMATION WATER QUALITY:

Temp.: 19.6°C

pH: 7.6

Ammonia: 20.1 mg/l NH₃-N

DO: 8.4 mg/l

Alkalinity: 69 mg/l

Hardness: 94 mg/l

READINGS RECORDED BY: _____

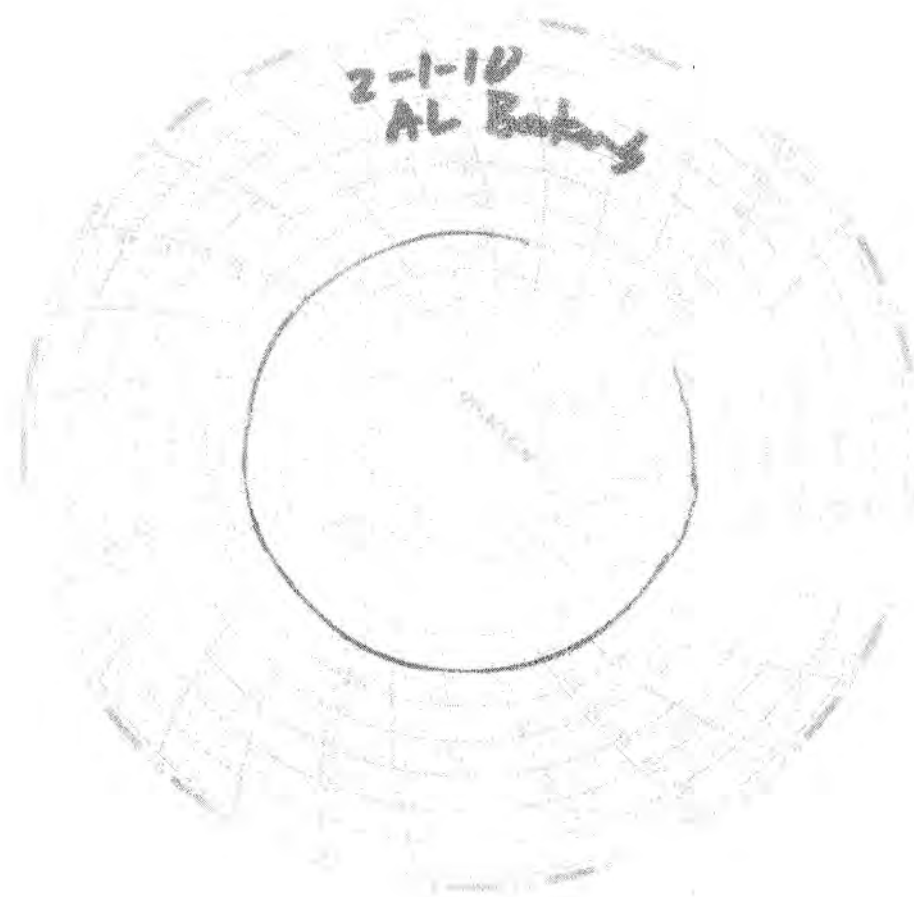
DATE: 2-3-10

Test Temperature Chart

Test No: RT-100202

Date Tested: 02/02/10 to 02/06/10

Acceptable Range: 20+/- 1°C





Ceriodaphnia dubia
Chronic Toxicity Test
Reference
Toxicant
Data

CERIODAPHNIA CHRONIC BIOASSAY
EPA METHOD 1002.0
REFERENCE TOXICANT - NaCl



QA/QC Batch No.: RT-100207

Date Tested: 02/07/10 to 02/14/10

TEST SUMMARY

Test type: Daily static-renewal.
 Species: *Ceriodaphnia dubia*.
 Age: < 24 hrs; all released within 8 hrs.
 Test vessel size: 30 ml.
 Number of test organisms per vessel: 1.
 Temperature: 25 +/- 1°C.
 Dilution water: Mod. hard reconstituted (MHRW).
 Reference Toxicant: Sodium chloride (NaCl).

Endpoints: Survival and Reproduction.
 Source: In-laboratory culture.
 Food: .1 ml YTC, algae per day.
 Test solution volume: 20 ml.
 Number of replicates: 10.
 Photoperiod: 16/8 hrs. light/dark cycle.
 Test duration: 7 days.
 Statistics: ToxCalc computer program.

RESULTS SUMMARY

Sample Concentration	Percent Survival		Mean Number of Young Per Female	
Control	100%		28.5	
0.25 g/l	100%		30.9	
0.5 g/l	100%		25.5	
1.0 g/l	100%		15.4	*
2.0 g/l	100%		2.9	*
4.0 g/l	0%	*	0	**

* Statistically significantly less than control at P = 0.05 level
 ** Reproduction data from concentrations greater than survival NCEC are excluded from statistical analysis.

CHRONIC TOXICITY

Survival LC50	2.8 g/l
Reproduction IC25	0.66 g/l

QA/QC TEST ACCEPTABILITY

Parameter	Result
Control survival ≥ 80%	Pass (100% Survival)
≥ 15 young per surviving control female	Pass (28.5 young)
≥ 60% surviving controls had 3 broods	Pass (100% with 3 broods)
PMSD < 47% for reproduction	Pass (PMSD = 14.7%)
Stat. sig. diff. conc. relative difference > 13%	Pass (Stat. sig. diff. conc. Relative difference = 46.0%)
Concentration response relationship acceptable	Pass (Response curve normal)

Ceriodaphnia Survival and Reproduction Test-7 Day Survival

Start Date: 2/7/2010 15:00 Test ID: RT100207c Sample ID: REF-Ref Toxicant
 End Date: 2/14/2010 14:00 Lab ID: CAATL-Aquatic Testing Labs Sample Type: NACL-Sodium chloride
 Sample Date: 2/7/2010 Protocol: FWCH EPA Test Species: CD-Ceriodaphnia dubia
 Comments:

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

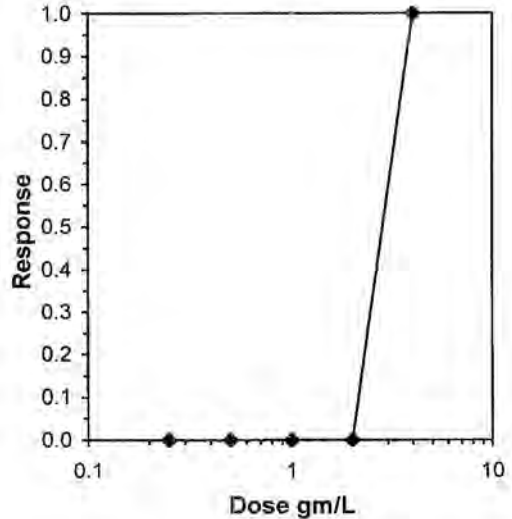
Conc-gm/L	Mean	N-Mean	Resp	Not Resp	Total	N	Fisher's Exact P	1-Tailed Critical	Number Resp	Total Number
D-Control	1.0000	1.0000	0	10	10	10			0	10
0.25	1.0000	1.0000	0	10	10	10	1.0000	0.0500	0	10
0.5	1.0000	1.0000	0	10	10	10	1.0000	0.0500	0	10
1	1.0000	1.0000	0	10	10	10	1.0000	0.0500	0	10
2	1.0000	1.0000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

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

Graphical Method

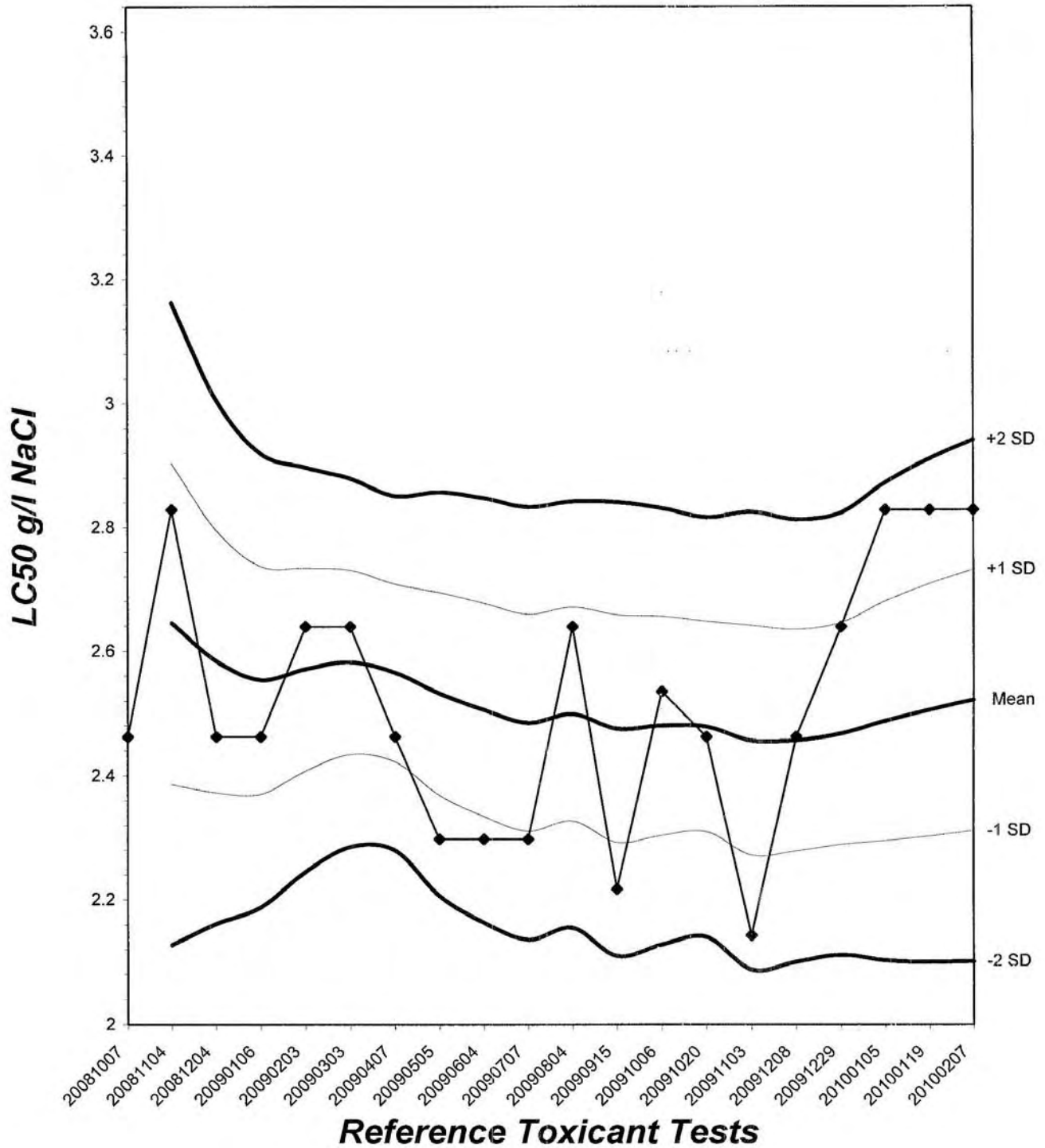
Trim Level **EC50**
 0.0% 2.8284

2.8284



Ceriodaphnia Chronic Survival Laboratory Control Chart

CV% = 8.34



Ceriodaphnia Survival and Reproduction Test-Reproduction

Start Date: 2/7/2010 15:00 Test ID: RT100207c Sample ID: REF-Ref Toxicant
 End Date: 2/14/2010 14:00 Lab ID: CAATL-Aquatic Testing Labs Sample Type: NACL-Sodium chloride
 Sample Date: 2/7/2010 Protocol: FWCH EPA Test Species: CD-Ceriodaphnia dubia

Comments:

Conc-gm/L	1	2	3	4	5	6	7	8	9	10
D-Control	30.000	29.000	30.000	32.000	29.000	30.000	30.000	25.000	26.000	24.000
0.25	48.000	29.000	31.000	31.000	27.000	27.000	28.000	36.000	25.000	27.000
0.5	27.000	26.000	26.000	28.000	25.000	25.000	30.000	25.000	18.000	25.000
1	24.000	13.000	15.000	19.000	24.000	13.000	11.000	13.000	11.000	11.000
2	3.000	3.000	2.000	3.000	2.000	3.000	4.000	4.000	2.000	3.000
4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

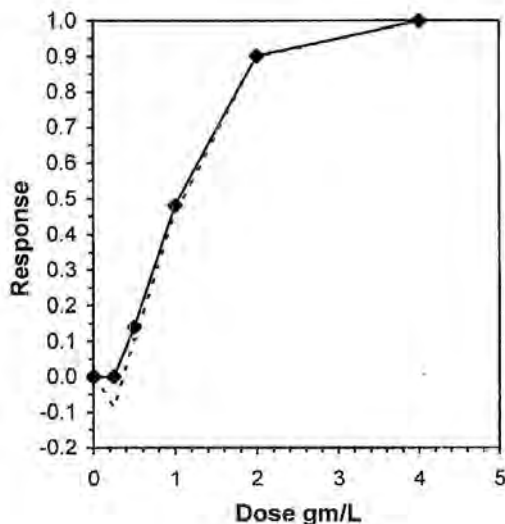
Conc-gm/L	Transform: Untransformed							Rank Sum	1-Tailed Critical	Isotonic	
	Mean	N-Mean	Mean	Min	Max	CV%	N			Mean	N-Mean
D-Control	28.500	1.0000	28.500	24.000	32.000	9.097	10			29.700	1.0000
0.25	30.900	1.0842	30.900	25.000	48.000	21.867	10	110.50	76.00	29.700	1.0000
0.5	25.500	0.8947	25.500	18.000	30.000	12.158	10	79.00	76.00	25.500	0.8586
*1	15.400	0.5404	15.400	11.000	24.000	33.280	10	56.00	76.00	15.400	0.5185
*2	2.900	0.1018	2.900	2.000	4.000	25.444	10	55.00	76.00	2.900	0.0976
4	0.000	0.0000	0.000	0.000	0.000	0.000	10			0.000	0.0000

Auxiliary Tests	Statistic	Critical	Skew	Kurt
Shapiro-Wilk's Test indicates non-normal distribution (p <= 0.05)	0.87968	0.947	1.72192	5.90298
Bartlett's Test indicates unequal variances (p = 1.75E-06)	32.1843	13.2767		

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

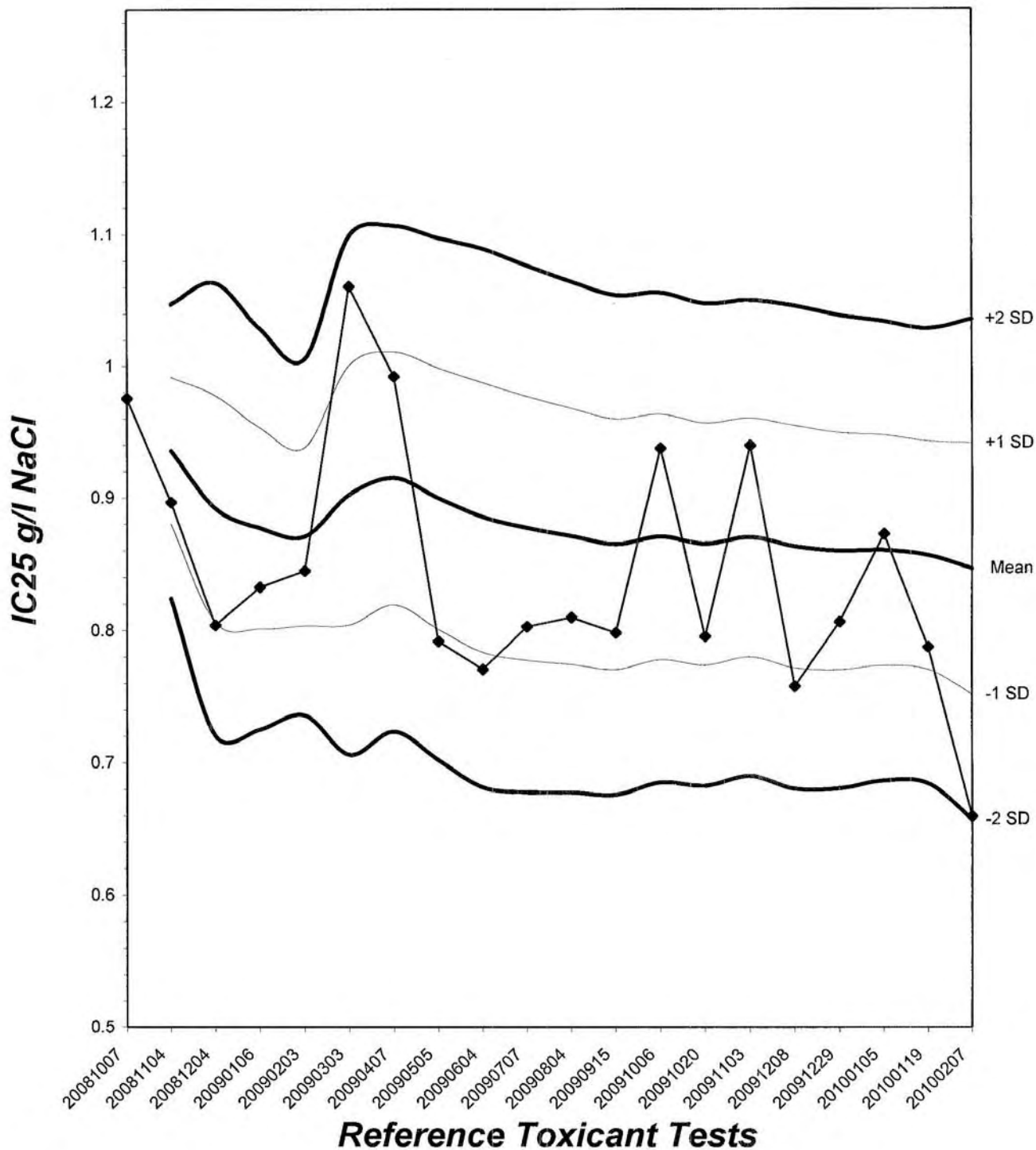
Linear Interpolation (200 Resamples)

Point	gm/L	SD	95% CL		Skew
IC05	0.3384	0.0442	0.2691	0.4525	0.4001
IC10	0.4268	0.0548	0.3537	0.5444	0.4118
IC15	0.5126	0.0553	0.4160	0.6069	0.0105
IC20	0.5861	0.0571	0.4714	0.6748	-0.2745
IC25	0.6597	0.0572	0.5402	0.7608	-0.3338
IC40	0.8802	0.0645	0.7629	1.0101	0.4008
IC50	1.0440	0.0882	0.8903	1.2112	0.2244



Ceriodaphnia Chronic Reproduction Laboratory Control Chart

CV% = 11.2



CERIODAPHNIA DUBIA CHRONIC BIOASSAY

Reference Toxicant - NaCl

Reproduction and Survival Raw Data Sheet



QA/QC No.: RT-100207

Start Date: 02/07/2010

Sample	Day	Number of Young Produced										Total Live Young	No. Live Adults	Analyst Initials
		A	B	C	D	E	F	G	H	I	J			
Control	1	0	0	0	0	0	0	0	0	0	0	0	10	R
	2	0	0	0	0	0	0	0	0	0	0	0	10	R
	3	5	0	4	4	3	4	4	4	3	4	35	10	R
	4	0	5	0	0	0	9	10	7	9	9	49	10	R
	5	8	8	12	11	10	0	16	14	14	11	104	10	R
	6	0	0	0	0	0	17	17	15	17	12	17	10	R
	7	17	16	14	17	16	15	0	0	0	0	80	10	R
	Total	30	29	30	32	29	30	30	25	26	24	285	10	R
0.25 g/l	1	0	0	0	0	0	0	0	0	0	0	10	R	
	2	0	0	0	0	0	0	0	0	0	0	10	R	
	3	0	4	4	4	5	3	4	0	4	3	31	10	R
	4	0	0	0	0	9	8	11	10	9	0	47	10	R
	5	11	8	8	10	13	0	13	11	12	8	94	10	R
	6	18	17	19	17	15	16	13	0	17	16	103	10	R
	7	19	0	17	16	0	17	0	15	0	15	34	10	R
	Total	38	29	31	31	27	27	28	36	25	27	309	10	R
0.5 g/l	1	0	0	0	0	0	0	0	0	0	0	10	R	
	2	0	0	0	0	0	0	0	0	0	0	10	R	
	3	2	0	3	0	3	3	0	0	4	3	18	10	R
	4	0	4	4	2	5	0	6	4	6	5	36	10	R
	5	7	5	0	0	0	7	8	6	8	0	41	10	R
	6	18	17	19	12	17	0	16	0	0	0	99	10	R
	7	0	0	0	14	16	15	0	15	14	17	61	10	R
	Total	27	26	26	28	25	25	30	25	18	25	255	10	R

Circled fourth brood not used in statistical analysis.

7th day only used if <60% of the surviving control females have produced their third brood.

CERIODAPHNIA DUBIA CHRONIC BIOASSAY

Reference Toxicant - NaCl

Reproduction and Survival Raw Data Sheet



QA/QC No.: RT-100207

Start Date: 02/07/2010

Sample	Day	Number of Young Produced										Total Live Young	No. Live Adults	Analyst Initials
		A	B	C	D	E	F	G	H	I	J			
1.0 g/l	1	0	0	0	0	0	0	0	0	0	0	0	10	[Signature]
	2	0	0	0	0	0	0	0	0	0	0	0	10	
	3	3 0	2	3	3	0	0	2	2	0	15	10		
	4	0	2	5	2	4	0	0	3	3	0	19	10	
	5	5	4	0	0	0	0	4	0	0	0	19	10	
	6	0	0	0	14	17	0	0	0	0	4	35	10	
	7	16	7	8	0	0	2	7	8	6	7	66	10	
	Total	24	13	15	19	24	13	11	13	11	11	154	10	
2.0 g/l	1	0	0	0	0	0	0	0	0	0	0	10	[Signature]	
	2	0	0	0	0	0	0	0	0	0	0	10		
	3	0	0	0	0	0	0	0	0	0	0	10		
	4	0	0	0	0	0	0	0	0	0	0	10		
	5	0	0	0	0	0	0	0	0	0	0	10		
	6	0	0	2	0	0	0	0	3	0	0	5		10
	7	3	3	0	3	2	3	4	1	2	3	24		10
	Total	3	3	2	3	2	3	4	4	2	3	29		10
4.0 g/l	1	0	0	0	0	X	X	X	X	X	0	0	[Signature]	
	2	-	-	-	-	-	-	-	-	-	-	-		
	3	-	-	-	-	-	-	-	-	-	-	-		
	4	-	-	-	-	-	-	-	-	-	-	-		
	5	-	-	-	-	-	-	-	-	-	-	-		
	6	-	-	-	-	-	-	-	-	-	-	-		
	7	-	-	-	-	-	-	-	-	-	-	-		
	Total	0	0	0	0	0	0	0	0	0	0	0		0

Circled fourth brood not used in statistical analysis.

7th day only used if <60% of the surviving control females have produced their third brood.

CARIODAPHNIA DUBIA CHRONIC BIOASSAY

Reference Toxicant - NaCl Water Chemistries Raw Data Sheet



QA/QC No.: RT-100207

Start Date: 02/07/2010

		DAY 1		DAY 2		DAY 3		DAY 4		DAY 5		DAY 6		DAY 7	
		Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final
Analyst Initials:		[Signature]		[Signature]		[Signature]		[Signature]		[Signature]		[Signature]		[Signature]	
Time of Readings:		1500	1430	1430	1500	1500	1400	1400	1400	1500	1500	1600	1600	1400	1400
Control	DO	8.3	8.3	8.1	8.4	8.2	8.3	8.3	8.2	8.4	8.2	8.1	7.9	8.0	8.0
	pH	7.7	8.0	8.2	8.0	8.0	7.8	8.0	7.8	7.7	7.7	7.7	7.8	7.5	7.6
	Temp	24.3	24.2	24.7	25.0	25.7	25.1	24.4	24.0	25.7	24.8	25.4	25.2	25.9	24.5
0.25 g/l	DO	8.4	8.4	8.2	8.4	8.2	8.3	8.3	8.2	8.4	8.2	8.1	8.0	8.0	7.9
	pH	8.0	7.8	8.0	8.0	8.0	7.8	8.0	7.8	7.7	7.7	7.7	7.8	7.5	7.5
	Temp	24.4	24.2	24.6	25.1	25.8	25.2	24.5	24.2	25.7	24.9	25.4	25.3	25.9	25.0
0.5 g/l	DO	8.2	8.3	8.2	8.3	8.2	8.3	8.3	8.1	8.4	8.2	8.1	8.0	8.0	8.1
	pH	7.9	7.8	7.8	8.0	8.1	7.8	7.8	7.8	7.7	7.7	7.7	7.8	7.6	7.5
	Temp	24.4	24.6	24.4	25.2	25.8	25.4	24.5	24.2	25.7	25.0	25.5	25.4	25.8	24.7
1.0 g/l	DO	8.3	8.4	8.4	8.3	8.3	8.2	8.3	8.1	8.3	8.3	8.2	7.9	8.0	8.0
	pH	7.9	7.8	7.8	8.0	8.1	7.8	7.8	7.8	7.7	7.7	7.7	7.8	7.6	7.6
	Temp	24.4	24.6	24.5	25.2	25.9	25.4	24.6	24.1	25.8	25.0	25.6	25.4	25.8	24.4
2.0 g/l	DO	8.2	8.0	8.4	8.5	8.3	8.2	8.3	8.1	8.3	8.3	8.2	8.1	8.0	8.3
	pH	7.9	7.8	7.7	8.0	8.1	7.8	7.8	7.8	7.7	7.7	7.8	7.8	7.7	7.6
	Temp	24.6	24.8	24.5	25.2	26.0	25.3	24.8	24.1	25.9	25.1	25.8	25.3	25.6	24.7
4.0 g/l	DO	8.3	8.0	-	-	-	-	-	-	-	-	-	-	-	-
	pH	8.1	7.7	-	-	-	-	-	-	-	-	-	-	-	-
	Temp	24.5	25.1	-	-	-	-	-	-	-	-	-	-	-	-

Dissolved Oxygen (DO) readings are in mg/l O₂; Temperature (Temp) readings are in °C.

Additional Parameters	Control			High Concentration		
	Day 1	Day 3	Day 5	Day 1	Day 3	Day 5
Conductivity (µS)	349	335	341	6240	3390	3510
Alkalinity (mg/l CaCO ₃)	67	68	67	67	68	68
Hardness (mg/l CaCO ₃)	90	93	92	90	92	92

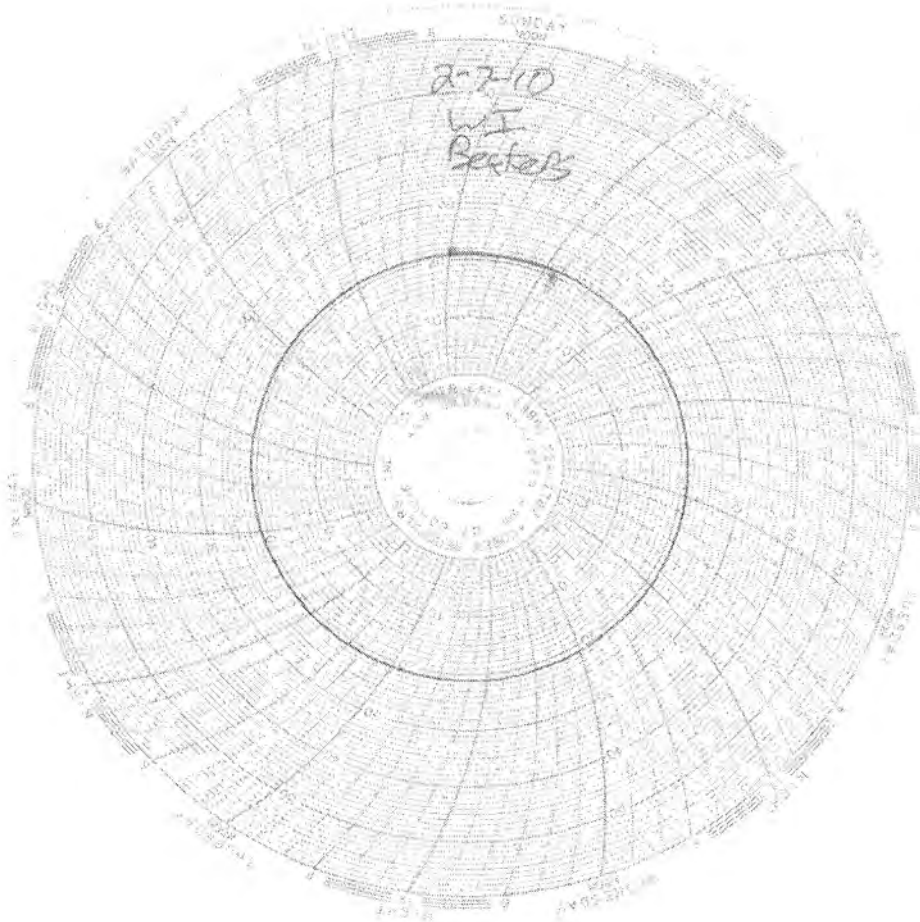
Source of Neonates										
Replicate:	A	B	C	D	E	F	G	H	I	J
Brood ID:	3A	3B	2C	2D	1E	1F	3G	2H	3I	1J

Test Temperature Chart

Test No: RT-100207

Date Tested: 02/07/10 to 02/14/10

Acceptable Range: 25+/- 1°C



SUBCONTRACT ORDER
TestAmerica Irvine

987 712

ITB0888

SENDING LABORATORY:

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

RECEIVING LABORATORY:

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

Rec'd 02/08/10
s9b 987712

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

Analysis	Units	Expires	Comments
----------	-------	---------	----------

Sample ID: ITB0888-01 (Outfall 002 (Composite) - Water)

Sampled: 02/05/10 21:03

Hydrazine-OUT	ug/l	02/08/10 21:03	Sub Truesdail for Monomethylhydrazine, J flags
Containers Supplied:			Level 4 Data Package <i>AD</i>
1 L Amber (W)	1 L Amber (X)		2/10/10

**For Sample Conditions
See Form Attached**

**ALERT !!
Level IV QC**

Margalita Solar 28/10 730
 Released By _____ Date/Time _____
[Signature] 28/10 742
 Released By _____ Date/Time _____

[Signature] 2-840 730
 Received By _____ Date/Time _____
L. Shebecino 2/8/10 7:42
 Received By _____ Date/Time _____

TRUESDAIL LABORATORIES, INC.

EXCELLENCE IN INDEPENDENT TESTING



Established 1931

14201 FRANKLIN AVENUE · TUSTIN, CALIFORNIA 92780-7008
(714) 730-6239 · FAX (714) 730-6462 · www.truesdail.com

Client: Test America - Irvine
17461 Derian Avenue, Suite 100
Irvine, CA 92614-5817

REPORT

Attention: Joseph Doak
Sample: Water / 1 Sample
Project Name: ITB0888
Project Number: ITB0888
Method Number: EPA 8315 (Modified)
Investigation: Hydrazines

Laboratory No: 987712
Report Date: February 11, 2010
Sampling Date: February 5, 2010
Receiving Date: February 8, 2010
Extraction Date: February 8, 2010
Analysis Date: February 9, 2010
Units: µg/L
Reported By: JS

Analytical Results

Sample ID	Sample Description	Sample Amount (mL)	Dilution Factor	Monomethyl Hydrazine	u-Dimethyl Hydrazine	Hydrazine	Qualifier Codes
708690-MB	Method Blank	100	1	ND	ND	ND	None
987712	ITB0888-01	100	1	0.857	1.42	0.452	None
MDL				5.0	5.0	1.00	
PQL				5.0	5.0	1.00	
Sample Reporting Limits							

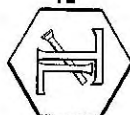
Note: Results based on detector #1 (UV=365nm) data.


Linda Saetern, Project Manager
Analytical Services, Truesdail Laboratories, Inc.

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from Truesdail Laboratories.

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Client: Test America - Irvine
 17461 Derian Avenue, Suite 100
 Irvine, CA 92614-5817

Client Contact: Joseph Doak
Sample: Water / 1 Sample
Project Number: ITB0888
Method Number: EPA 8315 (Modified)
Investigation: Hydrazines
Run Batch No.: Extraction: 5138; Analysis: 678

QC Lab. No.: 708690
Project Lab. No.: 987712
Spiked Sample ID: 987712
Report Date: February 11, 2010
Sampling Date: February 5, 2010
Receiving Date: February 8, 2010
Extraction Date: February 8, 2010
Analysis Date: February 9, 2010
Reported By: JS

Quality Control/Quality Assurance Calibration Report

Parameter	Theoretical	Measured	Percent Recovery	Control Limits	Flag
	Value (ug/L)	Value (ug/L)			
Monomethyl Hydrazine	25.0	25.1	100	85-115	PASS
u-Dimethyl Hydrazine	25.0	25.7	103	85-115	PASS
Hydrazine	5.0	4.76	95.2	85-115	PASS

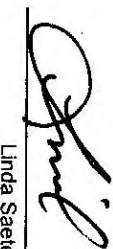
Parameter	Theoretical	Measured	Percent Recovery	Control Limits	Flag
	Value (ug/L)	Value (ug/L)			
Monomethyl Hydrazine	50.0	46.4	92.7	85-115	PASS
u-Dimethyl Hydrazine	50.0	48.0	96.0	85-115	PASS
Hydrazine	10.0	10.2	102	85-115	PASS

Quality Control/Quality Assurance Spikes Report

Parameter	Spiked Conc.	Recovered Concentration	MB	Percent Recovery (%)	LCS/LCSD	RSD	Flag	Control Limits		
	ug/L	LCS							LCS	RPD
Monomethyl Hydrazine	50.0	52.3	50.8	0.0	105	102	2.93%	PASS	20	50-150
u-Dimethyl Hydrazine	50.0	53.4	51.6	0.0	107	103	3.30%	PASS	20	50-150
Hydrazine	10.0	11.3	11.0	0.0	113	110	2.77%	PASS	20	50-150

Parameter	Recovered Concentration	Percent Recovery (%)	MS/MSD	RSD	Flag	Control Limits			
	MS						MSD	Sample	MS
Monomethyl Hydrazine	41.5	40.8	0.00	83.0	81.7	1.55%	PASS	20	50-150
u-Dimethyl Hydrazine	44.9	45.7	0.00	89.7	91.4	1.91%	PASS	20	50-150
Hydrazine	10.3	10.7	0.00	103	107	3.33%	PASS	20	50-150

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


 Linda Saetern, Project Manager
 Analytical Services, Truesdail Laboratories, Inc.

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from Truesdail Laboratories.

ITB0783

Client Name/Address:		Project:		ANALYSIS REQUIRED										Field Readings:				
MWH-Arcadia 618 Michillinda Ave, Suite 200 Arcadia, CA 91007		Boeing-SSFL NPDES Annual Outfall 002 GRAB												(Log in and include in report Temp and pH) Temp °F = 50.9 pH = 7.6 Total Residual Chlorine = 0.02 mg/L Time of readings = 2/5/10 09:30 Comments				
Test America Contact: Joseph Doak		Phone Number: (626) 568-6691 Fax Number: (626) 568-6515																
Project Manager: Bronwyn Kelly Sampler: S. Dawson		Sample Description	Container Type	# of Cont.	Sample Matrix	Preservative	Sampling Date/Time	Bottle #	123A, Cyclohexane + PP	VOCs 624 + A+A+2CVE	Cr (VI) (218.6)	Settleable Solids	Total Residual Chlorine	Oil & Grease (1664-HEM)	Cyanide (total recoverable)	8015 - gas	8015 - diesel/jet fuel	Conductivity
		Outfall 002	VOAS	5	W	HCl	2/5/10 09:30	1A, 1B, 1C, 1D, 1E	X									
		Outfall 002	VOAS	3	W	None	2/5/10 09:30	2A, 2B, 2C	X									
		Outfall 002	500 mL Poly	1	W	None		3		X								
		Outfall 002	1L Poly	1	W	None		4			X							
		Outfall 002	150 mL Poly	1	W	None		3					X					
		Outfall 002	1L Amber	2	W	HCl		6A, 6B						X				
		Outfall 002	500 mL Poly	1	W	NaOH		7						X				
		Trip Blanks	VOAS	3	W	HCl		8A, 8B, 8C	X									
		Trip Blanks	VOAS	3	W	None		9A, 9B, 9C	X									
		Outfall 002	VOAS	1	W	HCl		10A							X			
		Outfall 002 Dup	VOAS	2	W	HCl		10B, 10C							X			
		Outfall 002	1L Amber	1	W	None		11A										
		Outfall 002 Dup	1L Amber	1	W	None		11B										
		Outfall 002	500 mL Poly	2	W	None	2/5/10 09:30	12A, 12B								X		

These Samples are the Grab Portion of Outfall 002 for this storm event. Composite samples will follow and are to be added to this work order.

Relinquished By: <i>[Signature]</i>	Date/Time: 2-5-10 15:30	Received By: <i>[Signature]</i>	Date/Time: 2-5-10 15:30
Relinquished By: <i>[Signature]</i>	Date/Time: 2-5-10 14:20	Received By: <i>[Signature]</i>	Date/Time: 2-5-10 14:20
Relinquished By:	Date/Time:	Received By:	Date/Time:

Turn-around time: (Check)
 24 Hour: _____ 72 Hour: _____ 10 Day: _____
 48 Hour: _____ 5 Day: _____ Normal: _____

Sample Integrity: (Check)
 Intact: _____ On Ice: _____ X

Data Requirements: (Check)
 No Level IV: _____ All Level IV: _____ NPDES Level IV: _____ X

2.9 M253



TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

REVISED

PROJECT NO. ITB0888

MWH-Pasadena Boeing

Lot #: FOB090482

Joseph Doak

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817

TESTAMERICA LABORATORIES, INC.


Kay Clay
Project Manager

March 17, 2010

Case Narrative
LOT NUMBER: F0B090482
Revised 03-17-10

This report contains the analytical results for the sample received under chain of custody by TestAmerica St. Louis on February 9, 2010. This sample is associated with your MWH-Pasadena Boeing project.

The analytical results included in this report meet all applicable quality control procedure requirements.

The test results in this report meet all NELAP requirements for parameters in which accreditations are held by TestAmerica St. Louis. Any exceptions to NELAP requirements are noted in the case narrative. **TestAmerica St. Louis' Florida certification number is E87689.** The case narrative is an integral part of this report.

This report shall not be reproduced, except in full, without the written approval of the laboratory.

All chemical analysis results are based upon sample as received, wet weight, unless noted otherwise. All radiochemistry results are based upon sample as dried and ground with the exception of tritium, unless requested wet weight by the client.

Report revised to report the KPA uranium results in pCi/L.

Observations/Nonconformances

Reference the chain of custody and condition upon receipt report for any variations on receipt conditions and temperature of samples on receipt.

There are no observations or nonconformances associated with the analysis in this lot.

METHODS SUMMARY

F0B090482

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
Gamma Spectroscopy - Cesium-137 & Hits	EPA 901.1 MOD	
Gross Alpha/Beta EPA 900	EPA 900.0 MOD	EPA 900.0
H-3 by Distillation & LSC	EPA 906.0 MOD	
Radium-226 by GFPC	EPA 903.0 MOD	
Radium-228 by GFPC	EPA 904 MOD	
Strontium 90 by GFPC	EPA 905 MOD	
Total Uranium By Laser Ph osphorimetry	ASTM 5174-91	

References:

ASTM Annual Book Of ASTM Standards.

EPA "EASTERN ENVIRONMENTAL RADIATION FACILITY RADIOCHEMISTRY
PROCEDURES MANUAL" US EPA EPA 520/5-84-006 AUGUST 1984

SAMPLE SUMMARY

F0B090482

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
LVF48	001	ITB0888-01	02/05/10	21:03

NOTE (S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

TestAmerica Irvine

Client Sample ID: ITB0888-01

Radiochemistry

Lab Sample ID: FOB090482-001
 Work Order: LVF48
 Matrix: WATER

Date Collected: 02/05/10 2103
 Date Received: 02/09/10 1100

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Cs-137 & Hits by EPA 901.1 MOD				pCi/L		Batch # 0042136	Yld %
Cesium 137	2.6	U	6.0	20.0	10	02/11/10	02/19/10
Potassium 40	-40	U	200		190	02/11/10	02/19/10
Gross Alpha/Beta EPA 900				pCi/L		Batch # 0043108	Yld %
Gross Alpha	4.5		2.4	3.0	3.0	02/10/10	02/18/10
Gross Beta	2.9	J	1.0	4.0	1.3	02/10/10	02/18/10
SR-90 BY GFPC EPA-905 MOD				pCi/L		Batch # 0041162	Yld % 62
Strontium 90	0.37	U	0.27	3.00	0.42	02/10/10	02/19/10
TRITIUM (Distill) by EPA 906.0 MOD				pCi/L		Batch # 0049035	Yld %
Tritium	109	J	73	500	93	02/18/10	02/18/10
Total Uranium by KPA ASTM 5174-91				pCi/L		Batch # 0053280	Yld %
Total Uranium	1.48		0.15	0.69	0.21	02/23/10	02/26/10
Radium 226 by EPA 903.0 MOD				pCi/L		Batch # 0041160	Yld % 86
Radium (226)	0.10	U	0.13	1.00	0.20	02/10/10	02/26/10
Radium 228 by GFPC EPA 904 MOD				pCi/L		Batch # 0060257	Yld % 80
Radium 228	-0.04	U	0.20	1.00	0.37	03/01/10	03/05/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

J Result is greater than sample detection limit but less than stated reporting limit.

U Result is less than the sample detection limit.

METHOD BLANK REPORT

Radiochemistry

Client Lot ID: FOB090482
 Matrix: WATER

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	MDC	Prep Date	Lab Sample ID Analysis Date
Radium 228 by GFPC EPA 904 MOD			pCi/L	Batch #	0060257	Yld %	88 FOC010000-257B
Radium 228	0.08	U	0.23	1.00	0.39	03/01/10	03/05/10
Radium 226 by EPA 903.0 MOD			pCi/L	Batch #	0041160	Yld %	95 FOB100000-160B
Radium (226)	0.092	U	0.095	1.00	0.14	02/10/10	02/26/10
SR-90 BY GFPC EPA-905 MOD			pCi/L	Batch #	0041162	Yld %	80 FOB100000-162B
Strontium 90	-0.15	U	0.20	3.00	0.38	02/10/10	02/19/10
Gamma Cs-137 & Hits by EPA 901.1 MOD			pCi/L	Batch #	0042136	Yld %	FOB110000-136B
Cesium 137	1.8	U	7.7	20.0	14	02/11/10	02/19/10
Potassium 40	-80	U	620		210	02/11/10	02/19/10
Gross Alpha/Beta EPA 900			pCi/L	Batch #	0043108	Yld %	FOB120000-108B
Gross Alpha	-0.28	U	0.35	2.00	0.87	02/10/10	02/19/10
Gross Beta	-0.23	U	0.62	4.00	1.1	02/10/10	02/19/10
TRITIUM (Distill) by EPA 906.0 MOD			pCi/L	Batch #	0049035	Yld %	FOB180000-035B
Tritium	165	J	85	500	95	02/18/10	02/18/10
Total Uranium by KPA ASTM 5174-91			pCi/L	Batch #	0053280	Yld %	FOB220000-280B
Total Uranium	0.0460	U	0.0057	0.693	0.21	02/23/10	02/26/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined using instrument performance only

Bold results are greater than the MDC.

J Result is greater than sample detection limit but less than stated reporting limit.

U Result is less than the sample detection limit.

Laboratory Control Sample Report

Radiochemistry

Client Lot ID: F0B090482
 Matrix: WATER

Parameter	Spike Amount	Result	Total Uncert. (2 σ +/-)	MDC	% Yld	% Rec	Lab Sample ID QC Control Limits
Radium 226 by EPA 903.0 MOD			pCi/L	903.0 MOD			F0B100000-160C
Radium (226)	11.3	10.4	1.1	0.2	97	93	(68 - 136)
	Batch #:	0041160		Analysis Date:	02/26/10		
SR-90 BY GFPC EPA-905 MOD			pCi/L	905 MOD			F0B100000-162C
Strontium 90	6.80	6.82	0.77	0.34	83	100	(80 - 130)
	Batch #:	0041162		Analysis Date:	02/19/10		
Gamma Cs-137 & Hits by EPA 901.1 MOD			pCi/L	901.1 MOD			F0B110000-136C
Americium 241	141000	140000	11000	500		99	(87 - 110)
Cesium 137	53100	52900	3000	200		100	(90 - 110)
Cobalt 60	87900	88000	5000	200		100	(89 - 110)
	Batch #:	0042136		Analysis Date:	02/19/10		
Gross Alpha/Beta EPA 900			pCi/L	900.0 MOD			F0B120000-108C
Gross Beta	68.0	71.6	6.0	1		105	(58 - 133)
	Batch #:	0043108		Analysis Date:	02/19/10		
Gross Alpha/Beta EPA 900			pCi/L	900.0 MOD			F0B120000-108C
Gross Alpha	49.4	34.8	4.3	1.2		70	(62 - 134)
	Batch #:	0043108		Analysis Date:	02/19/10		
TRITIUM (Distill) by EPA 906.0 MOD			pCi/L	906.0 MOD			F0B180000-035C
Tritium	4530	4440	460	90		98	(85 - 112)
	Batch #:	0049035		Analysis Date:	02/18/10		
Total Uranium by KPA ASTM 5174-91			pCi/L	5174-91			F0B220000-280C
Total Uranium	27.7	30.2	3.6	0.2		109	(90 - 120)
	Batch #:	0053280		Analysis Date:	02/26/10		
Total Uranium by KPA ASTM 5174-91			pCi/L	5174-91			F0B220000-280C
Total Uranium	5.54	5.97	0.61	0.21		108	(90 - 120)
	Batch #:	0053280		Analysis Date:	02/26/10		

NOTE(S)

MDC is determined by instrument performance only

Calculations are performed before rounding to avoid round-off error in calculated results

Laboratory Control Sample/LCS Duplicate Report

Radiochemistry

Client Lot ID: FOB090482
 Matrix: WATER

Parameter	Spike Amount	Result	Total Uncert. (2 σ +/-)	% Yld	% Rec	Lab Sample ID	
						QC Control Limits	Precision
Radium 228 by GFPC EPA 904 MOD		pCi/L		904 MOD			F0C010000-257C
Radium 228	6.40	6.23	0.74	87	97	(60 - 142)	
Spk 2	6.40	6.35	0.77	84	99	(60 - 142)	2 %RPD
	Batch #:	0060257		Analysis Date:	03/05/10		

NOTE (S)

Calculations are performed before rounding to avoid round-off error in calculated results

MATRIX SPIKE REPORT

Radiochemistry

Client Lot Id: FOB090473
 Matrix: WATER

Date Sampled: 02/05/10
 Date Received: 02/09/10

Parameter	Spike Amount	Spike Result	Total Uncert. (2σ +/-)	Spike Yld.	Sample Result	Total Uncert. (2σ +/-)	QC Sample ID		QC Control Limits
							%YLD	%REC	
TRITIUM (Distill) by EPA	906.0 MOD		pCi/L		906.0 MOD		FOB090473-001		
Tritium	4530	4650	470		122	77		100	(62 - 147)
	Batch #:	0049035		Analysis Date:	02/18/10				
Gross Alpha/Beta EPA	900		pCi/L		900.0 MOD		FOB090470-001		
Gross Alpha	49.4	47.2	5.2		2.00	0.88		91	(35 - 150)
	Batch #:	0043108		Analysis Date:	02/18/10				
Gross Alpha/Beta EPA	900		pCi/L		900.0 MOD		FOB090470-001		
Gross Beta	68.0	79.0	6.6		3.9	1.2		110	(54 - 150)
	Batch #:	0043108		Analysis Date:	02/18/10				

NOTE(S)

Data are incomplete without the case narrative.

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE REPORT

Radiochemistry

Client Lot ID: FOB090470
 Matrix: WATER

Date Sampled: 02/07/10 1143
 Date Received: 02/09/10 1100

Parameter	Spike Amount	SPIKE Result	Total Uncert. (2 σ+/-)	Spike Yld	SAMPLE Result	Total Uncert. (2 σ +/-)	QC Sample ID		QC Control Limits
							% Yld	%Rec	
Total Uranium by KPA ASTM 5			pCi/L	5174-91			FOB090470-001		
Total Uranium	27.7	29.7	3.1	0.566	J	0.068		105	(62 - 150)
Spk2	27.7	30.0	3.1	0.566	J	0.068		106	(62 - 150)
							Precision:	1	%RPD
		Batch #:	0053280	Analysis date:	02/26/10				

NOTE(S)

Data are incomplete without the case narrative.

Calculations are performed before rounding to avoid round-off error in calculated results

Result is greater than sample detection limit but less than stated reporting limit.

DUPLICATE EVALUATION REPORT

Radiochemistry

Client Lot ID: FOB090482
 Matrix: WATER

Date Sampled: 02/05/10
 Date Received: 02/09/10

Parameter	SAMPLE		Total Uncert. (2σ +/-)	% Yld	DUPLICATE		Total Uncert. (2σ +/-)	% Yld	QC Sample ID	
	Result				Result				Precision	
Radium 226 by EPA 903.0 MOD					903.0 MOD				FOB090467-001	
Radium (226)	0.089	U	0.098	92	0.07	U	0.16	92	31	%RPD
	Batch #:		0041160 (Sample)		0041160 (Duplicate)					
Gamma Cs-137 & Hits by EPA 901.1 MOD					901.1 MOD				FOB090470-001	
Cesium 137	-2.9	U	9.0		1.2	U	7.8		479	%RPD
Potassium 40	-100	U	43000		-50	U	230		93	%RPD
	Batch #:		0042136 (Sample)		0042136 (Duplicate)					
Gross Alpha/Beta EPA 900					900.0 MOD				FOB090470-001	
Gross Alpha	2.00	J	0.88		0.84	U	0.66		82	%RPD
Gross Beta	3.9	J	1.2		3.2	J	1.1		20	%RPD
	Batch #:		0043108 (Sample)		0043108 (Duplicate)					
TRITIUM (Distill) by EPA 906.0 MOD					906.0 MOD				FOB090470-001	
Tritium	114	J	75		80	U	66		35	%RPD
	Batch #:		0049035 (Sample)		0049035 (Duplicate)					
SR-90 BY GFPC EPA-905 MOD					905 MOD				FOB090475-001	
Strontium 90	-0.05	U	0.23	72	-0.15	U	0.23	69	97	%RPD
	Batch #:		0041162 (Sample)		0041162 (Duplicate)					

NOTE(S)

Data are incomplete without the case narrative.
 Calculations are performed before rounding to avoid round-off error in calculated results

J Result is greater than sample detection limit but less than stated reporting limit.

U Result is less than the sample detection limit.

FOB090482

*Conf
122*

SUBCONTRACT ORDER

TestAmerica Irvine

ITB0888 -


Revised

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:

TestAmerica St. Louis
13715 Rider Trail North
Earth City, MO 63045
Phone : (314) 298-8566
Fax: (314) 298-8757

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: ITB0888-01	Water	Sampled:02/05/10 21:03		
Uranium, Combined-O	02/17/10 12:00	02/05/11 21:03		Out St Louis, Boeing permit, DO NOT FILTER!
Tritium-O	02/17/10 12:00	02/05/11 21:03		Out St Louis, Boeing permit, DO NOT FILTER!
Strontium 90-O	02/17/10 12:00	02/05/11 21:03		Out St Louis, Boeing permit, DO NOT FILTER!
Radium, Combined-O	02/17/10 12:00	02/05/11 21:03		Out St Louis, Boeing permit, DO NOT FILTER!
Level 4 Data Package - Out	02/17/10 12:00	03/05/10 21:03		
Gross Beta-O	02/17/10 12:00	08/04/10 21:03		Out St Louis, Boeing permit, DO NOT FILTER!
Gross Alpha-O	02/17/10 12:00	08/04/10 21:03		Out St Louis, Boeing permit, DO NOT FILTER!
Gamma Spec-O	02/17/10 12:00	02/05/11 21:03		Out St Louis, k-40 and cs-137 only, DO NOT FILTER!
<i>Containers Supplied:</i>				
2.5 gal Poly (U)	500 mL Amber (V)			

Released By	Date	Received By	Date
		<i>[Signature]</i>	2-9-10 1100
Released By	Date	Received By	Date

SUBCONTRACT ORDER
TestAmerica Irvine
ITB0888

SENDING LABORATORY:

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

RECEIVING LABORATORY:

TestAmerica St. Louis
 13715 Rider Trail North
 Earth City, MO 63045
 Phone : (314) 298-8566
 Fax: (314) 298-8757
 Project Location: CA - CALIFORNIA
 Receipt Temperature: _____ °C Ice: Y / N

Analysis	Units	Due	Expires	Interlab Price	Surch	Comments
----------	-------	-----	---------	----------------	-------	----------

Sample ID: ITB0888-01 (Outfall 002 (Composite) - Water)

Sampled: 02/05/10 21:03

Gross Alpha-O	pCi/L	02/17/10	08/04/10 21:03	\$90.00	50%	Out St Louis, Boeing permit, DO NOT FILTER!
Gross Beta-O	pCi/L	02/17/10	08/04/10 21:03	\$90.00	50%	Out St Louis, Boeing permit, DO NOT FILTER!
Level 4 Data Package - Out	N/A	02/17/10	03/05/10 21:03	\$0.00	0%	
Radium, Combined-O	pCi/L	02/17/10	02/05/11 21:03	\$200.00	50%	Out St Louis, Boeing permit, DO NOT FILTER!
Strontium 90-O	pCi/L	02/17/10	02/05/11 21:03	\$140.00	50%	Out St Louis, Boeing permit, DO NOT FILTER!
Tritium-O	pCi/L	02/17/10	02/05/11 21:03	\$80.00	50%	Out St Louis, Boeing permit, DO NOT FILTER!
Uranium, Combined-O	pCi/L	02/17/10	02/05/11 21:03	\$100.00	50%	Out St Louis, Boeing permit, DO NOT FILTER!

Containers Supplied:

2.5 gal Poly (U) 500 mL Amber (V)

Margaret Davis 2/8/10 17:00
 Released By _____ Date/Time _____

Fedex 2/8/10 17:00
 Received By _____ Date/Time _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Lot #(s): FOB 090467, 481, 485
470, 482
478, 484
473, 485
476, 486

CONDITION UPON RECEIPT FORM

Client: T.A. Irvine

Quote No: 77635, 55044

COC/REA No: below

122

Initiated By: EV Date: 2-9-10 Time: 1100

Shipping Information

Shipper: FedEx UPS DHL Courier Client Other: _____ Multiple Packages: Y N

Shipping # (s):*	Sample Temperature (s):**
1. <u>4289 2133 2309 MRS</u>	1. <u>ambient</u>
2. _____	2. _____
3. _____	3. _____
4. _____	4. _____
5. _____	5. _____

*Numbered shipping lines correspond to Numbered Sample Temp lines

**Sample must be received at 4°C ± 2°C. If not, note contents below. Temperature variance does NOT affect the following: Metals-Liquid or Rad tests- Liquid or Solids

Condition (Circle "Y" for yes, "N" for no and "N/A" for not applicable):

1. <input checked="" type="radio"/> Y <input type="radio"/> N	Are there custody seals present on the cooler?	8. <input checked="" type="radio"/> Y <input type="radio"/> N	Are there custody seals present on bottles?
2. <input type="radio"/> Y <input checked="" type="radio"/> N <input type="radio"/> N/A	Do custody seals on cooler appear to be tampered with?	9. <input type="radio"/> Y <input type="radio"/> N <input checked="" type="radio"/> N/A	Do custody seals on bottles appear to be tampered with?
3. <input checked="" type="radio"/> Y <input type="radio"/> N	Were contents of cooler frisked after opening, but before unpacking?	10. <input type="radio"/> Y <input type="radio"/> N <input checked="" type="radio"/> N/A	Was sample received with proper pH? (If not, make note below)
4. <input checked="" type="radio"/> Y <input type="radio"/> N <u>sig. N/A</u>	Sample received with Chain of Custody?	11. <input checked="" type="radio"/> Y <input type="radio"/> N	Sample received in proper containers?
5. <input checked="" type="radio"/> Y <input checked="" type="radio"/> N <input type="radio"/> N/A	Does the Chain of Custody match sample ID's on the container(s)?	12. <input type="radio"/> Y <input type="radio"/> N <input checked="" type="radio"/> N/A	Headspace in VOA or TOX liquid samples? (If Yes, note sample ID's below)
6. <input type="radio"/> Y <input checked="" type="radio"/> N	Was sample received broken?	13. <input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/> N/A	Was Internal COC/Workshare received?
7. <input checked="" type="radio"/> Y <input type="radio"/> N	Is sample volume sufficient for analysis?	14. <input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/> N/A	Was pH taken by original TestAmerica lab?

¹ For DOE-AL (Pantex, LANL, Sandia) sites, pH of ALL containers received must be verified, EXCEPT VOA, TOX and soils.

Notes: ITB 0887 ITB 0773

<u>95</u>	<u>36</u>	
<u>88 SN 2.9.10</u>	<u>47</u>	<u>Revised chains were not relinquished for Boeing project.</u>
<u>94</u>	<u>98</u>	
<u>88</u>	<u>99</u>	
<u>92</u>	<u>0800</u>	
<u>86</u>	<u>0590</u>	
<u>85</u>	<u>0602</u>	<u>ITB0800 label time is 1315;</u>
<u>96</u>		<u>c-o-c reads 1254</u>

Corrective Action:

Client Contact Name: _____ Informed by: _____
 Sample(s) processed "as is"
 Sample(s) on hold until: _____
 Project Management Review: Jaymak Pohl If released, notify: _____
 Date: 2-16-10

THIS FORM MUST BE COMPLETED AT THE TIME THE ITEMS ARE BEING CHECKED IN. IF ANY ITEM IS COMPLETED BY SOMEONE OTHER THAN THE INITIATOR, THEN THAT PERSON IS REQUIRED TO APPLY THEIR INITIAL AND THE DATE NEXT TO THAT ITEM.

ADMIN-0004, REVISED 10/21/08 \S\svr01\QA\FORMS\ST-LOUIS\ADMIN\Admin004 rev11.doc

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APPENDIX G

Section 9

Outfall 002 - February 20, 2010

MEC^X Data Validation Report

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DATA VALIDATION REPORT

Boeing SSFL NPDES

SAMPLE DELIVERY GROUP: ITB2185

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: ITB2185
 Project Manager: B. Kelly
 Matrix: Water
 QC Level: IV
 No. of Samples: 2
 No. of Reanalyses/Dilutions: 0
 Laboratory: TestAmerica-Irvine

Table 1. Sample Identification

Client ID	Laboratory ID	Sub-Laboratory ID	Matrix	Collected	Method
OUTFALL 002 (COMPOSITE)	ITB2185-03	F0B230452-001, G0B230477-001	WATER	2/20/2010 1:49:00 AM	ASTM 5174-91, 180.1, 245.1, 245.1 (DISS), 1613B, 900.0 MOD, 901.1 MOD, 903.0 MOD, 904 MOD, 905 MOD, 906.0 MOD
OUTFALL 002 (GRAB)	ITB2185-01	N/A	Water	2/20/2010 9:00:00 AM	120.1

II. Sample Management

No anomalies were observed regarding sample management. The samples in this SDG were received at TestAmerica-West Sacramento marginally below the temperature limit; however, the samples were not noted to be frozen or damaged. The samples in this SDG were received at the remaining laboratories within the temperature limits of 4°C ±2°C. According to the case narrative for this SDG, the samples were received intact, on ice, and properly preserved, if applicable. The COCs were appropriately signed and dated by field and/or laboratory personnel. Custody seals were intact upon receipt at TestAmerica-St. Louis and TestAmerica-West Sacramento. As the samples were couriered to TestAmerica-Irvine, no custody seals were required. 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 or PCB congeners.	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: L. Calvin

Date Reviewed: April 1, 2010

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 (9/05)*.

- 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 analyzed with the initial calibration sequence and at the beginning of each analytical sequence. 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 detects between the EDL and the RL for all target compounds except 2,3,7,8-TCDD and total TCDD, and 2,3,7,8-TCDF and total TCDF. Several detects in the method blank did not meet ratio criteria and were reported as EMPCs; however, due to the extent of contamination present in the method blank, it was the reviewer's professional opinion that those results be utilized to qualify applicable

sample results. Isomers present in the sample between the EDLs and RLs were qualified as nondetected, "U," at the levels of contamination. The sample results for all reported totals were also qualified as nondetected, "U," at the levels of contamination, as all peaks comprising the totals were present in the method blank at similar concentrations.

- Blank Spikes and Laboratory Control Samples: OPR 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 a representative number of reportable sample results. The EMPCs qualified as nondetected for method blank contamination were not further qualified as EMPCs. Any detects reported below the EDL, or between the estimated detection limit (EDL) and the reporting limit (RL) were qualified as estimated, "J," and coded with "DNQ," in order to comply with the NPDES permit. Nondetects are valid to the EDL.

B. EPA METHOD 245.1—Mercury

Reviewed By: P. Meeks

Date Reviewed: March 30, 2010

The sample listed in Table 1 for these analyses 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 (7/02)*.

- Holding Times: The analytical holding time, 28 days, was met.
- Tuning: Not applicable to this analysis.

- Calibration: Calibration criteria were met. Mercury initial calibration r^2 values were ≥ 0.995 and all initial and continuing calibration recoveries were within 85-115% for mercury. CRI recoveries were within the control limits of 70-130%.
- Blanks: Method blanks and CCBs had no detects.
- Interference Check Samples: Not applicable to this analysis.
- Blank Spikes and Laboratory Control Samples: Recoveries were within 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 analysis.
- Sample Result Verification: Calculations were verified and the sample results reported on the sample result summary were verified against the raw data. No transcription errors or calculation errors were noted. When the sample results were qualified and the reviewer was able to clearly determine bias, detected results were qualified as either "J+" or "J-"; otherwise, bias was not indicated in the qualification. Any detects between the method detection limit and the reporting limit were qualified as estimated, "J," and coded with "DNQ," in order to comply with the NPDES permit. Reported nondetects are valid to the MDL.
- Field QC Samples: Field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. Any remaining detects were used to evaluate the associated site samples. Following are findings associated with field QC samples:
 - Field Blanks and Equipment Rinsates: This SDG had no identified field blank or equipment rinsate samples.
 - Field Duplicates: There were no field duplicate samples identified for this SDG.

C. VARIOUS EPA METHODS — Radionuclides

Reviewed By: P. Meeks

Date Reviewed: March 30, 2010

The samples listed in Table 1 for these analyses were 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 (10/04)*.

- **Holding Times:** The aliquot for total uranium was prepared more than 3× beyond the 5-day holding time for unpreserved samples; therefore, nondetected uranium in the sample (see Blanks section) was rejected, "R." Aliquots for gross alpha and gross beta were prepared beyond the five-day analytical holding time for unpreserved samples; therefore, results for these analytes were qualified as estimated, "J," for detects and, "UJ," for nondetects. The tritium sample was analyzed within 180 days of collection. Aliquots for radium-226, radium-228, strontium-90, total uranium, and gamma spectroscopy were prepared within the five-day holding time for unpreserved aqueous samples.
- **Calibration:** The laboratory calibration information included the standard certificates and applicable preparation/dilutions logs for NIST-traceability.

The gross alpha and radium-226 detector efficiencies were less than 20%; therefore, the results for these analytes were qualified as estimated, "J," for detects and, "UJ," for nondetects. The remaining detector efficiencies were greater than 20%.

The tritium aliquot was spiked for efficiency determination; therefore, no calibration was necessary. All chemical yields were at least 40% and were considered acceptable. 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:** Total uranium was detected in the method blank at 0.315 pCi/L; therefore, total uranium detected in the sample was qualified as nondetected, at the reporting limit. This result was subsequently rejected due to an exceeded holding time. There were no other analytes detected in the method blanks or the KPA CCBs.
- **Blank Spikes and Laboratory Control Samples:** The recoveries and RPDs (radium-226, radium-228, strontium-90) were within laboratory-established control limits.
- **Laboratory Duplicates:** Laboratory duplicate analyses were performed on the sample in this SDG for cesium-137, potassium-40, gross alpha, gross beta, and tritium. All results were considered acceptable.

- Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were performed for the sample in this SDG on total uranium. Matrix spike analyses were performed on the sample in this SDG for gross alpha and gross beta. All recoveries and the RPD were within the laboratory-established control limits. Method accuracy for the remaining methods was evaluated based on the LCS results.
- 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. Any detects between the MDA and the reporting limit were qualified as estimated, "J," and coded with "DNQ," in order to comply with the NPDES permit. Reported nondetects are valid to the MDA.

The reviewer noted that the total uranium preparation log was not signed as reviewed.

- 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.

D. VARIOUS EPA METHODS—General Minerals

Reviewed By: P. Meeks

Date Reviewed: March 10, 2010

The samples listed in Table 1 for this analysis were validated based on the guidelines outlined in the *MEC^X Data Validation Procedure for General Minerals (DVP-6, Rev. 0)*, *EPA Methods 120.1 and 180.1*, and the *National Functional Guidelines for Inorganic Data Review (7/02)*.

- Holding Times: Analytical holding times were met.
- Calibration: Calibration criteria were met. Initial calibration r^2 values were ≥ 0.995 and all initial and continuing calibration recoveries were within 90-110%.
- Blanks: Method blanks and CCBs had no detects.
- Blank Spikes and Laboratory Control Samples: Recoveries were within laboratory-established QC limits.
- Laboratory Duplicates: No laboratory duplicate analyses were performed on the sample in

this SDG.

- Matrix Spike/Matrix Spike Duplicate: Not applicable to these analyses.
- Sample Result Verification: Calculations were verified and the sample results reported on the sample result summary were verified against the raw data. No transcription errors or calculation errors were noted. When the sample results were qualified and the reviewer was able to clearly determine bias, detected results were qualified as either “J+” or “J-”; otherwise, bias was not indicated in the qualification. Any detects between the method detection limit and the reporting limit were qualified as estimated, “J,” and coded with “DNQ,” in order to comply with the NPDES permit. Reported nondetects are valid to the 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.

Validated Sample Result Forms ITB2185

Analysis Method *ASTM 5174-91*

Sample Name OUTFALL 002 (COMPO **Matrix Type:** WATER **Validation Level:** IV

Lab Sample Name: ITB2185-03 **Sample Date:** 2/20/2010 1:49:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Total Uranium	7440-61-1	0.677	0.693	0.21	pCi/L	Jb	R	B, H

Analysis Method *EPA 120.1*

Sample Name OUTFALL 002 (GRAB) **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB2185-01 **Sample Date:** 2/20/2010 9:00:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Specific Conductance	NA	630	1.0	1.0	umhos/c			

Analysis Method *EPA 180.1*

Sample Name OUTFALL 002 (COMPO **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB2185-03 **Sample Date:** 2/20/2010 1:49:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Turbidity	Turb	0.75	1.0	0.040	NTU	J	J	DNQ

Analysis Method *EPA 245.1*

Sample Name OUTFALL 002 (COMPO **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB2185-03 **Sample Date:** 2/20/2010 1:49:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Mercury	7439-97-6	ND	0.00020	0.00010	mg/l		U	

Analysis Method *EPA 245.1-Diss*

Sample Name OUTFALL 002 (COMPO **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB2185-03 **Sample Date:** 2/20/2010 1:49:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Mercury	7439-97-6	ND	0.00020	0.00010	mg/l		U	

Analysis Method *EPA 900.0 MOD*

Sample Name OUTFALL 002 (COMPO **Matrix Type:** WATER **Validation Level:** IV

Lab Sample Name: ITB2185-03 **Sample Date:** 2/20/2010 1:49:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Gross Alpha	12587-46-1	-0.12	3	2	pCi/L	U	UJ	H, C
Gross Beta	12587-47-2	3.5	4	1.3	pCi/L	Jb	J	H, DNQ

Analysis Method *EPA 901.1 MOD*

Sample Name OUTFALL 002 (COMPO **Matrix Type:** WATER **Validation Level:** IV

Lab Sample Name: ITB2185-03 **Sample Date:** 2/20/2010 1:49:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Cesium 137	10045-97-3	-1	20	21	pCi/L	U	U	
Potassium 40	13966-00-2	-30	0	280	pCi/L	U	U	

Analysis Method *EPA 903.0 MOD*

Sample Name OUTFALL 002 (COMPO **Matrix Type:** WATER **Validation Level:** IV

Lab Sample Name: ITB2185-03 **Sample Date:** 2/20/2010 1:49:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Radium (226)	13982-63-3	0.133	1	0.048	pCi/L	Jb	J	C, DNQ

Analysis Method *EPA 904 MOD*

Sample Name OUTFALL 002 (COMPO **Matrix Type:** WATER **Validation Level:** IV

Lab Sample Name: ITB2185-03 **Sample Date:** 2/20/2010 1:49:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Radium 228	15262-20-1	-0.07	1	0.39	pCi/L	U	U	

Analysis Method *EPA 905 MOD*

Sample Name OUTFALL 002 (COMPO **Matrix Type:** WATER **Validation Level:** IV

Lab Sample Name: ITB2185-03 **Sample Date:** 2/20/2010 1:49:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Strontium 90	10098-97-2	-0.03	3	0.34	pCi/L	U	U	

Analysis Method EPA 906.0 MOD

Sample Name OUTFALL 002 (COMPO **Matrix Type:** WATER **Validation Level:** IV
Lab Sample Name: ITB2185-03 **Sample Date:** 2/20/2010 1:49:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Tritium	10028-17-8	-79	500	140	pCi/L	U	U	

Analysis Method EPA-5 1613B

Sample Name OUTFALL 002 (COMPO **Matrix Type:** WATER **Validation Level:** IV
Lab Sample Name: ITB2185-03 **Sample Date:** 2/20/2010 1:49:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1,2,3,4,6,7,8-HpCDD	35822-46-9	ND	1.5e-006	0.0000011	ug/L	J, Q, Ba	U	B
1,2,3,4,6,7,8-HpCDF	67562-39-4	ND	9.2e-007	0.000001	ug/L	J, Q, Ba	U	B
1,2,3,4,7,8,9-HpCDF	55673-89-7	ND	0.000048	0.0000017	ug/L		U	
1,2,3,4,7,8-HxCDD	39227-28-6	ND	7.3e-007	0.0000006	ug/L	J, Q, Ba	U	B
1,2,3,4,7,8-HxCDF	70648-26-9	ND	0.000048	0.0000002	ug/L	J, Ba	U	B
1,2,3,6,7,8-HxCDD	57653-85-7	ND	0.000048	0.0000005	ug/L		U	
1,2,3,6,7,8-HxCDF	57117-44-9	ND	0.000048	0.0000002	ug/L		U	
1,2,3,7,8,9-HxCDD	19408-74-3	ND	0.000048	0.0000005	ug/L		U	
1,2,3,7,8,9-HxCDF	72918-21-9	ND	0.000048	0.0000003	ug/L		U	
1,2,3,7,8-PeCDD	40321-76-4	ND	0.000048	0.0000005	ug/L		U	
1,2,3,7,8-PeCDF	57117-41-6	ND	0.000048	0.0000003	ug/L		U	
2,3,4,6,7,8-HxCDF	60851-34-5	ND	4.2e-007	0.0000002	ug/L	J, Q, Ba	U	B
2,3,4,7,8-PeCDF	57117-31-4	ND	0.000048	0.0000003	ug/L		U	
2,3,7,8-TCDD	1746-01-6	ND	0.0000095	0.0000000	ug/L		U	
2,3,7,8-TCDF	51207-31-9	ND	0.0000095	0.0000000	ug/L		U	
OCDD	3268-87-9	ND	0.000095	0.0000009	ug/L	J, Ba	U	B
OCDF	39001-02-0	ND	1.2e-006	0.0000011	ug/L	J, Q, Ba	U	B
Total HpCDD	37871-00-4	ND	3.4e-006	0.0000011	ug/L	J, Q, Ba	U	B
Total HpCDF	38998-75-3	ND	9.2e-007	0.000001	ug/L	Ba, J, Q	U	B
Total HxCDD	34465-46-8	ND	7.3e-007	0.0000005	ug/L	J, Q, Ba	U	B
Total HxCDF	55684-94-1	ND	1.1e-006	0.0000002	ug/L	J, Q, Ba	U	B
Total PeCDD	36088-22-9	ND	0.000048	0.0000005	ug/L		U	
Total PeCDF	30402-15-4	ND	0.000048	0.0000000	ug/L		U	
Total TCDD	41903-57-5	ND	0.0000095	0.0000000	ug/L		U	
Total TCDF	55722-27-5	ND	0.0000095	0.0000000	ug/L		U	